Data Management Status

LAPP CTA Meeting

Juin 2016

David Sanchez pour le group DM du LAPP

DM @LAPP

Participants

- Nadine Neyroud
- Isabelle Mievre
- Cecile Barbier
- Eric Fede
- David Sanchez
- Thomas Vuillaume (Pipeline, DB)
- Pierre Aubert (Pipeline)
- Gilles Maurin (Pipeline)
- Jean Jacquemier (Pipeline)

Reunion 1 fois toutes les deux semaines au LAPP

PC report (PM update) C. Townsley

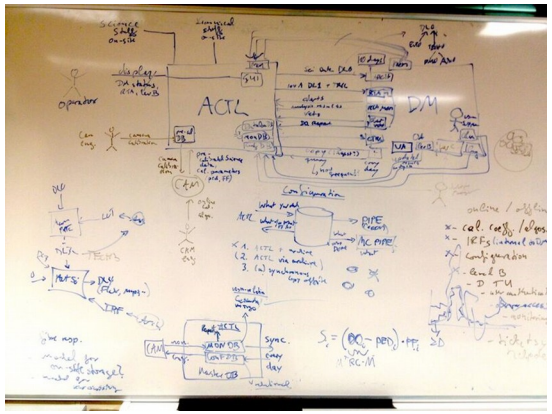
COUNCIL

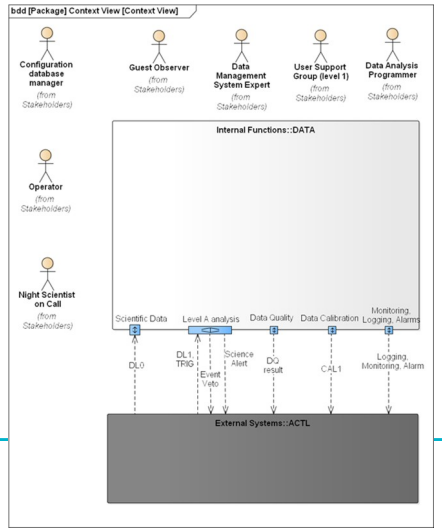
1. Discussion on HQ and SDMC (closed)
   - HQ goes to INAF Bologna
   - SDMC goes to DESY Zeuthen
   - ‘Director of Science Data Management’ goes to DESY Zeuthen
     (not clear on impact of this on construction project or observatory operations)

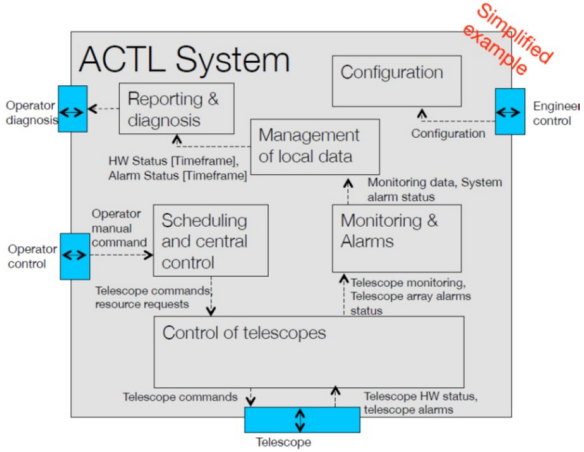
(closed means only shareholders and their minions only)

DATA-ACTL Software Architecture

- Decision to use same Entreprise Architect tool than ACTL to describe DATA Architecture to help to estimate reshuffle impact (Kashiwa presentation) => Approved by PO
- Small Working Group DATA-ACTL High-Level Architecture
  - Deliverables for December
  - Reviewed at the end







PC report (SW standard) Gino Tosti

cta
cherenkov telescope array

Software Development Plan and Standards

This Version:				
Ver.	Created	Comment	Distribution	Corresponding...
0.1	2016-06-14	Main structure & preliminary draft.	PO	Editor: SQGA Checker: _____ Approver: _____

Keywords:
CTA, Software, Architecture, Standards, Protocols, Languages.

