

**Minutes of PDR/IR teleconference 2009-01-08 (10:00-11:50)**

**Participants:**

Hugh Evans; ESA/ESTEC, Noordwijk.

Peter Wintoft; Swedish Institute of Space Physics, Lund.

Daniel Heynderickx; DH Consultancy.

Lars Eliasson; Swedish Institute of Space Physics, Kiruna.

**1. Opening**

Peter Wintoft opens the meeting and the agenda is agreed.

It is agreed that Lars Eliasson shall be responsible for the minutes from the meeting.

**2. Discussion on the content of URD version 0.1**

2.1 Metadata (URD Section 4.2.2)

The ODI metadata were discussed.

Hugh Evans commented the importance to generate the Logical\_file\_id (M.6).

Hugh Evans mentioned that “si\_rel” could be an additional metadata. It exists in the SEDAT metadata but not in the PRBEM.

M.18 should be changed to DEPEND\_1. There is most likely a misprint in the document it originates from.

M.27 LABL\_PTR\_i shall be changed to LABL\_PTR\_1, LABL\_PTR\_2, LABL\_PTR\_3.

All metadata shall be written even if not defined (null-value included in that case).

**Action Item PDR-1.** Hugh Evans shall send the SEDAT document RAL\_SED\_UD\_0001 to Peter Wintoft.

2.2 Variables (URD Section 4.2.3)

No specific comments.

2.3 Database (URD Section 4.2.4)

Table 3 need to be updated, specifically the column “live”. The “x” in that column shall be changed to “A” or “M” to explain if data are manual or automatically updated.

The time-resolution information has to be updated. Variable time-resolution causes problems that need to be handled. The time-resolution needs to be stored for every data point. A “null”-value shall be used if not known. Hugh Evans can provide a function to extract the values for XMM/RM. Hugh Evans will ask Paul Buehler for information to extract the

SREM-data. Some data sources need to be expanded because several sets exist, e.g., for MIR/REM there are two data sets.

A clarification is needed for the D.46 IMP8/EPE.

**Action item PDR-2.** Hugh Evans shall contact Paul Buehler/PSI about including the integration time in the SREM datasets.

**Action Item PDR-3.** Daniel Heynderickx shall clarify the IMP datasets.

#### 2.4 Operational environment (URD Section 4.4)

Information need to be updated to include version numbers of the software needed.

#### 2.5 Capabilities requirements (URD Section 5.1)

CAP.3 The indicated “Table ??” is intended to be included in sections 4.2.6-8 that are not finalized yet.

#### 2.6 Constraints requirements (URD Section 5.1)

In CON.15 to CON.19 more specific information is needed on which machine it is to be run, e.g., the ODI server, SEDAT server, SPENVIS server, etc.

#### 2.7 PRBEM (URD Section 6)

Version numbers are important to keep track of what data are being used. Only the latest versions will be stored.

**Action item PDR-4** Hugh Evans will send comments on Sections 5 and 6 to Peter Wintoft by email.

#### 2.8 Indices data sets

Metadata for indices were discussed. They are not handled in PRBEM. The SEDAT metadata can be useful.

**Action Item PDR-5** Peter Wintoft shall investigate and specify a standard set of metadata and attributes to be included with the indices datasets.

**Action Item PDR-6** Hugh Evans shall send details on the SEDAT code to Daniel Heynderickx.

#### 2.9 ODI-MySQL interface

A standardized way to implement, e.g., calls, datasets, and functions in different software languages should be used. This makes also future portability easier.

A list of function calls will be included in the user requirements.

### **3. Other matters**

Problems with firewalls will be solved so that the external servers can be accessed for uploading and testing software.

**Action Item PDR-7** Hugh Evans shall arrange access to the external servers at ESTEC.

#### **4. New action items**

*Action Item PDR- 1* Hugh Evans shall send the SEDAT document “RAL\_SED\_UD\_0001” to Peter Wintoft.

*Action item PDR-2* Hugh Evans shall contact Paul Buehler/PSI about including the integration time in the SREM datasets.

*Action Item PDR-3* Daniel Heynderickx shall clarify the IMP datasets.

*Action item PDR-4* Hugh Evans will send comments on Sections 5 and 6 to Peter Wintoft by email.

*Action Item PDR-5* Peter Wintoft shall investigate and specify a standard set of meta data and attributes to be included with the indices datasets.

*Action Item PDR-6* Hugh Evans shall send details on the SEDAT code to Daniel Heynderickx.

*Action Item PDR-7* Hugh Evans shall arrange access to the external servers at ESTEC.

#### **5. Next meeting**

The next meeting will take place 12 February starting at 10.00 ending at 16.00 in Leuven, Belgium. Daniel Heynderickx will make the local arrangements.

#### **6. Closing**

Peter Wintoft closed the meeting.

Lars Eliasson