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FIRST GROUND Segment

LIST OF ICDS

prepared by/*préparé par*

FGSSE

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APPROVAL Title FIRST Ground Segment issue O revision 2 titre List of ICDs issue revision date 12/10/00 author FGSSE date auteur approved by date approuvé by date CHANGE LOG reason for change / raison du changement issue/*issue* revision/*revision* date/*date* First draft 0 08/09/00 1 Changes after review at the joint EGSE/FGSSE 0 2 meeting on the 09&10 of October 2000 12/10/00 CHANGE RECORD ISSUE: **O** REVISION: **2** reason for change/raison du changement page(s) / page(s) paragraph(s)/*paragraph(s)* List of ICDs for ILT has been consolidated following the EGSE/FGSSE meeting Diagram showing the ICD with respect to the design has been added, see appendix A

Traceability matrix has been put up-to-date with FGS

IRD issue 1.2

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1 INTRODUCTION

1.1 Purpose and scope

This document lists the I/F between the various systems of the FIRST GS or FGS centers which will be controlled through ICDs. The list of I/F covers all FIRST mission phases from ILT to post-mission.

The interfaces internal to a given system and centre are not addressed in this document.

In line with the FGS Design Description (see [RD-1]) and FGS IRD (see [RD-2]), the following FGS centers and systems considered are:

- (centers)
- the FSC
- the ICCs
- the ICC@MOC
- the MOC

(systems)

- the FIRST Common Science System (FCSS)
- the EGSE-ILT
- the CCE
- the MOC (system)
- the RTA
- the OBSM

For each such I/F, the section 2 of this document indicates:

- the definition of the information flow
- the reference to the ICD (document) defining the interface
- the mission phases for which the I/F is valid
- the FGS team who is the ICD custodian/ mission phase
- the systems (or centers) producing or consuming the information / mission phase
- the date at which the ICD has to be issued (TBC, should not it be referred to in the relevant SPMPs?)

The section 3 of this document traces the interface requirements of the FGS IRD, see[RD-2], to the different ICDs .

1.2 Reference documents

- [RD-1] FGS Design Description Document, FIRST/FSC/DOC/0146, issue 0.2, 02/10/00
- [RD-2] FGS Interface Requirement Document, FIRST/FSC/DOC/0117, issue 1.2, 05/10/00

1.3 Acronyms and Definition

See FSCDT list at http://astro.estec.esa.nl/FIRST/FINDAS/fscdt.html

2 LIST OF ICDS

The following table lists all the FGS interfaces and associated information.

For readability purpose, the interfaces have been grouped as follows:

Procedural interfaces: these are the information flow between the FGS operational centers which are subject to manual procedures between centers.

Satellite TC & TM data: this section of the table groups all the ICDs that are related to the definition of the satellite TC and TM data format

MOC data: this section of the table groups all the ICDs that are related to the definition of the format and/or exchange protocol for data generated by MOC in the in-orbit phase. Some of these ICDs may be applicable for ILT, IST as the EGSE-ILT or the CCE may mimic the MOC for these data both wrt the format and the exchange protocol.

FSC data: this section of the table groups all the ICDs that are related to the definition of format and/or exchange protocol for data generated by the FSC in the in-orbit or post mission phase.

ICC data: this section of the table groups all the ICDs that are related to the definition of format and/or exchange protocol for data generated by the ICC in the in-orbit or post mission phase. Some of these ICDs may be applicable for ILT or IST as the ICCs may already generate these data for testing their instruments.

Test specific data: this section of the table groups all the ICDs that are related to the definition of format and/or exchange protocol for the data specific to ILT or IST..

SW: this section of the table groups all the ICDs that are related to SW interfaces

The column heading are overall self-explanatory. The "**Systems (centres) involved**/ **Mission phase''** column lists for each interface the system (or center) which are generating or consuming the information related to the interface. The system (center) generating the information is <u>underlined</u> (when relevant).

The ICDs which are already applicable already in the ILT phase are marked in blue.

DOCUMENT

ICD name	ICD No (ILT only)	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
Operational interactions be	tucon con	tars					
MOC-FSC operational interactions			In-orbit	MOC or FSC?	(MOC-FSC)		MOC-FSC interface procedures
MOC-ICC operational interactions			In-orbit	MOC	(MOC-ICC)		MOC-ICC and ICC@MOC interface procedures
FSC-ICC operational interactions			In-orbit Post mission	ICC or FSC?	(FSC-ICC)		FSC-ICC interface procedures
Satellite TC & TM data							

