

From: Peter Roelfsema
Sent: Wednesday, August 23, 2000
To: FIRST use cases
Subject: Minutes and actions of domain model telecon On 23/08/00

FIRST Common Science System domain model telecon

Date: 23 august 2000, 14:00-15:00

Present:

FSC - Jon Brumfit, Stephane Veillat
PACS - Ekkehard Wieprecht
SPIRE - Neal Todd
HIFI - Albrecht de Jonge, Peter Roelfsema

Agenda items:

- any further feedback on the domain model
- status of action (due 23 Aug) from last use-case meeting (ICCs to expand use-cases for ILT end-to-end path)
- progress towards Core Class Model

1) Further feedback on the domain model

In three earlier telecons between Jon, Jean Jaques, Stephane, Ekke, Erich and Peter (in one-to-one follow up discussions) there has been significant discussion on the Domain model V0.20. In the process several differences of understanding have been resolved. There were some questions from PACS which were answered by an email from Jon.

To date Jon has been working mainly on implementing this revised understanding in the Core Class Model, with the aim of reverse engineering those changes into the domain model. Unfortunately this leads to some disagreement w.r.t. the usefulness of the domain model as a basis for e.g. deeper use case analysis. At the end of the discussion it was concluded that the ongoing UC analysis work will be done against the Core Model until the next version of the domain model becomes available.

2) Status of UC analysis work.

Due to a combination of the holiday season, a misunderstanding of what comes first -domainmodel or UC analysis- as well as misunderstanding of what the action really encompassed, the ICC people had not progressed in the same direction as FSC people with the actions re expanding the use cases.

In the 'MoM' of UC meeting #3 on 12-Jul-2000 the following action is stated with 23/8/00 as deadline:

By that time the ICCs will have further expanded the UCs that need to be implemented for the Common System v0.1. These are the UCs contained on my second VG (appended) plus UCF-182 (as identified by Piotr at the meeting, specialised to using this UC in ILT). The set of these UCs

constitutes the “end-to-end ILT branch” through the system, as we discussed at the meeting. As far as is possible, these expanded UCs are analysed against the domain model with a view of deducing from it the Core Class Model (cf. Jon’s VGs which he distributed after the meeting) and proposing changes to the domain model if this expansion shows defects.

In parallel to this activity on the ICC side of the house the FSCDT side of the house will construct a path through the table of UCs that represents the core of the “operational system”. UCs in this “end-to-end operational” branch will then be analysed by the FSCDT in the same way the ICCs analyse the “ILT branch”.

Thus the list of UC's we are talking about is:

UCF-182: Create draft schedule for a planning period

UCF-481: Search FIRST archive

UCF-489: Retrieve archive artefact

UCF-492: Update or create an archive artefact

UCF-601: Run RTA

UCF-710: Execute an ILT test procedure

UCF-745: Make a calibration analysis procedure or processing algorithm prototype

UCF-746: Apply analysis procedure (run IA)

UCF-751: Create an observation

UCF-752: Create an observation template

UCF-753: Create an observation building block definition

UCF-754: Specify a new on-board control procedure

UCF-755: Specify a new instrument function or atomic command

The status of this particular work is as follows:

FSC: see mail of Kevin (17/8/00)

HIFI:

Started work on UCF 710/711; initially mainly rework to get them in line with results from the previous telecons on the domain model

PACS:

Took the UCF-710/745/746/751/752/753 and checked them (as they are) against the Domain Model

Supported the work on UCF-710/711 with discussions/proposed scenario for test-control during telecon

Detailed analysis of UCF-746/745

SPIRE:

Looked at all use cases from the list, no detailed analysis on any of them yet.

In this process (obviously) the groups have made comments on the Domain Model and Core Class Model and sent them in.

Having said that we are not yet as advanced as planned for (the action should have been completed today). After quite some discussion about what was and what was not feasible given the amount of time available, the amount of analysis that can be done with and without a core class models, it was decided to go ahead in the following manner:

- the next days the ICC's will continue to work on the relevant UC's

with the aim of upgrading/completing them, and start/continue analysis using e.g. interaction diagrams.

- Jon will update the Core Class Model taking into account the discussions and comments that have been sent in to date, and publish the 'state of the art' CCM on Friday

- ICC's will take that CCM for UC analysis for the meeting next week.

Some -voluntary- partitioning has already taken place in who does what, especially PACS has taken the approach to work on those UC's that were authored by PACS. SPIRE and HIFI have more of a feeling that (for now) they have to look at all of them anyway... (but we will probably put less effort into those worked on by PACS). It is not clear (yet) how to divide up the work in terms of assigning UC's to individual persons to work on. This maybe should be discussed a little at next week's meeting.

So as far as further UC analysis is concerned the following plans are already set today:

PACS:

Detailed analysis of UCF-746 (in form of activity diagrams, may be circulated Monday morning)

Detailed analysis of UCF-745 (in form of activity diagrams, may be circulated Monday morning)

Check UCF-745/746 against Domain Model 0.2

UCF-751/752/753; textual comments (may be update, maybe circulated Monday morning)

SPIRE:

Look at all UCs in the list above, with special interest for 710/711.

Analyse initially w.r.t. Domain Model 0.2

HIFI:

Detailed analysis of UCF 710/711

Create a list identifying all UCs relevant for ILT

3) progress towards the Core Class Model

In the discussions on the above a lot was said about the applicability/usefulness of the CCM/DM as they are now..... not much more needed to be said about the CCM itself. An updated version is needed for further work.

4) Actions

- Jon to publish next version of CCM by Friday 25/8/00

- ICC's to publish wanted/desired changes to UC's by Friday 25/8/00

- ICC's to make analysis diagrams for UC meeting

- HIFI (PRR) to make list of UC's that are used in ILT, where possible indicate where (very) restricted versions could be used