

DMF USER GROUP MEETING AGENDA

You are invited to the inaugural meeting of a DMF Users Group, at

**CSIRO Advanced Scientific Computing (ASC)
Australian Bureau of Meteorology Building
700 Collins Street, Docklands Vic 3008
Wednesday 14th October 2009 from 10:00am**

Access:

On arrival, visitors must get a visitor's pass from the Bureau of Meteorology reception desk, which is on the ground floor (level 5), to the right of the lift foyer as you enter from Collins St.

Proceed then to level 6 and go to Conference Room 2. If you get lost, you can call our Help Desk on ext 8103. (If there's no reply, try 0408 327 399.)

The room is fitted out with a projector; if presenting anything electronic, you can bring your own laptop, or plug a thumb drive into ours.

Agenda:

10:00 Welcome and introduction - Dr. Robert C. Bell - CSIRO ASC

10:15 DMF Customer Site Introductions

Each customer site represented would be asked to give a 10 minute site profile.

For example: the aims of the site/organisation, what applications are being run, the kind of facilities being offered to users, the hardware being used, some statistics on holdings and throughput and/or current major issues.

11:00 Break

11:15 Presentation - Dr. Robert C. Bell – CSIRO ASC
"DMF as a target for backups and disaster recovery"

This talk will briefly review the need for backups, and then outline how CSIRO ASC is carrying out backups of non-DMF-managed local and remote file systems, using a DMF-managed file system as a target for the backups.

The techniques in use provide:

- coverage back in time adjusting to the likelihood of recovery being needed
- full backups every time, for the cost of incrementals
- simple visibility of the backup holdings
- simple recovery for individual files and complete file systems
- no vendor dependency
- centralised tape management
- space saving of about a factor of five compared with conventional backups

- 11:45** **Presentation – Bill Ryder – WETA**
“DMF at Weta, with a sidebar on what we've done with Mediaflux”
- 12:15** **Presentation - Peter Edwards – CSIRO ASC**
“Load sharing recalls between multiple volume groups”
- It will be shown how a DMF administrator can predict which tapes will be required by a volume group for future file recalls and in what order.
- This capability will then be used to distribute recalls across multiple volume groups, thereby increasing the utilisation of the site's tape drives.
- 12:45** **Lunch – Sponsored by SGI**
- 2:00** **Discussion - Aims of the DMF-UG**
- Target audience
 - Meeting frequency
 - Mailing lists, web site
 - Sharing of resources
- 2:45** **Discussion – DMF over a WAN**
- 3:00** **Presentation – Nicholas McPhee – Monash University**
“*Large Research Data Store (LaRDS)*”
- 3:10** **Presentation – Peter Edwards – CSIRO ASC**
“A *dmget* wrapper script”
- CSIRO requires some capabilities which are not provided as part of the standard DMF product, specifically:
- Rate limiting of file recalls to prevent accidental Denial of Service incidents
 - Population of a DMF cache (ie: a DCM), to be triggered by file recalls from tape by users
 - Prediction of recall order
- These are implemented via a wrapper script around the standard “dmget” command.
- 3:30** **Presentation – David Honey – SGI**
“DMF as green storage”
- As delivered at eResearch08.
- 4:00** **Close**

(Revised 15/10/2009, after the meeting. Times are approx.)