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ICD name	ICD No (ILT only)	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
MIB format	1		ILT IST In-orbit Post-mission	PI Project/Prime MOC ??	MIB editor – EGSE-ILT – FCSS – RTA MIB editor – CCE – FCSS – RTA (<u>MIB editor</u>) – MOC – FCSS – RTA <u>MIB editor</u> – FCSS - RTA	??	 Formats to support the definition of TC mnemonic TC packets formats. HK TM packet (header + data field) Instrument science TM packet header (not science TM data field). OOL values Parameter calibration curves In ILT, the MIB format will also support the definition of the TEI TC and TM and in IST, the definition of SCOE TC and TM. <i>The MIB, it self, which will contain the defeinition of the TC and TM is not part of this list as this is a database not a document.</i>
Science TM data field	2		ILT IST In-orbit Post-mission	PIs (all phases)	Instr FCSS (all phases)	??	Definition of the intruments science packets data field format This ICD will be in appendix to the Instrument user manuals (one per instrument)
MOC data							

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ICD name	ICD No (ILT	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
Time Correlation (TBC)	only)		IST In-orbit	Project/Prime MOC	<u>CCE</u> – FCSS – RTA <u>MOC</u> – FCSS – RTA		Definition of TiC information format <i>TiC TM in ILT is not used at all:</i> <i>In ILT instrument and TE clocks</i> <i>will be kept synchronized with test</i> <i>contol clock.</i> <i>In in-orbit phase, MOC will keep</i>
Derived parameter			IST In-orbit	Project/Prime MOC	<u>CCE</u> – FCSS – RTA <u>MOC</u> – FCSS – RTA	??	the on-board time synchronized with ground time +- 20ms Definition of derived parameter data format Derived parameters TM are created by CCE (IST) and MCS (in-orbit operation). Derived parameter TM
OOL data	3		ILT IST In-orbit	ICCs Project/Prime MOC	FCSS – <u>RTA</u> <u>CCE</u> – FCSS <u>MOC</u> – FCSS	??	<i>in ILT will not be used.</i> Definition of OOL data format Derived parameters TM are created by RTA (ILT), CCE (IST) and MCS (in-orbit operation). Derived parameter TM in ILT will not be used.

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ICD name	ICD No (ILT only)	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
NRT TM I/F	4		ILT IST In-orbit	ICC Project/Prime MOC	EGSE-ILT – FCSS – RTA CCE – FCSS MOC– FCSS (ICC@MOC)		Definition of the protocol for the stream of the NRT TM I/F from EGSE-ILT(router) in ILT, CCE in IST and MOC in operation and for establishing the stream. Although it is expected that the TM stream protocol be similar in all phases (e.g. TCP-IP), the way establishing the stream will differ along the different phases, leading to separate section in the document.
TC history	5		ILT IST In-orbit	ICC Project/Prime MOC	<u>RTA</u> – FCSS <u>CCE</u> – FCSS <u>MOC</u> – FCSS	??	Definition of the TC history format. The TC history format is expected to be largely the same across mission phases. It is however possible that some fields will be mission phase specific.
Planning Skeleton			In-orbit	MOC	MOC – FCSS		
Schedule status information			In-orbit	MOC	MOC – FCSS		
Commanding timeline summary			In-orbit	MOC	MOC – FCSS		
S/C orbit data reconstituted			In-orbit	MOC	MOC – FCSS		
S/C attitude history			In-orbit	MOC	<u>MOC</u> – FCSS		
SSO database			in-orbit	MOC	<u>MOC</u> – FCSS		
DDS I/F			In-orbit	MOC	MOC - FCSS(FSC)		Definition of DDS services and protocol to retrieve MOC data files and consolidated TM and export FSC/ICC data files to MOC.

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ICD name	ICD No (ILT only)	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
Schedule			In-orbit	FSC	<u>FCSS(FSC)</u> – MOC		Definition of the format and contents of schedule.Includes S/C commanding request definition
FSC data to ICC			In-orbit Post-mission	FSC	FCSS (<u>FSC</u> – ICC)	??	Definition of all the data (and their relationships) shared by FSC and ICC as well as the transfer mechanism from FSC to ICCs <i>Captured by the FCSS design class</i> <i>model and</i> <i>ODBMS replication/remote access</i> <i>policy</i>
ICC data							
Instrument Command Sequences			In-orbit	MOC	FCSS(ICC) – MOC		Definition of instrument command sequences used for manual commanding by MOC
Instrument OBS interchange format	6		ILT IST In-orbit	ICC Project/Prime MOC	<u>OBSMaint</u> – FCSS – EGSE-ILT <u>OBSMaint</u> – FCSS – CCE <u>OBSMaint</u> – FCSS – MOC	??	Definition of the exchange format for instrument memory image The instrument memory as returned by MOC and the instrument memory update from ICC to MOC will be exchanged in the same format.
Instrument apertures and pointing misalignement			In-orbit	MOC	MOC – FCSS		