Version History:				
Ver.	Date	Comment	Distribution	Corresponding...
-	-	-	-	Editor: - Checker: -

Purpose

- Software development model
- Software programming standards
- Guidelines for software development
- Software interfaces
- Software verification and validation
- Software Quality Assurance
- Software Configuration Management
- Software maintenance

PC Report: Second Expressions of Interest

Deadlines:

Unsigned: 4 January 2016
Signed: 31 January 2016

Offered telescopes:

- 84 SSTs (baseline: 70)
  - 21 SST-1M
  - 38 SST-2M ASTRI
  - 25 SST-2M GCT
- 15 MST structures (baseline: 40)
  - 15 FlashCams
  - 16 NectarCams
- 7 LSTs (baseline: 8)

PC Report (EOI)

Institute	040 DATA	040 DATA
CH_UNIGE-ISDC	€ -	47
DE_DESY	€ 166 973	12,3
DE_ECAP	€ -	3
DE_HUB	€ 4 830	3,8
DE_ITPA	€ -	5
DE_ITPB	€ -	2,7
DE_MPIK	€ -	27,5
DE_TUDO	€ -	7,5
ES_IAC/IFAE	€ 201 216	7,7
ES_IAC/UCM-GAE	€ 82 489	9,1
FR_APC	€ 144 768	22,9
FR_CENBG	€ 43 701	5,4
FR_CPPM	€ 20 434	1,9
FR_IRAP	€ 123 970	20,2
FR_IRFU	€ 237 911	34
FR_LAPP	€ 420 659	35,5
FR_LPNH	€ 23 117	1,1
FR_LUPM	€ 91 340	14,7
FR_OBSPM	€ 155 946	14,1
HR_FESB	€ -	1,2
IT_INAF	€ 299 939	5
PL_CYFR	€ 341 747	9,8
SE_ULIN	€ 4 380	0
UK_LEIC	€ 250 120	8,4
US_GeorgiaTech	€ -	1,4
	€ 2 613 540	301,2

DATA Work Package extract

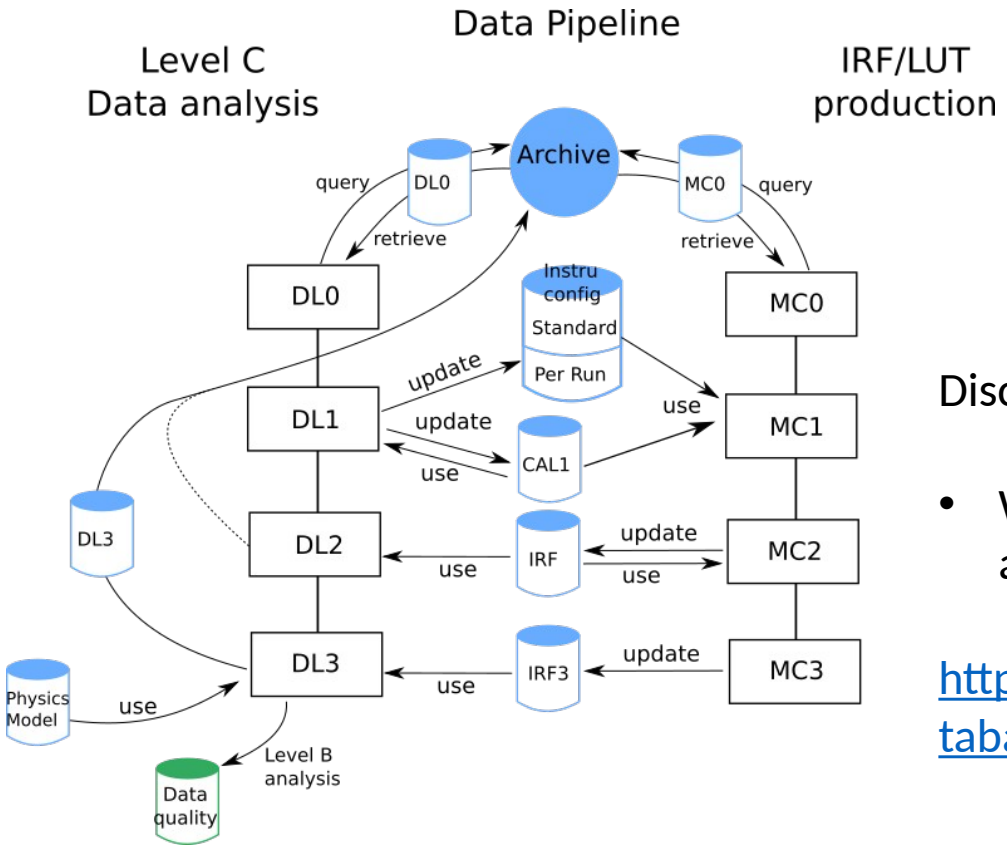
- Datacentres are excluded from the EOI-IKC call (43% of remaining costs are covered)
- Equipment costs based on official cost estimate (4.4 M€ estimated by institutes)
- Labor ≈ OK

⇒ Requires to be understood and corrected (travel costs, Monte-Carlo production equipment costs?)

