

US LHC Network Working Group

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Welcome

Presenter: Mr PETRAVICK, Don

Contribution ID: 2

Type: **not specified**

Roadmap and Outlook

Presenter: NEWMAN, Harvey

Contribution ID: 3

Type: **not specified**

US LHCNet in 2006 to 2010

Monday, 23 October 2006 11:10 (30 minutes)

Presenter: RAVOT, Sylvain (Caltech)

Contribution ID: 4

Type: **not specified**

ESnet4

Monday, 23 October 2006 13:00 (20 minutes)

With focus on capabilities supporting LHC physics.

Presenter: JOHNSTON, Bill (ESnet)

Contribution ID: 5

Type: **not specified**

Internet2 NewNet

Monday, 23 October 2006 11:40 (20 minutes)

With focus on capabilities supporting LHC physics.

Presenter: SUMMERHILL, Rick (Internet2)

Contribution ID: 6

Type: **not specified**

Monitoring Panel

Monday, 23 October 2006 17:10 (30 minutes)

Panel and discussion of monitoring and diagnosis in LHC context.

Presenters: LEGRAND, Iosif (Caltech); METZGER, Joe; DEMAR, Phil; MCKEE, Shawn; RAVOT, Sylvain

Contribution ID: **10**

Type: **not specified**

Welcome & Overview

Monday, 23 October 2006 08:30 (10 minutes)

Presenter: PETRAVICK, Don (Fermilab)

Contribution ID: **11**

Type: **not specified**

Atlas computing model & requirements

Monday, 23 October 2006 15:20 (30 minutes)

Presenter: SHANK, Jim

Contribution ID: **12**

Type: **not specified**

CMS computing model & requirements

Monday, 23 October 2006 15:50 (30 minutes)

Presenter: FISK, Ian (Fermilab)

Contribution ID: **13**

Type: **not specified**

US LHCNet roadmap & outlook

Monday, 23 October 2006 08:40 (30 minutes)

Presenter: NEWMAN, Harvey (Caltech)

Contribution ID: **14**

Type: **not specified**

US DOE funding and management model

Monday, 23 October 2006 09:10 (30 minutes)

DOE funding and managment, and AUP basis for US LHCnet.

Presenter: TULL, Craig (DOE)

Contribution ID: 15

Type: **not specified**

CERN roles in T0-T1-T2 networking

Monday, 23 October 2006 09:40 (30 minutes)

Presenter: FOSTER, David (CERN)

Contribution ID: **16**

Type: **not specified**

CSA06 experience

Experience with CMS data transfers in CSA06 and previous trials.

Presenter: BAKKEN, Jon (Fermilab)

Contribution ID: 17

Type: **not specified**

Atlas data transfer experience

Presenter: YU, Dantong (Brookhaven)

Contribution ID: **18**

Type: **not specified**

System factors affecting throughput

Monday, 23 October 2006 16:40 (30 minutes)

Analysis of throughput; OS and host factors that affect data transfers.

Presenter: CRAWFORD, Matt (Fermilab)

Contribution ID: **19**

Type: **not specified**

GEANT2's role in LHC

Contribution ID: **20**

Type: **not specified**

CA*Net4

Monday, 23 October 2006 13:40 (20 minutes)

With focus on capabilities supporting LHC physics.

Presenter: TAM, Thomas (CANARIE)

Contribution ID: **21**

Type: **not specified**

IRNC

Monday, 23 October 2006 14:00 (20 minutes)

With focus on capabilities supporting LHC physics.

Presenter: MAMBRETTI, Joe

Contribution ID: **23**

Type: **not specified**

SURFnet and NetherLight

Tuesday, 24 October 2006 08:30 (20 minutes)

Presenters: PEETERS, Bram; BOS, Erik-Jan (SURFnet)

Contribution ID: 24

Type: **not specified**

Network troubleshooting in global LHC computing

Monday, 23 October 2006 10:50 (20 minutes)

Presenter: DEMAR, Phil (Fermilab)

Contribution ID: 25

Type: **not specified**

Discussion: T2 to T1 networking possibilities across the Atlantic

Explore means and options of linking T2 centers to T1 centers across the Atlantic - in both directions.

Contribution ID: 26

Type: **not specified**

Current transatlantic T2-T1 networking (North American view)

Current T2-T1 connectivity uses ESnet, Internet2, or CA*Net4 to cross the ocean. What are the capacities and capabilities?

Presenters: JOHNSTON, Bill; TAFIROUT, Reda (TRIUMF); SUMMERHILL, Rick (Internet2)

Contribution ID: 27

Type: **not specified**

Circuit-Oriented Standards-Based Protocols

Introduction to GFP, VCAT, LCAS, GMPLS.