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ICD name	ICD No (ILT only)	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
ICC data to FSC			In-orbit Post-mission	FSC	FCSS (<u>ICC</u> - FSC)	??	Definition of all the data (and their relationships) shared between ICC and FSC as well as the transfer mechanism from ICCs to FSC <i>Captured by the FCSS design class</i> <i>model and</i> <i>ODBMS replication/remote access</i> <i>policy</i>
FCSS - RTA TM I/F	7		ILT IST In-orbit post-mission	ICC (all phases)	FCSS – RTA(all phases)		Definition of the protocol between RTA and the FCSS for establishing TM data flow & Definition of the TM data flow protocol between FCSS and RTA
RTA – FCSS data I/F	8		ILT	ICC (all phases)	<u>RTA</u> – FCSS		Definition of the protocol between RTA and the FCSS for - transferring TC history data (ILT only) - transferring OOL data (ILT only)
FCSS OBS I/F	9		ILT IST In-orbit	ICC (all phases)	OBSMaint – FCSS – EGSE-ILT OBSMaint – FCSS – CCE OBSMaint – FCSS		Definition of the protocol to store/retrieve the instrument memory image to/from the FCSS as well as associated files. The transfer of the instrument memory image between the FCSS and MOC in in-orbit phase is covered by the DDS I/F

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ICD name	ICD No (ILT only)	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
FCSS MIB I/F	10		ILT IST In-orbit	ICC (all phases)	MIB editor – FCSS – EGSE-ILT MIB editor – FCSS – CCE MIB editor – FCSS		Definition of the protocol to store/retrieve the MIB files to/from the FCSS The transfer of the MIB files between the FCSS and MOC in in- orbit phase is covered by the DDS I/F
Test specific data			W.C.	100			
EGSE-ILT - FCSS Test Procedure I/F	11		ILT	ICC	<u>EGSE-ILT</u> – FCSS	??	 Definition of the protocol and data format between EGSE-ILT(Test Control) and FCSS to exchange observing modes, command mnemonic sequences, test procedures definition, autonomy procedures definition test procedure log
CCE - FCSS data I/F			IST	Project/Prime	<u>CCE</u> – FCSS		Definition of interface protocol and exchange format between the CCE and the FCSS for test execuation data (e.g. test definition, test log execution)
RTA events and TM parameters	12		ILT	ICC	<u>RTA</u> – EGSE-ILT		Definition of RTA events format and TM parameters and transfer protocol to implement autonomy function of the EGSE-ILT. <i>RTA generates events (e.g. OOL) to</i> <i>the EGSE-ILT test controler to</i> <i>drive test procedures execution</i>

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ICD name	ICD No	ICD ref.	Mission phases	Custodian/ Mission phase	Systems (centres) involved/ Mission phase	Need date/ Mission phase	ICD brief description and other additional comments
	(ILT			T T		I IIII	
	only)						
SW							
S/C orbit predictor SW			In-orbit	MOC	MOC – FCSS		<i>MOC</i> will deliver deliver algorithm specification for SW (TBC)
S/C atitude constraints SW			In-orbit	MOC	MOC – FCSS		<i>MOC</i> will deliver deliver algorithm specification for SW (TBC)
S/C slew time and path predictor SW			In-orbit	MOC	MOC – FCSS		<i>MOC</i> will deliver deliver algorithm specification for SW (TBC)
Instrument simulator SW API			In-orbit	PI	Instrument simulator – S/C simulator		
Instrument time estimator, instrument commanding and instrument data processing API			ILT IST In-orbit Post mission	ICC (all phases)	FCSS		Internal to FCSS, captured by FCSS class model

