

SPIRE ICC

User Requirements Documents
Mission Operations Centre (MOC)

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SPIRE ICC	1
User Requirements Documents	1
MOC	1
1 INTRODUCTION	2
1.1 Purpose & Scope.....	2
1.2 Definitions of Terms and Acronyms	2
1.3 Related Documents.....	2
1.4 Overview.....	3
2 USER CHARACTERISTICS	3
2.1 The MOC Users	3
3 REQUIREMENTS.....	3
3.1 UR-MOC-100: Functional Requirements	3
UR-MOC-110: Definition of Interfaces	3
UR-MOC-120: Delivery of Hardware.....	3
3.2 UR-MOC-200: Operational Requirements	3
UR-MOC-210: Provision of operations staff	3
UR-MOC-220: Provision of instrument Training	4
UR-MOC-230: Update of instrument Databases.....	4

1 Introduction

1.1 Purpose & Scope

Requirements put on the SPIRE ICC by its direct interfaces with MOC, for example queries to the ICC about the instrument. Requirements in this area will also arise because of the need to mimic the MOC - to some TBS level - during ILT.

Interface requirements relating to this are in the FGS IRD (1.0) issued by the FGSSE (SPIRE rep: Sunil Sidher).

1.2 Definitions of Terms and Acronyms

1.3 Related Documents

RD-1	SPIRE ICC URD Scope Document
RD-2	FIRST-FSC URD
RD-3	SPIRE ICC AIV URD

1.4 Overview

This document first describes the **users** relating to the SPIRE ICCs interaction with the MOC and then the **requirements** they make on the ICC.

2 User Characteristics

2.1 The MOC Users

3 Requirements

3.1 UR-MOC-100: Functional Requirements

UR-MOC-110: Definition of Interfaces

ICCF-170 define jointly with the MOC the data and operational interface between the ICC and the MOC. – the interface will be defined in an ICD produced by the MOC. – the interface will be identical for all ICCs. *Note: ICCF-170 refers to the so-called ICC@MOC i.e. to the ICC system deployed at the MOC to support the Commissioning and Performance Verification phases. This system which will be left at the MOC can be “re-activated” in case of serious instrument problems during the routine phase. In routine phase there is no direct MOC-to-ICC (i.e. the so-called ICC@ICC) interface. The interface is non-real time and is via the HSC. Note: There are no formal data or operational interfaces between the ICCs. It is expected, however, that communications between the ICCs will be frequent and extensive in order to achieve the commonality objectives of the Herschel programme*

- **Source** SIRD: ICCF-170
- **Importance** essential
- **Frequency** once?
- **Phase** AIV

UR-MOC-120: Delivery of Hardware

Deliver to the MOC the necessary hardware (Instrument Station) and software (RTA and QLA, etc.) required to support the Commissioning and Performance Verification phases (the so-called ICC@MOC). Support installation as required.

- **Source** SIRD: ICCF-205
- **Importance** essential
- **Frequency** once?
- **Phase** AIV

3.2 UR-MOC-200: Operational Requirements

UR-MOC-210: Provision of operations staff

Provide to the MOC the operations staff (instrument specialists) required to support the Commissioning and Performance Verification phases.

- **Source** SIRD: ICCO-015
- **Importance** essential
- **Frequency** once?
- **Phase** PV →

UR-MOC-220: Provision of instrument Training

Provide instrument training, as required, to selected HSC and MOC staff. *Note: Training shall take place in accordance with a training plan approved by ESA. The plan shall identify duration of each training activity and number of staff involved -trainers and trainees*

- **Source** SIRD: ICCO-010
- **Importance** essential
- **Frequency** once?
- **Phase** **PV →**

UR-MOC-230: Update of instrument Databases

Support the MOC by providing updated instrument databases. *Note: This extends requirement ICCF-085 into the context of operations*

- **Source** SIRD: ICCO-027
- **Importance** essential
- **Frequency** once?
- **Phase** **PV →**