Source: N. Neyroud extracted from the official file

Data Bases

Thomas V



Discussion on databases opened :

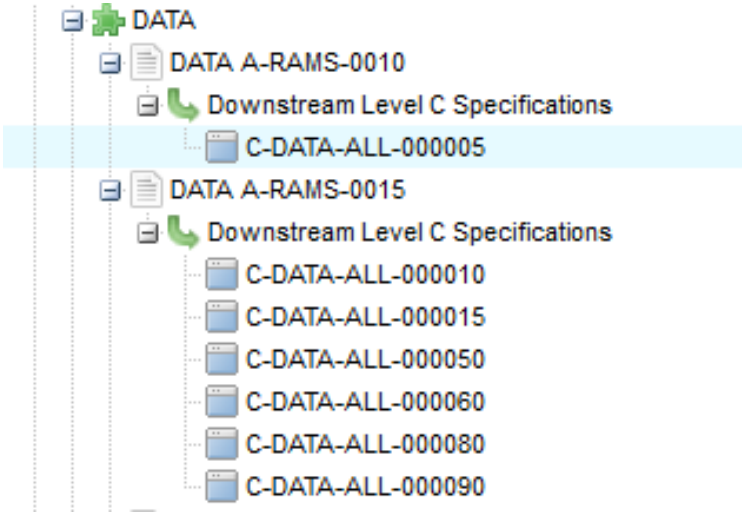
- Wiki page created to gather information and build on the discussion

https://forge.in2p3.fr/projects/model/wiki/Databases

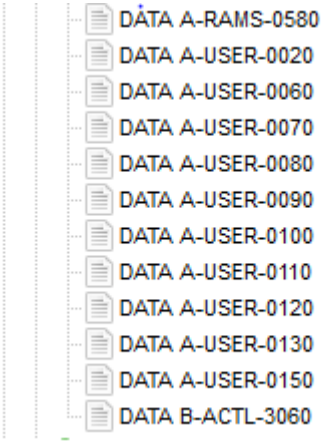
JAMA- Requirement Verification Statements

What has been done until now

For each DATA RVS, a level C specification has been linked according to the Design Verification Document



Some of RVS are still pending for relationship (work is still on going)



JAMA- Requirement Verification Statements

Future actions

Each work package has to verify if there is any problem

Start to write the use cases when they will be available

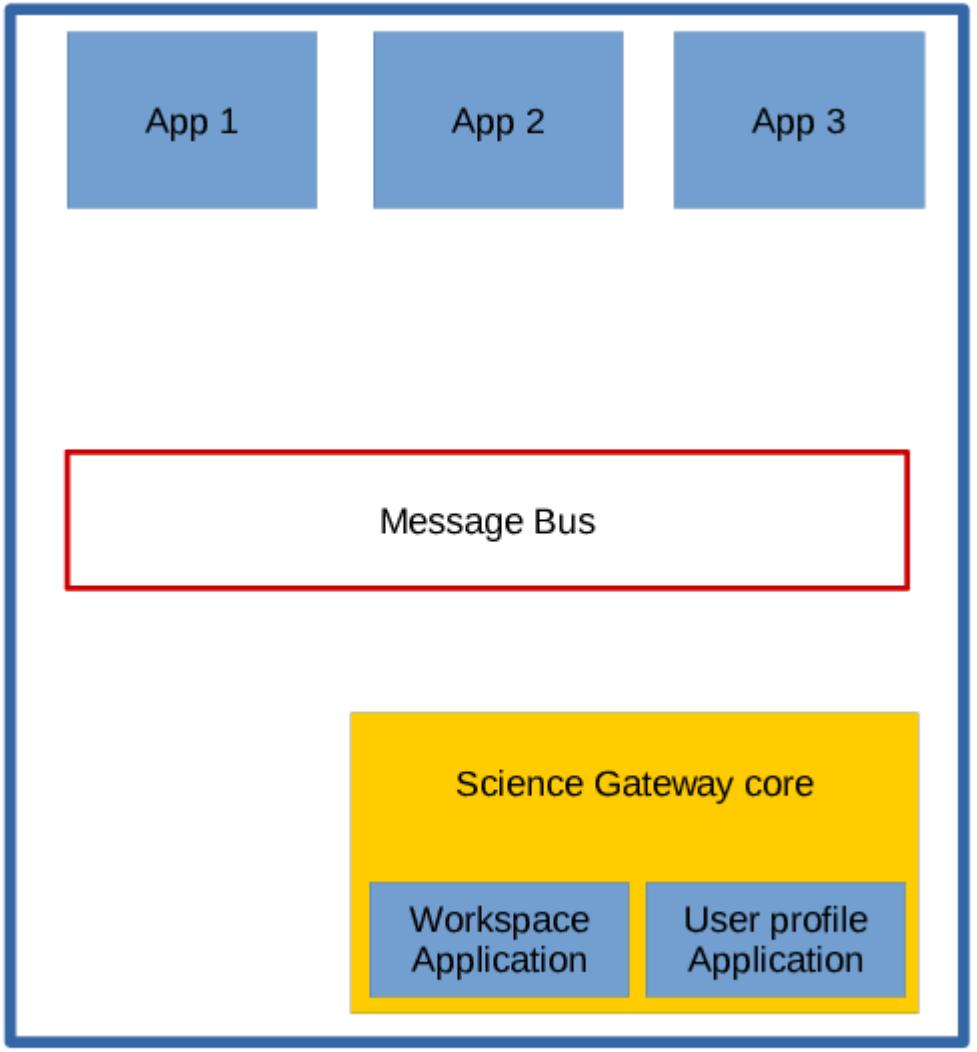
Start to write the test cases in order to link them to each level C specification