Contribution ID: **28**

Type: **not specified**

End-to-End circuit issues

Configuration and use of VLANs and MPLS tunnels.

Contribution ID: 29

Type: **not specified**

Experiments' Network Issues

Tuesday, 24 October 2006 10:30 (40 minutes)

Experiments give their impressions and feedback, indicating areas where they feel more work is needed.

Presenters: FISK, Ian (Fermilab); SHANK, Jim

Contribution ID: **30**

Type: **not specified**

Discussion Wrapup and Conclusions

Tuesday, 24 October 2006 16:40 (45 minutes)

What are the gaps in the way of meeting all the experimental needs among

T0, T1, and T2?

Can we form a coherent provisioning model for T1-T2 data access?

What resources will be keys to the hard parts?

And what do we need to do for T3 connectivity?

Presenters: NEWMAN, Harvey (Caltech); SHELDON, Paul (Vanderbilt University)

Contribution ID: **31**

Type: **not specified**

Working session on next steps and priorities (cont.)

What are the gaps in the way of meeting all the experimental needs among T0, T1, and T2?

Can we form a coherent provisioning model for T1-T2 data access?

What resources will be keys to the hard parts?

And what do we need to do for T3 connectivity?

Presenter: NEWMAN, Harvey (Caltech)

Contribution ID: **32**

Type: **not specified**

US LHCNet Milestones

Tuesday, 24 October 2006 08:50 (45 minutes)

Presenters: NEWMAN, Harvey (Caltech); RAVOT, Sylvain (Caltech)

Contribution ID: **33**

Type: **not specified**

Backbone Network Issues

Tuesday, 24 October 2006 13:40 (45 minutes)

Presenters: METZGER, Joe (ESnet); SUMMERHILL, Rick (Internet2)

Contribution ID: **34**

Type: **not specified**

Tier1 Network Issues

Tuesday, 24 October 2006 11:10 (45 minutes)

Presenters: PETRAVICK, Don (Fermilab); BRADLEY, Scott (Brookhaven NL)

Contribution ID: 35

Type: **not specified**

US-Europe Connections

Tuesday, 24 October 2006 09:35 (40 minutes)

Presenter: FOSTER, David (CERN)

Contribution ID: **36**

Type: **not specified**

Tier-2 & Tier-3 Network Issues

Tuesday, 24 October 2006 13:00 (40 minutes)

Presenters: FISK, Ian (Fermilab); MCKEE, Shawn (Univ. of Michigan)

Contribution ID: 37

Type: **not specified**

Introduction to GFP, VAT, LCAS, and GMPLS

Tuesday, 24 October 2006 14:25 (30 minutes)

Presenter: SUMMERHILL, Rick (Internet2)

Contribution ID: **38**

Type: **not specified**

End-to-end Circuit Issues

Tuesday, 24 October 2006 14:55 (45 minutes)

Presenters: JOHNSTON, Bill (ESnet); YU, Dantong (Brookhaven NL)

Contribution ID: **39**

Type: **not specified**

US LHCNet AUP

Tuesday, 24 October 2006 15:55 (45 minutes)

Presenters: TULL, Craig (DOE); DEMAR, Phil

Contribution ID: **40**

Type: **not specified**

Tier1 Networking - Fermilab

Monday, 23 October 2006 10:10 (20 minutes)

Presenter: PETRAVICK, Don (Fermilab)

Contribution ID: 41

Type: **not specified**

Tier1 Networking - Brookhaven

Monday, 23 October 2006 14:20 (20 minutes)

Presenter: BIGROW, John (Brookhaven NL)

Contribution ID: 42

Type: **not specified**

Tier1 Networking - Triumph

Monday, 23 October 2006 14:40 (20 minutes)

Presenter: GABLE, Ian (HEPNET/Canada)

Contribution ID: 43

Type: **not specified**

Tier-3 Connections over Internet2

Monday, 23 October 2006 16:20 (20 minutes)

Presenter: CARLSON, Rich

Contribution ID: 44

Type: **not specified**

National Lambda Rail

Monday, 23 October 2006 13:20 (20 minutes)

Presenter: WEST, Tom (NLR)

Contribution ID: 45

Type: **not specified**

Circuit-Oriented Services or High Throughput Data Transfer Applications (optional)

Tuesday, 24 October 2006 17:25 (1h 15m)

Presenters: GUOK, Chin (ESnet); Mr YU, Dantong (Brookhaven); LEGRAND, Iosif (Caltech); CRAWFORD, Matt (Fermilab); MCKEE, Shawn (Univ. of Michigan)

Contribution ID: 46

Type: **not specified**

Recent experience with PCI-X 2.0 and PCI-E network interfaces and emerging server systems

Monday, 23 October 2006 17:40 (15 minutes)

Presenter: XIA, Yang (Caltech)