

EUROPEAN SPACE AGENCY DIRECTORATE OF OPERATIONS AND INFRASTRUCTURE OPS-GI



# SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EGOS DATA DISSEMINATION SYSTEM (EDDS)

Reference: EGOS-GEN-EDDS-SRS-1001 Version: 18.0 Date: 2018-02-16



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DIRECTORATE OF OPERATIONS AND INFRASTRUCTURE OPS-GI

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Document Reference:	EGOS-GEN-EDDS-SRS-1001			
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Abstract				

Defines the software requirements for the EGOS Data Dissemination System.

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# **TABLE OF CONTENTS**

]	EGOS	S DATA E	DISSEMINATION SYSTEM (EDDS)		
1.	IN	TRODU	CTION	•••••	
2.	АР	PLICAT	RLE AND REFERENCE DOCUM	MENTS	
	2.1 2.2				
3.	TE	RMS, D	EFINITIONS AND ABBREVIAT	TED TERMS	4
	3.1				
	3.2				
-	3.3	REQUI	REMENT TERMS	••••••	
4.	GE	INERAL	DESCRIPTION	•••••	7
4	4.1	Relat	IONSHIP TO CURRENT PROJECTS		
4	4.2				CTS
4	4.3				
	4.3				
		4.3.1.1 4.3.1.2			
		4.3.1.3			
		4.3.1.4	*		
	4	4.3.1.5	Acknowledgment		
			•		
		4.3.2.1			
		4.3.2.2 4.3.2.3			
		4.3.3.1			
	4	4.3.3.2	-		
		4.3.3.3			
		4.3.3.4	1		
		4.3.3.5 .4 Serv			
		.4 Serv 4.3.4.1			
		4.3.4.2			
4	1.4	Enviro			
	4.5				
	4.6				
4	4.7 4.7				
		.1 Gen 4.7.1.1			
		4.7.1.2	*		
	4	4.7.1.3	Use Cases		
	4.7	.2 Bate			
		4.7.2.1			
		4.7.2.2 4.7.2.3			22 22
	4.7				
		4.7.3.1			
	4	4.7.3.2			
	4.7		•		
		4.7.4.1	*		
		4.7.4.2 4.7.4.3			
=					
5.			-		
-	5.1	FUNCT	IONAL REQUIREMENTS		
VEF	RSION:	18.0 - 201	8-02-16	iii/∨	© COPYRIGHT EUROPEAN SPACE AGENCY 2018

5.1.	1 Data	1 Types	
5	.1.1.1	General	
5	.1.1.2	Packet	
5	.1.1.3	Parameter	
5	.1.1.4	Report	
5	.1.1.5	Archived File	
5	.1.1.6	Acknowledgement	
5	.1.1.7	MCS Synchronisation	
5.1.	2 For	natting	
	.1.2.1	General	
	.1.2.2	Binary	
	.1.2.3	XFDU	
	.1.2.4	XML	
	.1.2.5	Spreadsheet	
	.1.2.6	ASCII	
	.1.2.7	RAWSOURCEBINARY	
5.1.		very Mechanism	
	.1.3.1	Client	
	.1.3.2	File Server & EDDS Server	
	.1.3.3	RDM	
-	.1.3.4	Display	
	.1.3.5	Stream	
	.1.3.6	Email	
5.1.4		rices	
	.1.4.1	General	
	.1.4.2	Stream Services	
	.1.4.3	Batch Services	
	.1.4.4	Request Management Services	
	.1.4.5 .1.4.6	Status Monitoring Services	
5.2 5.2		Account Management Services RMANCE AND BUDGET REQUIREMENTS	
5.2 5.3		FACE REQUIREMENTS	
5.5 5.4		ACE REQUIREMENTS	
5.4 5.5		RCES REQUIREMENTS	
5.5.		puter Hardware Requirements	
5.5.		iputer Hardware Resources Utilisation	
5.5.	2 Con	puter Natuware Resources Offisation	105
5.6		OPMENT CONSTRAINTS	
5.7		ITY AND PRIVACY REQUIREMENTS	
5.8		BILITY REQUIREMENTS	
5.9		ARE QUALITY REQUIREMENTS	
5.10		ARE RELIABILITY REQUIREMENTS	
5.11		ARE MAINTAINABILITY REQUIREMENTS	
5.12		Y REQUIREMENTS	
5.13		VARE CONFIGURATION AND DELIVERY REQUIREMENTS	
5.14		NNEL-RELATED REQUIREMENTS	
5.15		DEFINITION AND DATABASE REQUIREMENTS	
5.16		PECIFICATIONS	
5.18		& REUSABILITY REQUIREMENTS	
5.19		FACE MANAGEMENT REQUIREMENTS	
5.20		VABILITY REQUIREMENTS	
5.21	OTHER	REQUIREMENTS	
VE	RIFICA	TION, VALIDATION, AND ACCEPTANCE REQUIREMENTS	
6.1	VALID	ATION APPROACH AND REQUIREMENTS	117
6.2		TANCE REQUIREMENT	
0.4	ACCEP		

6.

# **TABLE OF TABLES**

TABLE 1 - DATA TYPE FORMATTING OVERVIEW	12
TABLE 2 - FORMATS SUPPORTED BY DELIVERY MECHANISMS	13
TABLE 3 - NETWORK AND SECURITY DOMAIN OVERVIEW	16
TABLE 4 - DELIVERY PROTOCOLS	19
TABLE 5 - DATA TYPE PERFORMANCE	

# **TABLE OF FIGURES**

FIGURE 1 - DATA FLOW LOGICAL VIEW OF EDDS	18
Figure 2 - General Use Case	20
FIGURE 3 - BATCH SERVICES USE CASE	22
FIGURE 4 - STREAM SERVICES USE CASE	
FIGURE 5 - ACCOUNT MANAGEMENT USE CASE	

## 1. Introduction

This document specifies the software requirements identified for the EGOS Data Dissemination System (EDDS).

# 2. Applicable and reference documents

# 2.1 Applicable documents

Ref.	Document Title	Issue and Revision, Date
[AD-18]	ESOC SuSE Linux Enterprise Server (SLES12) Baseline Definition [SLES12-064-ESOCL01]	Issue 0.0, TBR
[AD-39]	EDDS External User Interface Control Document (EUICD) [EGOS-MDW-EDDS-ICD-1001]	Version as part of this release
[AD-40]	Generic DDS – Interface Control Document RDM Image Transfer Control Files, GDDS-RDM ITCF ICD [EGOS- MCS-GDDS-ICD-1002]	Issue 1.1, 2004-08-30
[AD-41]	ESOC Generic Ground Systems (EGGS): Development Requirements Specification [EGGS-ESOC-GS-SRS-1001]	Issue 1.1.1, 2008-10-31

## 2.2 Reference documents

Ref.	Document Title	Issue and Revision, Date
[RD-1]	Producer-Archive Interface Specification	Draft White Book, December- 2005
[RD-2]	EGOS Data Dissemination System (EDDS) Concepts [EGOS-MCS-GDDS-TN-nnnn-i0r0]	0.0 Draft C, 2005-09-26
[RD-3]	SCOS-2000 TM Data Retrieval Services SRD [S2K-MCS- SRD-0004-TOS-GIC]	Issue 3.1, 2003-08-29
[RD-4]	Data Disposition System Software Requirements Document [EGOS-MCS-GDDS-SRD-5720]	Issue 1.4, 2004-08-30
[RD-5]	WEB-RM User & Software Requirements Baseline [ESA/TOS-GIC]	Issue 1.4, 2003-11-24
[RD-6]	MUST Repository ICD [No reference] RID523	Draft 1.0 (No Date)
[RD-7]	MUST Rosetta Performance TN [No reference] RID319	Issue 1.1 (No Date)
[RD-8]	MUST Server Software Requirements Specification [No reference]^{RID319}	Issue 1.0, 2006-07-04
[RD-9]	XML Formatted Data Unit (XFDU) Structure and Construction Rules RID255	WHITE BOOK, 2006-05-15
[RD-10]	EGOS High Level Architectural Design Document [EGOS-GEN-GEN-SAD-1001-i0r0] <sup>RID494 RID529</sup>	0.0DraftC, 2005-05-15
[RD-11]	TDRS External Interfaces Control Document [S2K-MCS-ICD-0017-TOS-GIC]	Issue 4.3, 2004-03-31
[RD-12]	Generic Data Delivery Interface Document (GDDID) [EGOS-MCS-GDDS-ICD-1003]	Issue 1.2, 2004-08-30
[RD-13]	CCSDS Definition Cross Support Reference Model – Part 1, Space Link Extension Services [910.4-B-1]	Issue 1, May-1996

[RD-14]	ESACERT information including Security Plan template and guidelines:	N/A
	http://forum.esacert.esa.int/guidelines.html	
[RD-15]	Implementation of the ESA Network Security Policy for OPSNET [DOPS-COM-POL-34555-OPS-ECT]	Issue 2 Revision 3, 2007-11-09
[RD-16]	EGOS ICD Raw Data Media Production System [EGOS-GEN-EDDS-ICD-1001]	Issue 1, 2007-04-13
[RD-17]	EDDS SDD [EGOS-MDW-EDDS-SDD-1001]	Issue 1, 2007-04-13
[RD-18]	Analysis of Web Services and PARC, Enhancements to support EDDS [EGOS-MDW-TN-1002]	Issue 1, 2007-04-13
[RD-19]	Analysis of TDRS, WEBRM, GDDS and MUST for suitability of reuse in implementing EDDS [EGOS-MDW-TN-1001]	Issue 1, 2006-02-22
[RD-20]	SCOS-2000 SMF SRS [EGOS-MCS-S2K-SRS-1001]	Issue 1 Revision 3 2008-11-07
[RD-21]	MONITORING & CONTROL SCOS-2000 - SFM SERVICE ICD [EGOS-MCS-S2K-ICD-1004]	Issue 6 2008-11-07
[RD-22]	SYSTEM MANAGEMENT SCOS-2000 - SFM SERVICE ICD [EGOS-MCS-S2K-ICD-1005]	lssue 5 2008-11-07
[RD-23]	XML FORMATTED DATA UNIT (XFDU) STRUCTURE AND CONSTRUCTION RULES - Blue book [CCSDS 661.0-B-1]	September 2008
[RD-24]	DARC ICD [EGOS-GEN-DARC-ICD-1001]	Issue 1.1 2009-01-08
[RD-25]	Software Design Document DARC [EGOS-GEN-DARC-SDD-0040]	Issue 1.0 2009-01-09
[RD-26]	EGOS USER DESKTOP ICD [EGOS-MDW-UDK-ICD-0001]	Issue 2.2 2008-11-25
[RD-27]	EGOS USER DESKTOP SDD [EGOS-MDW-UDK-SDD-0001]	Issue 2.1 2008-07-28
[RD-28]	Session Manager ICD [EGOS-MDW-LLC-ICD-1005]	Issue 1.3a 2008-12-12
[RD-29]	Session Manager SDD [EGOS-MDW-COR-SDD-1005]	Issue 1.3a 2008-12-12

# 3. Terms, definitions and abbreviated terms

# 3.1 Acronyms

Acronyms	Description
AND	Alpha-Numeric Display
APID	Application Identifier
ASCII	American Standard Code for Information Interchange
CCSDS	Consultative Committee for Space data Systems
CPU	Central Processing Unit
CORBA	Common Object Request Broker Architecture
DARC	Parameter Archive
DBMS	Database Management System
DDID	Data Delivery Interface Document
DMZ	Demilitarized Zone
DVD	Digital Video Disc (Digital Versatile Disc)
EDDS	EGOS Data Dissemination System
EGOS	ESA Ground Operations System
ESA	European Space Agency
ESOC	European Space Operations Centre
EUD	EGOS User Desktop
EV	Event
FARC	File Archive
FTP	File Transfer Protocol
GDDID	Generic Data Delivery Interface Document
GDDS	Generic Data Disposition System
GEOS	Generic ESOC Operational Systems
GRD	Graphic Display
GNU	GNU's Not Unix
GZIP	GNU Zip
HCI	Human-Computer Interaction
HP	Hewlett-Packard
HTML	Hypertext Mark-up Language
HTTP	Hypertext Transfer Protocol
HTTPS	HTTP over Secure socket layer
ICD	Interface Control Document
JDBC	Java Database Connectivity
JRE	Java Runtime Environment
LAN	Local Area Network
LDAP	Lightweight Directory Access Protocol
MAS	Mission Automation System
MCS	Mission Control System
MTA	Mail Transfer Agent
MUST	Mission Utility & Support Tool
MVDA	Mission Visual Data Analysis
MMI	Man Machine Interface
OBEV	On-board Event
OBQ	On-board Queue
OBQM	On-board Queue Model
VERSION: 18.0 - 2018-0	

OBSM	On-board Software Maintenance
OBT	On-board Time
OOL	Out Of Limit
PARC	Packet Archive
PC	Personal Computer
PDS	Packet Distribution Server
PI	Principle Investigator
QMS	Quality Management System
RAM	Random Access Memory
RAR	Roshal Archive
RCP	Rich Client Platform
RDM	Raw Data Media
RPM	Revolutions Per Minute
SCD	Scrolling Display
SCET	Spacecraft Event Time
SFDU	Standard Formatted Data Unit
SIP	Submission Information Packages
SLE	Space Link Extension
SLES	Space Link Extension Services
SMF	Service Management Framework
SMTP	Simple Mail Transfer Protocol
SMTPs	Simple Mail Transfer Protocol Secure
SSC	Source Sequence Count
SOAP	Simple Object Access Protocol
SPID	SCOS-2000 Packet ID
SUM	Software User Manual
SWRR	Software Requirements Review
TBD	To Be Decided
TBW	To Be Written
TC	Telecommand
TDRS	Telemetry Data Retrieval System
ТМ	Telemetry
TMPH	Telemetry Packet History Display
TPF	Task Parameter File
TQD	Telemetry Query display
TT&C	Telemetry, Tracking and Command
VPN	Virtual Private Network
WebRM	Web Remote Monitoring
WSDL	Web Services Description Language
XFDU	XML Formatted Data Unit
XHTML	Extensible Hypertext Mark-up Language
XML	Extensible Mark-up Language
XSL	Extensible Stylesheet Language
XSLT	XSL Transformations

## 3.2 Definition of Terms

Terms	Description
Multi-Mission	A mission within this document refers to a set of domains, grouped within their given context. Each mission may have a number of potential contexts (e.g. scenarios such as live operation testing, training) which may contain groups of domains. All processes and data within a mission are exclusive to that mission. The term multi-mission implies the ability to distinguish between missions and support, from the user's perspective, a consistent set of services across missions.
Domain	Each domain is an instance of an MCS or data archive and is independent of all other domains.
Role	Abstraction of users into functional categories.
Session	A user session, started by a valid login and assignment of a role to the user and ending with the logout of the user.
Service	Within this document a service refers to a particular function provided by the EDDS.

# 3.3 Requirement terms

Abbreviation	Description
Source	Reference to a source that formed basis for requirement (SWRR – first software requirements review; SWRR2 – second software requirements review)
Need	E – Essential.
	D1 - Non-essential, but highly desirable.
	D2 - Non-essential, but desirable.
	D3 - Non-essential, but nice to have.
Priority	1 – Highest priority.
	2 – Medium priority.
	3 – Lowest priority.
Stability	S – Stable
	N - Non-Stable
Туре	FU – Functionality
	US – Usability
	EF – Efficiency
	MA – Maintainability
	PO – Portability
	RE – Reliability
Verif. (Verification)	T – Test
	I – Inspection
	A – Automated Inspection
Version	The version identifies the document version in which the requirement has been changed. This shall be updated every time a change is performed in a concrete requirement.

## 4. General Description

#### 4.1 Relationship to Current Projects

The EGOS Data Dissemination is a high level component built on top of the EGOS framework and provides controlled exposure of data dissemination services to external users.

TM Parameter data is one data type that the EDDS is required to support.<sup>RID280</sup>. Currently ESA Mission Control Systems generate parameter data on the fly as required from associated packets, but to meet EDDS performance criteria with such data a dedicated parameter archive (DARC) has been developed (check [RD-25] and [RD-26]). Also within the EGOS framework a new packet archive low level component has been finalized (PARC).

All requirements from the EGGS Development Requirements Specification [AD-41] are applicable to the EDDS. Any allowed non-compliancy or de-scoped requirement is specifically listed in section 5.20.

#### 4.2 Relationship to Predecessor and Successor Projects

The requirements for the EDDS are based on three current Ground Segment Infrastructure subsystems that provide access to data stored in SCOS-2000 MCS systems to users that may be local or remote to ESOC. The three subsystems are:

- Telemetry Data Retrieval System (TDRS)
- Web Remote Monitoring (WebRM)
- Generic Data Disposition System (GDDS)

TDRS is only applicable to telemetry data, providing a data retrieval interface to extract TM parameter values from the SCOS-2000 history file archive and present the result as files in MVDA or spreadsheet format. The parameters are extracted from fixed length TM packets. TDRS is available to authorised users on both the ESOC Intranet and the public Internet. The user interfaces TDRS via a standard Web browser and e-mails. Handling of the user and Web interface is separated from the actual retrieval to allow distribution of the responsibilities for security and performance reasons.

The WebRM system is designed to enable remote monitoring of satellite data without physical access to the MCS - a network connection (Intranet or public Internet) is sufficient. Though the WebRM client only supports monitoring, the CORBA based external interfaces also allow injection of data. The WebRM system consists of two major parts:

1. The External Interface injection and provision services (servers). The current implementation of the External Interface injection and provision services is designed for interoperability with the SCOS-2000 MCS. The injection servers allow the sending of data to the SCOS-2000 kernel, the provision servers collect monitoring data from the SCOS-2000 kernel and distribute them to all active clients.

2. The WebRM client is an application that visualises monitoring data using a set of displays that have the same look and feel as those found on SCOS-2000 systems. It may run on any platform that supports Java 2 (JRE 1.4).

The Generic DDS provides both a web server and FTP server front end to service user requests and return responses to those requests. Both servers allow the multiplexing of requests from multiple users. A CORBA / FTP interface to an MCS archive system is implemented to allow data to be retrieved from the MCS archive. The data retrieved from the MCS can be categorised into one of three types: Continuous (e.g. packet based telemetry), File (e.g. Flight Dynamic event files), or Catalogues (e.g. list of all available files, or packets for a given APID).

The subsystems outlined do not perform any analysis of the data provided to the user but simply provide different views of data stored in the MCS. However a fourth prototype subsystem has also been identified as providing input for EDDS requirements - MUST.

MUST is a server/client architecture that provides tools to analyse TM parameter data. The server is responsible for maintaining a parameter archive that is built via scheduled historic packet requests from the MCS. Client applications are provided that allow the end user to analyse the parameter data stored on the server. Although the purpose of the EDDS is not to provide analytical tools there is a need to provide a similar TM parameter based interface so that it would be possible to support MUST like clients.

## 4.3 Function and Purpose

The primary purpose of the EDDS is to provide controlled access to science and non-science<sup>RID492</sup> MCS data to users who do not have access to the MCS monitoring and control facilities. The users can be generalised into two categories:

- Users who require remote monitoring facilities
- Users who perform analysis of spacecraft data

The EDDS services provide the ability to remotely monitor a spacecraft (via stream based services) and to provide archived data or generated reports and statistics (via file based services). Indeed binary packet data is often used by ESA mission customers (e.g. Principle Investigators and scientists) to populate local archives<sup>RID281</sup>.

It is not the function of the EDDS to provide analytic tools for MCS data, but rather to provide MCS data in a format that facilitates the analysis process. In this respect it is a goal to provide a system that can support a number of data formats and allows scope for new formats to be added, or indeed obsolete formats to be removed.

The EDDS is intended to be capable of working in a multi-mission environment and hence provides facilities to support autonomous mission domains. In this respect the structure of the user accounts and access privileges enable mission and domain specific grouping to be applied to users while maintaining a single entry point for user authentication. Additionally all data request mechanisms provide support to distinguish between mission domains.<sup>RID445</sup>

Apart from the main source of data (MCS) EDDS shall be generic and flexible enough to allow any data archive to use its service and distribute any type of data to its users.

### 4.3.1 Data Types

This section outlines the data types currently considered that EDDS provides from the users' prospective. The following table shows an overview of the data types and delivery mechanisms provided by the EDDS. When new data types are to be added the delivery mechanisms need to be clearly specified.

Format Request Type		EDDS Binary	Binary	XFDU	XML (XML Transform)	ASCII	Others
Packet	ТМ	∕*		~			GDDS_BINARY*, SFDU
	TM (PARC Raw)		√*		√*		
	TM Report		√*		√*	√*	
	TM Statistics				✓		
	TC	∕*		~			GDDS_BINARY*, SFDU
	TC (PARC Raw)		√*		√*		
	TC Report		√*		√*	√*	
	TC Statistics				~		
	EV	√*		~			
	EV (PARC Raw)		√*		√*		
	Event Record Report		√*		√*	√*	
	EV Statistics				$\checkmark$		
	OOL Record		√*		√*	√*	
Parameter	ТМ		√*	~	√*		TDRS
	TM from SMON		√*	~	√*		TDRS
	Statistics				√*	√*	
	Preview				√*	√*	
	Definition		√*		√*		
Report	EddsUsage				✓		
Archived Files	File (and File Subscription)		~	~			
	Catalogue				√	√	
File	File Catalogue				~	√	
System	Folder Catalogue				~	✓	
	File (and Subscription)		✓				

The formats marked with \* support splitting the response files into smaller chunks (and also support suspend and resume).

#### 4.3.1.1 Packet

Packet data provided by the EDDS consists of telemetry (TM), telecommand (TC) and MCS<sup>RID293</sup> event (EV) packets. The packets contain binary data as processed by the MCS in Network endian order. In addition packet statistics data is available that provides statistical information about packets stored in the MCS (e.g. the number of packets that match a given criterion for a given time span). EDDS should be able to retrieve any Packet information as long as this is available on the PARC and the correspondent MCS.

#### 4.3.1.2 Parameter

The EDDS supports spacecraft TM parameter data. The parameter data is extracted from packets using the definition of the packet structure from the relevant spacecraft database. Parameter data is available from one of two sources:

- 1. A dedicated parameter archive (DARC)
- 2. On-the-fly generation (SMON)

The first source is populated as TM source packets are received by the MCS and is tailored to provide fast access to the parameter data stored. Due to the large number of TM parameters defined for a mission and their associated data, it is unlikely to be practical to store all parameters in a dedicated parameter archive. The mission will be able to configure which subset of parameters is stored in the dedicated parameter archive.

The second source requires packets to be retrieved from the MCS packet archive and processed to provide the parameter data. This gives slower access to the parameter data than a dedicated parameter archive but allows access to all parameter data.

A Parameter Statistics data type is available which provides statistical information about a group of parameter samples (e.g. average value, etc).

The Parameter Definition data type describes the definition of a parameter. This includes the name, description, sub-system and unit information of a parameter (see EUICD [AD-39] for further description).

#### 4.3.1.3 Report

This Data type covers both reports generated by the MCS and those generated by the EDDS. MCS reports can be classified into TM, TC, EV and other reports. The availability of such reports is dependent on those supported by the MCS. It is expected that TM reports will be similar to that currently provided by the SCOS-2000 TM Packet History Display (TMPH) with both full and brief modes being available.<sup>RID429</sup> TC Reports provide a format similar to the current SCOS-2000 Command History, full and brief modes. The current SCOS-2000 release 5 allows the following reports that will be available:

- TM Packet Report
- TM Gap Report
- TM Parameter Report
- TC Packet Report
- Files
- OBEV Data Report
- OOL Data Report
- OBQ Data Report
- Event Record Report
- Command Record Report
- OBSM Report

EDDS reports are generated by the EDDS on user request. They are:

- status reports
- request summary reports
- system log reports
- EDDS usage reports

XML is used as the mechanism that allows the EDDS to provide support for any report type. Reports to be supported by the EDDS will be in XML format, with missions providing XSLT for transforming the reports into their final delivery format. This also allows missions to specialise reports with full EDDS support.

### 4.3.1.4 Archived Files

The Archived Files data type are files stored in the MCS file archive (FARC) including files received from Flight Dynamics, Mission Planning and TT&C stations. Additionally catalogue information is also available. The mission database shall also be retrieved from the FARC since without it any future request for e.g. TM, TC or EV data have little use.

In addition, EDDS supports retrieving data from a file system location, providing a catalogue of the available files and retrieval of the files through batch requests.

#### 4.3.1.5 Acknowledgment

Acknowledgment data is data generated by the EDDS and sent to the user on request. Acknowledgment data contains status information and can contain statistical summary data for requests made. A user can request that acknowledgment data be sent in the following cases:

- When a user's request for data is received by the EDDS.
- When a user's request for data is completed successfully.
- When a user's request for data cannot be completed successfully.

#### 4.3.2 Delivery Mechanism

The EDDS supports the following delivery mechanisms for the delivery of data to the end user **4.3.2.1** *File Server* 

Data types that support the 'File Server' delivery mechanism are delivered over SFTP from the EDDS web server. Direct delivery requires the end user to be running a SFTP server. The EDDS also provides a download service where the result data is stored on the EDDS server and can be downloaded via an SFTP based file transfer service.

#### 4.3.2.2 EDDS Server

Data types that support the EDDS Server delivery mechanism are stored on an EDDS server. A download service is available through the EDDS Client application or through the EDDS web site **4.3.2.3** Stream

Data types that support Stream delivery require the end user to run a stream client application that can be downloaded from the EDDS web site and installed on the user's machine. Stream delivery supports online and offline data, where in the context of the EDDS, offline is taken to refer to the retrieval of previously archived data and online is taken to refer to the routing of data as it is received on the relevant control system. In addition online data delivery supports two modes of operation: timely and complete. Timely mode ensures data is delivered within a specified time and will drop data if this criterion cannot be met. Complete mode ensures all data is delivered, although there may be considerable delay in the arrival of the complete data set.

### 4.3.3 Formatting

The format applied to data is dependent on the data type and delivery mechanism. The EUICD [AD-39] provides a description of each format for each data type. The following table defines the list of possible formats supported by the EDDS for each data type.

Request Type	Format	EDDS Binary	Binary	XFDU	XML (XML Transform)	ASCII	Others
Packet	ТМ	√*		~			GDDS_BINARY*, SFDU
	TM (PARC Raw)				√*		
	TM Report				√*	√*	
	TM Statistics				~		
	TC	√*		~			GDDS_BINARY*, SFDU
	TC (PARC Raw)				√*		
	TC Report				√*	√*	
	TC Statistics				~		
	EV	√*		~			
	EV (PARC Raw)				√*		
	Event Record Report				√*	√*	
	EV Statistics				~		
	OOL Record				√*	√*	
Parameter	ТМ		√*	~	√*		TDRS
	TM from SMON		√*	~	√*		TDRS
	Statistics				√*	√*	
	Preview				√*	√*	
	Definition		√*		√*		
Report	EddsUsage				~		
Archived Files	File (and File Subscription)		√	~			
	Catalogue				~	√	
Acknowledger	ment				✓		
<b>T</b> 11 4 <b>D</b> 4	tupo formatting our			1	1		I

Table 1 - Data type formatting overview

The formats marked with \* support splitting the response files into smaller chunks. The resulting files are still compliant with the format with appropriate header and tail in the files. To enable splitting, the configuration must be done by EDDS admin.

The following table defines the formats supported by each delivery mechanism.

Format	Binary	XFDU	XML	ASCII
Delivery				
File (Server/FTP)	$\checkmark$	$\checkmark$	✓	~
Stream	-	-	~	-
Email	-	-	√	-

Table 2 - Formats supported by delivery mechanisms

#### 4.3.3.1 Binary

Binary formatting implies that the data is as received from the MCS. All binary data returned to the end user will follow Network endian order. In the case of Packet data types a configurable EDDS header is appended to the start of each binary packet. Archived Files data types are as retrieved from the MCS file archive. TM Parameter data type supports a binary representation of the data requested.

#### 4.3.3.2 XFDU

XFDU ([RD-24]) format implies that the binary format is encapsulated into an XFDU format following the conventions in the EUICD [AD-39].

#### 4.3.3.3 XML

Data types that support this format are converted to an XML representation of the data received from the MCS. In general it is expected that such data types are likely to be received from the MCS in an XML format. XSL transformations (XSLT) are used to transform XML formatted data into suitable end representations for web display (e.g. XHTML). Missions will be able to specialise the XSLT.

#### 4.3.3.4 Spreadsheet

Spreadsheet format is an ASCII based columnar format that can be easily loaded into a spreadsheet. The format follows the specification given in TDRS External ICD.

#### 4.3.3.5 ASCII

Data types that support this format are converted to a pure ASCII text representation of the data received from the MCS. In general it is expected that such data types are likely to be received from the MCS in an ASCII format, or more commonly in an XML format. Missions will be able to provide XSLT to convert the XML data to an ASCII representation.

#### 4.3.4 Services

The EDDS provides a number of services to the user which can be categorised into two main areas:

- Data Services
- Management Services

Data Services provide the user with the means to request and receive MCS and other archive based data. Management services allow users to manage requests, monitor the status of requests and monitor the status of the EDDS itself.

Experience from previously deployed data distribution systems has shown that in addition to using GUI based HCIs for access to EDDS services, a high proportion of users will make use of automated means to make requests and receive data. It therefore seems appropriate that the EDDS utilises Web Services technology to provide programmatic interfaces for application to application communication across the public Internet. Web Services would potentially support both EDDS client applications and user client applications.

#### 4.3.4.1 Data Services

Data services are the main objective of the EDDS and can be seen as a set of services to provide data through a given delivery mechanism. The EDDS provides a request client, through the EDDS Client application, that allows users to create requests. The services provided by the EDDS also allow users to engineer their own request client and upload the resultant requests to the EDDS. Requests must follow the XML format given in the EUICD [AD-39].

In general the Data Request service can be split into two broad service types: Batch and Stream.

- Batch Batch based services include 'Client', 'File Server', 'EDDS Server', 'RDM' and 'Email' delivery mechanisms.
- Stream Stream services include Display and Stream delivery mechanisms.

Note: The EDDS supports the MUST client applications by providing data services that allow TM parameter definitions to be obtained through batch services and TM parameter data through stream and batch services.

### 4.3.4.1.1 Batch Services

Batch services are intended to allow users to make requests for MCS and other archives data and receive data sets that contain the data requested. In general a request lists the data types and allows the user to apply a set of filters for each data type. The result data is sent to the user via the delivery method chosen by the user.

A Batch service data request can be viewed as transient in the sense that the EDDS processes the request, builds the data set (by retrieving the data from the relevant archive) and then delivers the data set to the user. The request is then considered completed. It should be noted that batch requests can contain schedule information that asks for a request to be run at some future date and could indicate that the request is to be cyclically activated or activated when new information for a given request is available. The user may request acknowledgement data to be returned at a number of stages of the request which will also indicate if a request fails for any given reason.

## 4.3.4.1.2 Stream services

Stream services enable users to receive a continual flow of data which is terminated on closure of the stream. Stream services use stream delivery and display delivery mechanisms that require an end user to run a client application locally on their machine. The EDDS provides a client application that contains a Stream and Display Client. The EDDS client application can be downloaded from the EDDS web site. A Stream Client provides the basic functionality to support the streaming of MCS data based on the specification of the Offline and Online modes defined for the delivery of SLE return services (see CCSDS Cross Support Reference Model, Part 1, SLES [RD-15]). The Stream Client is a template application that can be specialised by the user.

A Display Client is based on the Stream Client and provides similar look-and-feel displays to those available to operations staff on an MCS.

The client application is used to initiate the stream service request. The client communicates with the EDDS server using the necessary protocol and, in a normal case, initiates the closure of the service. The stream may be forced to close by the EDDS server on request from an administrator or after an unrecoverable error has occurred.

Stream services to Non-ESA Networks domains (e.g. public Internet) are likely to exhibit a slower data rate than ESA controlled network domains.

Is it also possible to use Edds stream client service that takes an existing id of a TM stream request and saves stream data to files at regular time intervals.

Edds stream client service supports various output formats such as xml, binary, ascii and many others and can easily be extended to support new formats. For more information, refer to the CIG on how to use it.

### 4.3.4.2 Management Services

### 4.3.4.2.1 Request Management

The request management services allow a user to create a request and submit it for processing. A request may be stored in its XML format on the EDDS server and retrieved later for submission. A stored request may be edited creating a new request or overwriting the old request. Requests may be scheduled for submission and can be deleted from request gueues, or cancelled while active.

#### 4.3.4.2.2 Status Monitoring

The EDDS provides a monitoring service that allows access to the EDDS log files and EDDS status displays (e.g. request queue summary).

#### 4.3.4.2.3 Account Management

These services provide a group of related services that allow the management of user accounts. It allows suitably privileged users the ability to create (and delete) user account and group accounts; and assign roles, access privileges and quotas. The service also provides a means for users to update their own personal details (such as password, email address, postal address, etc).

## 4.4 Environmental Considerations

The EDDS provides controlled access to operational mission data. A strong driver for the EDDS is to provide this access to users within ESOC, other ESA sites and users external to ESA. This means that both trusted and non-trusted networks must be supported. In this regard the EDDS must provide support for four ESA security domains:

- ESA Restricted Networks
- ESA Internal Service Networks
- ESA External Service Networks
- Non-ESA Networks

Within these security domains there are a number of networks that must be considered within the scope of the services offered by the EDDS. The following is a brief description.

• OPSLAN:

The OPSLAN is the Ethernet-IP Local Area Network at ESOC used to exchange data between systems used for critical operational activities. The OPSLAN is an ESA Restricted Network and acts as the centre of the IP-OPSNET network, used to communicate with the ESTRACK Ground Stations. The OPSLAN is considered a secure and restricted network being implemented on dedicated independent LAN switches, separate from PRE-OPSLAN and OFFICE\_LAN. Switch and trunk redundancy is provided. Communication with external systems is denied by default. If required, the security devices connecting the OPSLAN to other security environments can be configured to permit data exchange with other computer networks (refer to RELAY LANS). It is the OPSLAN that holds the raw MCS data that is to be made accessible by the EDDS. Additionally, access is required to EDDS services by users on OPSLAN.

• OFFICE\_LAN:

The OFFICE\_LAN is the Ethernet-IP Local Area Network at ESOC for office automation and corporate applications. Computer systems connected to this network can communicate with similar corporate networks at other ESA sites via the so-called ESACOM. All ESA corporate networks are protected by corporate security systems (Firewalls) regulating data traffic from and to other non-ESA networks. The OFFICE\_LAN is within the ESA Internal Service Networks domain. Access is required to EDDS services by users on this LAN.

• PRE-OPSLAN:

The PRE-OPSLAN is the Ethernet-IP Local Area Network at ESOC used to develop, implement and validate systems that will ultimately be part of the OPSLAN environment. The PRE-OPSLAN is connected to the ESA Corporate network. The PRE-OPSLAN and the OFFICE\_LAN belong to the same security domain, namely the corporate network within the ESA Internal Service Networks domain. PRE-OPSLAN and OFFICE\_LAN are implemented using the same LAN switch hardware, often simply referred to as only DEV. The "separation" between PRE-OPSLAN and OFFICE\_LAN is logical by means of "Virtual" LANs (VLANs). Access is required to EDDS services by users on this LAN.

RELAY LAN (external DMZ, computers only):

The RELAY LANs are the Ethernet-IP Local Area Networks at ESOC used to exchange operational data with computers outside ESOC. Direct data exchange from/to computers located outside the OPSLAN to/from the computers connected to the OPSLAN is forbidden. Data must first be relaved to computer systems connected to the RELAY LAN. It is only after the required security checks are performed, that the data can be relayed to their final destination. The RELAY\_LANs are implemented on an independent switch fabric, different from the OPSLAN one. Security systems (Firewalls, same as for ACCESS LANs) are used to regulate the traffic to and from the RELAY LANs and any external or internal networks. RELAY LANs are within the ESA External Service Networks domain. Any provision of services to external ESA users would normally imply a server (or proxy server) on the RELAY LAN. Given the requirement to support external users it is therefore likely that EDDS services will be supported by servers (and/or proxy servers) on RELAY LANs. The RELAY LAN is providing exchange capabilities only between ESA and its partner organisations using well defined and determined systems for which the fixed addresses have to be provided. If a general access from the Internet is required, the Corporate IT Infrastructure (CITI) DMZs at ESOC should be used as designed and implemented for this purpose.eddsdswr#125

• ACCESS LANs (external DMZ, routers only):

The ACCESS LANs are the Ethernet-IP Local Area Network at ESOC used to host the communications devices (routers) implementing the Wide Area Network links connecting ESOC with the ESA operational partner organisations. No computer systems are connected to the ACCESS LANs. Security systems (Firewalls, same as for RELAY\_LANs) are used to control traffic to and from the ACCESS\_LANs. The ACCESS\_LANs are part of the ESA External Service Networks domain. No EDDS users will be operational on these LANs.