APPENDIX A : IRD-ICDS TRACEABILITY MATRIX

From the FGS IRD see [RD-2]DDS I/FFGS-IR-3.1-10 FGS-IR-3.1-20 FGS-IR-3.1-30DDS I/FFGS-IR-3.1-30MIB: these are requirements on the content of the TM packetN/AFGS-IR-3.1-60 FGS-IR-3.1-60 FGS-IR-3.1-70MIB: these are requirements on the content of the TM packetN/AFGS-IR-3.1-60 FGS-IR-3.1-70DDS I/FImage: Content of the TMN/AFGS-IR-3.1-70DDS I/FFGS-IR-3.1-70Image: Content of the TMImage: Content of the TMFGS-IR-3.1-10 FGS-IR-3.1-10S/C orbit predictor SW andFGS-IR-3.1-10FGS-IR-3.1-10FGS-IR-3.1-120 FGS-IR-3.1-130S/C orbit predictor SW andFGS-IR-3.1-10FGS-IR-3.1-10FGS-IR-3.1-130 FGS-IR-3.1-140 FGS-IR-3.1-150S/C atitude constraints SW andFGS-IR-3.1-10FGS-IR-3.1-150 FGS-IR-3.1-160S/C coperational interactions andFGS-IR-3.1-10FGS-IR-3.1-160 FGS-IR-3.1-170 FGS-IR-3.1-180 FGS-IR-3.1-180 FCC sperational interactions andFGS-IR-3.1-10FGS-IR-3.1-200 FGS-IR-3.1-200 FGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-20FGS-IR-3.1-200 FGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-20FGS-IR-3.1-200 FGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-20FGS-IR-3.1-200 FGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-20FGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-20FGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-20FGS-IR-3.1-200 FGS-IR-3.1-200Commanding timeline summary and FGS-IR-3.1-2	IRD requirements	I/F name (see section 2)	ICD reference
FGS-IR-3.1-10 FGS-IR-3.1-30DDS I/FFGS-R-3.1-30FGS-R-3.1-40FGS-R-3.1-40MIB: these are requirements on the content of the TM packetFGS-IR-3.1-50 FGS-IR-3.1-70packetFGS-IR-3.1-80DDS I/FFGS-IR-3.1-80DDS I/FFGS-IR-3.1-90FGS-IR-3.1-90FGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-100S/C orbit predictor SW andFGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-100S/C operational interactions andFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100MOC-FSC operational interactions andFGS-IR-3.1-100MOC-FSC operational interactions andFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100S/C slew time and path predictor SW andFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-100DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200FGFGS-IR-3.1-200FGFGS-IR-3.1-200FGFGS-IR-3.1-200FGFGS-IR-3.1-200FGFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/F<	From the FGS		
FGS-IR-3.1-20 FGS-IR-3.1-30MIB: these are requirements on the content of the TMN/AFGS-IR-3.1-40 FGS-IR-3.1-50 FGS-IR-3.1-60MIB: these are requirements on the content of the TMN/AFGS-IR-3.1-50 FGS-IR-3.1-60packetN/AFGS-IR-3.1-60 FGS-IR-3.1-70DDS I/FN/AFGS-IR-3.1-80 FGS-IR-3.1-100DDS I/FN/AFGS-IR-3.1-100NOC-FSC operational interactions andN/AFGS-IR-3.1-120 FGS-IR-3.1-130S/C orbit predictor SW andN/AFGS-IR-3.1-130 FGS-IR-3.1-140DDS I/FN/AFGS-IR-3.1-150 FGS-IR-3.1-160MOC-FSC operational interactions andN/AFGS-IR-3.1-170 FGS-IR-3.1-170DDS I/FN/AFGS-IR-3.1-180 FGS-IR-3.1-190MOC-FSC operational interactions andN/AFGS-IR-3.1-190 FGS-IR-3.1-190DDS I/FN/AFGS-IR-3.1-190 FGS-IR-3.1-200DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FN/AFGS-IR-3.1-200 FGS-IR-3.1-200Commanding timeline summary and MOC-FSC operational interactions and DDS I/FN/A	IRD see [RD-2]		
FGS-IR-3.1-30MIB: these are requirements on the content of the TM packetN/AFGS-IR-3.1-50packetPacketFGS-IR-3.1-60PacketFGS-IR-3.1-70PGS-IR-3.1-70FGS-IR-3.1-80DDS I/FFGS-IR-3.1-90FGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-100S/C orbit predictor SW andFGS-IR-3.1-120S/C orbit predictor SW andFGS-IR-3.1-130MOC-FSC operational interactions andFGS-IR-3.1-140DDS I/FFGS-IR-3.1-150S/C atitude constraints SW andFGS-IR-3.1-160MOC-FSC operational interactions andFGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-190MOC-FSC operational interactions andFGS-IR-3.1-190DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200C-FSC operational interactions and DDS I/FFGS-IR-3.1-200C-FSC operational interactions and DDS I/FFGS-IR-3.1-200C-FSC operational interactions and DDS I/FFGS-IR-3.1-200Commanding timeline summary and DDS I/FFGS-IR-3.1-280 <td>FGS-IR-3.1-10</td> <td>DDS I/F</td> <td></td>	FGS-IR-3.1-10	DDS I/F	
FGS-IR-3.1-40MIB: these are requirements on the content of the TMN/AFGS-IR-3.1-50packetpacketFGS-IR-3.1-70DDS I/FFGS-IR-3.1-80DDS I/FFGS-IR-3.1-80FGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-100S/C orbit predictor SW andFGS-IR-3.1-120S/C orbit predictor SW andFGS-IR-3.1-130MOC-FSC operational interactions andFGS-IR-3.1-140DDS I/FFGS-IR-3.1-150S/C atitude constraints SW andFGS-IR-3.1-160MOC-FSC operational interactions andFGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-190MOC-FSC operational interactions andFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200Commanding timeline summary and MOC-FSC operational interactions and DDS I/F	FGS-IR-3.1-20		
FGS-IR-3.1-50 FGS-IR-3.1-70packetFGS-IR-3.1-60 FGS-IR-3.1-70DDS I/FFGS-IR-3.1-80 FGS-IR-3.1-90DDS I/FFGS-IR-3.1-90 FGS-IR-3.1-10S/C orbit predictor SW andFGS-IR-3.1-10MOC-FSC operational interactions andFGS-IR-3.1-130 FGS-IR-3.1-140MOC-FSC operational interactions andFGS-IR-3.1-150 FGS-IR-3.1-160S/C atitude constraints SW andFGS-IR-3.1-160 FGS-IR-3.1-170DDS I/FFGS-IR-3.1-180 FGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-190 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200 FGS-IR-3.1-280MOC-FSC operational interactions and DDS I/F	FGS-IR-3.1-30		
FGS-IR-3.1-60Image: Constraints of the second s	FGS-IR-3.1-40	MIB: these are requirements on the content of the TM	N/A
FGS-IR-3.1-70DDS I/FFGS-IR-3.1-80FGS-IR-3.1-90FGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-101FGS-IR-3.1-100FGS-IR-3.1-101FGS-IR-3.1-100FGS-IR-3.1-102S/C orbit predictor SW andFGS-IR-3.1-103MOC-FSC operational interactions andFGS-IR-3.1-104DDS I/FFGS-IR-3.1-105S/C atitude constraints SW andFGS-IR-3.1-106MOC-FSC operational interactions andFGS-IR-3.1-107DDS I/FFGS-IR-3.1-108S/C slew time and path predictor SW andFGS-IR-3.1-109MOC-FSC operational interactions andFGS-IR-3.1-100DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200Planning Skeleton andFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200FGS-IR-3.1-200FGS-IR-3.1-200Schedule status information andFGS-IR-3.1-200Schedule status informationMOC-FSC operational interactions andFGS-IR-3.1-200Schedule status informationFGS-IR-3.1-200Schedule status informationFGS-IR-3.1-200Commanding timeline summary andFGS-I	FGS-IR-3.1-50	packet	
FGS-IR-3.1-80 FGS-IR-3.1-100DDS I/FFGS-IR-3.1-100FGS-IR-3.1-100FGS-IR-3.1-110FGS-IR-3.1-110FGS-IR-3.1-120S/C orbit predictor SW and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-130MOC-FSC operational interactions and FGS-IR-3.1-160FGS-IR-3.1-160MOC-FSC operational interactions and FGS-IR-3.1-160FGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW and MOC-FSC operational interactions and FGS-IR-3.1-170FGS-IR-3.1-180S/C slew time and path predictor SW and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton and MOC-FSC operational interactions and FGS-IR-3.1-200FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions and DDS I/F	FGS-IR-3.1-60		
