



**SUBJECT:** SPIRE ICC Communications Plan

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## **Distribution**

ICC Members

## **Change Record**

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## **Glossary**

HCSS	Herschel Common Science System
ICC	Instrument Control Centre
RAL	Rutherford Appleton Laboratory
TAS	Thales Alenia Space



## **1. INTRODUCTION**

This plan defines the interfaces provided by the SPIRE ICC Operations Centre to the rest of the ICC for the transfer of data and information between members.

### **1.1 Scope**

This document covers the development phase of the ICC. The corresponding information for the operational phases of the mission (Commissioning, Performance Verification, Science Demonstration and Routine Phases) will be documented in the SPIRE ICC System Description.

### **1.2 Structure of Document**

Section 2 describes the hardware available at RAL for distribution of data and information to the consortium during the development phase. Section 3 describes the interfaces used to access the data and information from RAL.

### **1.3 Documents**

#### **1.3.1 Applicable Documents**

AD01 SPIRE Science Implementation Plan (SPIRE-RAL-PRJ-000018)

#### **1.3.2 Reference Documents**

## **2. ICC HARDWARE**

SPIRE maintains several sets of machines used for testing instrument hardware both at RAL and at satellite test sites (TAS - Friedrichshafen, ESTEC, ESOC). However, during testing the telemetry data taken from these tests is transferred to a machine at RAL for distribution to ICC members. This machine has the address [chichester.bnsc.rl.ac.uk](http://chichester.bnsc.rl.ac.uk). The data is available in several different forms specified in Section 3.

This machine runs the linux operating system with the following additional software installed

- SPIRE build of the HCSS including required software (e.g.java)
- Versant Database server
- Tomcat application/web server

Data is stored as HCSS versant databases which may be access from an external HCSS system and as files which may be access from any external system running a web browser or ftp software.



### 3. INSTRUMENT DATA TRANSFER

#### 3.1 Access to Telemetry Data from the HCSS Database

The HCSS databases are maintained at [chichester.bnsc.rl.ac.uk](http://chichester.bnsc.rl.ac.uk) and can be accessed in two ways:

1. directly from HCSS (provided your machine has a versant client installed) by setting
  - the relevant HCSS database property to `<database>@chichester.bnsc.rl.ac.uk`, where `<database>` is the name of the database to use
  - setting `hcss.ccm.factory = herschel.versant.ccm.CoreFactoryImpl`
2. indirectly through a web interface (does not require a Versant client on your machine) by setting
  - the relevant HCSS database property to `<database>@chichester.bnsc.rl.ac.uk`, where `<database>` is the name of the database to use
  - setting `hcss.ccm.factory = herschel.versant.ccm.SimpleCoreFactoryImpl`

#### 3.2 Access to Telemetry Data as FITS files

During testing telemetry files are routinely extracted from the HCSS database and converted into FITS files and stored on chichester. These files can be accessed through a web page at

[http://chichester.bnsc.rl.ac.uk:8080/test\\_team/](http://chichester.bnsc.rl.ac.uk:8080/test_team/)

Data is available as gzipped fits files for each test

#### 3.3 FTP Server

For distribution of large files or sets of documentation these are placed on an ftp server for access from outside RAL. This ftp server is located at [jackal.bnsc.rl.ac.uk](http://jackal.bnsc.rl.ac.uk) and requires a username and password.

Username: spire  
Password: griffin\_99

### 4. INSTRUMENT INFORMATION

#### 4.1 Web Site(s)

SPIRE maintains a public website for supplying general information about the project. This may be found at

<http://www.spire.rl.ac.uk/>

In addition SPIRE maintains a 'hidden' website (the site is not accessible from the public website), which contains information specifically geared to the needs of the SPIRE Consortium. This is at the following URL:

<http://www.spire.rl.ac.uk/consortium/default.shtm>

Note this site is protected and requires entry of a username and password. These are

Username: SpireTeam  
Password: [c0ns0rt1um]



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## 4.2 Wiki

For quick communication of information between ICC members there is a Wiki site set up at <http://www.herschel.be/twiki/bin/view/Spire/WebHome>.

In order to access this information you need to be registered with the main Wiki site (follow the link to register) and be designated a member of the SPIRE Group (contact Steve Guest at RAL for this)

## 4.3 SxRs

Software Problem Reports and Software Change Requests are used to track problems and changes required to software and documentation.

For SPIRE specific software, these are held on a server maintained by ESA at the following URL

[http://www.rssd.esa.int/herschel\\_webapps/servletsuite/ProblemReportServlet?area=spire](http://www.rssd.esa.int/herschel_webapps/servletsuite/ProblemReportServlet?area=spire)

For software developed as part of the HCSS the SxRs are held at the following URL

[http://www.rssd.esa.int/herschel\\_webapps/servletsuite/ProblemReportServlet?mode=main](http://www.rssd.esa.int/herschel_webapps/servletsuite/ProblemReportServlet?mode=main)