• SIMLAN (internal DMZ):

The SIMLAN is the Ethernet-IP Local Area Network at ESOC used to support the computer simulating ESTRACK and spacecrafts and is within the ESA Internal Service Networks domain. The SIMLAN is connected to the OFFICE\_LAN and PRE-OPSLAN networks via network security devices. Communication to and from the OPSLAN is only permitted across the same security systems. By default, traffic exchanges with computer systems connected to other networks is forbidden. There is no requirement for EDDS access from SIMLAN.

Access speed to the LANs is standardised at 100 Mbit/s, full duplex. Except for ACCESS\_LANs and RELAY\_LANs, the networks can provide 1 Gigabit/s access if required and justified.

With respect to EDDS, Non-ESA Networks implies the public Internet. Access is required to EDDS services by users on the public Internet. In addition mission specific PISA LANs are also provided to allow restricted in-house access to PIs during critical phases. These LANs can be classified to be ESA External service Networks and access for EDDS services is required from these dedicated LANs.

Security Domain	ESOC Networks	EDDS supported networks
ESA Restricted Networks	OPS_LAN	OPS_LAN
ESA Internal Service Networks	OFFICE_LAN	OFFICE_LAN
	PRE-OPSLAN	PRE-OPSLAN
	SIMLAN	-
ESA External Service Networks	RELAY_LAN	RELAY_LAN
	CITI DMZ	CITI DMZ
	PISA_LAN	PISA_LAN
	ACCESS_LAN	-
Non-ESA Networks	PUBLIC_INTERNET	PUBLIC_INTERNET

Table 3 - Network and Security Domain Overview

The very nature of supporting external users implies that there is no control over the machines that may be utilised, hence interfaces must be based on protocols that are machine independent and widely accepted. The adoption of such protocols is also beneficial within ESA as it provides some protection against obsolescence.

Multi-mission support also implies the need for machine independent interfaces to MCS systems.

## 4.5 Relation to Other Systems

The primary source of data provided to users by the EDDS is obtained from Mission Control Systems (MCS). Such data includes:

- packet based data (TM, TC and EV),
- parameter based data (TM RID535)
- statistical data about packets or parameters
- reports produced by the MCS
- archived files stored in the MCS file archive

• definition of available data

EDDS will support data from other data archives through a generic extension layer. These archives can then be dynamically added by EDDS Users.

The EDDS provides access to MCS data for analysis purposes. The main DDS user base is:

- Principle Investigators
   Users in the science community, who retrieve all raw data generated by their instruments to
   populate their own data archives.<sup>RID282</sup>
- Industry and other ESA sites Users who monitor aspects of the spacecraft, possibly only on request from ESA.
- Analysis and engineering staff Operations staff who have a requirement to do 'offline' analysis of spacecraft data.
  Science Operation Centres
  - Operation centres that provide science support for ESA prime mission.

## 4.6 General Constraints

From the logical model (See section 4.7) there are a number of EDDS services that require the use of server applications to provide standard protocol servers (i.e. web server, and email server). It is likely that any implementation of the EDDS will use standard off-the-self solutions. However it should be noted that there are strict security protocols in ESOC that will constrain any design implementation:

• Currently no MTA (mail server) is available on OPS\_LAN or RELAY\_LAN. It is expected that an outgoing service will be made available for RELAY\_LAN. RID542

• No compilers<sup>RID490</sup> can be installed on OPS\_LAN or RELAY\_LAN (This can constrain dynamic web page construction).

- Restricted protocols between ESOC security domains.
- Restricted traffic flow between ESOC security domains.
- Firewalls between all ESOC security domains (Hence data may have to travel across multiple firewalls).

It is likely that an architecture based on proxy servers will be required to support the EDDS functionality across ESOC security domains.

An implementation of the EDDS must run on the hardware available at ESOC. Currently Mission Control Systems are running on UNIX (Sun Solaris) or Linux (INTEL PC) platforms. Therefore the environment that the EDDS will operate in is biased towards these platforms. The EDDS server is intended to run on a Linux (INTEL PC) platform but must be able to interface with mission control systems that are running on either platform. To maximise EDDS portability the EDDS should be designed to use technologies that enable the EDDS to be as platform independent as possible.

## 4.7 Logical Model Description

The following diagram shows a data flow logical view of the EDDS.

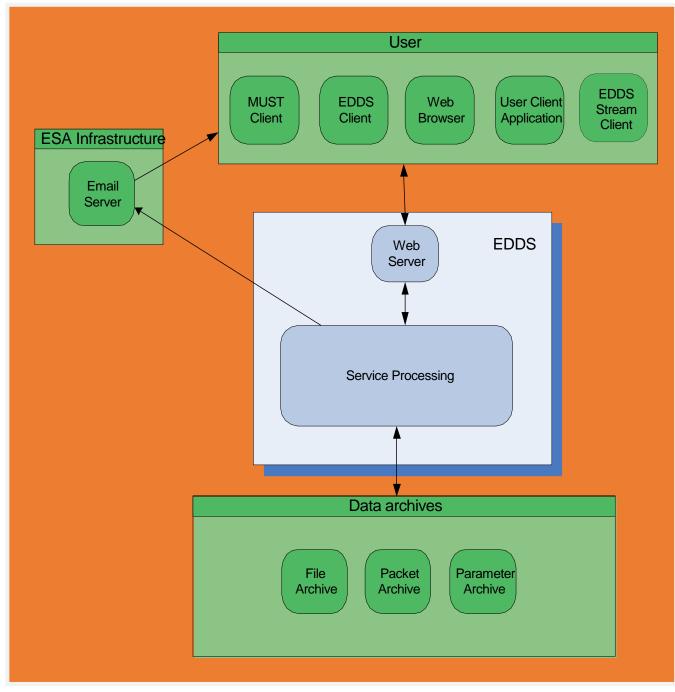


Figure 1 - Data Flow Logical View of EDDS

The EDDS server provides services for user's client applications<sup>RID297</sup>. The EDDS uses a web server as a main interface point for clients of the EDDS. The web server provides static content pages (for documentation etc), and allows users to download the EDDS client application. The EDDS client application provides a GUI interface that allows users to construct requests, view status information and perform configuration. Components of the EDDS Client also include a Display Client (for MCS like displays) and a Stream Client (a basic streaming application that can be specialised by users). The EDDS client communicates with the EDDS server through the web server. The service interface provided by the web server also allows other clients access to data services such as MUST clients or user created applications.

Data that supports email delivery is sent to the user via the email server.

At the present moment there are no E-mail services available in any of the Spacecraft Mission Operations and therefore this restriction shall be taken into consideration when defining EDDS design. E-Version: 18.0 - 2018-02-16 18/119 © COPYRIGHT EUROPEAN SPACE AGENCY 2018 mail services are available from the Corporate IT Infrastructure (CITI), e.g. when using a CITI DMZ.<sup>eddsdswr#126</sup>

The EDDS interfaces to Mission Control Systems which provides multi mission access to archived data and live streams. <sup>RID468</sup> In particular packet based data is retrieved from the packet archive and online packet services are provided via a feed from the packet processing facilities on the MCS. The MCS File archive is used as a source for Archived Files.

The parameter archive provides fast access to certain mission defined parameters. An independent parameter archive (DARC) is used for that purpose. This archive will therefore be the source for most parameter request information. Since the DARC will only contain a sub set of the parameters the PARC (via SMON) with the correct filters can be used to retrieve on the fly parameter requests. The on-the-fly functionality shall be used only when there is a concrete restrictions preventing the access to this data from the parameter archive directly.

To support the services provided by the EDDS to users, the following protocols have been identified.

Delivery	Protocols			
Stream	Bate	ch		
HTTPS SFTP/FTP SMTP/SMTPs				

Table 4 - Delivery Protocols

• SFTP is used to provide a secure way to perform the batch request data delivery for File Server and EDDS server deliveries.

- HTTPS has been identified for use by the EDDS because of the following properties:
  - Supports data security
  - International standard
  - Provides ability to cross firewalls
  - Supports a number of EDDS delivery mechanisms
  - Promotes use of server certificates, the use of which give the following benefits: RID547
    - o automatic revocation (withdrawal)
      - o time based certificates
      - o high level of security
      - o password protection of private certificate part
      - o strong cryptography in authentication

HTTPS can support the delivery of web content to browsers and also the delivery of data types that support web delivery. File uploads for user requests, and file downloading of response data can also be supported via HTTPS. Web services can be provided over HTTPS (e.g. using SOAP/WSDL) that support programmatic interfaces for application to application communication.

• SMTP/SMTPs is used to support email.

#### 4.7.1 General Use Case

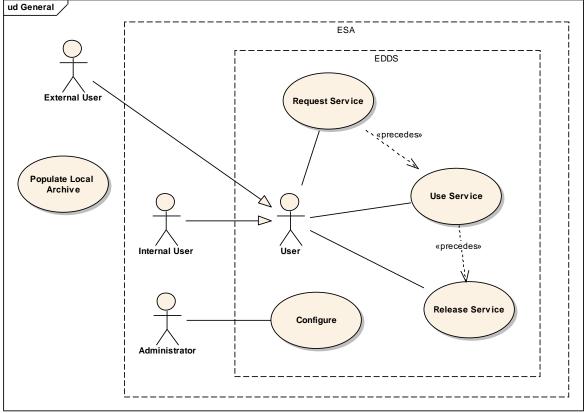


Figure 2 - General Use Case

#### 4.7.1.1 Description

The EDDS must service requests from ESA external and internal users. After authentication the user may request the use of a service. Validation is made that the user has the necessary privileges to access the service and the data provided by that service. If validation is passed, the user uses the service until they relinquish its use or until the EDDS terminates the service.

#### 4.7.1.2 Actors

Actors	Description
User	An EDDS user.
External User	A user on a Non-ESA Network or an ESA External Service Network .
Internal User	An ESA user on an ESA Internal Service Network or ESA Restricted Network
Administrator	A special EDDS user that has full configuration privileges.

#### 4.7.1.3 Use Cases

Use Case	Description			
Request Service	Receives a user's request for a service. Validates the request content; validates the fact that the user has the privilege to request the service and has the privilege to access the data being requested via the service. In addition relevant quotas are checked and the request is denied if any have been exceeded (e.g. maximum download limits, requests per limits, etc). The request may be generated within the EDDS client application or uploaded to the EDDS web server.			
Use Service	The user uses the service. This may involve receiving data in files or in a stream format. The EDDS may provide client applications for the service (e.g. displays ) or may simply deliver files to the user (e.g. as XHTML through a browser or across HTTPS/SFTP to the client hosted file server).			
	Services are also available that allow the user to schedule requests or monitor the status of requests.			
Release Service	This occurs when:			
	• The service completes (returning requested data if a batch service).			
	• The user asks to relinquish the service (i.e. cancel the service)			
	• The EDDS terminates the service (i.e. a problem has occurred). An indication of the problem is sent to the user.			
Configure	Configuration of the EDDS. This includes both online configuration (e.g. manipulation of the request queue, disabling/enabling of accounts) and offline configuration (e.g. installation of a new version of software). The EDDS should be designed in such a way that only exceptional circumstances require offline maintenance.			
Populate Local Archive <sup>RID281</sup>	The user populates a local archive with binary packet data received from the EDDS. ('Local' archive refers to the fact that the archive is local to the user and is remote from the EDDS).			

Each data type that can be returned via a service is given a unique dataObject ID. This ID is unique across all missions and, where appropriate for the data type, has a one-to-one correspondence to the dataObject ID used within any XFDU formatting. Therefore any data request, at minimum, must reference the dataObject ID and delivery mechanism. It should be noted that it is the EDDS that maps the data type and filter details chosen by the user to the required data object ID.

#### 4.7.2 Batch Service Use Case

The following Use Case Diagram shows the general view of EDDS Batch Service.

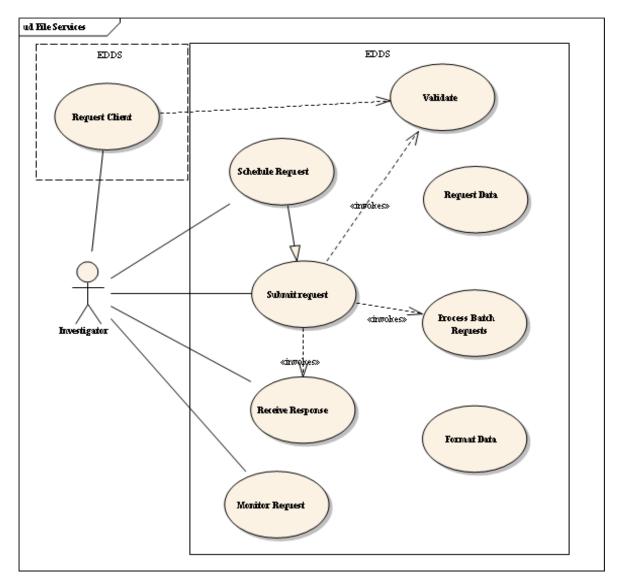


Figure 3 -	<b>Batch Services</b>	Use Case
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#### 4.7.2.1 Description

Batch services follow a traditional client-server pattern in the sense that users make a request (for one or more data types) which the EDDS processes, builds the response data set (by retrieving the data from the relevant Archive) and then delivers the response to the user. The request is then considered to have been completed.

#### 4.7.2.2 Actors

Actors	Description
User	User of the EDDS.

#### 4.7.2.3 Use Cases

Use Case		Description			
Request Client <sup>RID257</sup>	The underlying format used for EDDS requests is text based XML.				
		Users can engineer their own request client (e.g. in the simplest case a text editor) and create, or edit, locally stored request files (that follow the EDDS request specification) ready for upload to the EDDS for submission.			
	Alternatively the EDDS provides an online request client via the EDDS web server that users can				
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Use Case	Description
	access through their web browser. It provides a two layer interface; 'normal' user and 'power' user. The 'normal' user interface presents a straight forward form based HCI with some standard templates that lets users easily produce many common types of request. A 'power' interface provides a form based HCI that allows the user to construct requests to the full potential of the XML request specification. <sup>RID260</sup> The online request client allows requests to be stored on the EDDS server and retrieved for further updates. The updated request can be stored as a new request or overwrites the original request.
	The requests allow data attribute <sup>RID481</sup> based filtering to be applied to the data requested. The data attributes <sup>RID481</sup> supported by each data type are derived from the relevant MCS.
Submit Request	Allows the user to submit a request for processing. The request is validated and if valid the user can schedule the request for processing. A failure acknowledgement is returned to the user if the request fails validation.
	The user can submit the request for scheduling in which case the request is held on the EDDS schedule for one-shot <sup>RID259</sup> , cyclic or standing activation.
Schedule Request	Allows a request to be scheduled as a one-shot request, cyclically or standing. Any requests can be saved on the EDDS server (within configurable limits) and can be reloaded by the user and reedited before submission. <sup>RID256</sup>
Monitor Request	The user can monitor the status of requests on the active scheduled and non-scheduled queues. Status history for completed (non-active) requests can be viewed and the EDDS logs can be accessed.
	Users can remove (if the request has not yet started) or cancel any of their active requests from either the scheduled or non-scheduled queues.
Receive Response	The response to the user's request is sent via the delivery mechanism made in the request. Acknowledgement responses are also sent, as requested by the user.
Validate	Syntactic validation is forced by the EDDS web site request client when creating or editing a request online.
	Syntactic validation of requests uploaded by users is performed using an XML schema <sup>RID443</sup> .
	On submission of a request, a check is made that the user has the privilege for the service requested and access privilege to the data requested. Semantic checks are then made that might be mission specific (e.g. end date is after start date).
Request Data	A request is made to the relevant data archive for the data. Either the binary data from the respective archive is received or an error condition is received.
Process Batch Requests	Maintains queues of user requests on a per mission basis. The requests queues are persistent objects held on disc so that it is always possible to rebuild the request queues on start-up of the EDDS. The requests are dispatched using a prioritisation algorithm.
Format Data	Formats binary MCS data into the formats supported by the EDDS. These formats include XFDU, XML, Google Protocol Buffers (protobuf) binary and columnar (for spreadsheets).

#### 4.7.3 Stream Services Use case

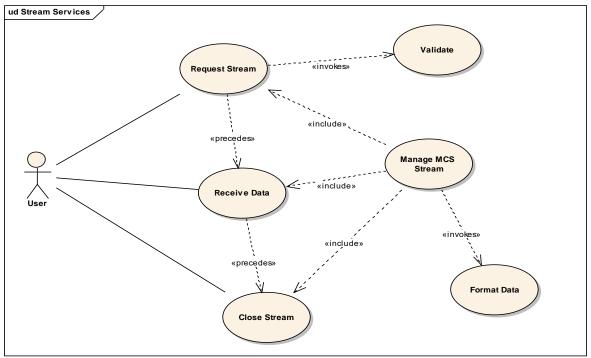


Figure 4 - Stream Services Use Case

#### 4.7.3.1 Description

Stream-based services are services that provide a stream of data to a receiving application. A user downloads a stream client application from the EDDS web server. On start up of the client user authentication takes place before the user is able to make requests for stream services. The EDDS validates that the user has the privilege to use the service requested and that the user has the access rights to the data type being requested by the client application. If validated successfully, a stream connection is made to an MCS and the stream remains open until either the application is closed or a forced closure of the stream is made by an EDDS Administrator or the MCS itself. The EDDS will provide a stream client that provides the basic functionality to use the stream services and can be extended by users. Additionally a display client will be provided, based on the stream client, that provides similar look-and-feel displays to those available to operations staff on an MCS.

#### Actors Description

User User of the EDDS.

#### 4.7.3.2 Use Cases

Use Case	Description
Request Stream	After successful authentication of the user a request is made for a stream service through the stream client. The EDDS provides a template Stream Client for user specialisation and a Display Client to provide MCS look-and-feel displays.
Receive Data	The EDDS provides streamed data as required by the receiving stream client application.
Close Stream	The stream client application indicates that the stream is no longer required and the stream is shut down. The stream can also be forced to close at the EDDS by an Administrator or by the MCS interface.
Manage MCS Stream	Opens, closes and connects the required stream interfaces to the requested EDDS user stream requests. Provides the facilities to monitor and control the streams.
Validate	A check is made that the user has the privilege for the requested stream service and has access to the data requested.
Format Data	The binary data from the MCS stream interface is formatted for the stream service requested, if required.

#### 4.7.4 Account Management Use Case

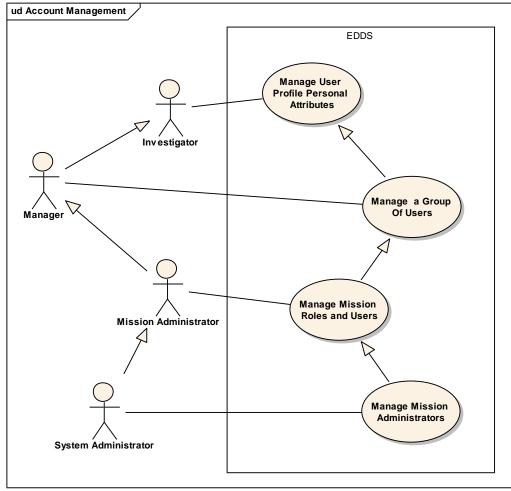


Figure 5 - Account Management Use Case

#### 4.7.4.1 Description

A problem identified in current systems is that of the overheads involved in the management of user's accounts by ESA support staff. The EDDS takes the following approach to address these issues. Users are assigned accounts and are associated to roles<sup>RID452</sup>. The EDDS provides a single entry point for a user into the EDDS domain (i.e. a single authentication route) where, after authentication, the user chooses the role that the submitted requests will work under. A 'Role' has a set of privileges that are applied to a user for each request; the operations they can perform, the data types they can access, the services they can use, the quotas and limits placed on them and the priority of requests they make within the session.

The EDDS is likely to have at least the following generic roles defined:

- System Administrator 'super user' with full EDDS access
- Mission Administrator A user who administers the roles and accounts for a given mission.

• Manager - A user who administers a group of users related to a single role (e.g. an ESA internal spacecraft flight control team or an external Principle Investigator institution).

• Investigator - A user of the EDDS who has controlled access to data, but has no need to perform administration on other users.

The Service Access List states the services that can be accessed and the Data Type Access List the data types that are accessible (the data object Id is used as the reference to the data types). A Quota Set lists the set of quotas that are to be applied. Access lists and quota sets are assigned to a role and each user session associated to that role is bound by them.

There are also attributes associated to a user that the user can update (e.g. postal address, email address). These attributes apply across all the roles of that user.

This approach allows support staff to have full control over who creates, and how many accounts are created (and thereby the total number of EDDS users and quotas) via the administrator roles. It delegates mission specific management to Mission Administrators within ESOC and removes the burden of the management of assigning additional users and quota slices by delegating this to Managers (e.g. Prime contacts for each Principle Investigator, Flight Control Teams and Industry Teams).

#### 4.7.4.2 Actors

Actors	Description		
System Administrator	'super user' with full EDDS access.		
Mission Administrator	A user who administers the roles and accounts for a specific mission.		
Manager	A user who administers a group of users related to a single role (e.g. an ESA internal spacecraft flight control team or an external Principle Investigator institution).		
Investigator	A user of the EDDS who has controlled access to data, but has no need to perform administration on other users.		

#### 4.7.4.3 Use Cases

Use Case	Description	
Manage Mission Administrators	Creating, deleting and updating mission administrators account profiles and roles.	
Manage Mission Roles and Users	Creating, deleting and updating mission specific roles and mission wide account profiles (such as Managers).	
Manage a Group of Users	The manager has a limited set of operations, configured by the Mission Administrator, that allows them to manage users grouped under a specific role (e.g. manage the default contact details for the role, create/delete/update user profiles associated to the role within the quota limits set for the role).	
Manage User Personal Attributes	Update personal attribute data in the user's account profile.	

## 5. Specific Requirements

The terms used in the following requirements tables are defined in section 3.3

#### 5.1 Functional Requirements

#### 5.1.1 Data Types

This section details the functional requirements that describe the data that the EDDS services process. The concept of a data type is used to define a unit of data that can have privilege rights associated to it and service applicability. That is to say each data type can be associated to one or more services (e.g. the TM Packet data type can be associated<sup>RID384</sup> to stream and batch based services), and each user can be granted access rights to specific examples of the data type (e.g. only allow a user access to specific TM packets with specific APIDs).

Data types support data attributes <sup>RID481</sup> that can be used to define data sets (e.g. All TM packets with APID n, from time t1 to time t2). The use of data attributes <sup>RID481</sup> allows the user to apply filters to a data type to create a data set.

As already mentioned EDDS shall support the dynamic addition of other data types not specifically mentioned here. For that the data archive needs to be defined along with all the interfaces and user policy

5.1.1.1 General

EDDS-SR-00	240	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
The EDDS will associate a unique request ID to each EDDS request that can be provided by EDDS services.							
Notes:							
System:	em: Subsystem: Priority: 1 Type: F Verification Method: Test						
Source:	[RD-5] SR 3.1.090						

EDDS-SR-002	250	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
The request ID	The request ID will be unique across all missions (i.e. a request ID indicates the data type, mission and domain).						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:							
EDDS-SR-002	260	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
DELETED							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		

Source:

EDDS-SR-00	270	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
The EDDS sh	all support, as	a minimum set, the following data typ	pes:		
• TM Packets.					
• TC Packets.					
TM Paramet	ers				
Parameter D	Definition				
• EV Packets	(MCS eventsF	RID293).			
Packet Statis	stics.				
Parameter S	Statistics				
Parameter P	Preview				
MCS Report	s.				
EDDS Repo	rts.				
<ul> <li>Archived File</li> </ul>	es.				
<ul> <li>Archived File</li> </ul>	es Catalogues.				
<ul> <li>Acknowledge</li> </ul>	ment Data.				
Notes:					
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test
Source: [RD-3] Section 3.3					
EDDS-SR-01	000	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4

EDDS-SR-01	000	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
Each data typ	Each data type shall have the following configurable attributes:						
<ul> <li>Formats sup</li> </ul>	Formats supported.						
Applicable s	ervices.						
<ul> <li>Filter types s</li> </ul>	supported.						
Notes:							
System:	Subsystem:         Priority: 1         Type: F         Verification Method: Test						
Source:	[RD-5] SR 3.1.080						

EDDS-SR-00290	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
The EDDS shall use data attributes RID481 as the basis for filter configuration for each data type. Negative filtering should also be allowed by EDDS to all data attributes.eddsdswr#132						
Notes:	Notes:					
System:         Priority: 1         Type: F         Verification Method: Test						
Source:						

EDDS-SR-00291	Delivery: Sprint 4 Post PA	Need: Mandatory	Stability: Stable	Last Issued in: 6			
EDDS shall allow the user to	EDDS shall allow the user to define the time range to be used for the data retrieval for the following types of requests:						
• TM Packets.							
TC Packets.							
TM Parameters							
• EV Packets							
<ul> <li>Packet Statistics.</li> </ul>							
<ul> <li>Parameter Statistics</li> </ul>	Parameter Statistics						
<ul> <li>Parameter Preview</li> </ul>	Parameter Preview						
The time range can be defined either as a start time plus duration or start and stop time.							
Notes:							
System:	Subsystem:	Priority: 1	Type: F Veri	fication Method: Test			

#### EGOS-GEN-EDDS-SRS-1001

Source:

EDDS-SR-00300	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS shall maintain s	The EDDS shall maintain separate lists of user data attribute RID481 names and MCS data attributeRID481 names.						
	This allows a decoupling of names used for data attributes RID481 used by the user interface and MCS interface, and will allow some continuity to be maintained in the user's view of the EDDS interface across missions.						
This will allow e.g. a User t	o define custom names for the data a	ttributes depending on the	mission.eddsdswr#86				
Notes:							
System:	Subsystem:	Priority: 1	Type: F V	erification Method: Test			
Source:							
	1		1				
EDDS-SR-00310	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall allow con	figuration of the mapping of user data	attributesRID481 names to	MCS data attributesRID	481 names.			
Notes:							
System:	Subsystem:	Priority: 1	y: 1 Type: F Verification Method: Test				
Source:	Source:						
			1				
EDDS-SR-08040	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
	S instance to be used by several miss red via the EDDS Client MMI.eddsds		or to access several data	a archives of the same type (multi-domain).			
Notes:							
System:	Subsystem:	Priority: 1	Type: F Verification Method: Test				
Source:							
			1				
EDDS-SR-08080	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4			
DELETED							
Notes:							
System:	Subsystem:	Priority: 1	Type: F V	erification Method: Test			
Source:							

5.1.1.2 Packet

EDDS-SR-00	320	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11	
The EDDS sh	EDDS shall support, at least, the following data attributes RID481 for the TM Packet data type:					
<ul> <li>Type (includ</li> </ul>	ing lists of requ	uired types).				
<ul> <li>Subtype (inc</li> </ul>	luding lists of ı	equired Subtypes).				
APID (includ	ling lists of req	uired APIDs). This shall include all fie	lds of the APID (e.g. PID a	and PCAT).eddsdswr#9	12	
• P1 (including	g lists of requir	ed P1s).				
• P2 (including	g lists of requir	ed P2s).				
<ul> <li>Virtual Chan</li> </ul>	nel (including	ists of required Virtual Channels). RI	D344			
• Domain (inc	luding list of do	omains).RID393				
<ul> <li>Time; one of</li> </ul>	f the following	criteria would be permitted per reques	st			
- On-Board Ti	me; any comb	ination of Earliest and Latest or Every	y 'n' seconds. RID314			
- Reception T	ime; any comb	ination of Earliest and Latest or Ever	y 'n' seconds.RID314			
<ul> <li>Delivery of e</li> </ul>	every time inter	val.eddsdswr#87				
<ul> <li>Delivery of e</li> </ul>	every Nth pack	et.				
• Maximum D	ata Volume Re	equired.				
<ul> <li>Quality Flag</li> </ul>	(DuType). RIE	0393				
Database Ve	ersion.					
<ul> <li>Ground stati</li> </ul>	on ID. RID393					
SPIDRID324	SPIDRID324 (including lists of required SPIDs)RID503					
SSC (source Sequence Count). RID324						
Spacecraft ID.						
Optionally include the raw body data (Packet TM Report)						
Notes:	Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	[RD-3] Section	on 3.3.1.1				

EDDS-SR-00	321	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2	
The EDDS shall support, at least, the following data attributes RID481 for the TM Packet data type: Data Stream (including lists of required Data Streams).						
Notes:	tes:					
System:	Subsystem:         Priority: 2         Type: F         Verification Method: Test					
Source:	[RD-3] Section 3.3.1.1					

EDDS-SR-00	322	<b>Delivery:</b> Sprint 4 Post PA delivery	Need: Mandatory	Stability: Stable	Last Issued in: 6	
EDDS shall populate the parameter filter with the parameter definition (parameter name) and allow the user to select the parameters from the populated list.						
Note: This avoids that the user have to type the parameter names manually.						
Notes:	Notes:					
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test	
Source:						

EDDS-SR-00	323	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11		
It shall be pos	It shall be possible to define a range for all TM packet data numerical packet filters (i.e. SPID, APID, Type, Subtype, PI1, PI2, Spacecraft ID).						
Notes:	Notes:						
System: Subsystem: Priority: 1 Type: F Verification Method:				fication Method: Test			
Source:	Product Backlog Item #165						

EDDS-SR-00324	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11		
The EDDS shall support, retrieval for TM packets from the PARC Manager and the Data Provision Services. For data from the Data Provision Services, it shall be possible to additionally fetch the parameter data.						
Notes:						
System: Subsystem: Priority: 1 Type: F Verification Method: Test						

Source: [RD-3] Section 3.3.1.1 EDDS-SR-00325 Delivery: Need: Mandatory Stability: Stable Last Issued in: 11 The EDDS shall support, retrieval for TC packets from the PARC Manager and the Data Provision Services. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test [RD-3] Section 3.3.1.1 Source: EDDS-SR-00326 Delivery: Need: Mandatory **Stability: Stable** Last Issued in: 11 The EDDS shall support, retrieval for EV packets from the PARC Manager and the Data Provision Services. Notes: Verification Method: Test System: Subsystem: Priority: 1 Type: F Source: [RD-3] Section 3.3.1.1 EDDS-SR-00327 **Delivery:** Need: Mandatory **Stability: Stable** Last Issued in: 11 The EDDS shall support, retrieval for OOL packets from the PARC Manager and the Data Provision Services. Notes: Subsystem: Verification Method: Test System: Priority: 1 Type: F Source: [RD-3] Section 3.3.1.1 EDDS-SR-00340 Delivery: Need: Mandatory Stability: Stable Last Issued in: 11 The EDDS shall support, at least, the following data attributes for the TC Packet data type: • Type (including lists of required types). · Subtype (including lists of required Subtypes). • PID (process identifier on board) • APID (including lists of required APIDs). Category VCID Description · Verification Status (including lists of required states). • Time; one of the following criteria would be permitted per request Release Time: Execution Time; • Uplink mode Ground station ID · Command Name (including the use of wildcards). · Sequence Name (including the use of wildcards). Command Source. RID393 Command Acknowledgement. RID393 Command Subsystem. RID393 Command Subschedule. RID393 Command Verification Stages. RID393 Status (Including list of require statuses). RID393 • Maximum Data Volume Required. • Domain (including list of domains). RID393 Database Version. • SPIDRID393 (including lists of required SPIDs)RID503 • SSC (source Sequence Count). RID393

- Transmission Count
- Mission specific customisations
- Optionally include the raw command body data (Packet TC Report)

Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	ource: [RD-3] Section 3.3.1.2 and Product Backlog Item #177								
EDDS-SR-00	S-SR-00341 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2								
The EDDS sh	nall support, at	least, the following data attributes R	ID481 for the TC Packet d	ata type: Data Stream	n (including lists of required Data Streams).				
Notes:									
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test				
Source:	[RD-3] Secti	on 3.3.1.2							
EDDS-SR-00	360	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9				
The EDDS sh	The EDDS shall support, at least, the following data attributes for the S2K EV Packet data type:								
Message									
Application I	d								
Category.									
• Time;									
Generation T	ime								
• Domain									
EventID									
Event type									
Event sourc	e								
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	[RD-3] Section	on 3.3.1.3 and Product Backlog Item	#225						
EDDS-SR-00	380	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4				
The EDDS sh	The EDDS shall support the same data attributes RID481 for the Packet statistics data type as for the associated packet type. (i.e. One can apply the same type of								

filters for a TM packet statistics request as for a standard TM packet batch request)								
Notes:	Notes:							
	System: Subsystem: Priority: 1 Type: F Verification Method: Test							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			

EDDS-SR-00	381	Delivery:	Need: Mandatory	Stability:	Last Issued in: 3			
The Packet s	The Packet statistics shall include as minimum the following data:							
• Nu	umber of Packe	et which satisfy the request criteria						
• Th	e time of the fi	rst packet which satisfies the request	criteria					
• Th	e time of the la	st packet which satisfies the request	criteria;					
• Es	timated data v	olume (in bytes)						
Notes:								
System:	stem: Subsystem: Priority: Type: F Verification Method: Test							
Source:								

EDDS-SR-00770	R-00770 Delivery: Need: Mandatory Stability: Stable		Last Issued in: 1					
The EDDS shall	The EDDS shall define a binary packet as the packet (as stored by the MCS) in network endian order, together with an EDDS defined header for each packet.							
Notes:								
System:	stem: Subsystem: Priority: 1 Type: F Verification Method: Test							
Source:								

EDDS-SR-00	780	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
he EDDS sha RID549	he EDDS shall be configurable, without code change, (at a mission level) to provide zero or more of the following data to populate an EDDS TM packet header: RID549								
Source Sequence	Source Sequence Count (Spacecraft generated packet sequence for APID).RID333								
• APID.									
• P1 value.									
• P2 value.									
Virtual chann	nel.								
On-board Til	me.								
Reception Ti	ime.								
<ul> <li>Validity.</li> </ul>									
• SPID.RID40	1								
• PID. RID401									
Ground State	ion ID. RID401								
Data Unit typ	be. RID401								
• Type.RID29	4								
Subtype. RI	D294								
Time Quality	Flag .RID294								
• Mnemonic .F	Mnemonic .RID294								
Notes:									
System:		Subsystem:	Priority: 1	Type: F Ve	ification Method: Test				
Source:	[RD-6] R-WE	B-0326							

EDDS-SR-00	DDS-SR-00781         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2				Last Issued in: 2				
The EDDS st RID549 ·	The EDDS shall be configurable, without code change, (at a mission level) to provide zero or more of the following data to populate an EDDS TM packet header: RID549 · Data Stream.								
Notes:									
System:	em: Subsystem: Priority: 2 Type: F Verification Method: Test								
Source:	[RD-6] R-WEB-0326								

EDDS-SR-00800	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS shall be configura RID549	able, without code change (at a miss	sion level) to provide zero o	or more of the following data	to populate an EDDS TC packet header:
• Type.				
Subtype.				
• APID.				
<ul> <li>Verification Status.</li> </ul>				
• Uplink Time.				
<ul> <li>Execution Time.</li> </ul>				
Command Name.				
Sequence Name.				
Subschedule.RID401				
Subsystem. RID401				

Notes:									
System: Subsystem: Priority: 1 Type: F		Verification Method: Test							
Source:	[RD-3] 3.3.1.	2							

EDDS-SR-00	820	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1			
	The EDDS shall be configurable, without code change, (at a mission level) to provide zero or more of the following data to populate an EDDS EV packet neader:RID549								
Event Type.	Event Type.								
Event Id.									
Description.	RID334								
• View Level.									
Source. RIE	0401								
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verif	ication Method: Test			
Source:	SWRR								
EDDS-SR-05	EDDS-SR-05000         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1								
The EDDS sh	nall allow an op	otion to filter duplicate packets from th	ne same retrieval (where re	trievals are based on	either	reception or generation time). RID288			
Notos:									

Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	SWRR								

EDDS-SR-07	690	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
At a mission I	At a mission level the EDDS shall provide a mechanism to configure which of the following packet properties are used to define a duplicate packet: RID550								
APID and S	APID and SSC								
APID and S	CET								
APID and O	BT								
Notes:									
System:	n: Subsystem: Priority: 1 Type: F Verification Method: Test								
Source:	SWRR2								

EDDS-SR-08090 Delivery: Need: Mandatory		Need: Mandatory	Stability: Stable	Last Issued in: 2					
EDDS shall a	EDDS shall allow the User to select multiple filters in order to detect duplicate packets arriving on different datastreams.eddsdswr#93								
Notes:									
System:	1: Subsystem: Priority: 2 Type: F Verification Method: Test								
Source:									

EDDS-SR-08	091	Delivery: Sprint 5	Need: Mandatory	Stability: Stable	Last Issued in: 6
		data retrieval exactly as stored in th upport shall be provided by adding a			all clearly distinguish each packet (i.e. one
Notes:					
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test
Source:					

EDDS-SR-08	8092	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11
		o specify the dataspace to be used fo esn't support this feature is being use		C. This feature shall be co	nfigurable so that it can be disabled when a
Notes:	The new field	d is optional and if nothing is specified	d the default/configured on	e shall be used.	
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test
Source:	edds#369				

EDDS-SR-08093	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 18
EDDS shall allow the user to	specify the dataspace to be used for	or each request to the DAT	A PROVISION SERVICE.	