FGS-IR-3.1-90 FGS-IR-3.1-100S/C orbit predictor SW and FGS-IR-3.1-120S/C orbit predictor SW and FGS-IR-3.1-130FGS-IR-3.1-120S/C orbit predictor SW and FGS-IR-3.1-130MOC-FSC operational interactions and FGS-IR-3.1-160FGS-IR-3.1-150S/C atitude constraints SW and FGS-IR-3.1-160MOC-FSC operational interactions and FGS-IR-3.1-170FGS-IR-3.1-160MOC-FSC operational interactions and FGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW and FGS-IR-3.1-190MOC-FSC operational interactions and FGS-IR-3.1-200FGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton and FGS-IR-3.1-220MOC-FSC operational interactions and FGS-IR-3.1-220FGS-IR-3.1-220DDS I/FFGS-IR-3.1-230DDS I/FFGS-IR-3.1-240FGS-IR-3.1-240FGS-IR-3.1-250MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions andFGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-70		
FGS-IR-3.1-100S/C orbit predictor SW andFGS-IR-3.1-120S/C orbit predictor SW andFGS-IR-3.1-130MOC-FSC operational interactions andFGS-IR-3.1-140DDS <i>I/</i> FFGS-IR-3.1-150S/C atitude constraints SW andFGS-IR-3.1-160MOC-FSC operational interactions andFGS-IR-3.1-170DDS <i>I/</i> FFGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-190MOC-FSC operational interactions andFGS-IR-3.1-200DDS <i>I/</i> FFGS-IR-3.1-201Planning Skeleton andFGS-IR-3.1-220MOC-FSC operational interactions andFGS-IR-3.1-220DDS <i>I/</i> FFGS-IR-3.1-230DDS <i>I/</i> FFGS-IR-3.1-240FGS-IR-3.1-240FGS-IR-3.1-250FGS-IR-3.1-260FGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS <i>I/</i> FFGS-IR-3.1-270Commanding timeline summary and PGS-IR-3.1-280FGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-80	DDS I/F	
FGS-IR-3.1-10S/C orbit predictor SW andFGS-IR-3.1-120S/C orbit predictor SW andFGS-IR-3.1-130MOC-FSC operational interactions andFGS-IR-3.1-140DDS I/FFGS-IR-3.1-150S/C atitude constraints SW andFGS-IR-3.1-160MOC-FSC operational interactions andFGS-IR-3.1-170DDS I/FFGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-190MOC-FSC operational interactions andFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200Planning Skeleton andFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200Schedule status information and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and FGS-IR-3.1-280FGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-90		
FGS-IR-3.1-120S/C orbit predictor SW and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-130MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-160MOC-FSC operational interactions and PGS-IR-3.1-170DDS I/FFGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW and MOC-FSC operational interactions and PGS-IR-3.1-190FGS-IR-3.1-190MOC-FSC operational interactions and PGS-IR-3.1-200PGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton and PGS-IR-3.1-220FGS-IR-3.1-220MOC-FSC operational interactions and PGS-IR-3.1-200FGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions and DDS I/F	FGS-IR-3.1-100		
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FGS-IR-3.1-140DDS I/FFGS-IR-3.1-150S/C atitude constraints SW andFGS-IR-3.1-160MOC-FSC operational interactions andFGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW andFGS-IR-3.1-190MOC-FSC operational interactions andFGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton andFGS-IR-3.1-220MOC-FSC operational interactions andFGS-IR-3.1-230DDS I/FFGS-IR-3.1-240FGS-IR-3.1-240FGS-IR-3.1-250Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and FGS-IR-3.1-280	FGS-IR-3.1-120	S/C orbit predictor SW and	
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FGS-IR-3.1-160MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-170DDS I/FFGS-IR-3.1-180S/C slew time and path predictor SW and MOC-FSC operational interactions and FGS-IR-3.1-200FGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton and MOC-FSC operational interactions and FGS-IR-3.1-220FGS-IR-3.1-220MOC-FSC operational interactions and FGS-IR-3.1-230FGS-IR-3.1-230DDS I/FFGS-IR-3.1-240FGS-IR-3.1-250FGS-IR-3.1-250Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and FGS-IR-3.1-280FGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-140	DDS I/F	
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FGS-IR-3.1-180S/C slew time and path predictor SW and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-220MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-230DDS I/FFGS-IR-3.1-240FGS-IR-3.1-250FGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions and	FGS-IR-3.1-160	MOC-FSC operational interactions and	
FGS-IR-3.1-190MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton and MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-230DDS I/FFGS-IR-3.1-240FGS-IR-3.1-240FGS-IR-3.1-250Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions and	FGS-IR-3.1-170	DDS I/F	
FGS-IR-3.1-200DDS I/FFGS-IR-3.1-210Planning Skeleton andFGS-IR-3.1-220MOC-FSC operational interactions andFGS-IR-3.1-230DDS I/FFGS-IR-3.1-240FGS-IR-3.1-250FGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and FGS-IR-3.1-280FGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-180	S/C slew time and path predictor SW and	
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FGS-IR-3.1-220MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-230DDS I/FFGS-IR-3.1-250	FGS-IR-3.1-200	DDS I/F	
FGS-IR-3.1-230 FGS-IR-3.1-240 FGS-IR-3.1-250DDS I/FFGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270 FGS-IR-3.1-280Commanding timeline summary and MOC-FSC operational interactions and	FGS-IR-3.1-210		
FGS-IR-3.1-240 FGS-IR-3.1-250Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270 FGS-IR-3.1-280Commanding timeline summary and MOC-FSC operational interactions and	FGS-IR-3.1-220	MOC-FSC operational interactions and	
FGS-IR-3.1-250Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions andFGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-230	DDS I/F	
FGS-IR-3.1-260Schedule status information MOC-FSC operational interactions and DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions andFGS-IR-3.1-280MOC-FSC operational interactions and	FGS-IR-3.1-240		
MOC-FSC operational interactions and DDS I/FMOC-FSC operational interactions andFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions and	FGS-IR-3.1-250		
DDS I/FFGS-IR-3.1-270Commanding timeline summary and MOC-FSC operational interactions and	FGS-IR-3.1-260	Schedule status information	
FGS-IR-3.1-270Commanding timeline summary andFGS-IR-3.1-280MOC-FSC operational interactions and		MOC-FSC operational interactions and	
FGS-IR-3.1-280 MOC-FSC operational interactions and		DDS I/F	
FGS-IR-3.1-280 MOC-FSC operational interactions and	FGS-IR-3.1-270	Commanding timeline summary and	
FGS-IR-3.1-290 DDS I/F	FGS-IR-3.1-280	MOC-FSC operational interactions and	
	FGS-IR-3.1-290	DDS I/F	

