KNMI Applications on Testbed 1

…and other activities

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Contents:

- Test & Validation Plans:
    - WP9: ESA, IPSL, KNMI
    - KNMI test plans in more detail
    - Goals for testbed 1
- Current status
- Questions

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WP9 tests

- All tests described in: DataGrid-09-TEN-0601-1_2.doc
- Common time line defined at Frascati WS
- ESA, IPSL and KNMI have separate tests, which can be carried out independently:
- Test were presented at TWG meeting at CERN

Documents

Detailed Plans

- Common WP9 template format for all partners & experiments

- A 'live', evolving reference document

- Designed to identify issues to be clarified

- Used for testbed reporting

Spreadsheet

- Plans at a glance

- Timelines

- Overall plans and individual partner schemes

KNMI test plans

1. Basic authentication and authorization tests

2. Run 'hello world' script (csh-script)

3. FORTRAN job submission

4. Test job life cylce (from WP1 doc)

5. Replica Catalogue

6. Run header extractor

7. test WP4 tools ?

8. Run OPERA code

KNMI SGI farm is not part of Testbed 1
(only User Interface will run at KNMI)

....KNMI plans in (much) more detail

KNMI-1 Basic authorization and authentication tests

KNMI-2 Run 'hello world' script (csh-script)

KNMI-3a Run Fortran program printing ''hello from Fortran''

KNMI-3b Run FORTRAN program, forcing the CE

KNMI-4 Test job life cylce

KNMI-5a Use GDMP to register a GOME level 1 file (LFN)

KNMI-5b Test what happens if same file is registered twice

KNMI-5c Retrieve file from ReplicaCatalogue to local disk

KNMI-5d Remove a file from the ReplicaCataloge

KNMI-5e Remove the master copy of a file

KNMI-6a Run script to retrieve the header of a level 1 file, Retrieve directly

KNMI-6b Run script to retrieve the header of a level 1 file. Use SE for storage & retrieval

KNMI-7a Start job and monitor the CE its executing on

KNMI-7b Monitor an SE, use 6b as basis

KNMI-7c Configure a node using WP4 tools

KNMI-7d Configure node to run OPERA S/W

KNMI-8a Use OPERA code to process one level 1 file

KNMI-8b Use OPERA code to process one level 1 file, store result on SE (result availble for GRID)

KNMI-8c Use OPERA code to process one day of data (14 files), store results on SE

KNMI-8d Use OPERA code to process one week of data ((7*14 files), store results on SE

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Goals for testbed 1

- Simple job submission & monitoring
- Use of i/o sandboxes
- Data replication and LFN to PFN translation
  - File open
- Application Environment
  - Prepare & install RPMs
  - Test case to select app environment
- Application deployment
  - IDL, FORTRAN, OPERA app

Goals for testbed 1 (II)

Running OPERA code to retrieve ozone profiles from GOME level 1 data

OPERA is a FORTRAN implementation of the DOAS ozone profile retrieval algorithm developed at KNMI.

- ESA will derive ozone profiles from the same data set. (with their own algorithm)
- IPSL will compare them (using ground based measurements)

Current status:

- Agreed on a common GOME dataset
  (November 28 to December 4, 1999)

- John is EO-VO admin

- Accounts on compact@sara and login@nikhef

- Data set copied to compact

- Working on OPERA code on compact (Get OPERA code running)

- Agreed on a 'workable situation' with our IT department. (DataGrid UI machine outside firewall in other domain than KNMI)

- Writing test scripts

Questions

- Uncertainty about the attendance of the Testbed 1 tests at CERN.

- proxy's and services needed by the DataGrid S/W in the future for firewall configuration

Validation plan timeline

Integration assessment
1 person / application

Application integration +
Test plan
1 person / application

Software
integration

8   15   22   29   5   12   19   26   3   ⑩ WP8   1

⑩ WP9

⑩ WP10

Party!

Doc review
WP1 M.Reale
WP2 J.Templon
WP3 I.Augustin
WP4 A.De Salvo
WP5 JJ.Blaising

Message to
WP9 & WP10

WP8 staff
Basic testing, TB0 kits?
(if everything ok)

TWG + WP8-10 General
Meeting
Validation plans presented

⑩ **Start writing 8.2**

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