Notes:	The new field	d is optional and if nothing is specified	d the default/configured on	e shall be used.	
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					

## 5.1.1.3 Parameter

EDDS-SR-00390		Delivery: 1.3.0	Need: Mandatory	Stability: Stable		Last Issued in: 10	
The EDDS shall s the end user.	support, at le	east, the following data attrib	outes for the TM Parameter data	type. The attributes are	used to	o filter the samples that will be retu	urned to
Response file cor	ntent:						
Parameter Nam	e (including	lists of required names).					
Parameter Valid	ity Status.						
Time;							
On-board Time;	(one or mor	e disjoint time periods that w	vill be applied to all parameters).				
Storage time on	parameter a	archive.					
Parameter Value	e (both raw	and engineering values);					
Parameter Type	(both raw a	and engineering types);					
Parent packet g	eneration tir	me and ID;					
Filter only:							
Delivery of every	/ Nth sampl	le.					
Sampled every	X seconds.						
<ul> <li>Maximum Data</li> </ul>	Volume.						
<ul> <li>Threshold value</li> </ul>	s (Apply a r	min and/or max value).					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test	
System:	D-3] Section	Subsystem: n 3.3.2.1 and Product Backlo		Type: F	Verifi	cation Method: Test	
System: Source: [R	-	•		Type: F       Stability: Stable	Verifi	cation Method: Test Last Issued in: 8	
System: Source: [R EDDS-SR-00391		n 3.3.2.1 and Product Backle Delivery: EDDS 1.1	og Item #223	Stability: Stable		Last Issued in: 8	
System: Source: [R EDDS-SR-00391 EDDS shall supp		n 3.3.2.1 and Product Backle Delivery: EDDS 1.1	og Item #223 Need: Mandatory	Stability: Stable		Last Issued in: 8	
System: Source: [R EDDS-SR-00391 EDDS shall supp Notes:		n 3.3.2.1 and Product Backle Delivery: EDDS 1.1	og Item #223 Need: Mandatory	Stability: Stable	lest (wh	Last Issued in: 8	
System: Source: [R EDDS-SR-00391 EDDS shall supp Notes: System:	ort the same	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM param	Need: Mandatory eter data streaming as for the Ti	Stability: Stable	lest (wh	Last Issued in: 8 en applicable).	
System: Source: [R EDDS-SR-00391 EDDS shall supp Notes: System:	ort the same	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM param Subsystem:	Need: Mandatory eter data streaming as for the Ti	Stability: Stable	lest (wh	Last Issued in: 8 en applicable).	
System: Source: [R EDDS-SR-00391 EDDS shall supp Notes: System: Source: Pr	ort the same	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM param Subsystem:	Need: Mandatory eter data streaming as for the Ti	Stability: Stable	lest (wh	Last Issued in: 8 en applicable).	
System: Source: [R EDDS-SR-00391 EDDS shall suppr Notes: System: Source: Pr EDDS-SR-00392	ort the same	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM parame Subsystem: log User story#113 Delivery: EDDS 1.1	Need: Mandatory eter data streaming as for the Tr Priority: 2	Stability: Stable       M parameter batch requ       Type: F       Stability: Stable	est (who	Last Issued in: 8 en applicable). cation Method: Test	
System: Source: [R EDDS-SR-00391 EDDS shall suppr Notes: System: Source: Pr EDDS-SR-00392 EDDS shall allow	ort the same	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM parame Subsystem: log User story#113 Delivery: EDDS 1.1	Need: Mandatory eter data streaming as for the Ti Priority: 2 Need: Mandatory	Stability: Stable       M parameter batch requ       Type: F       Stability: Stable	est (who	Last Issued in: 8 en applicable). cation Method: Test	
System: Source: [R EDDS-SR-00391 EDDS shall suppr Notes: System: Source: Pr EDDS-SR-00392 EDDS shall allow Notes:	ort the same	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM parame Subsystem: log User story#113 Delivery: EDDS 1.1	Need: Mandatory eter data streaming as for the Ti Priority: 2 Need: Mandatory	Stability: Stable       M parameter batch requ       Type: F       Stability: Stable	vest (who Verific	Last Issued in: 8 en applicable). cation Method: Test	
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System: Source: [R EDDS-SR-00391 EDDS shall suppr Notes: System: Source: Pr EDDS-SR-00392 EDDS shall allow Notes: System: Source: Pr EDDS-SR-00393 EDDS shall allow	ort the same oduct backl the use of t oduct backl the user to	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM param Subsystem: log User story#113 Delivery: EDDS 1.1 wildcards in the selection of 1 Subsystem: og User story#147 Delivery: specify the dataspace to be	Need: Mandatory         eter data streaming as for the TI         Priority: 2         Need: Mandatory         the parameters to be included in         Priority: 2         Need: Mandatory         the parameters to be included in         Priority: 2         Need: Mandatory	Stability: Stable         M parameter batch requination         Type: F         Stability: Stable         a TM parameter request         Type: F         Stability: Stable         a trype: F	vest (who Verific	Last Issued in: 8 en applicable). cation Method: Test Last Issued in: 8 cation Method: Test	
System: Source: [R EDDS-SR-00391 EDDS shall suppr Notes: System: Source: Pr EDDS-SR-00392 EDDS shall allow Notes: System: Source: Pr EDDS-SR-00393 EDDS shall allow	ort the same oduct backl the use of t oduct backl the user to	n 3.3.2.1 and Product Backle Delivery: EDDS 1.1 e filter options for TM param Subsystem: log User story#113 Delivery: EDDS 1.1 wildcards in the selection of 1 Subsystem: og User story#147 Delivery: specify the dataspace to be	Need: Mandatory         eter data streaming as for the TI         Priority: 2         Need: Mandatory         the parameters to be included in         Priority: 2         Need: Mandatory         the parameters to be included in         Priority: 2         Need: Mandatory         used for each TM parameter re	Stability: Stable         M parameter batch requination         Type: F         Stability: Stable         a TM parameter request         Type: F         Stability: Stable         a trype: F	verific	Last Issued in: 8 en applicable). cation Method: Test Last Issued in: 8 cation Method: Test	

 EDDS-SR-00394
 Delivery:
 Need: Mandatory
 Stability: Stable
 Last Issued in: 11

 EDDS shall make the DARC last consolidation time on each dataspace visible for TM parameter, TM parameter preview and TM parameter statistics.

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	edds#754				

EDDS-SR-00	395	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11
EDDS shall a requests.	llow users to u	se the DARC last consolidation time	to be the end time for TM	parameter, TM parameter p	review and TM parameter statistics
Notes:	This value wi	Il be retrieved during execution, as th	nen it will be most accurate	and very beneficial for sch	eduled requests.
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test
Source:	edds#754				

EDDS-SR-00	410	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
The EDDS sh	nall ensure sup	port for the following TM parameter t	ypes:		
Raw teleme	try parameters				
Dynamic Ol	synthetic para	ameters.			
Hard-coded	synthetic para	meters.RID327			
Saved synth	netic paramete	rs.			
Constant (st	tatic) paramete	ers.			
SPEL synth	etic parameter	s.RID394 RID327			
Variable pace	cket parameter	rs. RID394			
Fixed Packe	et Parameters.	RID394			
Supercomm	utated Param	eters.			
Notes:		1			
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-4] SR-T	MDR-200900			
EDDS-SR-00	830	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 10
The EDDS sh response:	nall be configu	able (at a mission level) to provide th	e following information for	each TM parameter s	ampleRID292 in a TM parameter data type
Timestamp	(on-board) of p	parameter.			
Storage time	e on paramete	r archive.			
Parameter r	name.				
Parameter of	description.RID	0372			
Parameter \	/alue.				
• Parameter ι	unit. RID372				
Parameter \	alidity.				
Engineering	RID399 value.				
Parameter s	state.				
Parent pack	et generation t	ime and ID.			
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-3] Section	on 3.3.2.1			
	[RD-4] SR-T	MDR-320220			
	[RD-6] R-WE	B-0242			
	SWRR				

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS:RR-00831         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           The EDDS of all allow a configurable number of TM parameter sample response definitions (EDDS-SR-00830) to be defined for each mission, which the user can select for delivery of TM Parameter data.RID518         Image: Configurable number of TM parameter sample response definitions (EDDS-SR-00830) to be defined for each mission, which the user can select for delivery of TM Parameter data.RID518           System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         SWR         Stability: Stable         Last Issued in: 4           The EDDS shall provide the following information for each instance of a Parameter Description data type defined:         Need: Mandatory         Stability: Stable         Last Issued in: 4           Notes:         System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         Subsystem:         Stability: Stable         Last Issued in: 5         E           FDDS-Snoll be configurable to provide the following data for Parameters Statistics:         Time of earliest parameter satisfying specified filter oriteria.         Stability: Stable         Last Issued in: 5           The CDDS shall be configurable to provide the following additional statistics would be returned;         Number of parameters satisfying specified filter oriteria.         Stability: Stable						
select for delivery of TM Parameter data.RID518 Notes: System: Subsystem: Su	EDDS-SR-00	0831	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR				ample response definitions	s (EDDS-SR-00830) to	o be defined for each mission, which the user can
Source:       Stability: Stabile       Last Issued in: 4         EDDS: Shall provide the following information for each instance of a Parameter Description data type defined:       • Last Issued in: 4         • Name.       • Description.       • Unit.       • Unit.       • Verification Method: Test         Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:         Stability: Stabile       Last Issued in: 5         EDDS:SR-OUESO       Delivery:       Need: Mandatory       Stability: Stabile       Last Issued in: 5         The EDDS shall be configurable to provide the following data for Parameters Statistics:       • Need: Mandatory       Stability: Stabile       Last Issued in: 5         The Garliest parameter satisfying specified filter criteria.       • Need: Mandatory       Stability: Stabile       Last Issued in: 5         • Time of lastes parameters satisfying specified filter criteria.       • Number of parameters satisfying specified filter criteria.       • Number of parameters satisfying specified filter criteria.       • Number of parameters the following additional statistics would be returned;       National statistics would be returned;       National statistics would be returned;         Alist of the different values that the parameter had taken.       • For String parameters the following additional information would be returned;       Nation would be different values	Notes:					
EDDS-SR-00832       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 4         The EDDS shall provide the following information for each instance of a Parameter Description data type defined:       •         • Name.       •       •         • Description.       •       •         • Unit.       Notes:	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
The EDDS shall provide the following information for each instance of a Parameter Description. <ul> <li>Name.</li> <li>Description.</li> <li>Unit.</li> </ul> Notes: <ul> <li>Subsystem:</li> <li>Subsystem:</li> <li>Priority: 1</li> <li>Type: F</li> <li>Verification Method: Test</li> </ul> Source: <ul> <li>EDDS-SR-00850</li> <li>Delivery:</li> <li>Need: Mandatory</li> <li>Stability: Stable</li> <li>Last Issued in: 5</li> </ul> The 6 carliest parameter satisfying specified filter criteria. <ul> <li>The of alast parameter satisfying specified filter criteria.</li> <li>For Numeric parameters the following additional statistics would be returned;</li> <li>Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Average value (in sourceRID399 or engineering).RID374</li> <li>Altor of the different values that the parameter had taken.</li> <li>The inme at which values changed.RID296</li> <li>Please n</li></ul>	Source:	SWRR				
The EDDS shall provide the following information for each instance of a Parameter Description. <ul> <li>Name.</li> <li>Description.</li> <li>Unit.</li> </ul> Notes: <ul> <li>Subsystem:</li> <li>Subsystem:</li> <li>Priority: 1</li> <li>Type: F</li> <li>Verification Method: Test</li> </ul> Source: <ul> <li>EDDS-SR-00850</li> <li>Delivery:</li> <li>Need: Mandatory</li> <li>Stability: Stable</li> <li>Last Issued in: 5</li> </ul> The 6 carliest parameter satisfying specified filter criteria. <ul> <li>The of alast parameter satisfying specified filter criteria.</li> <li>For Numeric parameters the following additional statistics would be returned;</li> <li>Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Average value (in sourceRID399 or engineering).RID374</li> <li>Altor of the different values that the parameter had taken.</li> <li>The inme at which values changed.RID296</li> <li>Please n</li></ul>						
<ul> <li>Name.</li> <li>Description.</li> <li>Unit.</li> <li>Notes: <ul> <li>System:</li> <li>Subsystem:</li> <li>Priority: 1</li> <li>Type: F</li> <li>Verification Method: Test</li> </ul> </li> <li>Source: <ul> <li>EDDS-SR-00850</li> <li>Delivery:</li> <li>Need: Mandatory</li> <li>Stability: Stable</li> <li>Last Issued in: 5</li> </ul> </li> <li>The EDDS shall be configurable to provide the following data for Parameters Statistics: <ul> <li>Time of earliest parameter satisfying specified filter criteria.</li> <li>Time of latest parameter satisfying specified filter criteria.</li> <li>Number of parameters statisfying specified filter criteria.</li> <li>For Numeric parameters the following additional statistics would be returned;</li> <li>Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Standard Deviation.</li> <li>For String parameters the following additional information would be returned;</li> <li>A list of the different values that the parameter Attaken.</li> <li>The unmber of times that each value had occurred.</li> <li>Returned: A list of the different values are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54</li> </ul></li></ul>	EDDS-SR-00	832	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
Description.     Unit.      Notes:      Subsystem: Subsystem: Priority: 1 Type: F Verification Method: Test Source:      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Play: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stability: Stable Last Issued in: 5      Delivery: Need: Mandatory Stability: Stability: Stability: Stability: Stability: Stability: Stability: S	The EDDS sh	nall provide the	following information for each instan	ce of a Parameter Descrip	tion data type defined	t:
Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       EDDS-SR-00850       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 5         The EDDS shall be configurable to provide the following data for Parameters Statistics:       Time of earliest parameter satisfying specified filter oriteria.         • Time of latest parameter satisfying specified filter oriteria.       • Number of parameters satisfying specified filter oriteria.         • Number of parameters satisfying specified filter oriteria.       • Number of parameters be following additional statistics would be returned;         Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374       Maverage value (in sourceRID399 or engineering).RID374         Average value (in sourceRID399 or engineering).RID374       Average value that the parameter he following additional information would be returned;         • For String parameters the following additional information would be returned;       A list of the different values that the parameter hat taken.         • The number of times at which values changed.RID296       Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54         Notes:	• Name.					
Notes:       Subsystem:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:	Description.					
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       EDDS-SR-00850       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 5         The EDDS shall be configurable to provide the following data for Parameters Statistics:       Time of earliest parameter satisfying specified filter criteria.       Itest Issued in: 5         Number of parameters satisfying specified filter criteria.       Number of parameters the following additional statistics would be returned;       Naximum value and its time.RID296 (in sourceRID3990 enengineering).RID374         Maximum value and its time.RID296 (in sourceRID3990 or engineering).RID374       Average value (in sourceRID399 or engineering).RID374         Standard Deviation.       -For String parameters the following additional information would be returned;         A list of the different values that the parameter had taken.       -         The number of times that each value had occurred.       -         The times at which values changed.RID296       -         Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54         Notes:       -	• Unit.					
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       EDDS-SR-00850       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 5         The EDDS shall be configurable to provide the following data for Parameters Statistics:       Time of earliest parameter satisfying specified filter criteria.       Itest Issued in: 5         Number of parameters satisfying specified filter criteria.       Number of parameters the following additional statistics would be returned;       Naximum value and its time.RID296 (in sourceRID3990 enengineering).RID374         Maximum value and its time.RID296 (in sourceRID3990 or engineering).RID374       Average value (in sourceRID399 or engineering).RID374         Standard Deviation.       -For String parameters the following additional information would be returned;         A list of the different values that the parameter had taken.       -         The number of times that each value had occurred.       -         The times at which values changed.RID296       -         Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54         Notes:       -						
Source:       Need: Mandatory       Stability: Stable       Last Issued in: 5         EDDS-SR-00850       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 5         The EDDS shall be configurable to provide the following data for Parameters Statistics:       .       .       .         • Time of earliest parameter satisfying specified filter criteria.       .       .       .         • Number of parameters satisfying specified filter criteria.       .       .       .         • Number of parameters the following additional statistics would be returned;       .       .         Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374       .       .         Minimum value and its time the following additional information would be returned;       .       .         Standard Deviation.       .       .       .         • For String parameters the following additional information would be returned;       .       .         A list of the different values that the parameter had taken.       .       .       .         The number of times that each value had occurred.       .       .       .       .         The times at which values changed.RID296       .       .       .       .       .         Please note that statistics are only provided by default when using the DARC. For on	Notes:					
EDDS-SR-00850       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 5         The EDDS shall be configurable to provide the following data for Parameters Statistics:       -	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
The EDDS shall be configurable to provide the following data for Parameters Statistics:  Time of earliest parameter satisfying specified filter criteria.  Time of latest parameter satisfying specified filter criteria.  Number of parameters satisfying specified filter criteria.  For Numeric parameters the following additional statistics would be returned; Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374 Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374 Average value (in sourceRID399 or engineering).RID374 Standard Deviation.  For String parameters the following additional information would be returned; A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	Source:					
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<ul> <li>Time of earliest parameter satisfying specified filter criteria.</li> <li>Time of latest parameter satisfying specified filter criteria.</li> <li>Number of parameters satisfying specified filter criteria.</li> <li>For Numeric parameters the following additional statistics would be returned; Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Average value (in sourceRID399 or engineering).RID374</li> <li>Standard Deviation.</li> <li>For String parameters the following additional information would be returned;</li> <li>A list of the different values that the parameter had taken.</li> <li>The number of times that each value had occurred.</li> <li>The times at which values changed.RID296</li> <li>Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54</li> </ul>	EDDS-SR-00	850	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5
<ul> <li>Time of latest parameter satisfying specified filter criteria.</li> <li>Number of parameters satisfying specified filter criteria.</li> <li>For Numeric parameters the following additional statistics would be returned; Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Average value (in sourceRID399 or engineering).RID374</li> <li>Standard Deviation.</li> <li>For String parameters the following additional information would be returned; A list of the different values that the parameter had taken.</li> <li>The number of times that each value had occurred.</li> <li>The times at which values changed.RID296</li> <li>Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54</li> </ul>	The EDDS sh	nall be configur	able to provide the following data for	Parameters Statistics:		
<ul> <li>Number of parameters satisfying specified filter criteria.</li> <li>For Numeric parameters the following additional statistics would be returned; Maximum value and its time.RID296 (in sourceRID399or engineering).RID374</li> <li>Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374</li> <li>Average value (in sourceRID399 or engineering).RID374</li> <li>Standard Deviation.</li> <li>For String parameters the following additional information would be returned; A list of the different values that the parameter had taken.</li> <li>The number of times that each value had occurred.</li> <li>The times at which values changed.RID296</li> <li>Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54</li> </ul>	Time of earl	iest parameter	satisfying specified filter criteria.			
<ul> <li>For Numeric parameters the following additional statistics would be returned; Maximum value and its time.RID296 (in sourceRID399 or engineering).RID374 Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374 Average value (in sourceRID399 or engineering).RID374 Standard Deviation.</li> <li>For String parameters the following additional information would be returned; A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54</li> </ul>	Time of late	st parameter s	atisfying specified filter criteria.			
Maximum value and its time.RID296 (in sourceRID399or engineering).RID374 Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374 Average value (in sourceRID399 or engineering).RID374 Standard Deviation. • For String parameters the following additional information would be returned; A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	Number of p	parameters sat	isfying specified filter criteria.			
Minimum value and its time.RID296 (in sourceRID399 or engineering).RID374 Average value (in sourceRID399 or engineering).RID374 Standard Deviation. • For String parameters the following additional information would be returned; A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54	For Numeric	c parameters th	ne following additional statistics would	l be returned;		
Average value (in sourceRID399 or engineering).RID374 Standard Deviation. • For String parameters the following additional information would be returned; A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	Maximum va	lue and its time	e.RID296 (in sourceRID399or engine	ering).RID374		
Standard Deviation.  • For String parameters the following additional information would be returned; A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	Minimum val	lue and its time	RID296 (in sourceRID399 or engine	ering).RID374		
For String parameters the following additional information would be returned;     A list of the different values that the parameter had taken.     The number of times that each value had occurred.     The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	Average valu	ue (in sourceRI	D399 or engineering).RID374			
A list of the different values that the parameter had taken. The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	Standard De	viation.				
The number of times that each value had occurred. The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	For String p	arameters the	following additional information would	l be returned;		
The times at which values changed.RID296 Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	A list of the d	lifferent values	that the parameter had taken.			
Please note that statistics are only provided by default when using the DARC. For on the fly access with SMF this is currently not possible.eddsdswr#54 Notes:	The number	of times that e	ach value had occurred.			
Notes:	The times at	which values of	changed.RID296			
	Please note t	hat statistics ar	e only provided by default when usin	g the DARC. For on the fly	access with SMF this	s is currently not possible.eddsdswr#54
System: Subsystem: Priority: 1 Type: F Verification Method: Test	Notes:					
	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source: [RD-3] Section 3.3.1.4	Source:	[RD-3] Section	on 3.3.1.4			

EDDS-SR-00	852	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 10
The EDDS sh	nall allow the us	ser to preview the Parameter data an	d obtain as a minimum the	e following Parameter info	rmation:
<ul> <li>Description</li> </ul>					
Approximate	e size of data				
Date for last	update of item	1			
Date for first	update of item	1			
Notes:					
System:		Subsystem:	Priority: 1	Type: F Ve	rification Method: Test
Source:					

 EDDS-SR-00720
 Delivery:
 Need: Mandatory
 Stability: Stable
 Last Issued in: 2

 The EDDS shall provide calibration of a parameter either using the current calibration curve or the calibration curve that applied at the time of the sample. If the data is retrieved from the DARC than no calibration is required or possible. The data is processed by EDDS as received.eddsdswr#30

Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:				

EDDS-SR-0	0730	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 10
It shall be po	ssible to reques	st parameter data sorted ir	n chronological order based on the	time stamp.	
Note: This is	to ensure effici	ent support for MUST clier	nts. RID331		
	Depending	n the request the data is (	ordered by parameter name(alpha	betically) and then tim	estamp or parameter type and then timestamp (in
Notes:		order of parameter names		<i>,</i> ,	
Notes: System:				Type: F	Verification Method: Test

EDDS-SR-007	40	Delivery:	Need: Mandato	ry Stability: Sta	ble	Last Issued in: 10
DELETED						
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verif	cation Method: Test
Source:						

EDDS-SR-05	010	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS shall be able to provide a list of parameters stored in a dedicated parameter archive and use this information to tailor MMIs so that users can identify parameters that are in the parameter archive. RID533								
Notes:								
System:	System: Subsystem:		Priority: 1	Type: F Ve	rification Method: Test			
Source:	SWRR							

EDDS-SR-07	/870	Delivery:	Need: Mandatory	Stability: Stabl	e Last Issued in: 2			
The list of parameters stored in a dedicated parameter archive shall be available through a management service. RID533 This list shall be available and visible in the EDDS client.								
Notes:								
System: S		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR2							

EDDS-SR-07	871	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
DARC last consolidation time shall be available for external systems through EDDS API.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	edds#754							

EDDS-SR-07	7880	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 10
DELETED					
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR2				

EDDS-SR-07	890	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 10
DELETED					
Notes:					
System:		Subsystem:	Priority: 1	Type: F Ve	rification Method: Test
Source:	SWRR2				

EDDS-SR-0	5550	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2	
		xtraction service shall use default ca	,			
	ample generati					
Ground rec						
	•	he DARC than no calibration is requ	ired or possible. The data i	s processed by EDDS	as received eddsdswr#30	
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR		· · · · · · · · · · · · · · · · · · ·			
000.001	omat					
EDDS-SR-0	5560	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11	
The EDDS s	hall allow the M	lission Administrator to set the defau	It calibration for the mission	າ.		
Note: This is	not valid for da	ta retrieved from DARC as no calibra	ation is possible.			
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	SWRR			· · · · ·		
	-					
EDDS-SR-08	8120	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2	
					for a given parameter. Please note that DARC	
always store: data.eddsdsy		data information and not only chang	ed values. For that reason	EDDS needs to implei	ment a mechanism to filter the unchanged	
Notes:	WI#109					
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:			Thomy. 2	Type: 1		
Jource.						
EDDS-SR-08	8121	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
EDDS shall r	EDDS shall provide a notification when a TM parameter request is submitted for a parameter which doesn't exist within the parameter archive.					
'						
Note: This no	otification/indica	tion must be different than the case	where there are no sample	es in the database for a	a specific parameter.	
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	

Product backlog User story#121

EDDS-SR-05	030	Delivery:	Need: Mandatory	Stability: Stable Last Issued in: 4			
The mission s	The mission shall provide XSLT files for all MCS generated XML reports to be supported by the MCS and for which a transformation is required.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	SWRR					
EDDS-SR-05	035	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
	A set of XML documents containing XSLT shall be provided to transform all reports supported by the EDDS into XML. EDDS shall provide a template which can be customized by each mission.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		

Source: SWRR

Source:

EDDS-SR-05036	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
A set of XML documents con which can be customized by		ansform all reports support	ed by the EDDS into formati	ed ASCII. EDDS shall provide a template

<sup>5.1.1.4</sup> Report

Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
		1					
EDDS-SR-05	5037	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8		
		ployment of multiple XSLT files fo est. The selected transformation fi			hich transformation file (if any) to be used when of the corresponding request.		
Notes:		1					
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test		
Source:	Product bac	klog User story#123					
EDDS-SR-00		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11		
		e following MCS reports:					
TM Packet F	Report.						
-TM Gap Rep							
TM Paramet	•						
TC Packet R	Report						
Files							
OBEV Data	Report.						
OOL Data R	•						
OBQ Data R	•						
Event Recor							
	Record Report.						
OBSM Repo							
	Memory image						
	Memory mode						
	Image compar						
	Image catalog						
	Model catalogu						
	Device catalog	ue.					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	[RD-3] Section	on 3.3.3.3					
EDDS-SR-00	0450	Delivery:	Need: Mandaton	Stability Stable	Last Issued in: 4		
		same filter data attributes RID48	Need: Mandatory	Stability: Stable			
	nali support tre	same liner data attributes RID40	TIOT THE TIVI Packet Report	as defined for TWI Paci	ket baich requests.		
Notes:		Subayatam	Priority: 1	Type: F	Verification Method: Test		
System:	IDD 21 Coot	Subsystem:		туре. г	Vernication Method. Test		
Source:	[RD-3] Section	ווט.ט.ט. ו					
EDDS-SR-05	5040	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5		
The EDDS sl	hall support at	least the following response data					
	<ul> <li>The EDDS shall support at least the following response data attributes RID481 for the TM Parameter Statistics:</li> <li>The timestamp of the first and last parameter matching the retrieval criteria.</li> </ul>						
		samples found.					
	ne size (in byte:						
Notes:							

System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				

EDDS-SR-08130	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2					
The EDDS shall support at	The EDDS shall support at least the following data attributes for the TC Packet Report for each APID:								
The SSC, SCET and source	rce of the first and last packet matchin	g the retrieval criteria.							
The number of command	s found. eddsdswr#123								
Notes:									
System:	Subsystem:	Priority: 1	Type: F V	erification Method: Test					
Source:									

EDDS-SR-08131	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11				
The EDDS shall support at	The EDDS shall support at least the following data attributes for the TM Packet Gap Report for each gap found:							
Start time of the	gap(s)							
End time of the g	gap(s)							
APID of the gap	(s)							
Data partition of	the gap(s)							
Start source seq	uence counter (SSC)							
End source sequ	uence counter (SSC)							
Number of pack	ets missing in the gap							
Notes:								
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:								

EDDS-SR-08140	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS shall support at	The EDDS shall support at locat the following data attributes for the File Penetti						

The EDDS shall support at least the following data attributes for the File Report:

• The file name

The file version

The date (of the most recent version found)

The file size (of the most recent version found)eddsdswr#123

Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:				

EDDS-SR-05	050	Delivery:	Need: Mandatory	Stability: Stable         Last Issued in: 3			
The EDDS shall support the filter data attributes for the OBEV Data Report as defined in the SCOS-2000 release 5 SmfS2kTmObevDataFilter SMF type definition.							
Notes:	otes:						
System:		Subsystem:	Priority: 1	Type: F Verification Method: Test			
Source:	SWRR						
	·						
EDDS-SR-05	EDDS-SR-05060 Delivery: Need: Mandatory Stability: Stable Last Issued in: 3						
The EDDS shall support the filter data attributes for the OOL Data Report as defined in the SCOS-2000 release 5 SmfS2kTmOolDataFilter SMF type definition.							
Mataa							

Notes.								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

EDDS-SR-05070	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 3		
The EDDS shall support the filter data attributes for the OBQ Data Report as defined in the SCOS-2000 release 5 SmfS2kTcObqDataFilter SMF type definition.						
Notes:						
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test		

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Source:	SWRR				
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS s	hall support the	e filter data attributes for the Eve	ent Record Report as defined	in the SCOS-2000 relea	se 5 SmfS2kEventDataFilter SMF type definition.
Notes:		1			
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	5090	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5
The EDDS s	hall support the	e filter data attributes for the Cor	mmand Record Report as defi	ned in the SCOS-2000	elease 5 SMFcmdDataFilter SMF type definition.
Notes:		1			
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	5100	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED					
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	5110	Delivery:	Need: MandatoryStability: StableLast Issued in: 3		Last Issued in: 3
The EDDS shall support the following filter data attributes for each OBSM Report as defined in the SCOS-2000 release 5 SMF type definition.					
		e following filter data attributes fo	or each OBSM Report as defi	ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory image	age - no filters.	following filter data attributes f	or each OBSM Report as defi	ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory ima     Memory mo	age - no filters. odel - no filters.	-	or each OBSM Report as defi	ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory im     Memory mo     Image com	age - no filters. odel - no filters. parison - no filt	ers.	or each OBSM Report as defi	ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory image of the second secon	age - no filters. odel - no filters. parison - no filte logue - no filter	ers. S.	or each OBSM Report as defi	ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory ima     Memory ma     Image com     Image catal     Model catal	age - no filters. odel - no filters. parison - no filte logue - no filters logue - no filters	ers. S.		ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory ima     Memory ma     Image com     Image catal     Model catal	age - no filters. odel - no filters. parison - no filte logue - no filters logue - no filters	ers. S.		ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory ima Memory mo Image com Image catal Model catal Device cata	age - no filters. odel - no filters. parison - no filte logue - no filters logue - no filters	ers. S.		ned in the SCOS-2000 r	elease 5 SMF type definition.
Memory image of the second secon	age - no filters. odel - no filters. parison - no filte logue - no filters logue - no filters	ers. s. s. smDeviceCatalogueDataFilter.			
Memory ima Memory mo Image com Image catal Model catal Device cata Notes: System:	age - no filters. odel - no filters. parison - no filte logue - no filters alogue - no filters	ers. S.		Type: F	elease 5 SMF type definition. Verification Method: Test
Memory image of the second secon	age - no filters. odel - no filters. parison - no filte logue - no filters logue - no filters	ers. s. s. smDeviceCatalogueDataFilter.			
Memory ima Memory mo Image com Image catal Model catal Device cata Notes: System: Source:	age - no filters. odel - no filters. parison - no filter logue - no filter alogue - smfOb	ers. s. smDeviceCatalogueDataFilter. <b>Subsystem:</b>	Priority: 1	Type: F	Verification Method: Test
Memory ima Memory mo Image com Image catal Model catal Device cata Notes: System: Source: EDDS-SR-0!	age - no filters. odel - no filters. parison - no filter logue - no filter alogue - smfOb SWRR 5120	ers. s. s. smDeviceCatalogueDataFilter. Subsystem: Delivery:	Priority: 1 Need: Mandatory	Type: F         Stability: Stable	
Memory ima Memory mo Image com Image catal Model catal Device cata Notes: System: Source: EDDS-SR-02 Reports proc	age - no filters. odel - no filters. parison - no filter logue - no filter alogue - smfOb SWRR 5120	ers. s. smDeviceCatalogueDataFilter. <b>Subsystem:</b>	Priority: 1 Need: Mandatory	Type: F         Stability: Stable	Verification Method: Test
Memory imate Memory image catal Model catal Device catal Device catal Notes:     System:     Source:     EDDS-SR-02     Reports proce     Notes:	age - no filters. odel - no filters. parison - no filter logue - no filter alogue - smfOb SWRR 5120	ers. s. smDeviceCatalogueDataFilter. <b>Subsystem:</b> <b>Delivery:</b> DDS shall be in XML format (T	Priority: 1 Need: Mandatory The report provider must ensur	Type: F Stability: Stable e this)	Verification Method: Test Last Issued in: 1
Memory ima Memory models Image composition Image catal Model catal Device catal Notes: System: Source: EDDS-SR-02 Reports proce Notes: System:	age - no filters. odel - no filters. parison - no filter logue - no filter alogue - SmfOb SWRR 5120 sessed by the E	ers. s. s. smDeviceCatalogueDataFilter. Subsystem: Delivery:	Priority: 1 Need: Mandatory	Type: F         Stability: Stable	Verification Method: Test
Memory imate Memory image catal Model catal Device catal Device catal Notes:     System:     Source:     EDDS-SR-02     Reports proce     Notes:	age - no filters. odel - no filters. parison - no filter logue - no filter alogue - smfOb SWRR 5120	ers. s. smDeviceCatalogueDataFilter. <b>Subsystem:</b> <b>Delivery:</b> DDS shall be in XML format (T	Priority: 1 Need: Mandatory The report provider must ensur	Type: F Stability: Stable e this)	Verification Method: Test Last Issued in: 1

EDDS-SR-05	130	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall support XSLT to transform reports into the required delivery formats.								
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

EDDS-SR-05	140	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall provide a facility to enable mission support teams to easily add, remove, or alter Report XSLT.								
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-05	5150	Delivery:	Need: Mandatory	atory Stability: Stable Last Issued in: 1				
A set of XSL	A set of XSLT documents shall be provided by the mission to provide compatibility with previous TDRS report formats as required by the mission.							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR	·			·			
EDDS-SR-05	5160	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sl	The EDDS shall be able to generate at least the following EDDS specific reports on user request:RID404							
Status repo								
		t (including estimation of request cor	mpletion).					
System Log								
Usage Rep								
oougortop	010							
Notes:								
		Subovetom	Priority: 1	Type: F	Verification Method: Test			
System:	014/DD	Subsystem:		∣ туре. г	vernication metriod. Test			
Source:	SWRR							
		Dellarma	Need Mendeley	Otability Otable				
EDDS-SR-05		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
	report type sha	all be assigned a data object ID. RID	310 RID403					
Notes:								
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
		1						
EDDS-SR-05180         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1					Last Issued in: 1			
Access rights	s to create EDD	OS reports shall be governed by the	standard privilege mecha	nisms for data types. R	ID310 RID403			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR	·			·			
EDDS-SR-00	0950	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
For EDDS ge	enerated report	s it shall be possible to configure the	e time span of the report (e	e.g. day, month, year, n	days) of a report.RID404 RID535			
-		· · · ·			ule reports for the future (also as a time			
interval).edds								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	[RD-5] SR 3	.1.351						
EDDS-SR-05	5190	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
For FDDS of	enerated report	is it shall be possible to schedule the		- I - E				
Notes:								
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
	CWIDD	Subsystem.			Vernication Method. Test			
Source:	SWRR							
	5000	Deliverry		Challe With a Challe				
EDDS-SR-05		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
	hall provide a s	tatus report that gives an overview	ot the EDDS services avai	lability.				
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

	EGOS-GEN	I-EDDS-SRS-1001		SOFTWARE	Requir	EMENTS SPECIFICATION (SRS)
EDDS-SR-05	EDDS-SR-05210         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1				Last Issued in: 1	
The EDDS sh	nall provide a s	tatus report that gives an overview of	f the status of connections		ems.	
Notes:				· · ·		
System:		Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test
Source:	SWRR			<b>71</b>	_	
	•••••					
EDDS-SR-05	5220	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
The EDDS sh	nall provide a s	tatus report that gives an overview of	f the status of connections	to relevant RDM prod	luction s	systems.
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test
Source:	SWRR					
EDDS-SR-05	5230	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
The EDDS sh	nall provide a s	tatus report that gives an indication c	f the user's current quota ι	isage. RID346		
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test
Source:	SWRR	· · ·				
EDDS-SR-00	930	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
For statistical	analysis purpo	oses the EDDS shall retain the follow	ing request status data for	a configurable period:	RID27	2
Request ID.				<b>-</b> .		
• User name	of user reques	ting data.				
	r requesting da	-				
	st (request in )					
• Time reques		,				
	st processing s	tarted.				
		nished (i.e. data returned to user or a	all retries completed).			
Priority of re		,	1 /			
-	' age returned to	user (if anv).				
	-	nt of data currently retrieved for an ac	tive request.RID349			
		ed (e.g. files for Archived Files data t		a type, parameter sa	mples f	or Parameter data type).RID349
	•	ed after applying filtering.RID349	<b>7</b> F -, F F			
		to transmit data to user.				
	·	ttempt to transmit data to user.				
Status						
• Queued - R	eadv.					
• Queued - A	•					
• Queued - Pa						
		was cancelled).				
Waiting eve	•					
Completed Successfully.						
Completed	-					
Completed						
Notes:						
System:	I	Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test
Source:	[RD-5] SR 3.					
Jour 00.						
EDDS-SR-05	5240	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
		rief request summary report that can				

Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
	VERSION: 18.0 - 2018-02-16	44/119	©Copyr	IGHT EUROPEAN SPACE AGENCY 2018

Source:	SWRR								
	1700	Dellarma		Otabilita Otabla					
	EDDS-SR-01720         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2								
	A brief request summary report shall provide the following information for each request in the queue:								
Request ID.     Time request									
		ant completion (this estimation about	ld be based on the size of	f the data to be retrieved	l and an assumption of network speed)				
	r submitting rea				and an assumption of hetwork speed)				
	idy, Active, Pa								
• Priority.	iuy, Active, Fa	useu).							
,	o correspondin	g XML request.							
		g mine request.							
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	SWRR								
EDDS-SR-05	5250	<b>Delivery:</b> User story #46 in EDDS 1.1.0 Sprint 2	Need: Mandatory	Stability: Stable	Last Issued in: 8				
		EDDS request summary report that on have been completed.	can be applied across a tir	me period, i.e. this can l	be applied to requests currently in a request				
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	SWRR		·						
EDDS-SR-05	5260	<b>Delivery:</b> User story #46 in EDDS 1.1.0 Sprint 2	Need: Mandatory	Stability: Stable	Last Issued in: 8				
The content of	of the EDDS re	equest summary report shall contain	an entry for each request	submitted within the tim	ne period.				
Note: This inc	cludes any ED	DS request which has been schedu	led.						
Notes:		1							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	SWRR								
EDDS-SR-05	EDDS-SR-05270     Delivery: User story #46 in EDDS 1.1.0 Sprint 2     Need: Mandatory     Stability: Stable     Last Issued in: 8								
EDDS shall a	EDDS shall allow a mechanism to provide only a selected subset of EDDS request report data within the response file of the EDDS request summary report.								
Note: This ca	in be achieved	by using XSLT transformation files.							
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	SWRR								
	5.1.1.5	Archived File							

EDDS-SR-05	280	Delivery: User story #46 in EDDS 1.1.0 Sprint 2	Need: Mandatory	Stability: Stable	Last Issued in: 8			
It shall be pos	It shall be possible to schedule an EDDS request summary report as any other EDDS batch request.							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

45/119

EDDS-SR-0	5290	<b>Delivery:</b> User story #46 in EDDS 1.1.0 Sprint 2	Need: Mandatory	Stability: Stable	Last Issued in: 8			
The EDDS re	The EDDS request summary reports shall provide the following information for the EDDS summary reports response file:							
Request ID								
	of user reques	ting data.						
Role of use	r requesting da	ta.						
Date when	the request wa	s submitted						
Status of th	us of the request							
Date when	e when the request was completed (if available)							
Size of resp	oonse data (if a	vailable)						
Reason for	failure (if applic	cable)						
Total Numb	er of deleted re	equests						
Total numb	er of processed	d (executed) requests in that period						
Number of	failed requests							
Notes:		1						
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-0	1710	Delivery: User story #46 in EDDS 1.1.0 Sprint 2	Need: Mandatory	Stability: Stable	Last Issued in: 8			
It shall be po	scible to contro	•	mmany report for each role	using the data access	sets. The information provided by the report			
		ge of the user who submits the reque		e using the data access	sets. The information provided by the report			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:		· · · ·	-					
EDDS-SR-0	5300	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 8			
DELETED								
Notes:								
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-0	5310	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
		rt access filter shall provide a mechai	nism so that partial informa	ation (configured for eac	h privacy tag type) can be given for requests,			
based on priv	, ,	ivete can be configured to appear in	reporte but only diaplay (Ti	ma Submitted' unless	t is the users our request)			
(e.g. Reques	as lagged as pr	ivate can be configured to appear in	reports but only display 11	me Submilled , uniess	it is the users own request).			
Netee								
Notes:		Orthouston	Deleviter 4	<b>T</b>				
System:	014/DD	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-0	5320	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 8			
DELETED	5520			Stability. Stable				
DELETED								
Notes:	Duplicate of	EDDS-SR-05290						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-0	5330	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
LDD3-31-0								

An EDDS system log report shall provide all log messages logged in the EDDS system log for the report period.

Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-00	920	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sl	nall be capable	e of providing statistics about the usage	ge of EDDS services allow	wing EDDS usage repo	rts to be generated.			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	[RD-5] SR 3	.1.350						
EDDS-SR-00	940	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
An EDDS us	age report sha	Il contain at least the following data:						
Number of r	equests made	per user/account for report period.						
Summary to	otals for numbe	er of requests made for report period.						
Amount of c	lata downloade	ed per user/account for report period	(In a configurable scale, o	e.g. Kbytes or Mbytes).				
Summary to	otals for amour	nt of data downloaded for report perio	od (In a configurable scale	e, e.g. Kbytes or Mbytes	3).			
Failed reque	ests for report	period.						
Successful	requests for re	port period.						
Accumulativ	e totals for the	above data across previous reports						
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								
EDDS-SR-05	5340	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 8			
DELETED	DELETED							

DELETED						
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					

EDDS-SR-05	5341	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
The EDDS sh	The EDDS shall be extended to allow access to files on a file system.							
Notes:	The machine where the file system is located needs to have access to the Active MQ (message bus) of EDDS.							
	This means that the full File System needs to be located in the same machine (it cannot be split among machines, like for the FARC or PARC, there can be only 1 archive per mission). It is possible however to have the File System archive in a different machine than the other archives for the mission (e.g. FARC, DARC, PARC).							
System:	Subsystem:         Priority: 1         Type: F         Verification Method: Test							
Source:								

EDDS-SR-0534	2	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
The EDDS shall be able to access several subdirectories in the file system, from a configured home directory.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								

EDDS-SR-05343	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
It shall be possible to configure (via static configuration) the home directory of the file system archive accessible to EDDS.							
Notes:	Notes:						
System:	Subsystem:	Priority: 1	Type: F Ve	rification Method: Test			

Source:

EDDS-SR-05	344	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
	The EDDS shall allow users to register for delivery of new files as they are stored in the File System. These types of requests should be restored even if any EDDS component crashes, but missed file notifications will not be recovered.							
Notes:	This means that the notification of new files arriving while EDDS is down will not be delivered.							
System:		Subsystem:	Priority: 1	Type: F Ver	rification Method: Test			
Source:								

EDDS-SR-05345	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11				
The EDDS shall provide the	The EDDS shall provide the ability to use a filename match criteria, including wild cards, in the Data request service for File System files.							
Notes:	Notes:							
System:	Subsystem:	Priority: 1	Type: F Veri	fication Method: Test				
Source:								

EDDS-SR-05346		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
The EDDS sh	The EDDS shall provide the ability to use the file's last modified date as match criteria, in the Data Request service for File System files.							
Notes:	It shall be possible to combine the filter capabilities of this requirement and of requirement EDDS-SR-05345.							
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test			
Source:								

EDDS-SR-05	347	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11		
The EDDS shall provide access control to the EDDS file system directories (including all subdirectories and contents), based on the user privileges.							
Notes:	Users should be restricted access to certain directories in the File System.						
System: Subsystem: Prio		Priority: 1	Type: F	Verification Method: Test			
Source:							

EDDS-SR-053	348	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
It shall be possible to allow one user access privileges to multiple directories on the file system.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test			
Source:								

EDDS-SR-05	349	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
The user shall be able to request a catalogue of the file system, which shall consist of the directory structure (with folders and sub-folders, but without any files), from a starting folder (selected by the user). If no starting folder is selected, the home directory configured for the EDDS is used as starting folder.								
Notes:	This needs to	o be a recursive action, in order to pro	ovide the full directory struc	ture.				
	It should never be possible to request a full catalogue including all directories and all files inside all subdirectories, in order to prevent performance problems.							
System:	System: Subsystem: Priority: 1 Type: F Verification Method: Test							
Source:								

EDDS-SR-05	351	Delivery:	Need: Mandatory	Stability: Stable	E Last Issued in: 11			
Once the user selects one or more directories from the catalogue, the user shall be able to request a catalogue of the contents of the selected directories (listing the available files in them).								
Notes:	The subdired	ctories and content of the s	ubdirectories is not shown in orde	er to avoid performan	ce issues.			
System:         Priority: 1         Type: F         Verification Method: Test					Verification Method: Test			
Source:								

# 5.1.1.6 Acknowledgement

EDDS-SR-05350		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
A user shall b	A user shall be able to specify the order of data presented within an EDDS generated report with respect to time (i.e. earliest first, or latest first).								
Notes:	Notes:								
System:		Subsystem:	Priority: 1	Type: F Ve	rification Method: Test				
Source:	SWRR								

EDDS-SR-00	510	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sh	The EDDS shall support, at least, the following data attributes RID481 for the Archived Files data type:							
• File Name (i	ncluding wildca	ards).						
• File Folder (	including wildc	ards).						
• File Type (in	cluding lists of	types). RID393						
File Version	(including wild	cards).						
Creation Tin	ne;							
o Any combir	ation of Earlies	st and Latest.						
o Fixed label	LAST (indicatir	ng the last version stored).RID315						
o Fixed label	NEXT (indicati	ng the next version of the file when re	eceived by the MCS).					
Validity Time	e;							
o Any combir	ation of Earlies	st and Latest.						
o Fixed label	LAST (indicatir	ng the last version stored).RID315						
o Fixed label	NEXT (indicati	ng the next version of the file when re	eceived by the MCS).					
• Mode (Allow	ing TAR and/o	or COMPRESSION).						
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	[RD-3] Section 3.3.4.1							

EDDS-SR-00	530	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall support the same data attributes RID481 for Archived Files Catalogue as used for Archived Files.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test			
Source:	[RD-3] Section	[RD-3] Section 3.3.4.2						

EDDS-SR-053	60	Delivery: 1.3.0	Need: Mandatory	Stability: Stable	Last Issued in: 10			
Each entry in a	Each entry in a file catalogue shall contain the following data:							
DataObject IE	)							
• File name								
<ul> <li>File Type</li> </ul>								
Creation Date	)							
Release								
<ul> <li>Issue</li> </ul>								
	EDDS shall not request the entire catalogue from the file archive unless specifically requested by the user. If only a sub-set of files/folders are requested EDDS shall pass the filtered request to the file archive.							
System:		Subsystem:	Priority: 1	Type: F Ver	fication Method: Test			
Source:	SWRR							

EDDS-SR-05370	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
The EDDS shall consider th	at the raw format of a file is the file as	s received from the file arch	nive.	

Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	SWRR	·		·						
EDDS-SR-0	5380	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
A user shall I	be able to confi	gure the receipt of acknowledgeme	nt data when:							
A request is	A request is received by the EDDS.									
A request is	A request is completed successfully.									
• A request c	A request cannot be completed successfully.									
Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	[RD-5] SR 3		· · · · · · · · · · · · · · · · · · ·							
	[									
EDDS-SR-0	5385	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2					
A user may a	associate one o	-	ery mechanism is by email.	RID323 If more than o	ne email address is provided all entries shall be					
used by the	delivery mecha	nism.eddsdswr#59	· ·							
Notes:		1			T					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	SWRR									
EDDS-SR-0	5390	Delivery: Sprint 5	Need: Mandatory	Stability: Stable	Last Issued in: 6					
Acknowledge	ement data for	completed requests shall contain:								
Reference to	o original reque	st.								
Status of rec	quest (Success	, Failed, Rejected, Quota Exceeded	i).							
Time taken	to complete rec	uest.								
Amount of d	lata in total.									
Number of s	samples retrieve	ed from the archives.								
		tering the request.								
	-	on or the quota limit exceeded.								
Data time ra	ange (start and	end time)								
Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	SWRR									
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
	ement data ser	t on receipt of a request, should co	ntain an indication of the nu	imber of requests que	ued before the current request.					
Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	[RD-5] SR 3	.1.631								
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
	ement data sha actual data rec		elivery scheme that was sel	ected in the associate	d request. This may be a different delivery schem					
Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	[RD-5] SR 3	1.610								
EDDS-SR-0	5400	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
All Acknowle	edgements shal	I be logged by the EDDS.								
Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					

VERSION: 18.0 - 2018-02-16

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# Source: SWRR

# 5.1.1.7 MCS Synchronisation

EDDS-SR-0	5410	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 4
DELETED					
Notes:					
System:		Subsystem:	Priority: 2	Type: F V	Verification Method: Test
Source:	[RD-3] Section	on 3.3.7.1			
		1			
EDDS-SR-0	5420	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED					
Notes:		1	1		
System:	1	Subsystem:	Priority: 2	Type: F V	Verification Method: Test
Source:	[RD-3] Section	on 3.3.7.1			
EDDS-SR-0	5430	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED					
Notes:					
System:	1	Subsystem:	Priority: 2	Type: F V	/erification Method: Test
Source:	[RD-3] Section	on 3.3.7.1			
	F 4 40	Delivera	No. d. Mandatan (		
EDDS-SR-0	5440	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 4
DELETED					
		Suboustom	Drievity 2	Timer	Arification Mathed, Toot
System:	CWIDD	Subsystem:	Priority: 2	Type: F V	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	5450	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED		· · ·			1
Notes:					
System:		Subsystem:	Priority: 2	Type: F V	/erification Method: Test
Source:	[RD-3] Section	on 3.3.7.1			
EDDS-SR-0	5460	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED					
Notes:					
System:		Subsystem:	Priority: 2	Type: F V	Verification Method: Test
Source:	[RD-3] Section	on 3.3.7.1			
				I	
EDDS-SR-0	5470	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED					
Notes:					
System:	1	Subsystem:	Priority: 2	Type: F V	Verification Method: Test
Source:	[RD-3] Section	on 3.3.7.1			
EDDS-SR-0	5480	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED					
Notes:					
System:		Subsystem:	Priority: 2	Type: F V	Verification Method: Test

Source: [RD-3] Section 3.3.7.1

# 5.1.2 Formatting

### 5.1.2.1 General

EDDS-SR-00	590	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
All the genera	All the general information needed to support the formatting of a response shall be defined in the EDDS								
e.g.									
ESA specific	tags for XFDU	l.							
Data structur	e definition of a	an RDM.							
Trailer inform	ation for email	S.							
Notes:									
System:		Subsystem:	Priority: 1	Type: F Ve	rification Method: Test				
Source:	[RD-5] SR 3.1.700								

EDDS-SR-05	490	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS sh	The EDDS shall support the following formats that can be applied to data types: RID466								
Binary.									
XFDU.									
XML.									
Spreadsheet	t.								
ASCII.									
Notes:									
System:		Subsystem:	Priority: 1	Type: F Ve	rification Method: Test				
Source:	SWRR								

EDDS-SR-00610	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
EDDS shall be able to deliver, on demand from the user, data in any of the formats supported by the data type and delivery mechanism chosen by the user.						
Notes:						
System:	Subsystem:	Priority: 1	Type: F Ver	ification Method: Test		
Source:						

	vered as soon as it is ready. It shall be Applies to any XML, GDDS Binary, ASCII					
a retrieved from the FARC).	. Applies to any XML, GDDS Binary, ASCII					
This can be specified in the EDDS MMI which would then override the default value.						
Type: F Verif	fication Method: Test					
Product Backlog Item #179						
_						

EDDS-SR-00710 Delivery:		Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall provide a 'plugin' architecture that allows compression applications to be applied to data types. RID270						
Notes:						
System: Subsystem:		Subsystem:	Priority: 1	Type: F	/erification Method: Test	
Source:	[RD-5] SR 3.1.780					

EDDS-SR-00711	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
The EDDS shall provide at least the following compression applications: RID270						
Zip						
GNU Zip						
Tar						
Notes:						
System:	Subsystem:	Priority: 1	Type: F Veri	fication Method: Test		
Source:						

EDDS-SR-00712	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5		
The EDDS shall provide at least the following compression applications:						
RAR						
Notes:						
System:	Subsystem:	Priority: 2	Type: F	Perification Method: Test		
Source:						

EDDS-SR-01	100	Delivery:	Need: Mandat	ory Stability: Stab	le Last Issued in: 1	
The EDDS shall apply compression to the formatting as directed by the associated request.						
Notes:						
System: Subsystem:		Priority: 1	Type: F	Verification Method: Test		
Source:	[RD-5] SR 3.1.660					

EDDS-SR-01	090	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
At a mission level it shall be a configurable attribute of formatting to force compression, or non-compression, of data for the given format. (i.e. this overrides any compression options selected within individual requests). The user shall have the capability to defined a default compression schema in order to restore the compression format.eddsdswr#106							
Notes:							
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test		
Source:							

EDDS-SR-05	492	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
At a mission level the EDDS shall allow a mission administrator to configure the compression level for each data type.						
Notes:	otes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					

EDDS-SR-05	6495	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall provide a TAR mechanism that collates collections of files into one larger file, while preserving file system information using USTAR format [IEEE Std. 1003.1, 1996].							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-01	200	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
The EDDS shall provide a mechanism to encrypt data sent to an end user. The following encryption mechanism shall be supported:							
AES (Advand	ced Encryption	Standard)					
Notes:							
System: Subsystem:		Priority: 1	Type: F Veri	fication Method: Test			
Source:	[RD-6] R-WEB-0901						

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-05	5500	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The use of data encryption for a given format shall be configurable at a mission level.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F Ve	ification Method: Test		
Source:	SWRR						
	<b>E400</b>	D'					

5.1.2.2 Binary

EDDS-SR-00	522	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11	
EDDS shall su	pport Binary f	ormat for the following data types:				
TM Packet.						
TC Packet.						
EV Packet.						
Archived Files	3.					
TM Paramete	r.					
TM Paramete	Definitions					
TM Packet Re	port.					
TM Gap Repo	rt					
TC Packet Re	port.					
Event Record	report.					
OOL Report.						
Notes:	Notes: The binary format may vary between the different request types (see EDDS ICD for details).					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	rce: Product Backlog Item #202					

EDDS-SR-00623	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED				
Notes:				
System:	Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:				

5.1.2.3 XFDU

EDDS-SR-006	500	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 1		
	The EDDS design shall facilitate the adoption of a CCSDS Submission Information Packages (SIPs) layer to be applied to data already in an XFDU format. (See the CCSDS Producer-Archive Interface Specification [RD-1]).						
Notes:							
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test		
Source:							
Source.							

EDDS-SR-00620	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 1			
The data object ID shall have a one to one correspondence to the data object ID used within XFDU formats.							
Notes:	Notes:						
System:	Subsystem:	Priority: 1	Type: F	Perification Method: Test			
Source:							

EDDS-SR-006	24	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
EDDS shall su	pport XFDU f	ormat for the following data types:RI	D466		
TM Packet.					
TC Packet.					
EV Packet.					
Archived Files					
TM Parameter	r.				
Notes:					
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test
Source:					

EDDS-SR-05	510	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The user shall be able to select and apply any of the EDDS supported compression mechanisms to XFDU package components (i.e. manifest and associated files).RID449							
Notes:							
System:		Subsystem:	Priority: 1	Type: F Ver	fication Method: Test		
Source:	SWRR						
	5.1.2.4	XML					

EDDS-SR-00626 Stability: Stable Last Issued in: 11 Delivery: Need: Mandatory EDDS shall support XML format for the following data types: Packet Statistics. MCS Report. EDDS Report. Archived Files Catalogue. Acknowledgement. TM Parameter. -TM Gap Report Parameter Statistics. Parameter Definition. Notes: Subsystem: Priority: 1 Type: F Verification Method: Test System: Source:

#### 5.1.2.5 Spreadsheet

EDDS-SR-00	630	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
EDDS shall s	EDDS shall support Spreadsheet format for the following data type: RID398						
TM Paramete	ər.						
The supporte	d spreadsheet	format should be compatible with the	e PrestoPlot tool.eddsdswr	#62			
Notes:							
System:	: Subsystem: Priority: 1 Type: F Verification Method: Test						
Source:	[RD-4] SR-TMDR-320200						

EDDS-SR-00640	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The Spreadsheet For	The Spreadsheet Format shall be an ASCII file of tab delimited values. The format shall follow the specification in the TDRS External ICD [RD-13].						
Note: Any spurious tabs in the strings shall not be interpreted as field breaks (i.e. ensure that no field delimiter or field quotes are part of the field itself).eddsdswr#107							
Notes:		1					
System:	Subsystem:	Priority: 1 Type: F Verification Method: Test		fication Method: Test			
VERSION: 18.0 - 2018-02-16		55/119	© COPYRIGHT E	UROPEAN SPACE AGENCY 2018			

### Source: [RD-4] SR-TMDR-320500

EDDS-SR-00	650	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
The user sha	The user shall be able to request the following time representations in the spreadsheet format						
• CCSDS AS	CII Code A for	mat.					
• CCSDS AS	CII Code B for	mat.RID330					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test		
Source:	[RD-4] SR-TMDR-320310						

5.1.2.6 ASCII

EDDS-SR-00632	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
EDDS shall support ASCII	formatting for the following data types	:RID466					
Packet Statistics.	Packet Statistics.						
MCS Report.	ICS Report.						
EDDS Report,							
Archived Files Catalogue.							
Parameter Statistics.							
TM Gap Report							
Note: The ASCII formating mission at runtime.	can be done by applying an XSL tran	sformation on top of the XI	ML data. This allows the	transformation to be configurable by each			
Notes:							
System:	Subsystem:	Priority: 1	Type: F	/erification Method: Test			
Source:		· ·	· · ·				

EDDS-SR-00633	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6		
The EDDS shall be capable of supporting ASCII formatting of data types that are in XML format.						
Notes:						
System:	Subsystem:	Priority: 1	Type: F V	erification Method: Test		
Source:						

### 5.1.2.7 RAWSOURCEBINARY

EDDS-SR-00636	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 18			
EDDS shall support RAWS	EDDS shall support RAWSOURCEBINARY formatting for the following data types:						
TM Report.							
Note: The output is a binar	y file of the uninterrupted flow of the ca	ontent of the RawBodyData	a.				
Notes:							
System:	Subsystem:	Priority: 1	Type: F Ver	ification Method: Test			
Source:							

# 5.1.3 Delivery Mechanism

This section describes the functional requirements that define the delivery mechanisms provided by the EDDS.

## 5.1.3.1 Client

EDDS-SR-0	5580	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS s	The EDDS shall be capable of delivering data and acknowledgments to users via a web server.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	[RD-6] R-WE	EB-0315					
EDDS-SR-0	5590	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9		
		nechanism, accessible through the l wnloaded MMI package (i.e. via che		ows users to download	the EDDS client application. It shall be possible to		
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	Product Bac	klog Item #178			8		
	-						
EDDS-SR-0	5600	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
The 'Client' c	lelivery mechar	nism shall support the following data	types:				
Packet Stat	tistics						
MCS Repo	rts						
• EDDS Rep	orts						
Catalogues	of Archived Fil	es					
Acknowledge	gment data						
Parameter	Statistics						
Parameter	Definition						
Parameter	Parameter Preview						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		

Source: SWRR

# 5.1.3.2 File Server & EDDS Server

EDDS-SR-05	610	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
The EDDS sh	nall be capable	of delivering file based data to end c	lients without the need for	the client to initiate the con	nection. RID551		
Note: With the	e exception of	a limited number of User Manageme	nt or reporting request don	e on the MMI (i.e. for all sy	nchronize requests).		
Notes:							
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test		
Source:	SWRR						

EDDS-SR-05	5620	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The File delivery mechanism shall support the following data types:								
	• TM Packet data							
• TC Packet of	data							
• EV Packet o	data							
Packet Stati								
MCS Report								
• EDDS Repo								
Archived file								
	5 of Archived file							
-								
Acknowledg	-							
TM Parame								
Parameter S								
Parameter [								
Parameter F	Preview							
Notes:			<b>D</b> · · · ·					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-05	5621	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4			
DELETED								
Notes:								
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test			
Source:								
EDDS-SR-05	5630	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sh	hall be configu	rable, per mission, as to how many a	ttempts are made to delive	r a file if an attempt fails	.RID410			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR			<b>71</b>				
oouroor	omat							
EDDS-SR-05	5640	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
		the EDDS shall log the failure includi						
Notes:								
		Cubauratama	Dei anifere d	Transi	Varification Matheds Test			
System:	0.4/22	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
		Dellaran		Out the Out to				
EDDS-SR-05		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sh retrieval by a		rable, per mission, to either delete file	e data that has failed delive	ry or retain the undelive	red data on the EDDS file server for later			
Notes:								
		Cubauratama	Dei anifere d	Transi	Varification Matheds Test			
System:	014/00	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
	EDDS-SR-05655     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1							
	hall allow a use	er to select the EDDS server as the d	elivery target for file deliver	ſy.				
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

5675	Delivery:	Need: Mandaton	Stability: Stable	Last Issued in: 18
		,		
he client. The a	aliases for the mission must be confi	gurable on EDDS servers.		
04/00	Subsystem:	Priority: 1	Type: F	Verification Method: Test
SWRR				
5660	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
hall provide a d	lownload mechanism, through the E	DDS web server, to enable	users to download fil	e response data that is stored on the EDDS
	Subovotom	Driority 1	Timer	Verification Method: Test
SW/PP	Subsystem:		∣ туре: ⊢	Verification Method: Test
5670	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
ed for files crea	ated by the EDDS shall have a set n	aming convention as speci	fied in the EUICD [AD	)-39].RID362
	1	1		
1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
SWRR				
540	Delivery	Nood: Mandaton	Stability: Stable	Last Issued in: 1
		,		
0				
	1	1		
1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
SWRR				
OWNER				
5680	Delivery:	Need: Desirable	Stability: Stable	Last Issued in: 4
5680 hall provide a b	Delivery: backwards compatibility mode, for the		Stability: Stable supports responses ir	Last Issued in: 4
5 <b>680</b> hall provide a b 14].	-			
5 <b>680</b> hall provide a b 14]. les - File	backwards compatibility mode, for the			
5680 hall provide a b 14]. les - File les - Catalogue	backwards compatibility mode, for the			
5 <b>680</b> hall provide a b 14]. les - File les - Catalogue 1	backwards compatibility mode, for the			
5680 hall provide a b 14]. les - File les - Catalogue	backwards compatibility mode, for the			
5680 hall provide a b 14]. les - File les - Catalogue 1	backwards compatibility mode, for the			
5680 hall provide a b 14]. les - File les - Catalogue 1	backwards compatibility mode, for the			
5680 hall provide a b 14]. les - File les - Catalogue 1 ; atistics	backwards compatibility mode, for the			
5680 hall provide a b 14]. les - File les - Catalogue 1	backwards compatibility mode, for the	e following data types, that	supports responses ir	n the same binary format as defined in the GDDS
5680 hall provide a b 14]. les - File les - Catalogue 1 ; atistics SWRR	Subsystem:	Priority: 1	Supports responses ir	n the same binary format as defined in the GDDS
5680 hall provide a b 14]. les - File les - Catalogue 1 c atistics SWRR	Subsystem:	Priority: 1 Need: Mandatory	Type: F Stability: Stable	Verification Method: Test Last Issued in: 9
5680 hall provide a b 14]. les - File les - Catalogue 1 ; atistics SWRR 5681 hall allow the U	Subsystem:	Priority: 1 Need: Mandatory erver or File server) to be d	Type: F Stability: Stable one using either FTP	Verification Method: Test      Last Issued in: 9 or SFTP protocol. It shall be possible to define
5680 hall provide a b 14]. les - File les - Catalogue 1 ; atistics SWRR 5681 hall allow the U target destinati	Subsystem: Delivery: Iser to select a file delivery (EDDS se ons for a File Server delivery request	Priority: 1 Need: Mandatory erver or File server) to be d t (FTP or SFTP will be use	Type: F Stability: Stable one using either FTP d to all targets depend	Verification Method: Test      Last Issued in: 9 or SFTP protocol. It shall be possible to define
5680 hall provide a b 14]. les - File les - Catalogue 1 c atistics SWRR 5681 hall allow the U target destinati In case multi targets.	Subsystem: Delivery: Iser to select a file delivery (EDDS se ons for a File Server delivery requess ple targets are selected, the request Subsystem:	Priority: 1 Need: Mandatory erver or File server) to be d t (FTP or SFTP will be use	Type: F Stability: Stable one using either FTP d to all targets depend	Verification Method: Test           Last Issued in: 9           or SFTP protocol. It shall be possible to define ding on the configuration).
5680 hall provide a b 14]. les - File les - Catalogue 1 c atistics SWRR 5681 hall allow the U target destinati In case multi targets.	Subsystem: Delivery: Iser to select a file delivery (EDDS se ons for a File Server delivery reques ple targets are selected, the request	Priority: 1          Need: Mandatory         erver or File server) to be d         t (FTP or SFTP will be use         is considered delivered on	Type: F Stability: Stable one using either FTP d to all targets depend ly in case the response	Verification Method: Test          Last Issued in: 9         or SFTP protocol. It shall be possible to define ding on the configuration).         se file has been successfully delivered to all
5680 hall provide a b 14]. les - File les - Catalogue 1 c atistics SWRR 5681 hall allow the U target destinatii In case multi targets.	Subsystem: Delivery: Iser to select a file delivery (EDDS se ons for a File Server delivery reques ple targets are selected, the request Subsystem: klog Item #233	Priority: 1  Priority: 1  Need: Mandatory erver or File server) to be d t (FTP or SFTP will be use is considered delivered on  Priority: 1	Type: F Stability: Stable one using either FTP d to all targets depend ly in case the respons Type: F	Verification Method: Test          Last Issued in: 9         or SFTP protocol. It shall be possible to define         ding on the configuration).         se file has been successfully delivered to all         Verification Method: Test
5680 hall provide a b 14]. les - File les - Catalogue 1 ; atistics SWRR 5681 hall allow the U target destinati In case multi targets.	Subsystem:         Delivery:         Isser to select a file delivery (EDDS second for a File Server delivery request ple targets are selected, the request ple targets are selected, the request Subsystem:         Klog Item #233         Delivery: Sprint 1 of EDDS 1.1	Priority: 1 Priority: 1 Need: Mandatory erver or File server) to be d t (FTP or SFTP will be use is considered delivered on Priority: 1 Need: Mandatory	Type: F Stability: Stable one using either FTP d to all targets depend ly in case the response Type: F Stability: Stable	Verification Method: Test         Last Issued in: 9         or SFTP protocol. It shall be possible to define ding on the configuration).         se file has been successfully delivered to all         Verification Method: Test         Last Issued in: 9         Image: Second Sec
5680 hall provide a b 14]. les - File les - Catalogue 1 atistics SWRR 5681 hall allow the U target destinati In case multi targets. Product Bac 5682 hall provide a li s as used by th	Subsystem:         Delivery:         Iser to select a file delivery (EDDS second for a File Server delivery request ple targets are selected, the request ple targets are selected, the request Subsystem:         Klog Item #233         Delivery: Sprint 1 of EDDS 1.1         ght-weight EDDS client/process white EDDS web server).	Priority: 1 Priority: 1 Need: Mandatory erver or File server) to be d t (FTP or SFTP will be use is considered delivered on Priority: 1 Need: Mandatory ch polls a pre-defined folde	Supports responses in         Supports responses in         Type: F         Stability: Stable         one using either FTP         d to all targets dependence         ly in case the response         Type: F         Stability: Stable         r or EDDS requests a	Verification Method: Test         Last Issued in: 9         or SFTP protocol. It shall be possible to define ding on the configuration).         se file has been successfully delivered to all         Verification Method: Test         Last Issued in: 12         and submits them to the EDDS Server (via the
5680 hall provide a b 14]. les - File les - Catalogue 1 c atistics SWRR 5681 hall allow the U target destinati In case multi targets. Product Bac 5682 hall provide a li s as used by th all use a "norm	Subsystem:         Delivery:         Iser to select a file delivery (EDDS second for a File Server delivery request ple targets are selected, the request ple targets are selected, the request Subsystem:         Klog Item #233         Delivery: Sprint 1 of EDDS 1.1         ght-weight EDDS client/process white EDDS web server).	Priority: 1 Priority: 1 Need: Mandatory erver or File server) to be d t (FTP or SFTP will be use is considered delivered on Priority: 1 Need: Mandatory ch polls a pre-defined folde form such requests. All type	Supports responses in         Supports responses in         Type: F         Stability: Stable         one using either FTP         d to all targets dependence         ly in case the response         Type: F         Stability: Stable         r or EDDS requests a	Verification Method: Test         Last Issued in: 9         or SFTP protocol. It shall be possible to define ding on the configuration).         se file has been successfully delivered to all         Verification Method: Test         Last Issued in: 9         Image: Second Sec
	he client. The a SWRR S660 SWRR S670 SWRR S670 SWRR S670 SWRR S5670 SWR S5670 SWR S5670	hall be configurable, per mission, to provide "Aliase he client. The aliases for the mission must be confi Subsystem: SWRR 5660 Delivery: hall provide a download mechanism, through the E Subsystem: SWRR 5670 Delivery: ted for files created by the EDDS shall have a set n Subsystem: SWRR 5640 Delivery: sting a file the EDDS shall allow the user the option name. RID362 Subsystem:	hall be configurable, per mission, to provide "Aliases" to the client. Aliases defi he client. The aliases for the mission must be configurable on EDDS servers. Subsystem: Priority: 1 SWRR 5660 Delivery: Need: Mandatory hall provide a download mechanism, through the EDDS web server, to enable Subsystem: Priority: 1 SWRR 5670 Delivery: Need: Mandatory red for files created by the EDDS shall have a set naming convention as speci Subsystem: Priority: 1 SWRR 5670 Delivery: Need: Mandatory red for files created by the EDDS shall have a set naming convention as speci Subsystem: Priority: 1 SWRR 5640 Delivery: Need: Mandatory red for files created by the EDDS shall have a set naming convention as speci Subsystem: Priority: 1 SWRR 5640 Delivery: Need: Mandatory sting a file the EDDS shall allow the user the option of changing the file name to name. RID362 Subsystem: Priority: 1	hall be configurable, per mission, to provide "Aliases" to the client. Aliases define the label of each D         he client. The aliases for the mission must be configurable on EDDS servers.         Subsystem:       Priority: 1         SWRR         3660       Delivery:         Need: Mandatory       Stability: Stable         hall provide a download mechanism, through the EDDS web server, to enable users to download fil         SWRR         SWRR         Subsystem:       Priority: 1         Subsystem:       Priority: 1         SWRR         Stability: Stable         Subsystem:       Priority: 1         SWRR         Stability: Stable         Stability: Stable         Subsystem:       Priority: 1         Type: F         SWRR         Subsystem:       Priority: 1         Type: F         SWRR         Subsystem:       Priority: 1         Type: F         SWRR         Subsystem: <td< td=""></td<>

Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:						

EDDS-SR-05683	Delivery: Sprint 1 of EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 7			
The EDDS light-weight EDDS client/process shall provide an XSLT mechanism to automatically convert GDDS requests (as defined in the GDDID) into EDDS requests so they can be submitted to the EDDS server. All common requests to GDDS and EDDS shall be supported.							
System:	Subsystem:	Priority: 1	Type: F Ve	erification Method: Test			
Source:							

### 5.1.3.3 RDM

EDDS-SR-05	690	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS shall be capable of interfacing to an RDM production system. This means that EDDS will be responsible for triggering the RDM system when a request has selected RDM as the delivery mechanism.eddsdswr#85								
Notes:								
System: Subsystem:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test			
Source:	SWRR							

EDDS-SR-05	700	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The RDM deli	ivery mechanis	m shall support the following data typ	pes:					
TM Packet c	TM Packet data							
• TC Packet d	TC Packet data							
• EV Packet d	ata							
<ul> <li>MCS Report</li> </ul>	s							
<ul> <li>Archived file</li> </ul>	s							
TM Paramet	ter data							
Notes:								
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test			
Source:	SWRR							