FGS-IR-3.1-300	TC history and	
FGS-IR-3.1-310	MOC-FSC operational interactions and	
FGS-IR-3.1-320	DDS I/F	
FGS-IR-3.1-330		
FGS-IR-3.1-340		
FGS-IR-3.1-350	S/C orbit data reconstituted and	
FGS-IR-3.1-360	MOC-FSC operational interactions and	
FGS-IR-3.1-370	DDS I/F	
FGS-IR-3.1-380	S/C attitude history and	
FGS-IR-3.1-390	MOC-FSC operational interactions and	
FGS-IR-3.1-400	DDS I/F	
FGS-IR-3.1-410		
FGS-IR-3.1-420	Time Correlation TM and	
FGS-IR-3.1-430	MOC-FSC operational interactions and	
FGS-IR-3.1-440	DDS I/F	
FGS-IR-3.1-450	Derived parameter TM and	
FGS-IR-3.1-460	MOC-FSC operational interactions and	
	DDS I/F	
FGS-IR-3.1-470	OOL data. and	
FGS-IR-3.1-480	MOC-FSC operational interactions and	
	DDS I/F	
FGS-IR-3.1-500	MIB format and	
	MOC-FSC operational interactions and	
	DDS I/F	
FGS-IR-3.1-510	Instrument apertures and pointing misalignement and	
	MOC-FSC operational interactions and	
	DDS I/F	
FGS-IR-3.1-520	SSO database	
	MOC-FSC operational interactions and	
	DDS I/F	
FGS-IR-3.1-530	MOC-FSC operational interactions	
FGS-IR-3.1-540		
FGS-IR-3.2-10	MOC-ICC operational interactions	
FGS-IR-3.2-20	Not covered, ICC internal interfaces	N/A
FGS-IR-3.2-30		
FGS-IR-3.2-40		
FGS-IR-3.3-10	NRT TM I/F	
FGS-IR-3.3-20		
FGS-IR-3.3-30		
FGS-IR-3.3-40		