Gateway

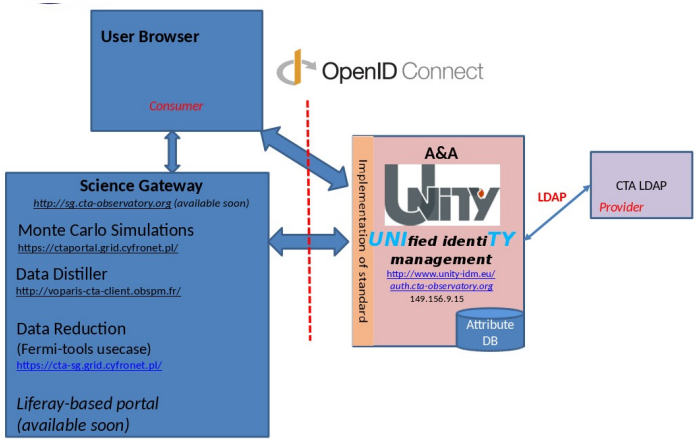
Creation of
- A Workspace App
- A User Profile App

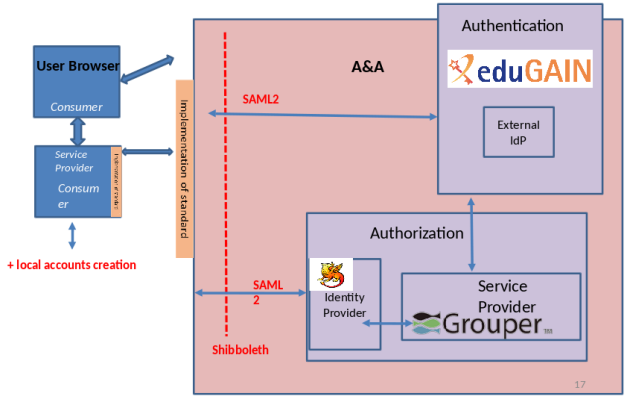
Work on first integration of application with the PH units.

Update Manual and Fermi test case



A&A





Currently 2 solutions

Work on Criteria for a good A&A system <u>for CTA</u> based on the Use cases and User requirements