EDDS-SR-05701	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED				
Notes:				
System:	Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:				

EDDS-SR-00	670	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The RDM algorithm shall allow configuration of the RDM capacity.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	[RD-5] SR 3.1.761						

EDDS-SR-006	80	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
There shall be a maximum configurable limit to the number of RDMs used to hold a response. If the algorithm determines that this limit would be breached an RDM overflow condition shallRID269 be raised. The total amount of data available for the request is then the configured limit times the space available in each RDM image.eddsdswr#63								
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test			

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SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Source: [RD-5] SR 3.1.770

EDDS-SR-05	5710	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
If an RDM overflow condition occurs the EDDS shall return an acknowledgement to the user indication the condition. The image shall be considered completed and saved.RID269							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-00690	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall be configurable so that it will save a configurable number of completed RDM images if the image in question was successfully created but the burning process failed.								
Notes:	Notes:							
System:	Subsystem:	Priority: 1	Type: F V	erification Method: Test				
Source:								

EDDS-SR-00700		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
A user shall b	A user shall be able to request the burning of a saved RDM image. The status of this request shall be displayed on the EDDS Client.eddsdswr#85							
Notes:								
System:	: Subsystem: Priority: 1 Type: F Verification Method: Test							
Source:								

# 5.1.3.4 Display

EDDS-SR-01220	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2					
The EDDS shall provide a display client application, accessible through the EDDS web server, that provides MCS style displays which are based on the display definitions found on the MCS RID356									
	The Client application shall be based on the EGOS User Desktop (EUD) as defined in [RD-27] and [RD-28]. Please note that some enhances might be required to allow the usage of the EDDS Client via the Web.eddsdswr#64								
Notes:	es:								
System:	m: Subsystem: Priority: 3 Type: F Verification Method: Test								
Source:									

EDDS-SR-05	720	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The Display of	The Display delivery mechanism shall support the following data types:								
• TM Packet of	/ Packet data								
• TC Packet of	lata								
• EV Packet o	lata								
• TM Parame	ter data								
MCS Repor	ts								
Notes:									
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test				
Source:	SWRR								
		Dellarama	Need Mendelers	Otability Otable	Lest lessed in 0				

EDD3-3K-01	<b>250</b> Delivery. <b>Need.</b> Mandatory <b>Stability.</b> Stable <b>Last issued in.</b> 2								
The EDDS display client shall provide an EDDS user with the same display functionality and, as nearly as possible, the same display presentation, content, and layouts RID488 as a central SCOS-2000 user would get when requesting the same type of display.									
	Any specific display or layout that cannot be presented with the same representation as SCOS-2000 shall be well documented and agree in advance.eddsdswr#110								
Notes:									
System:	Subsystem:         Priority: 3         Type: F         Verification Method: Test								
	VERSION: 18.0 - 2018-02-16 61 / 119 © COPYRIGHT EUROPEAN SPACE AGENCY 2018								

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Source: [RD-6] R-WEB-0104

EDDS-SR-05	5730	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS d	isplay client sha	all support the Telemetry De	esktop Display. RID356 RID406					
Notes:								
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-05	5740	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS d	isplay client sha	all support the TM Packet H	listory Display. RID356 RID406					
Notes:								
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-05	5750	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS d	isplay client sha	all support the On-board Ev	ent History Display. RID356 RID4	06				
Notes:								
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-05	5760	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS d	The EDDS display client shall support the OOL Display. RID356 RID355							

Notes:					
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	SWRR				

EDDS-SR-05	770	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
The EDDS di	The EDDS display client shall support the Command History Display. RID356 RID406									
Notes:										
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test					
Source:	SWRR									

EDDS-SR-05	5780	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS display client shall support the On-board Queue Display. RID356 RID406									
Notes:									
System:	Subsystem:         Priority: 3         Type: F         Verification Method: Test								
Source:	SWRR								

EDDS-SR-05	790	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS display client shall support the Variable Packet Display. RID356 RID406									
Notes:									
System:	System: Subsystem: Priority: 3 Type: F Verification Method: Test								
Source:	SWRR								

EDDS-SR-05	800	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
The EDDS display client shall support the MCS Event Log Display. RID356 RID406 The MCS Event Log files shall therefore be retrieved from the appropriate data archive.									
Notes:									
System:	Subsystem:         Priority: 3         Type: F         Verification Method: Test								
Source:	SWRR								

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-01	240	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS di	The EDDS display client shall provide a mechanism to print a display.RID437								
Notes:									
System: Subsystem: Priority: 3 Type: F Verification Method: Test					Verification Method: Test				
Source:	[RD-6] R-WE	EB-0103							
EDDS-SR-05	5860	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS di	splay client sh	all provide a mechanism to 'print' a di	splay to an ASCII compat	ible file.RID375 RID43	7				
Notes:									
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test				
Source:	SWRR								
EDDS-SR-01	EDDS-SR-01270 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1								
The EDDS di	splay client sh	all provide a status line as appropriate	e to the MCS display.						
Notos									

1101001					
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	rce: IRD-61 R-WFB-0106				

EDDS-SR-01	275	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 18			
The EDDS display client shall ask for "Aliases" to EDDS Server and view the names of requests in accordance with defined Aliases. If EDDS server does not respond, or aliases are not defined, it must show the default label defined for the request.								
Notes:								
System:	Subsystem:         Priority: 3         Type: F         Verification Method: Test							
Source:	IRD-61 R-WEB-0106							

EDDS-SR-01	370	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
Where appropriate the EDDS Display Service shall allow scrolling beyond the constraints of the window displaying a graph.								
Notes:								
System:	Subsystem: Priority: 3 Type: F Verification Method: Test							
Source:	[RD-6] R-WEB-0122							

EDDS-SR-01	1380	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS design shall allow a mechanism for mission specific specialisation of base line displays.								
Notes:								
System:		Subsystem:	Priority: 3	Type: F Ve	rification Method: Test			
Source:	SWRR			· · · ·				
Source:	SWRR							

EDDS-SR-05	5870	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall allow users to select displays with predefined lists of parameters. RID406									
Notes:									
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test				
Source:	SWRR								

EDDS-SR-05880 Delivery:		Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS di	The EDDS display client shall allow users to define new displays with user selectable lists of parameters. RID406							
Notes:	Notes:							
System:         Subsystem:         Priority: 3         Type: F         Verification Method: Test				Verification Method: Test				
Source:	SWRR							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-66990         Delivery:         Note:         Stability: Stable         Last issued in: 3           Note::         Subsystem:         Priority: 3         Type: F         Verification Method: Test           Source::         SWRR         EDDS-sR-69900         Delivery:         Node: Mandatory         Stability: Stable         Last issued in: 1           The EDDS shall allow cares to allocate a privacy tag to displays stored on the EDDS enter RID405         Node:         System:         Subsystem:         Priority: 3         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 3         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 3         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 3         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 1         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 1         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 1         Type: F         Verification Method: Test           System::         Subsystem:         Priority: 2         Type: F         Verification Method: Te				<b></b>					
Notes:         Subsystem:         Priority: 3         Type: F         Verification Method: Test           System::         SWRR         EDDS-SR-05900         Delivery:         Need: Marchalory         Stability: Stable         Last issued in: 1           The EDDS shot allow users to allocate a privacy tag to displays stored on the EDDS server.RID406         Notes:         System::         Subsystem:         Priority: 3         Type: F         Verification Method: Test           Source:         SWRR         EDDS-SR-05700         Delivery:         Need: Marchalory         Stability: Stable         Last issued in: 2           The EDDS shall support a parameter name selection window. The selection window shall have:         -         Last issued in: 2           The EDDS shall support a parameter D and description.         The shall display shall be dynamically updated to show matching parameters.         -           - Flats table (display the total number of parameter D and description.         -         the display shall be dynamically updated to show matching parameters.           - Flats faile(display the total number of parameter and the total after filters applied, e.g. 92 of 450.)         -         The EDDS (int Method: Tast           Source:         [RO-4] SR-TWOR-811300         Edivery: EDDS 1.1         Need: Marchalory         Stability: Stable         Last Issued in: 11           The EDDS cliont Multi after matepide shall atometer analytere ton			Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 3			
System:         Subsystem:         Priority: 3         Type: F         Verification Method: Test           Source:         SV/RR         Stability: Stable         Last Issued in: 1         The EDDS stability: Stable         Last Issued in: 1           The EDDS shall allow users to allocate a privacy tog to displays stored on the EDOS server.RID406         Notes:         Subsystem:         Priority: 3         Type: F         Verification Method: Test           Source:         SV/RR         Subsystem:         Priority: 3         Type: F         Verification Method: Test           EDDS-SR-00570         Delivery:         Need: Mondatory         Stability: Stable         Last Issued in: 2           The EDDS shall support a parameter name selection window. The selection window shall have:         -         Last Issued in: 2           The EDDS shall support a parameter ID and description.         -         Feat access task red (display shall be dynamically updated to show matching parameters).           - Tatat access task red (display shall be dynamically updated after applying the filter).         -         Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).           Notes:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         RID-4 [SR-TMDR-311300         Need: Mandatory         Stability: Stable         Last Issued in:		hall allow users	to store user defined displays local	у.					
Source:         SWRR           EDDS-SR-05900         Delivery:         Need: Mandatary         Stability: Stable         Last tesued in: 1           The EDDS shall allow users to allocate a privacy tag to displays stored on the EDDS server.RID406         Notes:         System:         Subsystem:         Priority: 3         Type: F         Verification Method: Test           Source:         SWRR         EDDS-SR-0570         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           The EDDS shall support a parameter iDs and description.         The stability: Stable         Last Issued in: 2         The EDDS shall support a parameter iDs and description.         In all display shall be dynamically updated to show matching parameter.Ds           - Flate taction provides. filtering on parameter iD and description. Independently or both - the list display shall be dynamically updated to show matching parameters.         - Totals field (display the tall number of parameters and the total after filters applied, e.g. 92 of 459.)           Notes:         System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         RDO-4 [SR-TMDR-311300         EDDS-SR-0571         Delivery: EDDS 1.1         Need: Mandatory         Stability: Stable         Last Issued in: 1           The EDDS shall automatically update the guata management information within the EDDS Client MMI stream display shall allow the sthrearning	Notes:								
EDD-SR-05900         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1           The EDDS shall allow users to allocate a privacy tag to display stored on the EDDS server.RIM06	System:	1	Subsystem:	Priority: 3	Type: F	Verification Method: Test			
The EDDS shall allow users to allocate a privacy tog to displays stored on the EDDS server.RID406         Notes:       Subsystem:       Priority: 3       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-00570       Delivery:       Need: Mandatory       Stability: Stabile       Last Issued in: 2         The EDDS shall support a parameter name selection window. The selection window shall have:       -       -       -         * List displaying parameter in an estection window. The selection window shall have:       -       -       -         * List displaying parameter in an estection window. The selection window shall have:       -       -       -       -         * List display with score on parameter ID and description.       - </td <td>Source:</td> <td>SWRR</td> <td></td> <td></td> <td></td> <td></td>	Source:	SWRR							
The EDDS shall allow users to allocate a privacy tog to displays stored on the EDDS server.RID406         Notes:       Subsystem:       Priority: 3       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-00570       Delivery:       Need: Mandatory       Stability: Stabile       Last Issued in: 2         The EDDS shall support a parameter name selection window. The selection window shall have:       -       -       -         * List displaying parameter in an estection window. The selection window shall have:       -       -       -         * List displaying parameter in an estection window. The selection window shall have:       -       -       -       -         * List display with score on parameter ID and description.       - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Notes:         Subsystem:         Subsystem:         Priority: 3         Type: F         Verification Method: Test           Source:         SWRR         EDDS-SR 00570         Delivery:         Need: Mandatory         Stability: Stabile         Last Issued in: 2           The EDDS shall support a parameter name selection window. The selection window shall have:	EDDS-SR-05	5900	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
System:         Subsystem:         Priority: 3         Type: F         Varification Method: Test           EDDS-SR-00570         Delivery:         Need: Mandatory         Stability: St	The EDDS sl	he EDDS shall allow users to allocate a privacy tag to displays stored on the EDDS server.RID406							
Source:         SWRR           EDDS-SR-0570         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           The EDDS shall support a parameter name selection window. The selection window shall have:         • List display with scrol bar displaying parameter ID and descriptions.           - Fast access test field (characters typed) in here act as a filter, case inseriestive, on the parameter ID field - the list display shall be dynamically updated to show matching parameters.           - Filter buttion (provides filtering on parameter ID and description, independently or both - the list display shall be dynamically updated after applying the filter).           - Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).           Notes:           System:         Subsystem:           Subsystem:         Subsystem:           Priority: 1         Type: F         Verification Method: Test           Source:         [RD-4] SR-TMDR-311300         Last Issued in: 8           The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.           System:         Subsystem:         Priority: 2         Type: F         Verification Method: Test           Source:         Product backOg User story#115         EDDS-SR-0572         Delivery: EDDS 1.1         Need: Mandatory         Stability: Stable	Notes:			1					
EDD-SR-06570         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           The EDDS Shall support a parameter rame selection window. The selection window shall have:         •	System:	1	Subsystem:	Priority: 3	Type: F	Verification Method: Test			
The EDDS shall support a parameter name selection window. The selection window shall have:         • List display with scrol bar displaying parameter IDs and descriptions.         • Fast access text field (characters typed in here act as a filter, case insensitive, on the parameter ID field - the list display shall be dynamically updated to show matching parameters).         • Filter button (provides filtering on parameter ID and description, independentity or both - the list display shall be dynamically updated after applying the filter).         • Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).         Notes:         System:       Subsystem:         Priority: 1       Type: F       Verification Method: Test         Source:       [RD-4] SR-TMDR-311300       Last Issued in: 8         The EDDS Silent MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.       Notes:         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       EDDS-SR-00572       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 11         The EDDS shal automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other uses.       Subsystem:       Priority: 2       Type: F	Source:	SWRR							
The EDDS shall support a parameter name selection window. The selection window shall have:         • List display with scrub lar displaying parameter IDs and descriptions.         • Fast access text field (characteris typed in here act as a filter, case insensitive, on the parameter ID field - the list display shall be dynamically updated to show matching parameters).         • Filter button (provides filtering on parameter ID and description, independently or both - the list display shall be dynamically updated after applying the filter).         • Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).         Notes:         System:       Subsystem:         Priority: 1       Type: F       Verification Method: Test         Source:       [RD-4] SR-TMDR-311300       Last Issued in: 8         The EDDS Silent MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.       Notes:         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       Last Issued in: 11       The EDDS shal automatically update the quota management information within the EDDS Client MMI quota vew. Administrators will be able to view the quota usage for other users.         Notes:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Produc					1				
List display with soroll bar displaying parameter IDs and descriptions.     Fast access text field (characters typed in here act as a filter, case insensitive, on the parameter ID field - the list display shall be dynamically updated to show matching parameters).     Filter button (provides filtering on parameter ID and description, independently or both - the list display shall be dynamically updated after applying the filter).     Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).  Notes:     System:     Subsystem:     Priority: 1     Type: F     Verification Method: Test Source:     [RD-4] SR-TMDR-311300  EDDS-SR-00571     Delivery: EDDS 1.1     Need: Mandatory     Stability: Stable     Last Issued in: 8  The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording. Notes:     Subsystem:     Subsystem:     Priority: 2     Type: F     Verification Method: Test Source:     Product backlog User story#115  EDDS-SR-00572     Delivery: EDDS 1.1     Need: Mandatory     Stability: Stable     Last Issued in: 11     The EDDS full automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.     Subsystem:     Priority: 2     Type: F     Verification Method: Test Source:     Product backlog User story#115  EDDS-SR-00572     Delivery: EDDS 1.1     Need: Mandatory     Stability: Stable     Last Issued in: 11     The EDDS Shall allownatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota     usage for other users.     System:     Subsystem:     Priority: 2     Type: F     Verification Method: Test Source:     Product backlog User story#146  EDDS-SR-00573     Delivery: EDDS 1.3     Need: Mandatory     Stability: Stable     Last Issued in: 13     The EDDS Shall not request the entire	EDDS-SR-00	0570	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
Fast access text field (characters typed in here act as a filter, case insensitive, on the parameter ID field - the list display shall be dynamically updated to show matching parameters).     Filter button (provides filtering on parameter ID and description, independently or both - the list display shall be dynamically updated after applying the filter).     Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.)      Notes:     System:     Subsystem:     Priority:     Type:     Verification Method: Test Source:     [RD-4] SR-TMDR-311300      EDDS-SR-00571     Delivery:     EDDS 1.1     Need: Mandatory     Stability:     Stable     Subsystem:     Priority:     Type:     Verification Method: Test Source:     Product backlog User story#115      EDDS-SR-00572     Delivery:     EDDS 1.1     Need: Mandatory     Stability:     St	The EDDS sl	hall support a p	parameter name selection window. T	he selection window shall	have:				
natching parameters). • Filter button (provides filtering on parameter ID and description, independently or both - the list display shall be dynamically updated after applying the filter). • Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.). Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-4] SR-TMDR-311300 EDDS-SR-00571 Delivery: EDDS 1.1 Need: Mandatory Stability: Stable Last Issued in: 8 The EDDS Glent MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording. Notes: System: Subsystem: Priority: 2 Type: F Verification Method: Test Source: Product backlog User story#115 EDDS-SR-00572 Delivery: EDDS 1.1 Need: Mandatory Stability: Stable Last Issued in: 11 The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users. System: Subsystem: Priority: 2 Type: F Verification Method: Test Source: Product backlog User story#146 EDDS-SR-00573 Delivery: EDDS 1.3 Need: Mandatory Stability: Stable Last Issued in: 13 The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding softing every column. Notes: Subsystem: Priority: 2 Type: F Verification Method: Test Source: Product backlog User story#146 EDDS-SR-00573 Delivery: EDDS 1.3 Need: Mandatory Stability: Stable Last Issued in: 13 The EDDS Client MMI shall provide a well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility to softing every column. Notes: Subsystem: Priority: 2 Type: F Verification Method: Test Source: Product backlog User story#156, #226 EDDS-SR-00576 Delivery: EDDS 1.1 Need: Mandatory Stability: Stable Last Issued in: 18 The EDDS client MMI shall provide a veige	List display	with scroll bar	displaying parameter IDs and descri	otions.					
Filter button (provides filtering on parameter ID and description, independently or both - the list display shall be dynamically updated after applying the filter).     Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).  Notes: System: Subsystem: Priority: I Type: F Verification Method: Test Source: [RD-4] SR-TMOR-311300  EDDS-SR-00571 Delivery: EDDS 1.1 Need: Mandatory Stability: Stable Last Issued in: 8 The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording. Notes: System: Subsystem: Priority: 2 Type: F Verification Method: Test Source: Product backlog User story#115  EDDS-SR-00572 Delivery: EDDS 1.1 Need: Mandatory Stability: Stable Last Issued in: 11 The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users. Notes: System: Subsystem: Priority: 2 Type: F Verification Method: Test Source: Product backlog User story#146  EDDS-SR-00573 Delivery: EDDS 1.3 Need: Mandatory Stability: Stable Last Issued in: 13 The EDDS Client MMI stream display islam and received as part of the catalogue request shall be shown). The view also shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as with the file Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as with the folder is expanded by the catalogue request shall be shown). The view also shall provide the possibility to sorting every column. Notes: For the MMI view EDDS shall not request the entite catalogue upfront but only the entries required for the display level. The content of each fileded etable requested only when the folder is expanded by the user. System: Subsystem: Priority: 2 Type: F			racters typed in here act as a filter, c	ase insensitive, on the par	ameter ID field - the lis	st display shall be dynamically updated to show			
Totals field (display the total number of parameters and the total after filters applied, e.g. 92 of 459.).     Notes:     System:     Subsystem:     Priority:     Type:     Verification Method:     Test Source:     (RD-4) SR-TMDR-311300     EDDS-SR-00571     Delivery:     EDDS 1.1     Need: Mandatory     Stability:     Stable     Last Issued in: 8     The EDDS dient MMI stream display shall allow the streaming data to be recorded and stored within a file.     The user shall be able to start and stop the data     recording.     Notes:     System:     Subsystem:     Product backlog User story#115     EDDS-SR-00572     Delivery:     EDDS 1.1     Need: Mandatory     Stability:     Stable     Last Issued in: 11     The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view.     Administrators will be able to view the quota     usage for other users.     Subsystem:     Priority: 2     Type:     Verification Method:     Test     Source:     Product backlog User story#116     EDDS-SR-00572     Delivery:     EDDS 1.1     Need:     Mandatory     Stability:     Stable     Last Issued in: 11     The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view.     Administrators will be able to view the quota     usage for other users.     Subsystem:     Priority: 2     Type:     Verification Method:     Test     Source:     Product backlog User story#146     EDDS-SR-00573     Delivery:     EDDS 1.3     Need:     Mandatory     Stability:     Stable     Last Issued in: 13     The EDDS Client MMI shall provide a view to visualize the entire catalogue request shall be shown).     The view also shall provide the possibility to     sorting every column.     Mores:     Subsystem:     Product backlog User story#156     EDDS - Client MMI shall provide a view to visualize the entire catalogue request shall be shown).     The view also shall provide the possibility to     sorting every column.     Mores:     Subsystem:     Product backlog		,							
Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-4] SR-TMDR-311300       EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.         Notes:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       EDDS Stability: Stable       Last issued in: 11         The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.       Notes:         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       EDDS Shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.         Notes:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#146       EDDS Schoof73       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the achive catalogue request. The relevant information regarding each file shall be shally provide the possibi		u .	• • •			dynamically updated after applying the filter).			
System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         [RD-4] SR-TMDR-311300         Image: Stability: Stable         Last Issued in: 8           EDDS-SR-00571         Delivery: EDDS 1.1         Need: Mandatory         Stability: Stable         Last Issued in: 8           The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.           Notes:         System:         Subsystem:         Priority: 2         Type: F         Verification Method: Test           Source:         Product backlog User story#115         EDDS-Shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.         Notes:         System:         Subsystem:         Priority: 2         Type: F         Verification Method: Test           Source:         Product backlog User story#146         EDDS-SR-00573         Delivery: EDDS 1.3         Need: Mandatory         Stability: Stable         Last Issued in: 13           The EDDS client MI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility o sorting every colum.           Notes:<	I otals field	(display the tota	al number of parameters and the tota	al after filters applied, e.g. §	92 of 459.).				
System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         [RD-4] SR-TMDR-311300         Image: Stability: Stable         Last Issued in: 8           EDDS-SR-00571         Delivery: EDDS 1.1         Need: Mandatory         Stability: Stable         Last Issued in: 8           The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.         Source:         Subsystem:         Priority: 2         Type: F         Verification Method: Test           Source:         Product backlog User story#115         EDDS-Shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.         Notes:         System:         Subsystem:         Priority: 2         Type: F         Verification Method: Test           Source:         Product backlog User story#146         EDDS-SR-00573         Delivery: EDDS 1.3         Need: Mandatory         Stability: Stable         Last Issued in: 13           The EDDS client MI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility of sorting every colum.           Notes:         For the MMI view EDDS sha									
Source:       [RD-4] SR-TMDR-311300         EDDS-SR-00571       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 8         The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.         Notes:       Subsystem:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       Need: Mandatory       Stability: Stable       Last Issued in: 11         The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.       Notes:         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#146       EDDS-SR-00573       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility to sorting every column.			• • ·						
EDDS-SR-00571       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 8         The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.         Notes:       System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       Need: Mandatory       Stability: Stable       Last Issued in: 11         The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.       Notes:       System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#146       EDDS-SR-00573       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information received as part of the catalogue request shall be shown). The view also shall provide the possibility to sorting every column.         Notes:       For the MMI shall provide a view to visualize the entire catalogue upfront but only the entries required for the display level. Th			•	Priority: 1	Type: ⊦	Verification Method: Test			
The EDDS client MMI stream display shall allow the streaming data to be recorded and stored within a file. The user shall be able to start and stop the data recording.         Notes:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       EDDS-SR-00572       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 11         The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.       Notes:       System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test       Source:         Source:       Product backlog User story#146       EDDS-SR-00573       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility to sorting every column.         Notes:       For the MMI view EDDS shall not request the entire catalogue upfront but only the entries required for the display level. The content of each folder shall be requested only when the fol	Source:	[RD-4] SR-T	MDR-311300						
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Notes:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#115       EDDS-SR-0572       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 11         The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.       Notes:         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#146       EDDS-SR-00573       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility to sorting every colum.         Notes:       For the MMI view EDDS shall not request the entire catalogue upfront but only the entries required for the display level. The content of each folder shall be ended using users story#156, #926         EDDS-SR-00576       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS dient MMI shall provide a view to choose the type of request based on mission. For each mission, non-administrator users only have to see requests t		lient MMI strea	m display shall allow the streaming c	lata to be recorded and sto	bred within a file. The u	iser shall be able to start and stop the data			
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EDDS-SR-00572       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 11         The EDDS shall automatically update the quota management information within the EDDS Client MMI quota view. Administrators will be able to view the quota usage for other users.       Notes:       System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#146       EDDS-SR-00573       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility to sorting every column.         Notes:       For the MMI view EDDS shall not request the entire catalogue upfront but only the entries required for the display level. The content of each folder is expanded by the user.       System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#156, #926       EDDS-SR-00576       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 18         The EDDS client MMI shall provide a way to choose the type of request based on mission. For each mission, non-administrator users only have to see requests that they have access for that mission.		Product back		Thomy. 2					
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usage for other users.         Notes:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#146       EDDS-SR-00573       Delivery: EDDS 1.3       Need: Mandatory       Stability: Stable       Last Issued in: 13         The EDDS Client MMI shall provide a view to visualize the File Archive structure as provided by the archive catalogue request. The relevant information regarding each file shall be displayed as well (i.e. any information received as part of the catalogue request shall be shown). The view also shall provide the possibility to sorting every column.         Notes:       For the MMI view EDDS shall not request the entire catalogue upfront but only the entries required for the display level. The content of each folder is shall be requested only when the folder is expanded by the user.       System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#156, #926       Priority: 2       Type: F       Verification Method: Test         EDDS-SR-00576       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 18         The EDDS client MMI shall provide a way to choose the type of request based on mission. For each mission, non-administrator users only have to see requests that they have access for that mission.       Notes:       Last Issued in: 18									
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sorting every column.       Notes:       For the MMI view EDDS shall not request the entire catalogue upfront but only the entries required for the display level. The content of each folder shall be requested only when the folder is expanded by the user.         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#156, #926       EDDS-SR-00576       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 18         The EDDS client MMI shall provide a way to choose the type of request based on mission. For each mission, non-administrator users only have to see requests that they have access for that mission.       Notes:	The EDDS C	lient MMI shall	provide a view to visualize the File A	Archive structure as provide	ed by the archive catal	ogue request. The relevant information regarding			
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shall be requested only when the folder is expanded by the user.         System:       Subsystem:       Priority: 2       Type: F       Verification Method: Test         Source:       Product backlog User story#156, #926       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 18         EDDS-SR-00576       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 18         The EDDS client MMI shall provide a way to choose the type of request based on mission. For each mission, non-administrator users only have to see requests that they have access for that mission.       Notes:									
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EDDS-SR-00576       Delivery: EDDS 1.1       Need: Mandatory       Stability: Stable       Last Issued in: 18         The EDDS client MMI shall provide a way to choose the type of request based on mission. For each mission, non-administrator users only have to see requests that they have access for that mission.       Notes:		Product back	•						
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that they have access for that mission. Notes:									
System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test	Notes:								
	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			

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#### Source:

EDDS-SR-00	)574	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8				
	The EDDS client MMI shall provide an option to visualize the full request summary report within HTML format using a structure which is easy to read and inderstand (i.e. user friendly).								
Notes:									
System:		Subsystem:	Priority: 2	Type: F Ve	rification Method: Test				
Source:	Product back	Product backlog User story#157							

5.1.3.5 Stream

EDDS-SR-01	190	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12				
The EDDS sh	The EDDS shall provide a Stream Client application that provides basic functionality to read data from streams.								
Note: The application can be used as a template for users to develop specialised clients. JAVA shall be used in order to enhance the client's portability.eddsdswr#65									
Notes:	es:								
System:	:: Subsystem: Priority: 2 Type: F Verification Method: Test								
Source:	SWRR								

EDDS-SR-05	910	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12				
The streamR	The streamRID535 delivery mechanism shall support the following data types:								
TM Packet	• TM Packet data								
TC Packet of	lata								
• EV Packet of	lata (SCOS Ev	rent Logs)							
• TM Parame	ter data								
• OOL data									
Notes:									
System:	Subsystem:         Priority: 2         Type: F         Verification Method: Test								
Source:	SWRR								

EDDS-SR-05920	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 2			
The following modes of operation (based on the CCSDS Definition Cross Support Reference - Part 1 SLES [RD-15]) shall be supported by the stream client:							
• Online Timely.							
Online Complete.							

• Offline.

Note: The EDDS can only provide Online Complete if and only if the data transfer chain from the station to EDDS (via NIS and MCS) provide this service.RID521

Notes:							
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-05	i930	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12
DELETED					
Notes:					
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:	SWRR				

EDDS-SR-05940	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12
DELETED				
Notes:				
System:	Subsystem:	Priority: 2	Type: F	Verification Method: Test

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Source: SWRR

	60	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
Neter Roman bea	client shall sup	oport the streaming of data to user cl					
Note: It may be impossible to guarantee the quality of service without a dedicated network link, as any public Internet based connection (VPN or otherwise) implies that delays cannot be managed by the EDDS. RID552							
Notes:							
System:		Subsystem:	Priority: 2	Type: F V	erification Method: Test		
Source: [AD-41] EGGS-SR-FU-01300							
EDDS-SR-0116	61	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12		
The EDDS stream client shall support a mechanism for the streaming of data to a receiving application on the end user's workstation, using a long-polling HTTP(S) protocol.RID520. Note: The necessity of providing both mechanisms should be resolved in the design phase of the streaming client. RID534							
Notes:							
System:		Subsystem:	Priority: 2	Type: F V	erification Method: Test		
Source:							
EDDS-SR-0780	00	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12		
DELETED							
Notes:							
System:		Subsystem:	Priority: 2	Type: F V	erification Method: Test		
Source:							
EDDS-SR-0116	62	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12		
DELETED							
Notes:							
		Subsystem:	Priority: 2	Type: F V	erification Method: Test		
Notes:		Subsystem:	Priority: 2	Type: F V	erification Method: Test		
Notes: System: Source:							
Notes: System: Source: EDDS-SR-0766		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
Notes: System: Source: EDDS-SR-0766 Delta PDR phase			Need: Mandatory	Stability: Stable	Last Issued in: 2		
Notes: System: Source: EDDS-SR-0760 Delta PDR phase Notes:		Delivery:	Need: Mandatory able protocols for the imple	Stability: Stable mentation of streaming s	Last Issued in: 2 ervices. RID546		
Notes: System: Source: Control	se shall consi	Delivery:	Need: Mandatory	Stability: Stable mentation of streaming s	Last Issued in: 2		
Notes: System: Source: Control		Delivery:	Need: Mandatory able protocols for the imple	Stability: Stable mentation of streaming s	Last Issued in: 2 ervices. RID546		
Notes: System: Source: Control	se shall consi SWRR2	Delivery: ider the use of SOAP/WSDL as suita Subsystem:	Need: Mandatory able protocols for the imple Priority: 2	Stability: Stable mentation of streaming s Type: F V	Last Issued in: 2 ervices. RID546 erification Method: Test		
Notes: System: Source: Control	se shall consi SWRR2 70 xe reasons, th	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery:	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable	Last Issued in: 2 ervices. RID546		
Notes: System: Source: EDDS-SR-07-66 Delta PDR phas Notes: System: Source: S	se shall consi SWRR2 70 xe reasons, th	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery:	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2		
Notes: System: Source: EDDS-SR-07-66 Delta PDR phas Notes: System: Source: S	se shall consi SWRR2 70 xe reasons, th	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery:	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable         ary protocol over TCP/IP	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2		
Notes: System: Source:	se shall consi SWRR2 70 xe reasons, th	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery: e delta PDR phase shall consider th	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory e use of an EDDS propriet	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable         ary protocol over TCP/IP	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2         as suitable protocols for the implementation of		
Notes: System: Source: Stream services Notes: Notes: Notes: System: Source: System: System: Source: Source: System: Source: System: Source: System: Source: System: Source: System: Source: So	se shall consi SWRR2 70 xe reasons, th s. RID546	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery: e delta PDR phase shall consider th	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory e use of an EDDS propriet	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable         ary protocol over TCP/IP	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2         as suitable protocols for the implementation of		
Notes: System: Source: Stream services Notes: Notes: Notes: System: Source: System: System: Source: Source: System: Source: System: Source: System: Source: System: Source: System: Source: So	se shall consi SWRR2 70 xe reasons, th s. RID546 SWRR2	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery: e delta PDR phase shall consider th	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory e use of an EDDS propriet	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable         ary protocol over TCP/IP	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2         as suitable protocols for the implementation of		
Notes: System: Source:	se shall consi SWRR2 70 xe reasons, th s. RID546 SWRR2 80	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery: e delta PDR phase shall consider th Subsystem: Delivery:	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory e use of an EDDS propriet Priority: 2 Need: Mandatory	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable         ary protocol over TCP/IP         Type: F       V         Stability: Stable         Stability: Stable         Stability: Stable	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2         as suitable protocols for the implementation of         erification Method: Test		
Notes:     I       System:     I       Source:     I       EDDS-SR-07-60       Delta PDR phas       Notes:     I       Source:     I       EDDS-SR-07-60       For performances       Stream services       Notes:     I       System:     I       Source:     I       Source:     I       Source:     I       Due to possible	se shall consi SWRR2 70 xe reasons, th s. RID546 SWRR2 80	Delivery: ider the use of SOAP/WSDL as suita Subsystem: Delivery: e delta PDR phase shall consider th Subsystem: Delivery:	Need: Mandatory able protocols for the imple Priority: 2 Need: Mandatory e use of an EDDS propriet Priority: 2 Need: Mandatory	Stability: Stable         mentation of streaming s         Type: F       V         Stability: Stable         ary protocol over TCP/IP         Type: F       V         Stability: Stable         sure streams do not rem	Last Issued in: 2         ervices. RID546         erification Method: Test         Last Issued in: 2         as suitable protocols for the implementation of         erification Method: Test         Last Issued in: 2         Last Issued in: 2         erification Method: Test		

Source:	SWRR2
	5.1.3.6 Email

EDDS-SR-0	0856	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS s	shall be capable	of delivering acknowledgments to u	sers via email. RID542 RI	D544			
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:							
EDDS-SR-0	5950	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The Email de	elivery mechani	ism shall support the following data t	ypes: RID542 RID544				
Acknowled	Acknowledgment data.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-0	5951	Delivery: EDDS 1.1.0	Need: Mandatory	Stability: Stable	Last Issued in: 8		
EDDS shall	provide a mech	anism for transforming acknowledge	ement XML data into anoth	ner format via XSLT for	sending via e-mail. A sample XSLT file for		
converting to	o HTML shall be	e provided.					
Notes:			1				
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	Product back	klog User story#52					
			1				
EDDS-SR-0	5960	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 3		
Deleted							
Notes:		1	1		1		
System:	_	Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
		1	1				
EDDS-SR-0	5970	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 1		
The EDDS e	embedded ema	il client shall follow the RFC 2822 an	d MIME format conventior	าร.			
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
		1	1				
EDDS-SR-0	5980	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 13		
The EDDS e	embedded ema	il client shall use SMTP/SMTPs as it	s interface protocol to a m	ail transfer agent (MTA	N)		
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-0	7040	Delivery:	Need: Desirable	Stability: Stable	Last Issued in: 2		
		il client shall support the sending of e all be defined at the design phase).e		ils. It is TBD whether M	/IME encryption or other standard encryption (e.g.		
Notes:							
System:	-	Subsystem:	Priority: 2	Type: F	Verification Method: Test		

#### Source: SWRR

### 5.1.4 Services

This section details functional requirements that are specific to the operation of services that deliver data to the end user

5.1.4.1 General

EDDS-SR-05	5990	Delivery:	Need: Mandatory	Stability: Stabl	e Last Issued in: 1		
All successful deliveries of response data or acknowledgement data shall be logged following the conventions laid out in the EDDS EUICD [AD-39]. RID535							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	[RD-5] SR 3.1.650						

EDDS-SR-06	5000	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall temporarily store all requests (in their raw XML format), for a configurable period, on the EDDS server allowing administrator access.RID303							
Notes:	Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-06	010	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall allow an administrator to view or delete temporarily stored requests. RID303							
Notes:							
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test		
Source:	SWRR						

EDDS-SR-06011	Delivery: Sprint 4.5	Need: Mandatory	Stability: Stable	Last Issued in: 6
	o types of delete request actions, one ist update the values of the relevant fi			here the complete request must be deleted

Note: A normal user can only issue a delete of the response file and not of the request itself. **Notes:** 

System:		Subsystem: Priority: 1 Type: F		Type: F	Verification Method: Test	
	Source:					

EDDS-SR-06	6012	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9		
It shall be possible to configure the automatic removal of completed requests from the database. The time when the job is executed and how old the requests can be before they are deleted shall be configurable.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F Ve	erification Method: Test		
Source:	Product Backlog Item #18						
Source.		109 Itel 11 # 10					
Source.							

