SPIRE ICC

User Requirements Documents: Consortium

Issue: V1.0

Date: 09/01/2001

Page 1/4

SPIRE ICC

User Requirements Documents
Consortium

Written by: Comments From S.J. Oliver

Issue 1

Tuesday, 09 January 2001

DOC. NO.

3FIRE-103-FRJ-000334 Issue: V1.0 Date: 09/01/2001

Page 2/4

SPIRE ICC	1
User Requirements Documents	1
Consortium	1
1 INTRODUCTION	2
1.1 Purpose & Scope	
•	
1.2 Definitions of Terms and Acronyms	2
1.3 Related Documents	7
1.5 Related Documents	•••••• <u></u>
1.4 Overview	3
2 USER CHARACTERISTICS	3
	_
2.1 The SPIRE Consortium Experts	
2.1.1 Instrument specialist expert	
2.1.2 Instrument system expert	
2.1.3 Science expert	
2.1.4 Data-reduction expert	3
2.2 The SPIRE Consortium users	1
2.2.1 Consortium Astronomer	
2.2.2 Instrument Engineers	
2.2.2 Historient Engineers	
2.3 Information Input	1
2.3.1 Solicited Information Retrieval	
2.3.2 Unsolicited Information Collection	
2.3.3 Information Storage and Retrieval	
2.4 Information Output & Feedback	
2.4.1 Beta Testing	4
1 Introduction	
1 <u>Introduction</u>	
1.1 Purpose & Scope	

1.1 Purpose & ScopeRequirements placed on the ICC by the SPIRE Consortium as a special user. A mechanism must exist that allows a strong interaction between the SPIRE Consortium and the ICC.

1.2 Definitions of Terms and Acronyms

Related Documents 1.3

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

SPIRE ICC

User Requirements Documents: Consortium

RD-3 SPIRE ICC AIV URD

1.4 Overview

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

DOC. NO.

Page 3/4

Issue: V1.0

3FIRE-103-FRJ-000334

Date: 09/01/2001

User Characteristics 2

2.1 The SPIRE Consortium Experts

The SPIRE consortium has a wealth of expertise relating to the instrument and its use. The ICC will want to draw on that expertise frequently and efficiently. In this context the Consortium **Experts** are *users* in the sense of being **information providers**. The actual individuals concerned may of course be members of the ICC as well as having other roles. It may be sensible to divide the consortium experts into sub-divisions of expertise, since the interactions may be different for different types of experts.

2.1.1 Instrument specialist expert

Able to provide detailed knowledge of an instrument sub-system

2.1.2 Instrument system expert

Able to provide knowledge of sub-systems interactions

2.1.3 Science expert

Able to provide advice on expected science returns.

2.1.4 Data-reduction expert

Able to provide experience and good-practice for data reduction from other missions or other wavelengths.

2.2 The SPIRE Consortium users

SPIRE consortium members will make demands on the ICC that are special in some ways.

2.2.1 Consortium Astronomer

It is expected that SPIRE Consortium Astronomers wishing to use the instrument will mainly interact with the ICC via the FSC as any other Astronomer would do. However, it is inevitable and perhaps desirable that Consortium Astronomers will expect privileged access to the ICC, for example access to new data reduction algorithms. In these cases we would expect a Consortium Astronomer to be an expert in using the instrument and prepared to invest more time and effort into understanding their data and working with the software to achieve the best results.

2.2.2 Instrument Engineers

Will require special access to data and interactions with the instrument via the ICC in particular during the ILT (see AIV user requirements document RD-3)

2.3 Information Input

2.3.1 Solicited Information Retrieval

The ICC will need to be able to extract specific information from the relevant expert(s) swiftly and painlessly. This information might be specifications of instrument sub-systems; models of subsystem behaviour; example scientific data; simulated data; expected results; etc. etc. The information could be in any format, document; image; phone-call; software; etc. etc..

> 1. Source here 2. Importance essential 3. Frequency dailv 4. Phase Now

SPIRE ICCIssue: V1.0 Date: 09/01/2001

User Requirements Documents: Consortium Page 4/4

2.3.2 Unsolicited Information Collection

The ICC should be open to suggestions and advice from Consortium Experts.

Source here
 Importance desirable
 Frequency daily
 Phase Now

2.3.3 Information Storage and Retrieval

The ICC should be able to store and retrieve the information it extracts from the Consortium Experts. This "knowledge database" should be easily searchable probably using keywords as entered by the person who requested the data. "Off the shelf" products are likely to be available and required for other purposes.

Source here
 Importance desirable
 Frequency daily
 Phase Now

2.4 Information Output & Feedback

2.4.1 Beta Testing

The ICC should enable Consortium Astronomers to use the latest, experimental data-reduction techniques and have a responsive feedback mechanism to utilise their experiences. Software that is available in Beta test should feel as similar as possible to alpha released software.

Source here
 Importance desirable monthly
 Phase Pre Launch