

LHCOPN issues

Response of MDM monitoring

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10.12.09



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■ Backup-Link test 14.10.09

- Shutdown link to Cern -> backup via IN2P3 7:00 (UTC)
 - Route changed to IN2P3
- Shutdown link to IN2P3 -> backup via NL-T1 7:30 (UTC)
 - Route changed to NL-T1
- Shutdown link to NL-T1 -> backup via CNAF 8:00 (UTC)
 - Route changed to CNAF (only CNAF + CERN; no other Tier-1)
- „link up“ to NL-T1 -> backup via CNAF 8:30 (UTC)
 - Route changed to NL-T1
- “link up“ to IN2P3 -> backup via NL-T1 9:30 (UTC)
 - Route changed to IN2P3
- “link up” to Cern -> backup via IN2P3 10:00 (UTC)
 - Route changed to CERN

INFO @ CERN Twiki:

<https://twiki.cern.ch/twiki/bin/view/LHCOPN/LhcopnBackupTestsResults2009>

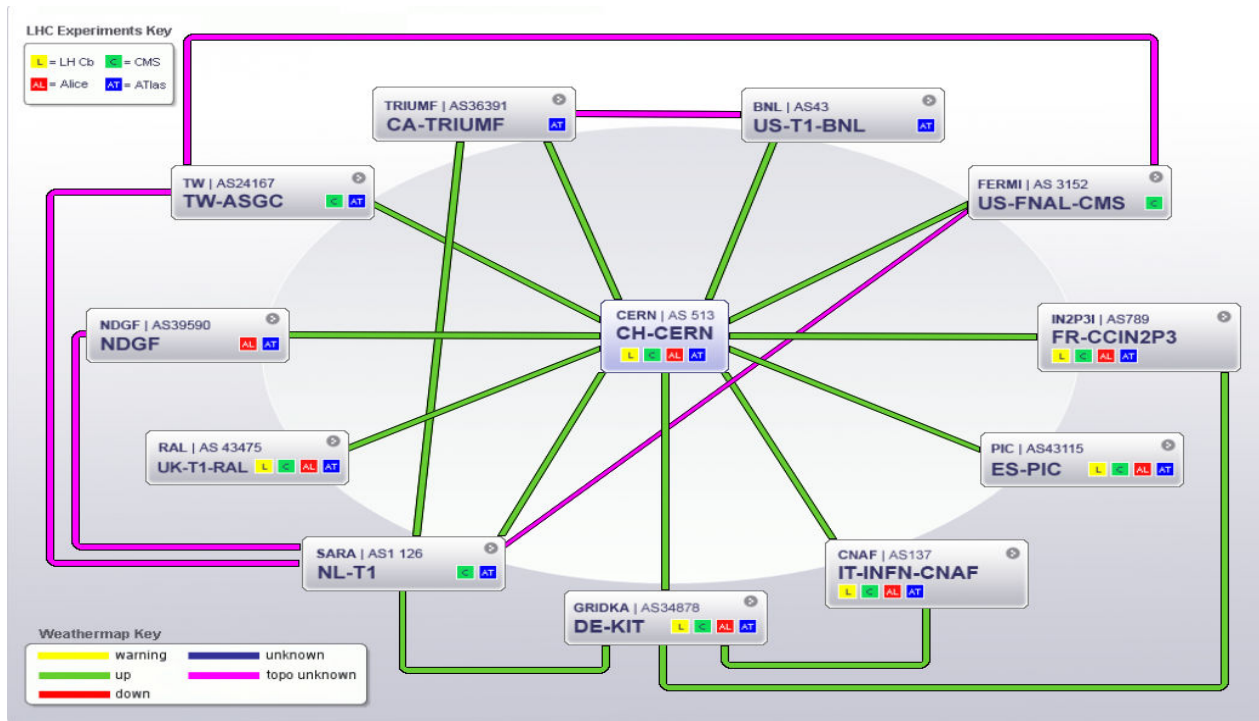
Guillaume ... : no check of MDM → but we did monitor MDM and saw no sign of any of the link changes

Link down to IN2P3 (06.12.09)

e2e- / MDM monitoring

21:00 (CET) :