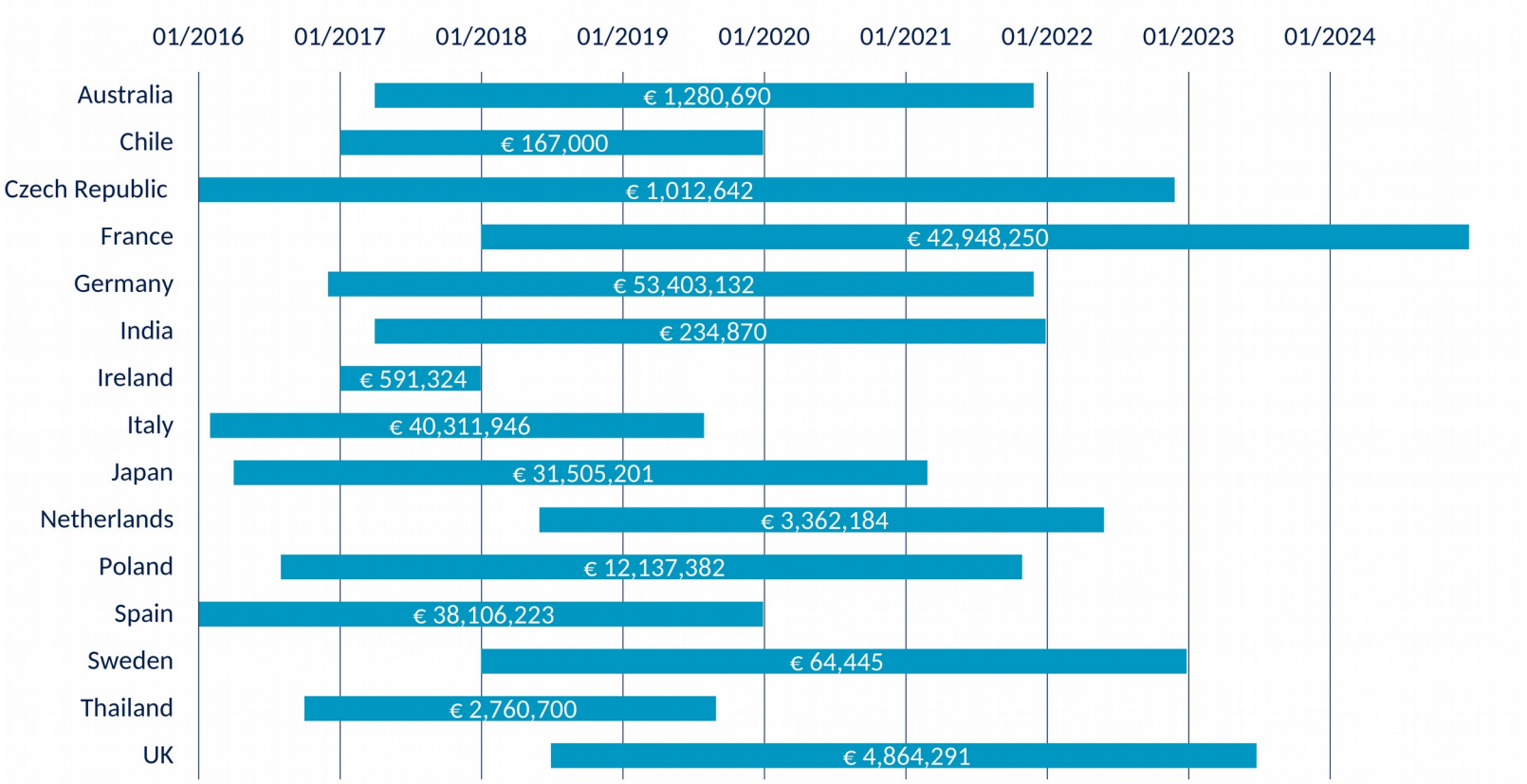
- improve UC and UR
- list of critera for the PO
- phone call

Backup slides

Offers: work packages

	Baseline	Offered products				
	# of products	# of products (in EoIs)	Equipment costs (from cost estimate)	Equipment costs offered (in EoIs)	Labour [FTE] (from cost estimate)	Labour offered (in EoIs)
ACTL	1	1	€ 5,995,000	30%	165	83%
DATA	1	1	€ 18,300,000	24%	280	99%
SST-1M	70	21	€ 10,858,000	98%	24	88%
SST-2M ASTRI		38	€ 24,498,000	97%	83	31%
SST-2M GCT		25	€ 16,574,000	102%	96	76%
MST	40	15	€ 17,287,000	98%	56	123%
MST FlashCam	40	15	€ 12,662,000	94%	43	93%
MST NectarCam		16	€ 22,190,000	69%	128	85%
LST	8	7	€ 60,155,000	93%	183	90%
COM	1	1	€ 3,556,000	80%	157	69%

Time-line of institute funding



Cash flow to institutes