EDD3-3K-00	013	Delivery.	Neeu. Manualory	Stability. Stable	Lasus	Sueu III. 9	
It shall be possible to configure the automatic removal of EDDS logs from the database. The time when the job is executed and how old the logs can be before they are deleted shall be configurable.							
Notes:							
System:	ystem: Subsystem: Priority: 1 Type: F Verification Method		lethod: Test				
Source:	Product Back	klog Item #214					
EDDS-SR-06020 Delivery:		Delivery:	Need: Mandatory	Stability: Stable	Last Is	sued in: 4	
The EDDS shall allow an EDDS user to use a previous request as a template to build a new request. RID303							

This action shall be performed on the EDDS client and the template request shall be stored locally on the EDDS client filesystem.

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				

EDDS-SR-01880	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall provide a configuration flag to indicate if a data type is to be counted towards quota calculations.							
Note: This allows configurat	ion as to whether such data types as	catalogue data counts tow	ards a user/account quota.				
Notes:							
System:	System:         Priority: 1         Type: F         Verification Method: Test						
Source:							

EDDS-SR-01890	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
EDDS shall provide flag that states if size quota is either:								
• Raw.	• Raw.							
• Raw + headers.								
• formatted (e.g. after XFDU	J applied, compressed etc).							
Notes:								
System:	Subsystem:	Priority: 1	Type: F Ve	rification Method: Test				
Source:								

EDDS-SR-06	030	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6			
The EDDS sh	The EDDS shall be able to query an MCS for a list of available spacecraft databases.RID416 RID432							
Notes:								
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test			
Source:	SWRR							

EDDS-SR-01	920	Delivery:	Need: Mandatory	Stability: Stable	e Last Issued in: 1		
The EDDS shall maintain a log file, in which all requests, responses and errors are logged.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	[RD-5] SR 3.1.360						

EDDS-SR-01930	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall provide a mechanism to change the level of trace logging (providing a number of levels) from verbose to minimum.								
Notes:	PS:							
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:								

EDDS-SR-06	6070	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall use a message ID for each type of message logged.RID415							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-06080	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
DELETED				
Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test

Source:	SWRR						
				1			
EDDS-SR-06	6090	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS sl	hall maintain, a	t the minimum, the following informa	tion for requests in a log <u>fil</u>	e:RID414			
Completion	Status (Succe	ss, Failed, Cancelled etc).					
Time submi	itted.						
Time compl	leted.						
User who si	ubmitted the re	quest.					
Total quanti	ity of data (in B	yte) returned to the user.					
Reason for	failure (If reque	est failed).					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
		1					
EDDS-SR-06	6100	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS sl	hall provide a r	nechanism to download XML schem	as that describe EDDS rec	quest formats via the E	DDS web server.RID430		
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	-					
EDDS-SR-06	6110	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS sl types.RID430	e EDDS shall provide a mechanism to download, via the EDDS web server, XML schemas and stylesheets that describe the formats used for data bes.RID430						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-06	6120	Delivery:	Need: Desirable	Stability: Stable	Last Issued in: 1		
					give a backwards compatibility mode that allows st format is XML based and defined in the GDDID		
Notes:							
System:	,	Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	-					
EDDS-SR-07	7730	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS sl	hall provide a r	nechanism to allow users to view, or	download, documentation	and example code us	e of EDDS Web Service interfaces. RID531		
Notes:				· ·			
System:	1	Subsystem:	Priority: 1	Type: O	Verification Method: Test		
Source:	SWRR2	-					
EDDS-SR-07	7830	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
The EDDS sl	hall minimise th	he transfer of data across the OPS_L	AN firewall (also according	g to EDDS-SR-02640)	.RID500		
	The EDDS shall minimise the transfer of data across the OPS_LAN firewall (also according to EDDS-SR-02640).RID500 If inbound traffic can not be avoided, the number of inbound ports needs to be stated explicitly in the CIG. An exact specification of the traffic flowing on the inbound port as required by ESA security policy ([RD-15]) must be given in the documentation.						
The total nu	imber of ports	(inbound and outbound) that need to	be opened in the firewall r	need to be explicitly sta	ated in the CIG.		
Note: Optima	ally, MCS data	should only be transferred once to su	upport all requests for that	data.			
Notes:							
System:	1	Subsystem:	Priority: 1	Type: PE	Verification Method: Test		

### Source: SWRR2

EDDS-SR-078	331	Delivery: EDDS 1.3	Need: Mandatory	Stability: Stable	Last Issued in: 10		
EDDS shall allow the user, as part of the EDDS request, to add (to the default naming convention) a specific string to the requested response file name (as a suffix, prefix or both). This extension of the response file name can be a combination of static and dynamic information. The following attributes can contribute to the dynamic part:							
<ul> <li>request creat</li> </ul>	tion time;						
<ul> <li>request exec</li> </ul>	ution time;						
<ul> <li>request start</li> </ul>	time (time win	dow of the request filter);					
<ul> <li>request end</li> </ul>	time (time win	dow of the request filter);					
<ul> <li>request com</li> </ul>	pletion date;						
<ul> <li>file part number</li> </ul>	per;						
• domain;							
<ul> <li>EDDS mission</li> </ul>	on;						
<ul> <li>EDDS respo</li> </ul>	nse file check	sum;					
EDDS reque	st type;						
EDDS request sub type.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F Ve	erification Method: Test		
Source:	Product back	log User story#120					

## 5.1.4.2 Stream Services

EDDS-SR-01165	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
The EDDS shall provide a r	The EDDS shall provide a means for an Administrator to monitor the status of all stream services. Status data shall include:							
Current Bit Rate.								
• User.								
Account.								
<ul> <li>Service Type.</li> </ul>								
• Data Type.								
Notes:								
System:	Subsystem:	Priority: 2	Type: F Veri	fication Method: Test				
Source:								

EDDS-SR-01166	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 8				
The EDDS shall provide a	The EDDS shall provide a means for an Administrator to manage any currently active stream service, including the following:							
Cancel (Stops the service	).							
Notes:	Notes:							
System:         Priority: 2         Type: F         Verification Method: Test			ification Method: Test					
Source:								

EDDS-SR-01	180	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
A request for a non-display stream service shall indicate the data type and stream service type.								
Notes:								
System:		Subsystem:	Priority: 2	Type: F Ve	rification Method: Test			
Source:								

## 5.1.4.3 Batch Services

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-01550	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1			
The response from the Batch service shall be a status file and zero or more data files.								
Notes:								
System:	Subsystem:	Priority: 1	Type: F	Verif	ication Method: Test			
Source:								

EDDS-SR-01	560	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4		
The Batch service status file shall be in XML format and will indicate a summary of the associated request (request ID and time of processing) and whether the request was successful or not (providing a reason if unsuccessful - failure ID and plain text).							
Notes:	Notes:						
System: Subsystem:		Subsystem:	Priority: 1	Type: F V	erification Method: Test		

Source:	[RD-4] SR-TMDR-330700	
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EDDS-SR-01570	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The Batch service status file shall reference any data files that have been generated in response to the request.							
Notes:							
System:	Subsystem:	Priority: 1	Type: F Ve	rification Method: Test			
Source:							
EDDS-SR-01580	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The data files created by the Batch service shall be in the format requested by the corresponding request.							
Notes:	Notes:						

Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:				

EDDS-SR-01	590	Delivery:	Need: Mandatory	Stability: Stab	e Last Issued in: 1		
A Batch service request from a user shall constitute one or more data types together with a set of filters to be applied to each data type.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	e: [RD-5] SR 3.1.220						

EDDS-SR-01	610	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4			
A Batch Service request shall contain the following:								
Data type	Data type							
• Filters (conta	aining filters su	pported by the data type).						
Data delivery	y mechanism.							
Acknowledge	ement delivery	/ mechanism (if different from data de	elivery mechanism)					
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Courses								

Source:		[RD-4] SR-TMDR-201700	
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EDDS-SR-01	620	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
For 'File Server' delivery the user can select either the role's default file server address or a file server address from the user's profile.							
Notes:	Notes:						
System: Subsystem: Priority: 1 Type: F		Type: F V	erification Method: Test				
Source:	Source:						
EDDS-SR-01630		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		

For users with the 'schedule	' privilege the EDDS shall allow the $\iota$	user to schedule a Batch se	ervice request.	

Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	[RD-4] SR-T	MDR-201300				
	[RD-4] SR-T	MDR-201400				
	[RD-4] SR-T	MDR-311600				
	[RD-4] SR-TMDR-311700					
	[RD-4] SR-TMDR-311800					
	[RD-5] SR 3.	1.380				

EDDS-SR-06	6130	Delivery: Sprint 1 of EDDS 1.1	Need: Mandatory	Stability: Stable		Last Issued in: 7		
The EDDS shall allow users to register for delivery of new files as they are stored in the File Archive (FARC subscription). The user cannot modify the such type of requests. These types of requests should be restored even if any EDDS component or FARC component crashes.								
Notes:	Notes:							
System:		Subsystem:	Priority: 2	Type: F	Verif	ication Method: Test		
Source:								
EDDS-SR-06	6131	Delivery: Sprint 1 of EDDS 1.1	Need: Mandatory	Stability: Stable		Last Issued in: 7		
delivered to t	The EDDS shall allow the user to specify and end date for each file standing request (subscription). All data response files for each standing request are to be delivered to the same target destination (and delivery type). The request will remain active until either the specified time is reached, the request is cancelled/deleted or the file has been removed from FARC.							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verif	ication Method: Test		
Source:								
EDDS-SR-01	1670	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 2		
The EDDS sl Files data typ		he MCS supports the service, the abi	ility to use a match criteria,	including wild cardsR	ID377,	in the Data request service for Archived		
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verif	ication Method: Test		
Source:	[RD-3] Secti	on 3.3.4.1						
EDDS-SR-01	1780	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1		
If a request fa	If a request fails because of a size quota, the user shall be able to elect (within the original request) whether to discard or receive the data already collected.							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verif	ication Method: Test		

Source:

EDDS-SR-01	782	Delivery: Sprint #1 of EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 7		
The EDDS shall allow the mission configuration to define the retry strategy to get the data from the data archives which is to be applied to a request. The following option shall be available:							
- No retries							
- A configurat	ole number of r	etries with a configurable delta time b	between them				
	In case the EDDS server crashes the counters will be reset to zero and the retrial attempt resumed. The EDDS shall ensure that the data retrieval is not blocked by the retrial mechanism (i.e. the thread processing the retrial shall be freed once an attempt to retrieve the data fails).						
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test		
Source:				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
EDDS-SR-06140         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1					Last Issued in: 1		
If requested the EDDS shall be able to deliver result files to the EDDS server (i.e. the files will be stored on the server waiting for a user to download them).							

	EGOS-GEN	I-EDDS-SRS-1001		Software	REQUIREMENTS SPECIFICATION (SRS)
Netes					
Notes:		Cubayatama	Deienitus 4	Trees	Verification Method. Test
System:	014/DD	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	01781	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS :	shall store resul		r for a configurable period, after which		RID323 RID337
Notes:				-	
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR			1	
		1		1	
EDDS-SR-0	06150	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS :	shall provide a f	acility to allow a user to do	ownload stored result files from the EI	DDS server.RID323 R	ID337
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
				1	
EDDS-SR-0	06160	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS	shall allow a use	er to delete a stored result	t file without downloading it. RID337		
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	06170	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS :	shall allow a use	er to select that a stored re	esult file is automatically deleted after	a successful downloa	d. RID337
Notes:		1		1	
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	16190	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
			without deletion of the file after down		
Notes:		er to download a result nie		idadilig. Rib557	
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR	oubsystem.	Thomy.		Vernication Method. Test
Jource.	JWIN				
EDDS-SR-0	06190	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS :	shall implement		eme that will delete older result files if	a configurable disk qu	lota is reached. RID337
Notes:		· · ·			
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR	· · ·			
EDDS-SR-0	06200	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
Access to st	tored result files	shall be governed by the	privacy tags assigned to result files.R	RID323	
Notes:					

System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				

EDDS-SR-06210 Delivery:		Need: Mandatory	Stability: Stable	Last Issued in: 1				
Completion of a request that stores a file on the server shall be considered successful when the result file has been successfully stored. RID323								
Notes:								
System:	Subsystem:	Priority: 1	Type: F V	erification Method: Test				

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SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Source: SWRR

EDDS-SR-01	1300	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
			RID481 lists in a form that gives an	-	
		•	ID-1 'or' APID-2 'or' APID-n)		ity to the listed values.
(0.9. 0					
Notes:					
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:	SWRR				
EDDS-SR-06		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
	ter selection m	echanism shall allow the	user to use a filter to include or exclu	ude data based on eac	h data attribute. RID481 RID408
Notes:					
System:	04/00	Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:	SWRR				
EDDS-SR-01	1400	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
			d to mean 'match all' where appropr		
Notes:					
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:					
		1			1
EDDS-SR-01	1410	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
			wild-card matching to appropriate da		
			matching e.g. P* matches any string		
			atch "P123" with any two following ch		
The combina	tion of regular	expressions using e.g. AN	ID/OR statements shall be possible.	.eddsdswr#96	
Notes:					
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:		oussystem.			
0001001					
EDDS-SR-02	2300	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
The EDDS sl	hall provide a r	nechanism to divide a req	uest into time slices when requestin	g data from a data arch	nive, if such an implementation is required to
	tisation of requ	iests.			
Notes:		Orthouston	Detector 4	Trans DE	Marthand Tast
System:		Subsystem:	Priority: 1	Type: PE	Verification Method: Test
Source:					
EDDS-SR-02	2301	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 13
EDDS shall b	be able to reco	ver pending SUBMITTED	· · · · ·		
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	Product bac	klog User story#901			

# 5.1.4.4 Request Management Services

EDDS-SR-00900	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
The EDDS shall use XML based requests with namespaces.					
	0.0010.00.40	75/440			
VERSION: 18	3.0 - 2018-02-16	75/119	© COPYRIGHT EL	JROPEAN SPACE AGENCY 2018	

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					

EDDS-SR-00880		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
Requests from users that do not follow the convention or format in the EUICD shall be rejected, and logged. The originator of the request shall be informed of the rejection.							
Notes:							
System:	m: Subsystem: Priority: 1 Ty		Type: O	Verification Method: Test			
Source:	[RD-4] SR-TI	MDR-200590					
EDDS-SR-06230		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
Requests sh	all be mission a	nd domain specific.					

Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-06	240	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall provide a request client that is accessible through the EDDS web site.								
Notes:								
System:		Subsystem:	Priority: 1	Type: O V	erification Method: Test			
Source:	SWRR							

EDDS-SR-06	250	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS request client shall allow users to create requests and reload previous requests for editing.									
Notes:									
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test				
Source:	SWRR								

EDDS-SR-06260 De		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS request client shall provide an interface that allows requests to be created or edited to the full potential of the XML request specification.								
Notes:								
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test			
Source:	SWRR							

EDDS-SR-06	270	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS request client shall provide an interface that provides a quick and simple means to create or edit common types of requests.								
Notes:								
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test			
Source:	SWRR							

EDDS-SR-01	740	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS request client shall allow a user to change the name of a stored batch service request or overwrite an old batch service request.								
Notes:								
System:		Subsystem:	Priority: 1	Type: O	/erification Method: Test			
Source:	SWRR							

EDDS-SR-01760	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6			
The EDDS request client shall allow a user to delete stored batch service requests.							
Notes:							
System:	Subsystem:	Priority: 1	Type: O	Verification Method: Test			

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### Source:

[RD-4] SR-TMDR-311120

EDDS-SR-0	1730	Delivery:	Need: Mandatory	Stability: Stab	e Last	Issued in: 1	
The EDDS re	he EDDS request client shall allow the user the option to store a request (this is the raw XML requestRID412) on the EDDS server.						
Notes:							
System:		Subsystem:	Priority: 1	Type: O	Verificatio	n Method: Test	
Source:	RD-4] SR-TM	/IDR-200300					
	[RD-4] SR-TI	MDR-200480					
	[RD-4] SR-TMDR-311050						
	[RD-4] SR-TI	MDR-200520					

EDDS-SR-01	750	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS request client shall allow the user to reload a previously stored request.								
Notes:								
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test			
Source:	[RD-4] SR-T	[RD-4] SR-TMDR-200480						

EDDS-SR-06	6280	Delivery:	Need: Mandatory	Stability: Stable	E Last Issued in: 1		
The EDDS shall allow a user to assign a privacy tag to the stored request. RID348 RID381							
Notes:							
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test		
Source:	SWRR						

EDDS-SR-01	EDDS-SR-01770 Delivery:		Need: Mandatory	Stability: Stab	e Last Issued in: 1			
The EDDS sl	The EDDS shall ensure that stored requests are only accessible within the scope applied by the privacy tag. ID348 RID381							
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test			
Source:	[RD-4] SR-TMDR-311100							

EDDS-SR-06290		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
Within a reque	Within a request the EDDS shall allow a user to specify any delivery mechanism that is supported by the data type.RID480							
Notes:								
System:		Subsystem:	Priority: 1	Type: O V	erification Method: Test			
Source:	SWRR							

EDDS-SR-00	970	Delivery:	Need: Mandatory	Stability: Stabl	e Last Issued in: 1			
The EDDS shall support requests for multiple sets of data types. (i.e. more than one data object ID can be requested)								
Notes:								
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test			
Source:	[RD-5] SR 3.	1.200						

EDDS-SR-00	980	Delivery:	Need: Mandatory	Stability: Stable	E Last Issued in: 1			
The EDDS shall allow one or more filters to be applied to each data type within a data request.								
Notes:								
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test			
Source:	[RD-5] SR 3.	1.060						

SOFTWARE REQUIREMENTS SPECIFICATION (SI	RS)
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EDDS-SR-010	)10	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The validity of	a request sha	-			I
		in unauthorised user.			
2. Any of the u	ser's quotas a	are exceeded (Including F	RDM overflow).		
3. There is an	error in forma	tting the response.			
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-4] SR-T	MDR-200540			
EDDS-SR-005		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS sha	all provide full	syntactic checks of requ	ests before a request is placed on a r	request queue.RID444	
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					
			· · · · · · · · · · · · · · · · · · ·		
EDDS-SR-018		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
	all provide a r	equest queue, per missio	n, for requests that are ready for proc	cessing, or are being pr	ocessed.
Notes:		Orthornations	Detector 4	<b>T</b>	
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					
EDDS-SR-018	210	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
		all be a persistent data o		Clabinty. Clabic	
Notes:			5,000.		
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					
EDDS-SR-018	320	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6
With respect to	o request que	ues the EDDS shall provi	ide the following options on start-up o	of the EDDS server:	
Visualize the	requests in th	ne queue.			
Load (re-subi	mit) a request	from the queue.			
Create new e	empty request	S.			
Notes:		1			
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-4] SR-T	MDR-312000			
EDDS-SR-018		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
	all provide a n	nechanism to manage re	quest queues.		
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					
		Delivery	Need Mendeter	Ctability: Ctable	
EDDS-SR-018		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9
Ine EDDS sha     Suspend (onl	•	-	equest management operations on a	request.	
Suspend (onl     Resume .	iy vallu i Ul aCl				
			s types that support the split of respo	inco filco	

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Notes:		A resume operation will continue from the last delivered data (i.e. the data delivered before the request was suspended or failed). In case the EDDS server is re-started the resume operation will be called to all not completed requests.						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	Product Bac	klog Item #180 and #242.			· ·			
		-						
EDDS-SR-01	1850	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6			
The EDDS sh	hall provide op	erations on requests within	an request queue. At least the follo	owing operations sha	all be available:			
Cancel (Car	ncel a request	that is currently being proc	essed or remove from active queue	e without dispatch).				
Notes:		1						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	[RD-4] SR-T	MDR-311800						
EDDS-SR-01	1851	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6			
The EDDS sh	hall provide op	erations on requests within	an request queue. At least the follo	owing operations sha	all be available:			
Pause a req	quest (Will not	be dispatched until resume	ed).					
Resume.Rll	D274							
Change Price	ority.							
Notes:								
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test			
Source:			· · · · ·		· ·			
EDDS-SR-01	860	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sh	hall dispatch re	equests from request queue	es with regard to the associated use	er's priority. The algo	rithm for prioritisation shall be agreed with ESA			
during the de	sign phase. R	ID530.						
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								
EDDS-SR-01	1870	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sh	hall maintain th	ne status of requests on rec	quest queues. At a minimum the fol	lowing states should	be used:			
• Ready.								
Active (Disp	atched to MC	S).						
• Paused.								
Deleting.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								
EDDS-SR-00	)575	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS sh	hall perform se	emantic checks on a reques	st before dispatching the request to	a data archive or M	CS. (e.g. that the start time is before an end time).			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								
	1							
EDDS-SR-01	640	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
			(that has been stored on the EDDS	1 -				
Notes:								
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	[RD-5] SR 3	•	i nonty. I	- Jpc.				
oource.	ר אס נכ-סאון ו							

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EDDS-SR-01	1650	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS sl	The EDDS shall support the following attributes for single shot scheduled requests:							
Request to	Request to be scheduled (Saved on server)							
• Time (Abso	lute future time	or relative to current time)						
	-							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test			
Source:	[RD-4] SR-T	MDR-201350						
		1	1					
EDDS-SR-01	1660	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS sl	hall support the	e following additional attributes for rep	eating scheduled requests	:				
Repeat time	e - which can b	e one of						
1. Time relati	ve to first activa	ation.						
2. Date+Time	e in daily forma	t;						
specific wee	ek day list (e.g.	Monday + Thursdays) .						
3. Date+Time	e in a weekly fo	ormat;						
Every N we	eks on M,T,W	etc.						
4. Date+Time	e in a monthly f	format;						
Every N mo	onths on day x.							
• Every 1st, 2	2nd etc of every	N months.						
• Every M,T,V	N etc of every	N months.						
5. Data to be	monitored and	I that a standing request is issues for	(the request will be activat	ed on data modificatior	• ,			
• End Point -	End Point - which can be one of;							
1. Time + Da	1. Time + Date.							
Number of I	Number of repetitions.RID384							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test			

**Source:** [RD-4] SR-TMDR-201450

EDDS-SR-01	661	Delivery:	Need: Mandatory	Stability: Stable	Exact Issued in: 5		
The EDDS shall allow the user to have dynamic data retrieval dates for each instance of schedule requests so that each scheduled request instance executes a different data retrieval request.							
		y the delta between the execution t retrieval time frame in start time an			top time of the data retrieval itself. It shall also be me).		
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
	edds#231						
Source:	edds#231						
Source:	edds#231						
Source: EDDS-SR-01		Delivery: Sprint 4 Post PA	Need: Mandatory	Stability: Stable	Last Issued in: 6		

Note. The date format shall suit be supported along with the DOT.									
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				

 EDDS-SR-01663
 Delivery: Sprint 4 Post PA
 Need: Mandatory
 Stability: Stable
 Last Issued in: 6

 EDDS shall allow the user to visualize the time distribution of any requests before submitting it. This visualization shall include information regarding the number of request instances, their execution time and the retrieval time range for each request.
 Image: Comparison of the number of the number

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					

EDDS-SR-06300 De		Delivery:	Need: Mandatory Stability: Stable		ble Last Issued in: 3				
Any client application able to interface with EDDS through SMF shall be able to schedule one-off or recurring EDDS requests.									
Notes:									
System:		Subsystem:	Priority: 1	Type: I	Verification Method: Test				
Source:	SWRR								

EDDS-SR-06	310	Delivery:	Need: Desirable	Stability: Stable	Last Issued in: 3		
Deleted							
Notes:							
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-06	6320	Delivery:	Need: Desirable	Stability: Stable	Last Issued in: 3			
Deleted								
Notes:								
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test			
Source:	SWRR							

EDDS-SR-063	330	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 3		
The EDDS shall provide an SMF interface to allow the scheduling of requests by any SMF client.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-06	EDDS-SR-06340 Delivery:			Stability: Stable	Last Issued in: 1			
The EDDS shall allow a user, with suitable privilege, to delete one execution instance of a recurring scheduled request. RID360 RID379								
Notes:								
System: Subsystem:		Priority: 1	Type: F	/erification Method: Test				
Source:	SWRR							

EDDS-SR-06350 Delivery:		Need: Mandatory	Stability: Stab	e Last Issued in: 1					
The EDDS shall allow a user, with suitable privilege, to delete the entire recurring scheduled request.RID360 RID379									
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:	SWRR								

EDDS-SR-06	6360	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6			
DELETED								
Notes:								
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test			
Source:	SWRR							

EDDS-SR-01680	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS request management service shall support status reports that give an overview of the following:							
Request queue (with status of each request).							
Scheduled requests.							
				<b>a b b b b b b b b b b</b>			

Notes:							
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:							

EDDS-SR-01681		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12		
The EDDS Client MMI shall provide a mechanism to allow the filtering and sorting of every column in the job list (i.e. request list, Request Summary View). The filtering shall be kept even if the sorting is changed in the meantime. Additionally a clear filter mechanism shall be provided.							
Notes:	Filtering shall be performed on the client side for the cached entries when the filter is initially applied or by the back end when refresh is requested by the user.						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:							

EDDS-SR-07	710	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
An administrator or manager with the privilege to perform a 'Change Priority' operation can change a request's priority to a value equal or lower than the priority allocated to the administrator or manager.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test		
Source:	SWRR2						

EDDS-SR-08050	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS shall ensure that in the event of a system failure (e.g. crash) that requests that were being executed, but not completed, are reprocessed when the							
evetom is restarted and that	any quoued requests are also proce	nt after the evetom rectart	This means that both EDDS	Client and Server shall be able to restore			

System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Notes:								
to the state prior to the crash.eddsdswr#67								
system is restarted and that any queued requests are also present after the system restart. This means that both EDDS Client and Server shall be able to restore								

-,	<b>,</b>
Source:	

EDDS-SR-08	051	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5			
The EDDS shall ensure that in the event of a System failure (e.g. crash) that any request which was scheduled to be executed while the system was down is executed when the system is restarted. In case of multiple request originating from a "parent" request (scheduled requests) only one of these request shall be executed (as the others would be redundant).								
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								

EDDS-SR-08100	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
EDDS shall inform the User when a request fails due to the fact that the data is not available on the data archive (e.g. a non existing parameter is requested). Also EDDS shall periodically monitor the status of all requests and ensure the user is informed if any request exceeds an acceptable time for delivery (no action should however be taken by EDDS apart from alerting the User).eddsdswr#102						
Notes: System: Subsystem: Price		Priority: 1	Type: F Ver	ification Method: Test		
System: Source:	Subsystem.	Thomy.				

EDDS-SR-08110		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
For standing or schedule requests EDDS shall notify the User via the acknowledge mechanism for each instance of the request (i.e. multiple times).eddsdswr#104								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	erification Method: Test			
Source:								

# 5.1.4.5 Status Monitoring Services

EDDS-SR-06370	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
The EDDS shall provide a n updated.	nechanism through an EDDS Client	application that allows a su	bset of EDDS generated re	ports to be displayed and dynamically

Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR	·		· · · · · ·		
EDDS-SR-06	6380	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
The following	g reports shall b	be available for dynamic display: RID	431			
Services av	ailability status	report.				
• MCS conne	ectivity status re	eport.				
• RDM conne	ectivity status re	eport.				
• User quota	usage status re	eport.				
Brief reques	sts summary re	eport.				
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
			1			
EDDS-SR-06	6390	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
The EDDS s	hall provide a n	nechanism through an EDDS Client	application that allows a pr	ivileged user to view s	tem log reports. RID403	
Notes:		1				
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
			1			
EDDS-SR-06	6700	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
		neans to filter system log reports with	n any combination of the fo	llowing:		
message ty	/pe (e.g. warnin	ng, error).				
A string give	en by the user.					
Notes:						
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
EDDS-SR-03		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
The EDDS sl		simple mechanism to place an EDDS	s general status page on th	e EDDS web site that	nly relies on the web server be	ing
Notes:						
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR		· ·····			
EDDS-SR-03	3290	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
		age shall be used to indicate planne	d (or non-planned) outages		s a whole. RID431	
Notes:				•		
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
	5.1.4.6	Account Management	Services			
EDDS-SR-00	0010	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	

The EDDS shall use a role and privilege based user account system.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-06	710	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 2			
	The EDDS shall use the EGOS Session Management core component [[RD-29] and [RD-30]] RID529 to manage roles and privileges. RID392 The SMF session Management functionality shall not be used by EDDS.eddsdswr#13								
Notes:	Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test			
Source:	SWRR								
				1					
EDDS-SR-06	720	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 2			
		OS Session Management core comp be applied.RID392	conent [[RD-29] and [RD-3	30]] RID529 to define	a user':	s session in regard to their role and			
Notes:									
System:		Subsystem:	Priority: 1	Type: F Ver		cation Method: Test			
Source:	SWRR								
				1					
EDDS-SR-00	210	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 10			
need only be		, for a given user, to take affect acros				e. passwords and other global user data AP server to populate the User information			
Notes:	Deployment	of multi master and/or slave setup sh	all be supported.						
System:		Subsystem:	Priority: 1	Type: F	Verifi	cation Method: Test			
Source:									
				1					
EDDS-SR-00	211	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 11			
The EDDS sh	nall allow for E	DDS users to be added that are authors	enticated against a separa	te LDAP installation n	ot mana	aged by EDDS.			
Notes:	Users will be	continued to check for authorised us	e of EDDS services again	st their user entry in th	e EDD	S LDAP database.			

System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:								

EDDS-SR-06730 Del		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
A user shall be able to login to a single account profile.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-06731	Delivery: Sprint #1 of EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 7				
EDDS shall allow to EDDS web server	EDDS shall allow to define the number of incorrect login attempts after which a user account is suspended. The number of attempts must be configurable at EDDS web server level and apply to all users of a mission. The counter shall be reset once a valid login is performed by the user. Only the mission admin/system admin/and authorized users can unlock a suspended account. When the user is re-enabled the counter shall be reset.							
Notes:								
System:	stem: Subsystem: Priority: 1 Type: F Verification Method: Test							
Source:								

EDDS-SR-06740		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall allow a suitably privileged user to update a set of Personal Attributes within their own account profile.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

84/119

EDDS-SR-0	0110	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
A user accou	unt profile shal	I have at least the following	Personal Attributes:		
• Name.					
<ul> <li>Description</li> </ul>					
Contact De	tails.				
Password.					
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-3] Sec	ion 3.4.2			
EDDS-SR-0	6750	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
		contain at least the following	g attributes:		
<ul> <li>Email addre</li> </ul>					
	-	ess (HTTPS web server).			
Postal addr					
<ul> <li>Telephone</li> </ul>	number.				
Notes:					
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
	C7C0	Deliverne	Needs Mendeters	Ctability Ctable	Lest leaved in 4
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
	hall allow a us	er to create a configurable	number of contact details.		
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	6770	Delivera	Need: Mandatory	<b>Stability</b> Stable	Lest looused in 1
		Delivery:		Stability: Stable	Last Issued in: 1
	Ication the EL	כטי snail ensure that a use	er selects a role which the session sl	naii run unuer.KID452	
Notes:		0	Duin it t	<b></b>	
System:	04/55	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	2700	Dolivona	Nord-Mandator	Stability: Stable	Last Issued in: 1
		Delivery:	Need: Mandatory	Janing: Stable	
		user to select different foles	s without the need to login again.		
Notes:		Suboustan	Drievity 4	Time	Varification Mathedu Test
System:	04/22	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
	6700	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9
EDDS-SR.0		Delivery.	i tood. Manualory	otability. Otable	Last issued in. 9
EDDS-SR-00		um the following attributor			
A role shall h	ave, at minim	um, the following attributes			
	ave, at minim ble).	um, the following attributes			

- Operations Set.
- Data Access set.
- Quota set.
- Service Access Set.
- Priority.