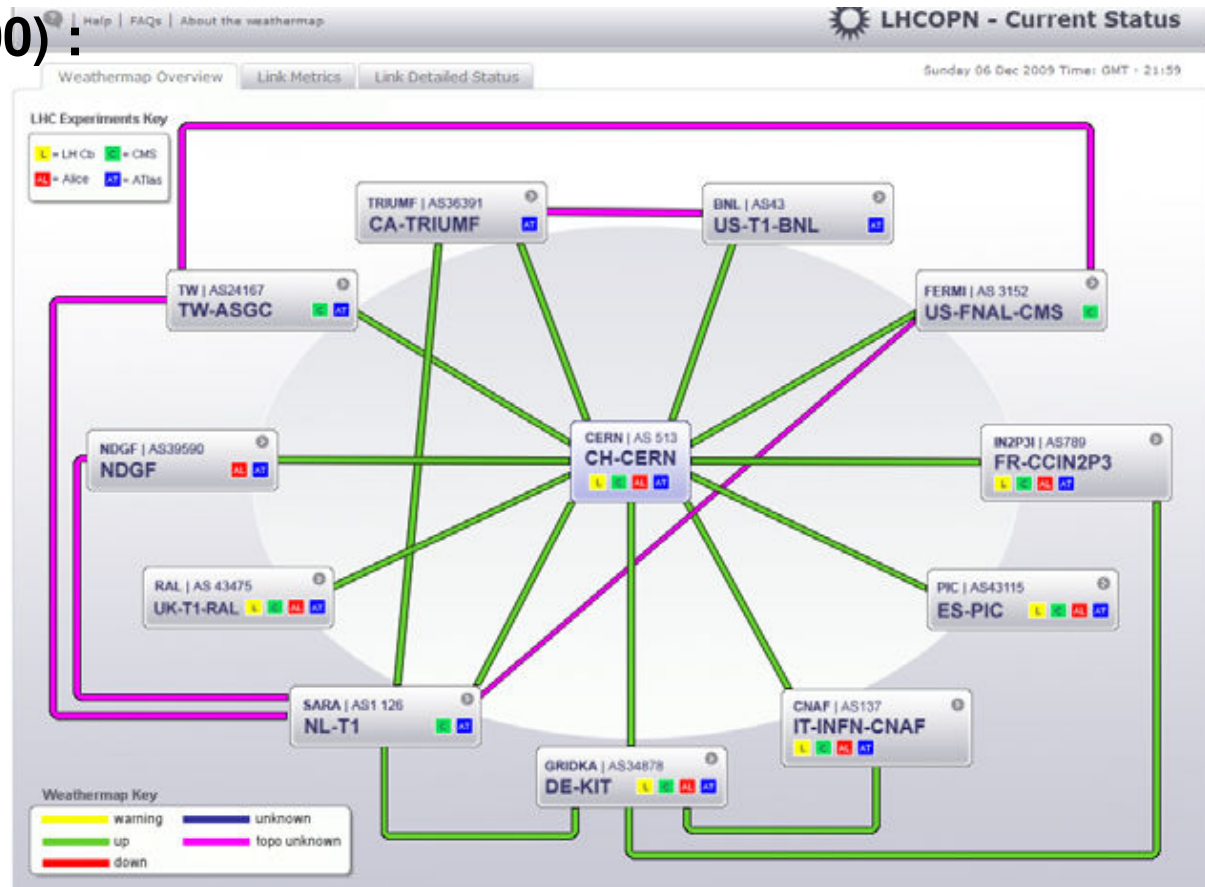
Domain	DFN				RENATER				IN2P3		
Link Structure	EP	↔	DP	←.....→	DP	↔	DP	←.....→	EP
Type	EndPoint	Domain Link	Demarc	ID Part Info	ID Part Info	Demarc	Domain Link	Demarc	ID Part Info	ID Part Info	EndPoint
Local Name	DFN-FZK31	DFN-GE10/HUA1106_FZK_KEH	DFN-KEH8	DFN-GE10/ANWD_KA1181_KEH_ORENAT	RENATER-KEH-DFN	RENATER-KEH	RENATER-KEH-LYO	RENATER-LYO	RENATER-LYO-GRIDKA-IN2P3	IN2P3-RENATER_LYO_GRIDKA	IN2P3-GRIDKA1
State Oper.	-	Up	-	Up	Unknown	-	Up	-	Up	Up	-
State Admin.	-	Normal Oper.	-	Normal Oper.	Normal Oper.	-	Normal Oper.	-	Normal Oper.	Normal Oper.	-
Timestamp	-	2009-12-06 T20:38.00+01.00	-	2009-12-06T20:38.00+01.00	2009-12-6 T20:54.01.0+0000	-	2009-12-6 T20:54.01.0+0000	-	2009-12-6 T20:54.01.0+0000	2009-12-06T19:53:01.0-6.00	-



Second LHCOPN issue

06.12.09

- LINK down between DE-KIT and IN2P3
 - Dec 6 19:29:00.674: Interface TenGigabitEthernet1/1, changed state to down
- 2.5 hours Later (23:00) :



Second LHCOPN issue

06.12.09

■ e2emon at 23:00 (CET):

Domain	DFN				RENATER				IN2P3		
Link Structure	EP	↔	DP	←.....		DP	↔	DP	←.....→	EP
Type	EndPoint	Domain Link	Demarc	ID Part Info	ID Part Info	Demarc	Domain Link	Demarc	ID Part Info	ID Part Info	EndPoint
Local Name	DFN-FZK31	DFN-GE10/HUA1106_FZK_KEH	DFN-KEH8	DFN-GE10/ANWD_KA1181_KEH_ORENAT	RENATER-KEH-DFN	RENATER-KEH	RENATER-KEH-LYO	RENATER-LYO	RENATER-LYO-GRIDKA-IN2P3	IN2P3-RENATER_LYO_GRIDKA	IN2P3-GRIDKA1
State Oper.	-	Up	-	Up	Unknown	-	Up	-	Up	Up	-
State Admin.	-	Normal Oper.	-	Normal Oper.	Normal Oper.	-	Normal Oper.	-	Normal Oper.	Normal Oper.	-
Timestamp	-	2009-12-06 T22:38.00+01.00	-	2009-12-06T22:38.00+01.00	2009-12-6 T22:56.01.0+0000	-	2009-12-6 T22:56.01.0+0000	-	2009-12-6 T22:56.01.0+0000	2009-12-06T21:55.02.0-6.00	-

■ ggus LHCOPN – Ticket-# : 53908

■ E2ecu was included as receipt

Layer-2 link interruption within Renater

proposal

- **Include in MDM monitoring**
 - **Change of route**
 - **Visible in weather map → red/green stripes**
 - **update of MDM monitoring (15 min)**
 - **Investigation of invisible interruptions**

thanks for your attention



Questions

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