FGS-IR-3.4-10 Schedule and FGS-IR-3.4-20 MOC-FSC operational interactions and FGS-IR-3.4-30 DDS I/F FGS-IR-3.4-50 FGS-IR-3.4-60 FGS-IR-3.4-80 Instrument OBS interchange format and FGS-IR-3.4-80 MOC-FSC operational interactions and FGS-IR-3.4-90 MOC-FSC operational interactions and FGS-IR-3.4-100 DDS I/F FGS-IR-3.4-110 SS0 database and MOC-FSC operational interactions and DDS I/F FGS-IR-3.4-120 MIB format and MOC-FSC operational interactions and DDS I/F FGS-IR-3.4-130 Instrument Command Sequences and MOC-FSC operational interactions and DDS I/F FGS-IR-3.4-140 Instrument opertures and pointing misalignement and MOC-FSC operational interactions and DDS I/F FGS-IR-3.5-10 FSC-ICC operational interactions FGS-IR-3.5-10 FSC-ICC operational interactions FGS-IR-3.5-10 FSC-ICC operational interactions FGS-IR-3.5-100 FSC-ICC operational interactions FGS-IR-3.5-100 FSC-ICC operational interactions and FGS-IR-3.5-100 FSC-ICC operational interactions and		
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FGS-IR-3.5-50 FGS-IR-3.5-60 FGS-IR-3.5-70 FGS-IR-3.5-70 FGS-IR-3.5-80 FGS-IR-3.5-90 FGS-IR-3.5-90 FGS-IR-3.5-100 FGS-IR-3.5-100 FGS-IR-3.5-110 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-140 FGS-IR-3.5-150 FGS-IR-3.5-160 FGS-IR-3.5-160 FGS-IR-3.7-10 FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-30	
FGS-IR-3.5-60 FGS-IR-3.5-70 FGS-IR-3.5-70 FGS-IR-3.5-80 FGS-IR-3.5-80 FGS-IR-3.5-90 FGS-IR-3.5-100 FGS-IR-3.5-100 FGS-IR-3.5-120 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-160 FGS-IR-3.5-160 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-40	
FGS-IR-3.5-70 FGS-IR-3.5-80 FGS-IR-3.5-90 FGS-IR-3.5-90 FGS-IR-3.5-100 FGS-IR-3.5-100 FGS-IR-3.5-110 FGS-IR-3.5-120 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-150 FGS-IR-3.5-160 FGS-IR-3.5-160 ICC data to FSC and FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-50	
FGS-IR-3.5-80 FGS-IR-3.5-90 FGS-IR-3.5-100 FGS-IR-3.5-100 FGS-IR-3.5-110 FGS-IR-3.5-120 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-150 FGS-IR-3.5-150 FGS-IR-3.5-160 FGS-IR-3.5-160 FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-60	
FGS-IR-3.5-90 FGS-IR-3.5-100 FGS-IR-3.5-100 FGS-IR-3.5-110 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-160 FGS-IR-3.5-160 ICC data to FSC and FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-70	
FGS-IR-3.5-100 FGS-IR-3.5-110 FGS-IR-3.5-120 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-140 FGS-IR-3.5-150 FGS-IR-3.5-160 FGS-IR-3.5-160 FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-80	
FGS-IR-3.5-110 FGS-IR-3.5-120 FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-150 FGS-IR-3.5-160 FGS-IR-3.7-10 FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-90	
FGS-IR-3.5-120 FGS-IR-3.5-130 FGS-IR-3.5-130 FGS-IR-3.5-140 FGS-IR-3.5-150 FGS-IR-3.5-160 FGS-IR-3.7-10 ICC data to FSC and FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-100	
FGS-IR-3.5-130FGS-IR-3.5-140FGS-IR-3.5-150FGS-IR-3.5-160FGS-IR-3.7-10ICC data to FSC andFGS-IR-3.7-20FSC-ICC operational interactions andFGS-IR-3.7-20	FGS-IR-3.5-110	
FGS-IR-3.5-140FGS-IR-3.5-150FGS-IR-3.5-160ICC data to FSC andFGS-IR-3.7-10ICC data to FSC andFGS-IR-3.7-20FSC-ICC operational interactions and	FGS-IR-3.5-120	
FGS-IR-3.5-150FGS-IR-3.5-160FGS-IR-3.7-10ICC data to FSC andFGS-IR-3.7-20FSC-ICC operational interactions and	FGS-IR-3.5-130	
FGS-IR-3.5-160ICC data to FSC andFGS-IR-3.7-10ICC data to FSC andFGS-IR-3.7-20FSC-ICC operational interactions and	FGS-IR-3.5-140	
FGS-IR-3.7-10ICC data to FSC andFGS-IR-3.7-20FSC-ICC operational interactions and	FGS-IR-3.5-150	
FGS-IR-3.7-20 FSC-ICC operational interactions and	FGS-IR-3.5-160	
1	FGS-IR-3.7-10	ICC data to FSC and
	FGS-IR-3.7-20	FSC-ICC operational interactions and
	FGS-IR-3.7-30	