Notes:								
System:		Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test		
Source:	SWRR and I	Product Backlog Item #191						
EDDS-SR-06	6800	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1		
It shall be pos	ssible to manip	ulate a role via its name (for exam	ple assign a role by name,	suspend a role by nar	ne, etc).			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test		
Source:	SWRR							
		1				1		
EDDS-SR-06	6810	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1		
The EDDS sh account profil	, , , ,	ration at a mission level, use the ro	ble's Default Contact Detail	s if no appropriate con	ntact info	rmation has been defined in the user's		
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test		
Source:	SWRR							
		1						
EDDS-SR-06	6820	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1		
The EDDS st	hall allow a use	er an option to select the use of the	e role's default contact infor	mation when making a	a reques	t.		
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test		
Source:	SWRR							
		1				1		
EDDS-SR-06	6830	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 2		
	It shall be possible to allocate a name and description to an Operations Set and allow an Operations Set to be manipulated via its name (to delete an operation by name, assign an operation set by name, etc).							
Notes:								
System:	-	Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test		
Source:	SWRR	SWRR						

EDDS-SR-06	840	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
An Operation	s Set shall pro	vide the means to grant the privilege	for a user to perform (or no	ot perform) any of the f	ollowing operations:		
Create User	Account.						
Delete User	Account.						
Update Use	r Account.						
Update Use	r Personal Attr	ibutes.					
<ul> <li>Suspend Us</li> </ul>	er Account.						
Resume Use	er Account						
Create Grou	ıp.						
Delete Grou	p.						
Update Grou	up.						
<ul> <li>Assign Grou</li> </ul>	ıp (to a role).						
Create Role	•						
Delete Role.							
Update Role	Э.						
<ul> <li>Suspend Ro</li> </ul>	ole.						
Resume Ro	le.						
Update Role	e Default Conta	act Details.					
Create Oper	rations Set.						
Delete Oper	ations Set.						
Update Ope	rations Set.						
• Assign an O	perations Set	(to a role).					
Create Serv	ice Access Se	t.					
<ul> <li>Delete Servi</li> </ul>	ce Access Set						
Update Serv	vice Access Se	et.					
<ul> <li>Assign a Se</li> </ul>	rvice Access S	Set (to a role).					
Create Data	Access Set.						
Delete Data	Access Set.						
Update Data	a Access Set.						
• Assign a Da	ta Access Set	(to a role).					
Create Quot	a Set.						
Delete Quot	a Set.						
Update Quo	ta Set.						
• Assign a Qu	iota Set (to a ro	ble).					
Schedule re	quest.						
Change que	eued request.						
Store Reque	est (on the EDI	DS server).					
<ul> <li>Store resport</li> </ul>	nse (on the ED	DS server).					
<ul> <li>Edit Reques</li> </ul>	Edit Request (stored on EDDS server).						
View Log Fil	• View Log File.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
	SWRR	oubsystem.	i nonty.	i ypc. i			
Source:	SWKK						

EDDS-SR-06841	Delivery: Sprint 1 of EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 7					
Only users which have an admin role (EDDS admin or Mission admin) or a role with User management privileges shall have visibility of the User profile information									
of the other users. All other	users shall have access only to their	own user profile.							
Notes:	Notes:								
System:	Subsystem:	Priority: 1	Type: F Ve	ification Method: Test					
Source:									

	EGOS-GEN-EDDS-SRS-1001			SOFTWARE REQUIREMENTS SPECIFICATION (SRS)		
EDDS-SR-06	6842	Delivery: Sprint 1 of EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 7	
It shall be possible to observe the latest information within the User Management view in the EDDS client. This can be achieved either via a refresh button or via an automatic refresh upon any changes.						
Notes:		1	1			
System:	I	Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:						
EDDS-SR-06	6850	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
A service acc	ess set shall d	efine a list of EDDS services that are	permitted to be used.			
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
EDDS-SR-06	6860	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
	ssible to allocat	e a name and description to a servic	e access set and allow a s	ervice access set to b	e manipulated via its name.	
Notes:						
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
	070	Dellarma	Need Mendeley	Quality Otable		
EDDS-SR-06		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
	Iccess set shall	define a list of data objects that are	accessible.			
Notes:		Orthousetown	Dutanita 4	<b>T</b>	Marifford and Mathead Trail	
System:	0.4/22	Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
EDDS-SR-06	200	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12	
It shall be pos	ssible to allocat		access set and allow a data		nipulated via its name. A data access set shall	
Notes:						
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					
	1 -					
EDDS-SR-00	0130	Delivery:	Need: Desirable	Stability: Stable	Last Issued in: 1	
		ure time driven access privileges to c reservation period the default privile		basis. (i.e. data can on	ly be accessed by privileged users during the	
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	

**Source:** [RD-5] SR 3.1.440

EDDS-SR-00	140	Delivery:	Need: Desiral	Need: Desirable Stability: Stable Last Issued in: 1		Last Issued in: 1			
It shall be possible to configure time driven access privileges to data on an expiry time basis (i.e. data older than a given time period is not available for access). RID265									
Notes:									
System:		Subsystem:	Priority: 1		Type: F	Veri	fication Method: Test		
Source:	[RD-5] SR 3.1.450								

EDDS-SR-06	6890	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5			
A Quota Set s	A Quota Set shall define the quota limits that apply to the user.							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-06	5900	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
It shall be possible to allocate a name and description to a quota access set and allow a quota access set to be manipulated via its name (for example assign a quota set by name, update a quota set by referring to it's name, etc).								
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
		1						
EDDS-SR-00	0015	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11			
A Quota Set	shall allow at le	east the following quotas to be applied	d to a role.					
Maximum n	umber of reque	ests per request period.						
Maximum o	of data (based o	on data response file size) retrieved p	er request period.					
Maximum n	umber of ongo	ing requests.						
• Maximum v	olume (disk sp	ace) used for saved result data (store	ed on EDDS server).					
TM data SF	PID restrictions	(based on a range of SPIDs)						
TM data AF	PID restrictions	(based on a range of APIDs)						
Parameter	name restrictio	ns (allowing wildcards)						
• File name re	estrictions (allo	wing wildcards)						
File type res	strictions (allow	ing wildcards)						
Data reques	st range restric	tions (allowed time windows)						
Data reques	Data request range duration restriction (maximal allowed request duration)							
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	Product Bac	klog Item #159 and #231						

EDDS-SR-06	910	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
For each object that can be created through a 'create' operation the EDDS shall provide a configurable mechanism to limit the total number of objects that can be created as a whole in the EDDS.									
Notes:									
System: Subsystem:		Priority: 1	Type: F Verif	fication Method: Test					
Source:	SWRR								

EDDS-SR-06	920	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
For each user granted 'create' operation privileges the EDDS shall provide a configurable mechanism to limit the number of each object type that can be created by that user.									
(e.g. It will be	(e.g. It will be possible to limit the number of user accounts that can be created by a user granted account creation privileges.)								
Notes:									
System: Subsystem: Priority: 1 Type: F V			rification Method: Test						
Source:	SWRR								

EDDS-SR-06	930	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
For each user granted 'create' or 'update' operation privileges on access sets, the EDDS shall ensure that any sets created can only contain a subset of the user's own access rights.								
(i.e. a user ca	in only grant ac	ccess rights to data and services that	they have access to them:	selves).				
Notes:								
System: Subsystem: Priority: 1			Priority: 1	Type: F Verif	ication Method: Test			
Source:	SWRR							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-06	DS-SR-06940 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1						
For each user granted quota set 'create' or 'update' operation privileges the EDDS shall ensure that any quota sets created can only contain a sub set of the user's own quota.							
(i.e. a user can only share quota to other users).							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	·					
EDDS-SR-06	6950	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
A role shall ha	ave the followi	ng attributes:					
Name of rol	e.						
Description	of role.						
Operations	Set.						
Service Acc	ess Set.						
Data Type A	Access Set.						
Quota Acce	ss set.						
<ul> <li>Priority</li> </ul>							
Neteo							
Notes:		Orthouston	Dutantita d	<b>T</b>	Marthan Marthau Tari		
System:	014/00	Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-06	<b>5960</b>	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS st	hall associate a	a priority to a user which will be used					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR		· · · • · · · · · · · · · · · · · · ·				
	0						
EDDS-SR-06	6980	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2		
The priority a	ssigned to a us	ser will depend on the role that user is	s running a session under.				
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	· · · ·					
EDDS-SR-06	6990	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
An administra	ator or manage	er can only assign a priority to a role t	hat is equal or less than pri	ority governed by their	own role.		
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
		1	1	1			
EDDS-SR-07	7000	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
It shall be pos	ssible, for a sui	tably privileged user, to suspend use	r accounts, whereby the us	ser cannot login.			
Notes:		1	1				
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-07		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
	ssible to suspe	nd all user accounts associated to a	group in one operation.				
Notes:		• • · · · · · · · · · · · · · · · · · ·					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
	VERSION: 18	.0 - 2018-02-16	90/119	©COPYRIC	GHT EUROPEAN SPACE AGENCY 2018		

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Source: SWRR

EDDS-SR-07	7020	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
It shall be po	nall be possible, for a suitably privileged user, to suspend a role, whereby the user cannot run a session under that role.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-07	7030	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS s	hall allow users	s to be placed into a group.					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-0	0040	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The Maximu	m number of u	sers that can be grouped, when	associated to a role, is bound	ed by the 'Maximum nun	nber of users' quota.		
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-0	0046	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
				l the access rights sets, p	priority or quotas, of any role created or updated,		
	ond any limits a	applied to the user by their own i	role.				
Notes:							
System:	011/00	Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-0	0050	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
		dministrator the ability to do the f		Jability. Stable			
		•	-	assword which shall be s	stored in an encrypted format).eddsdswr#24		
	•	lser cannot login to EDDS).					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	oubsystem.		Турс. 1			
Jource.	JUNK						
EDDS-SR-00	0055	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
		pecialised user account - EDDS	· · ·				
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR	oubsystem.		Турс. 1			
oource.	OWNER						
EDDS-SR-07	7050	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
		ill have super privilege and be a	1				
Notes:	, .			, <u> </u>			
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR		<b>,</b>	- 71			
5001.001	onnat						
EDDS-SR-07	7060	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
		specialised role - Mission Admin					

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	7070	Delivery:	Need: Mandatory	Stability: Stabl	le Last Issued in: 1
The EDDS a	administrator sh	all be the only user who ca	in create Mission Administrators.		
Notes:					
System:	-	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
			•••••		
EDDS-SR-0		Delivery:	• the following on an account admi	Stability: Stabl	1
Disable or Notes: System:	enable services	s (User can 'login' to EDDS Subsystem:	account but can only use a restric	ted set of services).	Verification Method: Test
Source:					
EDDS-SR-0	0120	Delivery:	Need: Mandatory	Stability: Stabl	le Last Issued in: 1
The EDDS :	shall ensure tha	t only encrypted password	s are stored if it is necessary to sto	ore a password.	
Notes:					
System:		Subsystem:	Priority: 1	Type: F Verification Method: Test	
Source:					
				1	
EDDS-SR-0	7080	Delivery:	Need: Mandatory	Stability: Stabl	le Last Issued in: 8
The EDDS s	shall enforce the	e use of a 'strong' password	d.		
By strong pa	assword at leas	t the following requirements	s shall be applied:		
<ul> <li>The minim</li> </ul>	um password le	ength shall be 8 characters.			
<ul> <li>It shall be a</li> </ul>	case-sensitive a	and it shall contain both upp	per and lower case letters.		
<ul> <li>It shall include</li> </ul>	ude at least one	e numerical character.			
<ul> <li>It shall include</li> </ul>	ude at least one	e special character.			
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	7090	Delivery:	Need: Mandatory	Stability: Stabl	le Last Issued in: 9
enable/disal login. The pa	ole the passwor	d expiration settings). For r tion period shall be reset ev	newly created/set passwords it sha	all be possible to for	DS Admin/mission admin has the capability to ce the user to change the password upon the first fmin can set how many passwords in the past must
Notes:	The passwo	rd expiry policy can be app	lied to all the users in a group.		
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	Product Bac	klog Item #190			

EDD2-2K-0/	100	Delivery:	Need: Mandatory	Stability: Stable					
The EDDS shall allow an administrator or manager role to force the expiration of a password for each individual user or as a group.									
Notes:	Notes:								
System: Subsystem:		Subsystem:	Priority: 1	Type: F	/erification Method: Test				
Source:	SWRR								

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-0	080	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The quota se	ta set shall be applied across all users within a role.							
Notes:								
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:		•						
EDDS-SR-0	0150	Delivery: User story #87 in EDDS 1.1.0 Sprint 3	Need: Mandatory	Stability: Stable	Last Issued in: 8			
		be possible to specify that no quota ts (i.e. no quota field is mandatory)		s no restrictions for the	given quota). It shall be possible to select only a			
Notes:		1						
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	[RD-5] SR 3.	1.490						
EDDS-SR-00		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
	applied to a role	shall be allocated on a first-come-	first served basis for users	associated with the ro	e.			
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:								
EDDS-SR-0	1225	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
		ser revert back to the Account Man	,					
Notes:		Ser revent back to the Account Ivian	lager if the user is removed					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:		Subsystem.			Vernication Method. Test			
EDDS-SR-00	0230	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The quotas a	allocated to an a	account revert back to the Account	Administrator when an ac	count is deleted.	· · · · · · · · · · · · · · · · · · ·			
Notes:								
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:					1			
EDDS-SR-07	7110	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS s	hall provide a n	nechanism to mark data types as p	public i.e. no restriction to a	ccess for any user.				
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
EDDS-SR-07	7120	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
By default da	ta shall not be	public but only accessible via data	access sets RID492					
Notes:								
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test			
Source:	SWRR							
		<b>.</b>						
EDDS-SR-07		Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 4			
		ate level ESA profile (e.g. ESA e-m ssword.RID527	all address), the EDDS sha	all not allow the modific	ation of the data managed at the corporate level,			
Notes:								
System:	1	Subsystem:	Priority: 3	Type: F	Verification Method: Test			
Source:	SWRR2			.,,				
Jou. 00.	0							

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-08	010	Delivery:	Need: Mandatory	Stability: TBC	Last Issued in: 2				
An EDDS Us	An EDDS User shall have a mechanism via the MMI to change its own password.eddsdswr#24								
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:									

# 5.2 Performance and Budget Requirements

EDDS-SR-0	1960	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
Activation of displays shall be within 10 seconds. Activation time is the time span between the initially call-up by the remote user and the appearance of the display with all the static information.									
Note: This applies to ESA controlled networks. It is acknowledged that public Internet connections may vary.									
Notes:	Notes:								
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test				
Source:	[RD-6] R-WE	B-0230							
				1					
EDDS-SR-07	1970	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The refresh r	ate for displays	shall match or out perform the refre	sh rates achieved by SCO	S-2000 release 5 clier	ts.RID382				
Notes:									
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test				
Source:	[RD-6] R-WE	B-0231							
EDDS-SR-0 <sup>2</sup>	1980	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
		n of an MCS display and the refresh mowledged that public Internet conn		display shall not exce	ed 30 seconds. RID382 Note: This applies to ESA				
Notes:									
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test				
Source:	[RD-6] R-WE	EB-0232 SWRR							
EDDS-SR-02	2030	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4				
The EDDS s	hould be capab	le of streaming packet data at a rate	e of 40kbs for non-science	data.RID347					
Note: The ab	ility to actually	deliver the specified throughput will a	depend on sufficient bandw	vidth being available.R	ID554				
Notes:									
System:	-	Subsystem:	Priority: 2	Type: F	Verification Method: Test				
Source:	[RD-4] SR-T	MDR-330100							
EDDS-SR-02	2031	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4				
The EDDS s	hould be capab	le of streaming packet data at a rate	e of 10 Mbs for science da	ta.RID347					
Note: The ab	ility to actually	deliver the specified throughput will a	depend on sufficient bandw	vidth being available.R	ID554				
				-					
Notes:									
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test				
Source:	SWRR	-							
EDDS-SR-02	2036	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4				
The EDDS s	hall support up	to 10 domains concurrently.							
Notes:		-							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				

Source:

EDDS-SR-02	2037	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall support the efficient retrieval of parameter data based on sample generation time.									
Notes:									
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:									

EDDS-SR-07	DS-SR-07130 Delivery: Need: Mandatory Stability: Stable		Last Issued in: 1					
For each mis	or each mission supported by the EDDS, the EDDS shall be able to support, at minimum, requests from 40 users in parallel. RID474							
Notes:								
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test			
Source:	[RD-4] SR-TI	MDR-200460						
	[RD-4] SR-TI	MDR-201500						
	[RD-4] SR-TMDR-201520							
	SWRR							

EDDS-SR-07131	Delivery: Sprint 5	Need: Mandatory	Stability: Stable	Last Issued in: 6
DELETED				
Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:				

EDDS-SR-07	<b>'150</b>	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
	For each mission supported by the EDDS, the EDDS shall be able to support, at minimum, requests from 25 users in parallel from any combination of the ESA External Service Networks or Non-ESA Networks for services providing TC packet data type.RID535 RID474									
Notes:										
System: Subsystem: Priority: 1 Type: F Veri				/erification Method: Test						
Source:	SWRR									

EDDS-SR-07	/160	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
For each mission supported by the EDDS, the EDDS shall be able to support, at minimum, requests from 4 users in parallel from any network for services providing TC packet data type. RID474									
Notes:									
System: Subsystem:		Priority: 1	Type: F V	erification Method: Test					
Source:	SWRR								

EDDS-SR-07	170	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
	For each mission supported by the EDDS, the EDDS shall be able to support, at minimum, requests from 10 users in parallel from any network for services providing TM parameter data type. RID474									
Notes:										
System: Subsystem: Priority: 1		Priority: 1	Type: F	/erification Method: Test						
Source:	SWRR									

EDDS-SR-07	180	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
	For each mission supported by the EDDS, the EDDS shall be able to support, at minimum, requests from 10 users in parallel from any combination of the ESA Restricted Networks or ESA Internal Service Networks for Stream delivery (in particular parameter data for MUST clients). RID474								
Notes:									
System: Subsystem:		Subsystem:	Priority: 2	Type: F Ver	ification Method: Test				
Source:	SWRR								

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

	7400	Delivera	Need Mondoton (	Ctobility Ctoble	Last laguad in 2
EDDS-SR-07		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
		or Non-ESA Networks for Stream de			
Notes:					,
System:	1	Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:	SWRR	•			
EDDS-SR-07	7200	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
For each mis	sion supported	by the EDDS, the EDDS shall be al	ole to support, at minimum	, requests from 20 use	ers in parallel from any network for services
providing Arc	chived Files dat	a type. RID474		-	
Notes:			1		
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-07	7210	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
For each mis services. RID		l by the EDDS, the EDDS shall be al	ole to support, at minimum	, requests from 6 user	s in parallel from any network for Display delivery
Notes:					
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	SWRR	· · ·			
EDDS-SR-07	7220	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
For each use	er request the E	DDS shall be able to provide TBD p	ackets per second for a st	ream service. RID474	
Notes:					
System:	-	Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:	SWRR				
		1			
EDDS-SR-07	7230	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
		DDS shall be able to provide a file c til the file is available on the web ser		thin 5 seconds for a ba	atch service. This is measured from the start of a
Notes:					
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
oouroor	onnar				
EDDS-SR-07	7240	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9
For each use	er the EDDS sh	•			on ESA Restricted Networks and ESA Internal
	vorks RID474			,	
(This is to su	pport MUST cli	ents)			
Notes:					
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SW/PP and I	Product Backlog Item #222			Vermedien method. Test
Jource.					
EDDS-SR-07	7250	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 9
			,		nd from a dedicated parameter archive.
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR and I	Product Backlog Item #222	. nony		
	C.T. Calu				
EDDS-SR-07	7260	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4

For each user request the EDDS shall be able to support the generation of 500 TM parameter samples per second from an MCS parameter archive.

	EGOS-GEN-EDDS-SRS-1001 SOFTWARE REQUIREMENTS SPECIFICATION (SRS)				
Neteo					
Notes: System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:	SWRR	Subsystem.	Thomy. 2	Туре. 1	Vernication metriod. Test
EDDS-SR-0	02020	Delivery:	Need: Mandatory	Stability: Stable	e Last Issued in: 8
Note: This a			port a transfer rate of up to 500 TM knowledged that public Internet co	•	s per second.
Notes: System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:		MDR-330100	Flionity. 2	Type. T	Vernication Method. Test
oource.					
EDDS-SR-0	)7270	Delivery:	Need: Mandatory	Stability: Stable	e Last Issued in: 1
Formatting of	of data shall not	add more than 10% to the	e delivery time, exempting TAR or	COMPRESSION op	erations. RID474
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	
	ad of using TAR	or COMPRESSION withi	n the EDDS shall be comparable t	o their usage on the	same platform, external from EDDS.
Notes:					
System:	014/88	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	07280	Delivery:	Need: Mandatory	Stability: Stable	e Last Issued in: 1
The EDDS s	shall provide an		quest within 2 seconds for web bas	1 5	
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	
second.RID		t the time between receivi	ng a user's data request and the tir	me that the request is	s entered onto the request queue is less than 1
Notes:		O. I	Dute is a	<b>T</b>	
System:	CW/DD	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0	07300	Delivery:	Need: Mandatory	Stability: Stable	e Last Issued in: 1
The EDDS :		t once a request on the re	,	-	CS, the release of that request to the MCS shall take
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-0		Delivery:	Need: Mandatory	Stability: Stable	
the boundar		t data ready for delivery to e EDDS.RID486	the end user (i.e. after any necess	sary formatting has b	een completed) shall take less than 1 second to reach
Notoe:					

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-07	320	Delivery:	Need: Mandatory	Stability: Stable Last Issued in: 6			
Services supporting streamed historical data (for MUST clients in particular) shall be capable of returning result data without waiting on completion of the query by the server.							
Notes:							
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test		
Source:	SWRR						
EDDS-SR-07	330	Delivery: Need: Mandatory Stability: Stable Last Issued in: 6		Last Issued in: 6			
The first data for streamed historical data services shall be dispatched to the user within 5 seconds of the request being made to the MCS.							
Notes:							

System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:	SWRR				

EDDS-SR-07	/340	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
	If acknowledgement of a request is specified by a user the acknowledgment shall take less than 2 seconds to be dispatched from the EDDS server to the user, upon being placed on a request queue.									
Notes:										
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test					
Source:	SWRR									

EDDS-SR-07	360	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
A request shall take less than 5 seconds to stop processing after a cancel operation is performed on the request.									
Notes:	es:								
System: Subsystem: Priority: 1		Priority: 1	Type: F	/erification Method: Test					
Source:	SWRR								

EDDS-SR-07	7370	Delivery:	livery: Need: Mandatory Stability: Stable Last Issued in: 2		Last Issued in: 2				
The 'File Server' and 'EDDS Server' delivery mechanisms, as a whole, shall be capable of delivering 20 mbits/second eddsdswr#111 of data to end users.									
Notes:	Notes:								
System:         Subsystem:         Priority: 2         Type: F         Verification Method: Test									
Source:	SWRR								

EDDS-SR-07380		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS sh	The EDDS shall be capable of storing 20 mbits/second eddsdswr#111 of response data to the EDDS server.							
Notes:								
System:	System: Subsystem: Priority: 2 Type: F Verification Method: Test				Verification Method: Test			
Source:	SWRR							

EDDS-SR-05570		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The Mission /	The Mission Administrator shall be able to change the default calibration value on any set of parameter samples maintaining the same performance.							
Notes:								
System:	Subsystem:         Priority: 2         Type: F         Verification Method: Test							
Source:	SWRR							

# 5.3 Interface Requirements

EDDS-SR-020	40	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
Requests from users, and responses to users shall follow the conventions and formats as described in the EDDS EUICD.								
Notes:								
System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test								

Source:

EDDS:SR-02041         Delivery:         Need: Mandatory         Stability: Stable         Last issued in: 2           Te design fails the be compliant with the ESA Security Policy specified by [RD-16].         Notes:         Verification Method: Design           System:         Subsystem:         Priority: 1         Type: F         Verification Method: Design           BODS:SR-02042         Delivery:         Need: Mandatory         Stability: Stable         Last issued in: 2           All components: shall be designed such that they access any 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design shall encapsulate al 3rd Party Product through an interface layer. Also the design of the Super						
Notes:         System:         Subsystem:         Priority: 1         Type: F         Verification Method: Design           Source:         EDDS-SR-020/2         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           All components shall be designed such that they access any 3xd Party Product through an interface layer. Also the design shall encapsulate all 3rd Party Products into declared components.         Stability: Stable         Last Issued in: 2           Notes:         System:         Priority: 1         Type: F         Verification Method: Design           Source:         EDDS-SR-02070         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           RD463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux.         Notes:         System:         Stability: Stable         Last Issued in: 2           System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         SWRR         EDDS-SR-02000         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1           RD453 The EDDS shall support Big Endan data transfer to external systems.         Notes:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           System:						Last Issued in: 2
System:     Subsystem:     Priority: 1     Type: F     Verification Method: Design       Source:     EDDS:SR-02042     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 2       At components shall be designed such that they access any 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Also the design shall encapaulate al 3rd Party Product through an interface layer. Type: F     Verification Method: Design Stability: Stable     Last Issued in: 2       BDDS-SR-02060     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1       RID43 The EDDS and Jaupport Big Endan data transfer to external system:     Priority: 1     Type: F     Verification Method: Test       Source:     SWRR     EDDS-SR-0210     Delivery:     Need: Mandatory     Stability: Stable <td></td> <td>shall be compl</td> <td>iant with the ESA Security</td> <td>Policy specified by [RD-14] and [RI</td> <td>D-15].</td> <td></td>		shall be compl	iant with the ESA Security	Policy specified by [RD-14] and [RI	D-15].	
Source:         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           At components shall be designed such that they access any 3rd Party Product through an interface layer. Also the design shall encapsulate all 3rd Party Products in dedicated components.         Notes:         Subsystem:         Priority: 1         Type: F         Verification Method: Design           Source:         Bob SR-02070         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           BDDS SR-02070         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           RD403 The EDDS shall be able to interface to data archives of MCS systems turning on Sul Solaris and INTEL IBM PC compatible Linux.         Notes:           System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         SWRR         EDDS-SR-0210         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1           RID463 The EDDS shall support Big Endan data transfer to external systems.         Verification Method: Test         Source:           System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test           Source:         SWRR         EDDS schware shall be designed to interface to the SMF. RID468         Notes:         Source						
EDDS-SR-2042         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2           At components.         Notes:	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Design
All components shall be designed such that they access any 3rd Party Product through an interface layer. Also the design shall encapsulate all 3rd Party Products into dedicated components. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Design EDDS-SR-02070 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 RID463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02080 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 RID463 The EDDS shall be able to interface to data archive or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02080 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 RID463 The EDDS shall support Big End an data transfer to external systems. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02100 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 The EDDS software shall be designed to interface to the SMF. RID468 Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0300 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS shall be able to support mult-mission and multi domain environments Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-1001 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS Shall use TOPIP as the underlying protocol for Stream Based services. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] S-R-F-U-1300	Source:					
All components shall be designed such that they access any 3rd Party Product through an interface layer. Also the design shall encapsulate all 3rd Party Products into dedicated components. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Design EDDS-SR-02070 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 RID463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02080 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 RID463 The EDDS shall be able to interface to data archive or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02080 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 RID463 The EDDS shall support Big End an data transfer to external systems. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02100 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 The EDDS software shall be designed to interface to the SMF. RID468 Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0300 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS shall be able to support mult-mission and multi domain environments Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-1001 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS Shall use TOPIP as the underlying protocol for Stream Based services. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] R-WEB-0310 [RD-6] S-R-F-U-1300		2042	Delivery	Need: Mondaton	Stability Stable	Last logued in 2
Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Design Source:  EDDS-SR-02070 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02070 Delivery: Need: Mandatory Stability: Stable Linux: Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-02080 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 RID463 The EDDS shall support Big Endian data transfer to external systems. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: SWRR EDDS-SR-0210 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 RID463 The EDDS shall support Big Endian data transfer to external systems. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test System: Subsystem: Priority: 1 Type: F Verification Method: Test System: Subsystem: Priority: 1 Type: F Verification Method: Test System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0300 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 2 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02120 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130			•		-	
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Design         Source:       EDD3-SR-02070       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         RD463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux.       Notes:				ess any 510 Party Product through a	an intenace layer. Also	The design shall encapsulate all sid Party Products
Source:       Image: Contract of the state	Notes:					
EDDS-SR-02070     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 2       RD463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux.     Notes:       System:     Subsystem:     Priority: 1     Type: F     Verification Method: Test       Source:     SWRR     Stability: Stable     Last Issued in: 1       EDDS-SR-02060     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1       RID463 The EDDS shall support Big Endian data transfer to external systems.     Notes:     System:     Subsystem:     Priority: 1     Type: F     Verification Method: Test       Source:     SWRR     Subsystem:     Priority: 1     Type: F     Verification Method: Test       Source:     SWRR     Subsystem:     Priority: 1     Type: F     Verification Method: Test       Source:     SWRR     Subsystem:     Priority: 1     Type: F     Verification Method: Test       Source:     [RD-6] R-WEB-0300     EDDS-SR-02120     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 2       EDDS-SR-02120     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 2     EDDS-SR-02120       EDDS-SR-02130     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Design
RID463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux.         Notes:         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-02080       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         RID463 The EDDS shall support Big Endian data transfer to external systems.       Notes:	Source:					
RID463 The EDDS shall be able to interface to data archives or MCS systems running on Sun Solaris and INTEL IBM PC compatible Linux.         Notes:         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-02080       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         RID463 The EDDS shall support Big Endian data transfer to external systems.       Notes:						
Notes:       Subsystem:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-02080       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         RID463 The EDDS shall support Big Endian data transfer to external systems.       Notes:       Support Big Endian data transfer to external systems.         Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-02110       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       Sustem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:       Sustem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable	EDDS-SR-0	2070	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-02080       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         RID463 The EDDS shall support Big Endian data transfer to external systems.       Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       EDDS-SR-02110       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-Shot2120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:	RID463 The	EDDS shall b	e able to interface to data a	archives or MCS systems running o	on Sun Solaris and INT	EL IBM PC compatible Linux.
Source:       SWRR         EDDS-SR-02080       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         RD463 The EDDS shall support Big Endian data transfer to external systems.       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR       Subsystem:       Priority: 1       Type: F       Verification Method: Test         EDDS-SR-02100       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDDS SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Support Fig. 1       Type: F       Verification Method: Test	Notes:					
EDDS-SR-02080     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1       RID4G3 The EDDS shall support Big Endian data transfer to external systems.     Notes:	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
RID463 The EDDS shall support Big Endian data transfer to external systems.         Notes:         System:       Subsystem:         Source:       SWR         EDDS-SR-02110       Delivery:       Need: Mandatony       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       EDDS-SR-02120       Delivery:       Need: Mandatony       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDD-SR-02130       Delivery:       Need: Mandatony       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Suspestem:       Priority:	Source:	SWRR				
RID463 The EDDS shall support Big Endian data transfer to external systems.         Notes:         System:       Subsystem:         Source:       SWR         EDDS-SR-02110       Delivery:       Need: Mandatony       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       EDDS-SR-02120       Delivery:       Need: Mandatony       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDD-SR-02130       Delivery:       Need: Mandatony       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Suspestem:       Priority:						
Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR         EDDS-SR-02110       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-SR-02130       Delivery:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDDS-SR-02130       Last Issued in: 1       EDDS-SR-02130         EDDS-Shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [IRD-6] R-W	EDDS-SR-0	2080	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       SWRR         EDDS-SR-02110       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:       Sustem:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       Edivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:       Sustem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         System:       Su	RID463 The	EDDS shall s	upport Big Endian data trai	nsfer to external systems.		
Source:       SWRR         EDDS-SR-02110       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468	Notes:					
EDDS-SR-02110       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         The EDDS software shall be designed to interface to the SMF. RID468       Notes:	System:	-	Subsystem:	Priority: 1	Type: F	Verification Method: Test
The EDDS software shall be designed to interface to the SMF. RID468 Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test CDS-SR-02120 Delivery: Need: Mandatory Last Issued in: 2 DDS shall be able to support multi-mission and multi domain environments Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-1001 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130 Delivery: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-1001 EDDS-SR-02130 Delivery: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300	Source:	SWRR				
The EDDS software shall be designed to interface to the SMF. RID468 Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test CDS-SR-02120 Delivery: Need: Mandatory Last Issued in: 2 DDS shall be able to support multi-mission and multi domain environments Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-1001 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1 EDDS-SR-02130 Delivery: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-1001 EDDS-SR-02130 Delivery: Priority: 1 Type: F Verification Method: Test Source: [RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300						
Notes:       Subsystem:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS-shall be able to support multi-mission and multi domain environments       Notes:       Stability: Stable       Last Issued in: 2         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       EDDS-SR-02170       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS-shall user TCP/IP as the underlying protocol for Stream Baservices.       Notes:       Stability: Stable       Last Issued in: 1         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [IRD-6] R-WEB-0310       [IRD-6] R-WEB-0310       Image: Stability: Stable       Last Issued in: 1         Source:       [IRD-6] R-WEB-0310       [IRD-41] EGS-SR-FU-01300       Stability: Stable       Verification Method: Test	EDDS-SR-0	2110	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-0300       Image: Stability: Stable       Last Issued in: 2         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:	The EDDS s	oftware shall	be designed to interface to	the SMF. RID468		
Source:       [RD-6] R-WEB-0300         EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:	Notes:		1			
EDDS-SR-02120       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 2         EDDS shall be able to support multi-mission and multi domain environments       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       Red: Mandatory       Stability: Stable       Last Issued in: 1         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [IRD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300       Image: F       Verification Method: Test	System:	_	Subsystem:	Priority: 1	Type: F	Verification Method: Test
EDDS shall be able to support multi-mission and multi domain environments         Notes:         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300       Image: F       Verification Method: Test	Source:	[RD-6] R-W	/EB-0300			
EDDS shall be able to support multi-mission and multi domain environments         Notes:         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300       Image: F       Verification Method: Test			1			I
Notes:       Subsystem:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       Image: Comparison of the com	EDDS-SR-0	2120	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [RD-6] R-WEB-1001       Image: RD-6] R-WEB-1001       Image: RD-6] R-WEB-1001       Image: RD-6] R-WEB-1001         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.         Notes:         System:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:         [[RD-6] R-WEB-0310       [RD-3] Section 3.1       Image: RD-41] EGS-SR-FU-01300       Image: RD-41] EGS-SR-FU-01300	EDDS shall	be able to sup	port multi-mission and mul	ti domain environments		
Source:       [RD-6] R-WEB-1001         EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300       Image: Comparison of the section of the	Notes:					
EDDS-SR-02130       Delivery:       Need: Mandatory       Stability: Stable       Last Issued in: 1         EDDS shall use TCP/IP as the underlying protocol for Stream Based services.       Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300       Image: Comparison of the section of the	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
EDDS shall use TCP/IP as the underlying protocol for Stream Based services. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test I[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300	Source:	[RD-6] R-W	/EB-1001			
EDDS shall use TCP/IP as the underlying protocol for Stream Based services. Notes: System: Subsystem: Priority: 1 Type: F Verification Method: Test I[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300			1			
Notes:       Subsystem:       Priority: 1       Type: F       Verification Method: Test         Source:       [[RD-6] R-WEB-0310       [RD-3] Section 3.1       [AD-41] EGGS-SR-FU-01300       Image: Constraint of the section of the sectio	EDDS-SR-0	2130	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
System:       Priority: 1       Type: F       Verification Method: Test         Source:       [[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300       Image: Comparison of the section of the s	EDDS shall	use TCP/IP as	s the underlying protocol fo	r Stream Based services.		
Source: [[RD-6] R-WEB-0310 [RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300	Notes:					
[RD-3] Section 3.1 [AD-41] EGGS-SR-FU-01300	System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
[AD-41] EGGS-SR-FU-01300	Source:	[[RD-6] R-V	VEB-0310			
		[RD-3] Sec	tion 3.1			
EDDS-SR-02140     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1		[AD-41] EG	GS-SR-FU-01300			
EDDS-SR-02140     Delivery:     Need: Mandatory     Stability: Stable     Last Issued in: 1						
EDDS-SR-02140 Delivery: Need: Mandatory Stability: Stable Last Issued in: 1						
	EDDS-SR-0	2140	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1

EDDS shall provide software interfaces for access that are described in a standard interface definition language.

Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-6] R-WE	EB-0311			
		1			I
EDDS-SR-02	2150	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The impleme	entation of interf	aces shall be language and platfo	orm independent.		
Notes:		1			
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-6] R-WE	B-0312			
EDDS-SR-02		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 5
	to the EDDS w	eb server shall support HTTP and	d HTTPS protocols.RID476		
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-6] R-WE	B-0313			
EDDS-SR-02	0170	Dolivoru	Nood: Mandatan	Stability: Stable	Last Issued in: 1
	-	Delivery:	Need: Mandatory	Stability: Stable	Last issued in: 1
Notes:		the "online timely" mode for upda	ung EDDS Glenis With real-ti	IIIE Uala. NID404	
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	[RD-6] R-WE			Type. 1	Venication method. Test
Jource.		-0-0510			
EDDS-SR-0	7390	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
		all ensure that no data is discarde			
Notes:					0
System:	1	Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-02	2190	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS s	erver shall use	the "online complete" mode for up	odating EDDS clients with his	storical data.	
Notes:		1			
System:	1	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	[RD-6] R-WE	B-0318			
EDDS-SR-02		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
super-comm		ride an event driven client update. ters or if a client has a GRD or scr		ed each time a TM para	ameter is calculated. This mode will be used for
Notes:					
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	[RD-6] R-WE	EB-0319			
EDDS-SR-02	2210	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
		•		, ,	er value has changed. This mode will be used for
					d in EDDS-SR-08120.eddsdswr#113
Notes:					
System:		Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:	[RD-6] R-WE	B-0320			
EDDS-SR-02	2220	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 4
T TNA	an at an al at a t	a the EDDO stars and the P		and the distant second south of the second sec	

For TM parameter data types the EDDS stream service shall provide similar functionality as to that currently described in RD-8, for ESA Restricted Networks and ESA Internal Service Networks. RID485 RID500

Notes:				
System:	Subsystem:	Priority: 3	Type: F	Verification Method: Test
Source:				

EDDS-SR-07840		Delivery:         Need: Mandatory         Stability: Stable		Last Issued in: 1		
The EDDS sl	he EDDS shall provide an API to the streaming service that supports the Java programming language for MUST compatibility. RID500					
Notes:	S:					
System: Subsystem: Priority: 1 Type: F Verification Method: Test						
Source:	SWRR2					

EDDS-SR-07	7850	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1		
The EDDS sh	The EDDS shall provide an API to the streaming service that supports the PHP programming language for MUST compatibility. RID500							
Notes:								
System:	em: Subsystem: Priority: 2 Type: F Verification Method: Test							
Source:	SWRR2							

EDDS-SR-07860		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall provide an API to the streaming service that supports MatLab for MUST compatibility. RID500							
Notes:							
System:	System: Subsystem: Priority: 2 Type: F Verification Method: Test						
Source:	SWRR2						

EDDS-SR-07600		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall support the interface to an external RDM production system as specified in AD-40.								
Notes:	IS:							
System: Subsystem: Priority: 1 Type: F Verification Method: Test				Verification Method: Test				
Source:	SWRR							

EDDS-SR-07400		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
DELETED							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-07	420	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 13	
It shall be pos	It shall be possible to use SMTP/SMTPs to send outgoing mail messages to EDDS clients. RID476					
Notes:	Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					

EDDS-SR-07	430	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
The EDDS shall provide an SMF interface to allow a request to be submitted. RID376						
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR					

EDDS-SR-08060	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2	
The EDDS shall use SMF to access all required services and data from the MCS and other systems.					

Note: If a specific SMF driver is not available (which means SMF does not provide the service to access the necessary data) then a special scenario can occur where EDDS retrieves the data directly from the data archive. Any such scenario shall be clearly identified in the EDDS documentation.eddsdswr#72

Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:				

EDDS-SR-07	7810	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
Web Services	rvices shall be used to provide an interface to EDDS Management services					
Notes:	es:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR2					

EDDS-SR-07820 D		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
Web Service	Web Services shall be used to provide an interface that supports EDDS Data Services for data types that use 'client' delivery.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR2						

EDDS-SR-08070	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
EDDS shall foresee the creation/delivery of libraries for all external interfaces in order to facilitate the creation of EDDS Users application (as e.g. for handling delivery mechanisms) .eddsdswr#83							
Notes:	Notes:						
System:	Subsystem:	Priority: 2	Type: F Ver	fication Method: Design			
Source:							

EDDS-SR-08	071	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8		
EDDS shall support the interface to multiple MCS archive versions. In case the archive interfaces change EDDS shall guarantee backwards compatibility with the previous supported interface.							
Notes:							
System:	stem: Subsystem: Priority: 2 Type: M Verification Method: Design, Test						
Source:	EDDS Product backlog story #117 and #118						

# 5.4 Operational Requirements

EDDS-SR-07	440	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS sh	The EDDS shall be considered to be non-critical operational software.						
Notes:	Notes:						
System:		Subsystem:	Priority: 1	Type: RE	Verification Method: Test		
Source:	SWRR						

EDDS-SR-02	240	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS sh	The EDDS shall provide a configurable limit on the number of concurrent stream services. (This includes display services).						
Notes:	Notes:						
System:	System:         Subsystem:         Priority: 1         Type: F         Verification Method: Test						
Source:	[RD-6] R-WEB-0400						

EDDS-SR-02280	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall be accessil	The EDDS shall be accessible to users from any of the following networks:							
• ESA Restricted Networks;	ESA Restricted Networks;							
o OPSLAN.								
• ESA Internal Services Net	works:							
o OFFICE_LAN.								
o PRE-OPSLAN.								
• ESA External Services Net	works:							
o Mission specific PISA LAN	ls.							
<ul> <li>Non-ESA Networks;</li> </ul>								
o Public Internet.								
Notes:	otes:							
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test				

Source:

EDDS-SR-07	700	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
The restart of an EDDS external service provider (e.g. packet archive, file archive, parameter archive etc) shall not require a restart of EDDS server components to restore the service. RID512										
Notes:										
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test					
Source:	SWRR2									

EDDS-SR-07	760	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
EDDS specific configuration information shall be automatically exportable and importable to support A/B split.RID515 The file containing the exported configuration shall be an XML file. The required XSD shall be delivered together with EDDS.eddsdswr#22									
Notes:									
System: Subsystem: Priority: 1 Type: F Verification Method: Test					rification Method: Test				
Source:	SWRR2								

EDDS-SR-07	Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 2				Last Issued in: 2					
The EDDS shall provide a mechanism to automatically export or import scheduled requests to support A/B split.RID515										
Notes:										
System:	tem: Subsystem: Priority: 1 Type: F Verification Method: Test									
Source:	SWRR2									

EDDS-SR-08	000	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2				
	Any EDDS configuration or schedule request import or export shall be allowed for a smaller subset of information, like mission or domain specific requests.eddsdswr#23								
Notes:									
System:	em: Subsystem: Priority: 1 Type: F Verification Method: Test								
Source:									

EDDS-SR-07	780	Delivery:	Need: Mandatory	Stability: Stable         Last Issued in: 1					
The EDDS server shall support dynamic connection to MCS servers so that it is possible to switch between MCS servers.RID515									
Notes:									
System:	Subsystem: Priority: 1 Type: F Verification Method: Test								
Source:	SWRR2								

103/119

EDDS-SR-07	790	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall provide online: RID519									
• Help.									
• User Manua	als.								
Release not	es.								
Notes:									
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test				
Source:	SWRR2								

EDDS-SR-08	3030	Delivery:	Need: Mandatory	Stability: Stable         Last Issued in: 2		ed in: 2		
The location of the data is not imposed in EDDS (this means that EDDS shall cope with data located on any LAN to ensure backward compatibility with the current DDS) however for security and performance reasons the replication of the Long Term Archives to the EDDS LAN is recommended. It shall however be guarantee that all data locations are foreseen and validated during the development.eddsdswr#39								
Notes:	s:							
System:		Subsystem:         Priority: 1         Type: F         Verification Method: Test						
Source:								
EDDS-SR-08	8031	Delivery: 1.6.0	Need: Mandatory	Stability: Stable	Last Issue	ed in: 12		
It shall be pos	ssible to set up	the environment variables needed to	o run EDDS in a log-in scri	pt for the EDDS user a	count. Bash and	Tcsh should be supported.		
Notes:								
System:								
Source:								

## 5.5 Resources Requirements

EDDS-SR-02	2290	Delivery:	Need: Mandatory	Stability: Stable Last Issued in: 1		Last Issued in: 1			
The EDDS sh	The EDDS shall be able to limit the total number of users able to access the EDDS to a configurable number. RID470								
Notes:									
System:		Subsystem:	Priority: 1	Type: PE Verification Method: Test					
Source:									
EDDS-SR-02	2292	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1			
The EDDS sh	nall be able to I	imit the total number of ongoing para	llel user requests to a conf	igurable number. RID	470				
Notes:									
System:	System: Subsystem: Priority: 1 Type: PE Verification Method: Test								
Source:	SWRR	SWRR							

EDDS-SR-02293	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12
	to limit the sumber of sevended on asis	a na successo ta la ana alfa da	te eveloù e (dete eeuwee) ie w	viction and demain in some the limit is

EDDS shall be configurable to limit the number of parallel ongoing requests to a specific data archive (data source) in mission and domain In case the limit is reached EDDS shall queue other requests until one of the ongoing requests is completed.

Limits are configured per mission: I.e.

PARC - per domain,

Data Provision Service - per domain.

SMON is always limited to one request per domain.

DARC, FARC and File System are domain agnostic and the limit shall be applied regardless of the domain of the request.

Subscription requests (such as FARC File Subscription and File System Subscription) and stream requests shall not count towards the limit, they should always be processed.

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

Notes:	The requests	The requests originating from subscriptions shall count towards the limit based on the data source.							
System:	n: Subsystem: Priority: 1 Type: F Verification Method: Test				Verification Method: Test				
Source:									

EDDS-SR-02	2294	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall be able to limit, by configurable means, the total number of ongoing parallel requests to each connected MCS. RID470									
Notes:									
System:		Subsystem:	Priority: 1	Type: PE V	rification Method: Test				
Source:	SWRR								

EDDS-SR-02	SR-02296         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 9							
The EDDS sh	The EDDS shall provide a mechanism to limit the following process resources used by the EDDS server to a configurable figure: • Memory.							
Notes:								
System:		Subsystem:	Priority: 1	Type: PE Veri	fication Method: Test			
Source:	Product Backlog Item #201							

EDDS-SR-02	298	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
For every global limit a mission specific limit shall also be allowed by EDDS. A limit maximum and minimum shall be identified in order to guarantee that no mission is unable to use EDDS services. Only the EDDS administrator shall have the privilege to change any of the imposed limits.eddsdswr#25								
Notes:	Notes:							
System:		Subsystem:	Priority: 1	Type: PE Ve	erification Method: Test			
Source:	DSWRR							

## 5.5.1 Computer Hardware Requirements

EDDS-SR-07	/590	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2	
RID463 RID3	39 The hardwa	are platform to be supported by EDD	S server software shall be	Baseline X86-SERVER	-HIGH-i1r2 as defined in [AD-18].	
Note: This ha	rdware specific	cation is indicative and the EDDS sha	all run on any hardware ha	ving an equivalent or bet	ter specification. RID555	
Notes:						
System:		Subsystem:	Priority: 1	Type: PO V	erification Method: Test	
Source:	SWRR					
EDDS-SR-07450		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12	
RID463 RID339 The hardware platforms to be supported by EDDS client software shall support at least the following OS platforms:						
• Windows 7	Windows 7 (and any later version).					

• SLES 12 64 bit

• VMWare compatible VMs.

In terms of products the hardware must support they are defined by SLES12-064-ESOCL01-i0r0 (as found in [AD-18]).

Notes:						
System:		Subsystem:	Priority: 1	Type: PO	Verification Method: Test	
Source:	SWRR					

#### 5.5.2 Computer Hardware Resources Utilisation

No specific requirements relating to computer hardware resources have been identified for the EDDS.

## 5.5.3 Computer Software Requirements

EDDS-SR-02	310	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 12			
RID463 The I	RID463 The EDDS server applications shall support the following operating systems: RID556							
Linux - SLE	S 12 64 bit (ba	seline SLES12-064-ESOCL01-i0r0 a	as defined in in [AD-18])					
Notes:	es:							
System: Subsystem: I			Priority: 1	Type: PO Ve	rification Method: Test			
Source:	SWRR							

# 5.6 Development Constraints

EDDS-SR-07	460	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
Use of Eclipse RCP shall be considered during the design phase for all client applications of the EDDS.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR						

EDDS-SR-07	7470	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The use of SOAP and WDSL shall be used to provide web services during the intial phases of the architectural designeddsdswr#76.								
Notes:								
System:		Subsystem:	Priority: 1	Type: F V	erification Method: Test			
Source:	SWRR							

EDDS-SR-07	480	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
Web service technology shall be considered for the design and implementation of EDDS services to users within all network domains. RID511							
Notes:							
System: Subsystem		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test		
Source:	SWRR						

EDDS-SR-07	740	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS design shall be based on the use of EGOS Core Components [RD-12]							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR2						

# 5.7 Security and Privacy Requirements

EDDS-SR-02460	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The EDDS shall support ES	The EDDS shall support ESOC restrictions applied in the four security domains:							
• ESA Restricted Networks.	ESA Restricted Networks.							
ESA Internal Service Netv	vorks.							
ESA External Service Net	works.							
Non-ESA Networks.								
Notes:								
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test				
Source:								

106/119

EDDS-SR-02	620	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2			
The EDDS sl	The EDDS shall allow an administrator the ability to do the following on a User basis:							
Reset a user's password (the EDDS administrator shall have no visibility over the new password which shall be stored in an encrypted format and sent to the user via e-mail). <sup>eddsdswr#24</sup>								
Enable or Dis	Enable or Disable User (User cannot login to EDDS).							
Notes:								
System:		Subsystem:	Priority: 3	Type: F Veri	ification Method: Test			
Source:	[RD-6] R-WEB-0910							
	[RD-4] SR-T	[RD-4] SR-TMDR-200580						

EDDS-SR-02640	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1				
The use of a proxy server in the EDDS design shall follow the ESOC restrictions applied to security domains.								
Notes:	Notes:							
System:	Subsystem:	Priority: 1	Type: F Ve	rification Method: Test				
Source:								

EDDS-SR-02650 De		Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
All user access to the EDDS shall be governed by user authentication based on established, secured standards and protocols (e.g. LDAP) RID457					
Notes:					
System:		Subsystem:	Priority: 1	Type: O Ver	ification Method: Test
Source:	[RD-4] SR-TMDR-201800				

EDDS-SR-02652	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
User authentication shall use digital certificates.RID457					
Notes:					
System:	Subsystem:	Priority: 1	Type: O	/erification Method: Test	
Source:					

EDDS-SR-07	620	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS shall be configurable to apply mutual authentication of server and client. RID 541					
Notes:					
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:	SWRR2				

EDDS-SR-07	7630	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS shall be capable to associate client certificates to user accounts. RID 541					
Notes:					
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:	SWRR2				

EDDS-SR-07	7640	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS shall ensure that secure web pages only contain HTTPS content. RID 541					
Notes:					
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test
Source:	SWRR2				

EDDS-SR-07650	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS shall ensure that user login shall be via secure pages with no mixed HTTPS and HTTP content. RID 541				

Notes:						
System:	1	Subsystem:	Priority: 1	Type: O	Verif	cation Method: Test
Source:	SWRR2					
EDDS-SR-07490         Delivery:         Need: Mandatory         Stability: Stable         Last Issued in: 1		Last Issued in: 1				
Objects creat	Objects created by a user, or as a result of a users request, (data requests, result data files, etc) shall be assigned a privacy tag. RID348 RID381			vacy tag. RID348 RID381		
Notes:		· · ·	· ·			
System:		Subsystem:	Priority: 1	Type: F	Verif	cation Method: Test
Source:	SWRR	•			1	
	1					
EDDS-SR-07	7500	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
The user ass	ociated with the	e creation of an object shall be able	to assign the privacy tag to	that object. RID348 R	RID381	
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verif	cation Method: Test
Source:	SWRR	•				
EDDS-SR-07	7510	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
The following	privacy tags s	hall be available:				
• Private - onl	ly the user who	created the object and the Mission	Administrator of that user of	can access the object.		
		a session with the same role as the	original user who created t	he object have access	s to the	object. The Manager and Mission
	0	user also have access.				
<ul> <li>Mission - Oi</li> </ul>	nly users runnir	ng a session under roles that are ma	anaged by the same Missic	on Administrator as the	e origina	al user who created the object
<b></b>					s engine	
• Public - The	ere is no restrict	ion placed on the object. All users h	ave access. RID348 RID3		o engine	
	ere is no restrict	ion placed on the object. All users h	nave access. RID348 RID3			
Notes:	ere is no restrict	· ·		81		
Notes: System:		ion placed on the object. All users h Subsystem:	Priority: 1			cation Method: Test
Notes:	ere is no restrict	· ·		81		
Notes: System: Source:	SWRR	Subsystem:	Priority: 1	81		cation Method: Test
Notes: System: Source: EDDS-SR-07	SWRR 7520	Subsystem: Delivery:	Priority: 1 Need: Mandatory	81		
Notes: System: Source: EDDS-SR-07 By default the	SWRR 7520	Subsystem:	Priority: 1 Need: Mandatory	81		cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes:	SWRR 7520	Subsystem: Delivery: sociated to objects shall be Private.	Priority: 1 Need: Mandatory	81 Type: F Stability: Stable	Verifi	Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System:	SWRR 7520	Subsystem: Delivery:	Priority: 1 Need: Mandatory	81	Verifi	cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes:	SWRR 7520	Subsystem: Delivery: sociated to objects shall be Private.	Priority: 1 Need: Mandatory	81 Type: F Stability: Stable	Verifi	Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source:	SWRR 7520 e privacy tag as	Subsystem: Delivery: sociated to objects shall be Private. Subsystem:	Priority: 1 Need: Mandatory Priority: 1	81 Type: F Stability: Stable Type: F	Verifi	Cation Method: Test Last Issued in: 1 Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source: EDDS-SR-07	SWRR 7520 e privacy tag as	Subsystem: Delivery: ssociated to objects shall be Private. Subsystem: Delivery:	Priority: 1 Need: Mandatory Priority: 1 Need: Mandatory	81 Type: F Stability: Stable	Verifi	Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source: EDDS-SR-07 EDDS shall of	SWRR 7520 e privacy tag as 7521 og important se	Subsystem: Delivery: sociated to objects shall be Private. Subsystem:	Priority: 1 Need: Mandatory Priority: 1 Need: Mandatory	81 Type: F Stability: Stable Type: F	Verifi	Cation Method: Test Last Issued in: 1 Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source: EDDS-SR-07 EDDS shall to - Login attem	SWRR 7520 e privacy tag as 7521 og important se	Subsystem: Delivery: sociated to objects shall be Private. Subsystem: Delivery: ecurity and user traceability informat	Priority: 1 Need: Mandatory Priority: 1 Need: Mandatory	81 Type: F Stability: Stable Type: F	Verifi	Cation Method: Test Last Issued in: 1 Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source: EDDS-SR-07 EDDS shall lo • Login attem • access privi	SWRR 7520 e privacy tag as r521 og important se pts ileges and user	Subsystem: Delivery: sociated to objects shall be Private. Subsystem: Delivery: ecurity and user traceability informat information	Priority: 1 Need: Mandatory Priority: 1 Need: Mandatory	81 Type: F Stability: Stable Type: F	Verifi	Cation Method: Test Last Issued in: 1 Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source: EDDS-SR-07 EDDS-Shall le Login attern • access privi • activity requ	SWRR 7520 e privacy tag as r521 og important se pts ileges and user	Subsystem: Delivery: sociated to objects shall be Private. Subsystem: Delivery: ecurity and user traceability informat	Priority: 1 Need: Mandatory Priority: 1 Need: Mandatory	81 Type: F Stability: Stable Type: F	Verifi	Cation Method: Test Last Issued in: 1 Cation Method: Test
Notes: System: Source: EDDS-SR-07 By default the Notes: System: Source: EDDS-SR-07 EDDS shall to Login atterm access privi activity requi	SWRR 7520 e privacy tag as r521 og important se pts ileges and user	Subsystem: Delivery: sociated to objects shall be Private. Subsystem: Delivery: acurity and user traceability informat information e, request type, mission).	Priority: 1 Need: Mandatory Priority: 1 Priority: 1 Need: Mandatory ion. This includes at least:	81 Type: F Stability: Stable Type: F Stability: Stable	Verifi	Cation Method: Test Last Issued in: 1 Cation Method: Test
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EDDS-SR-08020	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
The application shall be secure against Denial of Service (DoS) and malicious attempts to get non-authorised data and rights.eddsdswr#14				

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Notes:				
System:	Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:				

EDDS-SR-08	3021	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable		Last Issued in: 8
EDDS shall allow a mechanism to restrict the origin of any EDDS user management request. Any request incoming from a machine which doesn't have the permission shall not be allowed.						
Note: The us requests.	ers shall still ha	ave the possibility to change their own	n password and contact da	ata independently of th	ie restr	ictions on the origin of User management
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Veri	fication Method: Test
Source:	Product bac	klog User story#144				
EDDS-SR-08	8022	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable		Last Issued in: 8
EDDS shall e	ensure that the	master instance of the EDDS reques	st and user management c	latabases are located	in a se	cure (internal) ESOC network.
	eans that the E	DDS architecture shall ensure the co	omponents which need ac	cess to these database	es can	be located in the internal network as well.
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Veri	fication Method: Design, Test
Source:	EDDS Produ	uct backlog story #139 and #142				
EDDS-SR-08	3023	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable		Last Issued in: 8
EDDS shall e	ensure that any	configuration file containing sensitive	e information is only acces	sible to the EDDS ope	erationa	al/deployment account.
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Veri	fication Method: Test
Source:	EDDS Produ	uct backlog story #140				
		1	1			
EDDS-SR-08	8024	Delivery: EDDS 1.3.0	Need: Mandatory	Stability: Stable		Last Issued in: 10
EDDS shall l	og the following	g audit activities:				
Login attem	ipts;					
Access priv	ileges (role);					
User information and activity requests (username, request type, mission);						
• Suspending a user;						
Incrementing the number of incorrect logins;						
Updating th	e last login tim	9.				
Notes:						
System:	1	Subsystem:	Priority: 2	Type: F	Veri	fication Method: Test
Source:						

# 5.8 Portability Requirements

EDDS-SR-02720	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
Wherever possible the EDDS shall utilise internationally agreed standards, and shall not use any platform (or implementation) specific features.				
Notes:				
System:	Subsystem:	Priority: 1	Type: PO V	erification Method: Test

Source:	RD-6] R-WEB-1000
	RD-6] R-WEB-1003

# 5.9 Software Quality Requirements

EDDS-SR-02	780	Delivery:	Need: Mandatory	Stability: Stabl	e Last Issued in: 1		
	Quality and configuration control procedures consistent with the ESOC QMS (ISO 9002 compatible) requirements shall be employed in the development and delivery of the EDDS deliverables.						
Notes:	tes:						
System:	stem: Subsystem: Priority: 1 Type: F Verification Method: Test						
Source:	ource: [RD-6] R-WEB-1100						

EDDS-SR-02	781	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1					
The EDDS de	The EDDS design shall implement the formatting of data in such a way that it facilitates mission specialisation.									
e.g. A plug in	architecture, o	r use of XSLT, or at least interface/al	bstract classes should be u	sed to provide a Format	ing interface that can easily be specialised.					
Notes:										
System:	stem: Subsystem: Priority: 1 Type: F Verification Method: Test									
Source:	: [RD-5] SR 3.1.690									

# 5.10 Software Reliability Requirements

EDDS-SR-03	3070	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1		
EDDS applic	ations shall sup	oport the use of a common EDDS err	or logging system that pre	serves log records afte	er an a	application or system crash.	
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test	
Source:	[AD-41] EGG	S-SR-RL-00200					
EDDS-SR-07	7530	Delivery:	Need: Desirable	Stability: Stable		Last Issued in: 1	
The EDDS st	hall use a DBM	IS driven logging system.					
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Veri	fication Method: Test	
Source:							

EDDS-SR-03	080	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
The EDDS sh	The EDDS shall not affect the reliability of any MCS system beyond the criticality requirements specified for that system.					
Notes:	Notes:					
System: Subsystem: Priority: 1 Type: RE		Type: RE Ve	rification Method: Test			
Source:	[RD-6] R-WE	B-1200 SWRR				
EDDS-SR-03	EDDS-SR-03090 Delivery:		Need: Mandatory	Stability: Stable	Last Issued in: 1	

Should the El whole system		mented with multiple server	processes, it shall be possible	e to stop and re-start inc	lividual server process without having to restart the
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	IRD-61 R-WE				

# 5.11 Software Maintainability Requirements

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-07	<sup>′</sup> 540	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS sh java applicatio		automated mechanism to keep EDD	S client application softwa	e up to date on the us	er's client platform. (e.g. web start technology for
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-07	<b>'541</b>	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8
	nsure that a m Upgrade Guide		rate from a previous EDDS	S release to a new ma	jor release. This information shall be documented
Notes:					
System:		Subsystem:	Priority: 2	Type: M	Verification Method: Design, Inspection, Test

Source: EDDS Product backlog story #134

Source:

SWRR

## 5.12 Safety Requirements

		*				
EDDS-SR-07	550	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 4
DELETED						
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verific	cation Method: Test
Source:	SWRR					
EDDS-SR-07	560	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 4
DELETED						
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verific	cation Method: Test

# 5.13 Software Configuration and Delivery Requirements

EDDS-SR-03	210	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 2
EDDS shall u	se an installer	application based on the EGOS stan	dard installer. RID540		
Notes:					
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test
Source:					

EDDS-SR-03	3220	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1	
EDDS shall s	EDDS shall support the browsing of EDDS user documentation (e.g. SUMs and ICDs) via an web site. RID340					
Notes:						
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test	
Source:	[RD-6] R-WE	B-0800				
	[RD-6] R-WE	B-0801				
	SWRR					

EDDS-SR-07	7610	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
The EDDS sh	hall provide an	automated method to produce a su	immary of all logable messa	ge types that can be us	ed in SUM documentation.RID422
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				

SOFTWARE REQUIREMENTS SPECIFICATION (SRS)

EDDS-SR-07	7570	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1
It shall be pos	ssible to install	and run multiple distinct instances of	EDDS servers or clients o	n the same machine. I	RID418
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	SWRR				
EDDS-SR-07	7580	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 11
EDDS shall ir	nclude all 3 <sup>rd</sup> pa	arty licenses, the ESA licence and dis	claimer in the final product	delivery packages.	
Notes:					
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:					

#### 5.14 Personnel-related Requirements

No specific requirements relating to personnel have been identified for the EDDS.

## 5.15 Data Definition and Database Requirements

No specific requirements relating to data definition and database have been identified for the EDDS.

## 5.16 MMI Specifications

EDDS-SR-03	240	Delivery:	Need: Mandatory	Stability: Stable		Last Issued in: 1
The EDDS shall provide a client based HCI allowing access to all Stream and Batch services.						
Notes: This MMI is also known as thick-client, RCP application or standalone client application						
System:		Subsystem:	Priority: 1	Type: O	Verif	ication Method: Test
Source:						
EDDS-SR-03		Delivery: EDDS 1.7.0	Need: Mandatory	Stability: Stable		Last Issued in: 12

EDDO OIX 00	LUL	Denvery. EDDO 1.7.0	neca. Manadory	otability. Otab			
EDDS shall support deployment of RAP based MMI web application.							
Notes:	This is also known as RAP application, WebMMI, MMI web application.						
	Most of the functionality that exists in the thick-client (see EDDS-SR-03240), should also be available in the web-based MMI. Advantage over the regular MMI is that users don't need to download or run anything on their machines other than a web browser.						
System:		Subsystem:	Priority: 1	Type: O	Verification Method: Test		
Source:							

EDDS-SR-03250	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall provide a server interface that allows the user to upload XML formatted text files containing requests.							
Notes:							
System:	Subsystem:	Priority: 1	Type: O V	erification Method: Test			
Source:							

EDDS-SR-03260	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6				
The EDDS shall provide a dedicated, server based, HCI configuration interface.								
This provides access to all administration functions, e.g.								
Management of request	queue.							
Online configuration of a	counts.							
Notes:								
System:	Subsystem:	Priority: 1	Type: O V	erification Method: Test				
Source:								

EDDS-SR-03261	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 6				
The EDDS shall provide a dedicated, server based, HCI configuration interface.								
This provides access to al	administration functions, e.g.							
<ul> <li>Statistics reports.</li> </ul>								
Notes:								
System:	Subsystem:	Priority: 2	Type: O V	erification Method: Test				
Source:								

EDDS-SR-03270	Delivery:	Need: Mandatory	Stability: Stable	Last Issued in: 1			
The EDDS shall provide a GUI HCI client, through the EDDS web server, that provides a configuration interface.							
Notes:							
System:	Subsystem:	Priority: 1	Type: O Ve	rification Method: Test			
Source:							

EDDS-SR-03	271	Delivery: Sprint #1 of EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 7		
The EDDS MMI shall allow the selection and population of multiple parameters in the parameter list of a parameter batch request. This population shall be done via drag and drop of the selected parameters. This action shall still be possible if even there is an active filter on the parameter browser window.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	/erification Method: Test		
Source:							

EDDS-SR-03	272	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8			
The EDDS cli	The EDDS client MMI shall automatically update the status of any request within the EDDS request summary view.							
Notes:								
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test			
Source:	e: Product backlog User story#58							
EDDS-SR-03291		Delivery: EDDS 1.7.0	Need: Mandatory	Stability: Stable	Last Issued in: 12			

shall be 1000. T	The EDDS client MMI can be configured to limit the number of requests shown within the EDDS request summary view. The default value if not set previously shall be 1000. The maximum limit shall be 10000. For the Web MMI, the limit cannot be disabled. For the Eclipse RCP based MMI, the minimum shall be -1, allowing the limit to be disabled.					
Notes:						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:						

EDDS-SR-03	273	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8		
The EDDS client MMI shall provide the ability to select all/de-select all items in a list containing more than five items. It shall be possible to de-select/select individual items manually after selecting/de-selecting all items.							
Notes:							
System:		Subsystem:	Priority: 1	Type: F Ver	ification Method: Test		
Source:	Product backlog User story#76						

EDDS-SR-03	274	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
The EDDS client MMI shall allow a user to download and open any EDDS response file without the need to save the response first. The client shall then support two types of response file "retrieval": Download; Open. Note: It shall still be possible to save the response file later by pressing the save button.						
Notes:						
System:		Subsystem:	Priority: 1	Type: F Ve	rification Method: Test	
Source:	Product back	log User story#86				

EGOS-GEN-EDDS-SRS-1001				SOFTWARE REQUIREMENTS SPECIFICATION (SRS)			
EDDS-SR-03	3275	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8		
The EDDS cli	ient MMI shall	provide a calendar graphical option to	allow the selection of any	date attribute.			
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	Product back	log User story#95					
EDDS-SR-03276         Delivery: EDDS 1.1         Need: Mandatory         Stability: Stable         Last Issued in: 8							
	t shall be possible to download the response file for any EDDS request (independently from the file format) from the EDDS client MMI as long as the data is still ivailable on the EDDS server.						
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	Product back	log User story#99					
EDDS-SR-03	3277	Delivery: EDDS 1.8	Need: Mandatory	Stability: Stable	Last Issued in: 13		
In the EDDS	client MMI it sh	all be possible to filter requests in the	Request Summary view.	The filterable fields ar	e:		
Request ID*							
Response Fil	e name*						
Request type	•						
Sub type							
Status							
Domain							
Mission							
User							
Datasource							
Notes:	* The Reque	stID and Response File Name are bo	oth text free input fields and	therefore allow for w	ldcard filtering		
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	Product back	log User story#100, #829, #692					
EDDS-SR-03	3278	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 9		
		a new EDDS request from the EDDS or save such request at any point.	S client MMI without having	g to save it before han	d (including re-submit of completed reque	⊧sts). It	
Notes:	For scheduled requests, only the individual occurrences can be re-submitted, not the entire schedule.						
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	Product back	log User story#106, #171 and #91.					
EDDS-SR-03	3279	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8		
The EDDS cli the data displ		provide a display view for the Parame	eter data stream request. I	shall be possible for	each display to configure the refresh frequ	iency for	
Notes:							

System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test
Source:	Product backlog User story#110				

EDDS-SR-03281		Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8		
It shall be pos	It shall be possible to execute a "Save as" command for any EDDS request form open within the EDDS Client MMI.						
Notes:							
System: Subsystem: Priority: 2 Type: F Verification				Verification Method: Test			
Source:	Product backlog User story#126						

 EDDS-SR-03282
 Delivery: EDDS 1.1
 Need: Mandatory
 Stability: Stable
 Last Issued in: 8

 EDDS shall support the display of live EDDS logs within the EDDS client MMI. It shall be possible to start/stop the live feed of logs. The live logs display shall support the same filtering options as the historical message display view.

Notes:						
System:	-	Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	Product backlog User story#128				·	
EDDS-SR-03	3283	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
The EDDS c	The EDDS client MMI shall support the fast filtering of parameter			e parameter name and	description.	
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	Product backlog User story#129					
		1	1	1		
EDDS-SR-03	3284	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
The EDDS c	lient shall provi	de a warning in case the user accou	nt can be easily associate	ed with an admin accou	nt (both at login and when the account is created).	
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	Product back	klog User story#137				
EDDS-SR-03	3285	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
		allow all EDDS client properties to b kept the next time the MMI is used).	e set within the MMI prefe	erences page. The prefe	erence properties shall be kept in between	
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	Product bac	klog User story#149				
		1	1			
EDDS-SR-03	3286	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
		provide a warning (pop-up window) head without any changes. The sam			filters. The user shall have the option to cancel the onfigured maximum time range.	
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	Product bac	klog User story#152				
EDDS-SR-03	3287	Delivery: EDDS 1.1	Need: Mandatory	Stability: Stable	Last Issued in: 8	
It shall be pos	ssible to submi	t a request without saving it locally.				
Note: The real	quest shall und	lergo the same validation process as	when it is saved.			
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	
Source:	Product back	klog User story#153				
EDDS-SR-03	3289	Delivery: EDDS 1.6.0	Need: Mandatory	Stability: Stable	Last Issued in: 11	
EDDS shall p	provide the use	r with a list of new request types the	y can create, limited to on	ly those types the user	has permission to use	
Notes:						
System:		Subsystem:	Priority: 2	Type: F	Verification Method: Test	

## 5.17

Source:

## 5.18 Reuse & Reusability Requirements

No specific requirements relating to reuse and reusability have been identified for the EDDS.

## 5.19 Interface Management Requirements

No specific requirements relating to have been identified for the EDDS.

## 5.20 Observability Requirements

No specific requirements relating to observability have been identified for the EDDS.

## 5.21 Other Requirements

EDDS-SR-07750 Delivery:		Need: Mandatory	Stability: Stabl	E Last Issued in: 1		
As an EGOS component the EDDS shall follow the requirements specified in the EGGS Development Requirements [AD-41], unless specifically amended within this document (EDDS SRS) as follows: 1. EGGS-SR-RL-01000 - amended by EDDS-SR-03070 Notes:						
		Subsystem:	Priority: 1	Type: F	Verification Method: Test	
Source:	SWRR2					

# 6. Verification, Validation, and Acceptance Requirements

#### 6.1 Validation Approach and Requirements

No Additional validation approach requirements have been identified for the EDDS

EDDS-SR-07	EDDS-SR-07720 Delivery:		Need: Mandatory	Stability: Stable	Last Issued in: 1		
The EDDS shall specify a security penetration test in line with the guidelines laid out by ESACERT [RD-14]. RID514							
Notes:							
System:		Subsystem:	Priority: 1	Type: F	Verification Method: Test		
Source:	SWRR2						

#### 6.2 Acceptance Requirement

No Additional acceptance requirements have been identified for the EDDS. Appendix A T.B.D.' & 'T.B.C' List

Requirement	Description
EDDS-SR-01161	Streaming service protocol is still undecided. It is likely to be based on web services but it is not clear if this will meet performance requirements.
EDDS-SR-02020	Number of TM parameter samples per second to be supported per stream is to be confirmed.
EDDS-SR-07220	The data rate and its measurement structure for packet data is unclear for streaming services.
EDDS-SR-07370	Upper limit of file transfer rate that EDDS shall be capable of delivering to users.
EDDS-SR-07380	Upper limit of file storage rate that EDDS can store on the EDDS server
EDDS-SR-07900	Exception of password for non-modification of corporate managed data.

#### Appendix B Backwards Compatibility

This appendix summaries the backward compatibility of the EDDS to the predecessor SCOS-2000 subsystems; Telemetry Data Retrieval System (TDRS), Web Remote Monitoring (WebRM), and Generic Data Disposition System (GDDS)

There is no backwards compatibility with predecessor subsystems unless specifically listed below.

Subsystem	Service	Compatibility	Requirement
TDRS	Spreadsheet format for TM parameter data	EDDS will provide a mechanism to allow a mission to define XSLT that can be used to transform TM parameter data to the TDRS spreadsheet format required.	EDDS-SR-00640
GDDS	GDDS FTP service request	The EDDS shall be able to process requests that are in the GDDS FTP service request format. The format of such requests is XML based and defined in the GDDID [RD-14]. The EDDS will not support an FTP server but the file can be uploaded via the EDDS web server as for other requests.	EDDS-SR-06120
		It is expected that the EDDS will provide template XSLT that cover only common request types and can be specialised by missions. The missions would have to consider how to map GDDS legacy account details, access rights and product identifiers to those defined in the EDDS.	
GDDS	GDDS FTP service response	The EDDS shall be able to provide file formatting of response data in the same format used by the GDDS for FTP Service responses (as specified in the GDDID [RD- 14]). The EDDS will not support an FTP server to send the response but the user can receive the response via the EDDS 'File Server' delivery mechanism. Only the raw mode is supported and not SFDU formatting.	EDDS-SR-05680

Appendix C Functional Assumptions On External Systems This section notes assumptions that the EDDS makes of external systems. Here the dedicated parameter archive is included as an external system.

Assumption	Source
The Parameter Archive will be capable of using a high capacity, high performance hard disk.	SWRR2 - RID510
Parameter name is a unique identifier for parameters.	SWRR2-RID533
The data set for each parameter defined in a dedicated parameter archive is complete (i.e. all data is available).	SWRR2-RID533
A dedicated parameter archive shall be able to meet the performance	EDDS-SR-07240
requirements.	EDDS-SR-07170
	EDDS-SR-02037
A dedicated parameter archive shall support the data attributes required by the EDDS.	EDDS-SR-00390
A dedicated parameter archive shall support the parameter types required by the EDDS.	EDDS-SR-00410
A dedicated parameter archive shall support the statistics required by the EDDS.	EDDS-SR-00850
A dedicated parameter archive shall support the calibration values and	EDDS-SR-00720
calibration management required by the EDDS.	EDDS-SR-05550
	EDDS-SR-05560
	EDDS-SR-05570
A dedicated parameter archive shall support the data ordering required by	EDDS-SR-00730
the EDDS.	EDDS-SR-00740
A dedicated parameter archive can list parameters that are stored within it.	SWRR2-RID533

	EDDS-SR-05010
A dedicated parameter archive shall support the capability to detect and not	EDDS-SR-07880
return duplicate samples.	EDDS-SR-07890
A dedicated parameter archive shall support the capability to detect when a	EDDS-SR-02200
parameter value has changed.	EDDS-SR-02210
A dedicated parameter archive shall support the capability to cache parameters.	EDDS-SR-02446

#### Appendix D Data type Performance

For each data type and delivery mechanism listed in the following table, the EDDS shall be capable of providing the data at the rate indicated.

	Delivery	Client	File	EDDS	RDM	Display	Str	eam	Email
Data Type			Server	Server			Online	Offline	
Packet	ТМ	M -	500pps	500pps	TBD	As	20kps*1	20kps*1	-
						Stream	300kps*2	300kps*2	
	TC	-	500pps	500pps	TBD	As	20kps*1	20kps*1	-
						Stream	300kps*2	300kps*2	
	EV	-	500pps	500pps	TBD	As	20kps*1	20kps*1	-
						Stream	300kps*2	300kps*2	
	Statistics	500pps	500pps	500pps	-	-	-	-	-
Parameter	ТМ	-	10000sps	10000sps	TBD	As Stream	500sps	10000sps	-
	Statistics	10000sps	10000sps	10000sps	-	-	-	-	-
	Definition	10000sps	10000sps	10000sps	-	-	-	-	-
Report	MCS	TBD	TBD	TBD	-	TBD	-	-	-
	EDDS	TBD	TBD	TBD	-	-	-	-	-
Archived Files	File	-	TBD	TBD	TBD	-	-	-	-
	Catalogue	TBD	TBD	TBD	-	-	-	-	-
Acknowledg	Acknowledgement		TBD	TBD	-	-	-	-	TBD

Table 5 - Data Type Performance

Where:

• kps - Kbits per Second

• sps - Samples Per Second

• pps – Packets per Second