FGS-IR-3.7-40	ICC data to FSC and	
FGS-IR-3.7-50	FSC-ICC operational interactions	
FGS-IR-3.7-60		
FGS-IR-3.7-70		
FGS-IR-3.7-80		
FGS-IR-3.7-90	Instrument simulator SW API and	
	FSC-ICC operational interactions	
FGS-IR-3.7-100	Instrument time estimator SW API and	
	FSC-ICC operational interactions	
FGS-IR-3.7-110	Instrument commanding SW API and	
	FSC-ICC operational interactions	
FGS-IR-3.7-120	Instrument data processing SW API and	
	FSC-ICC operational interactions	
FGS-IR-3.7-130	FSC-ICC operational interactions and/or	
FGS-IR-3.7-140	ICC data to FSC	
FGS-IR-3.7-150		
FGS-IR-3.7-160	MIB format and	
	FSC-ICC operational interactions and	
	ICC data to FSC and	
	FCSS MIB I/F	
FGS-IR-3.7-170	Instrument Command Sequences and	
	FSC-ICC operational interactions and	
	ICC data to FSC	
FGS-IR-3.7-180	Instrument apertures and pointing misalignement and	
	FSC-ICC operational interactions and/or	
	ICC data to FSC	
FGS-IR-3.7-190	FSC-ICC operational interactions and/or	
	ICC data to FSC	
FGS-IR-3.8-10	FCSS – RTA TM I/F	
FGS-IR-3.8-20		
FGS-IR-3.8-30		
FGS-IR-4.1-05	EGSE-ILT – FCSS Test Procedure I/F	
FGS-IR-4.1-10		
FGS-IR-4.1-20		
FGS-IR-4.1-25		
FGS-IR-4.1-30		
FGS-IR-4.1-40		
FGS-IR-4.1-60	MIB format &	
FGS-IR-4.1-70	FCSS MIB I/F	
FGS-IR-4.1-80		
FGS-IR-4.1-90	Instrument OBS Interchange Format &	
FGS-IR-4.1-100	FCSS OBS I/F	
FGS-IR-4.1-110		
FGS-IR-4.2-10	NRT TM I/F	
FGS-IR-4.2-20		
FGS-IR-4.2-30		
FGS-IR-4.2-40		
FGS-IR-4.2-50		

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FGS-IR-4.2-60	EGSE-ILT – FCSS Test Procedure I/F
FGS-IR-4.2-70	
FGS-IR-4.2-80	
FGS-IR-4.2-90	
FGS-IR-4.3-10	FCSS-RTA TM I/F
FGS-IR-4.3-20	
FGS-IR-4.3-25	
FGS-IR-4.3-26	
FGS-IR-4.3-35	
FGS-IR-4.3-40	FCSS MIB I/F
FGS-IR-4.3-50	
FGS-IR-4.3-60	
FGS-IR-4.4-10	RTA – FCSS data I/F
FGS-IR-4.4-20	
FGS-IR-4.4-30	
FGS-IR-4.4-40	
FGS-IR-4.4-50	
FGS-IR-4.5-10	FCSS OBS I/F
FGS-IR-4.5-20	
FGS-IR-4.7-10	RTA events and TM parameters I/F
FGS-IR-4.7-20	
FGS-IR-4.7-30	
FGS-IR-4.7-40	
FGS-IR-4.9-10	NRT TM I/F
FGS-IR-4.9-20	
FGS-IR-4.9-30	
FGS-IR-4.10-10	FCSS MIB I/F
FGS-IR-4.10-20	

APPENDIX B : ILT ICDS AND SET-UP

The following diagram from the FGSDD, see [RD-1], describes the ILT set-up in terms of systems and components. It shows the data interfaces between the components. The ICDs relevant to these interfaces are indicated in the diagram. The ICD numbers correspond to the number in 2.

