

LTA status

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Lofar Status Meeting

September 16th 2015

Results

May 27th – Sept 15th

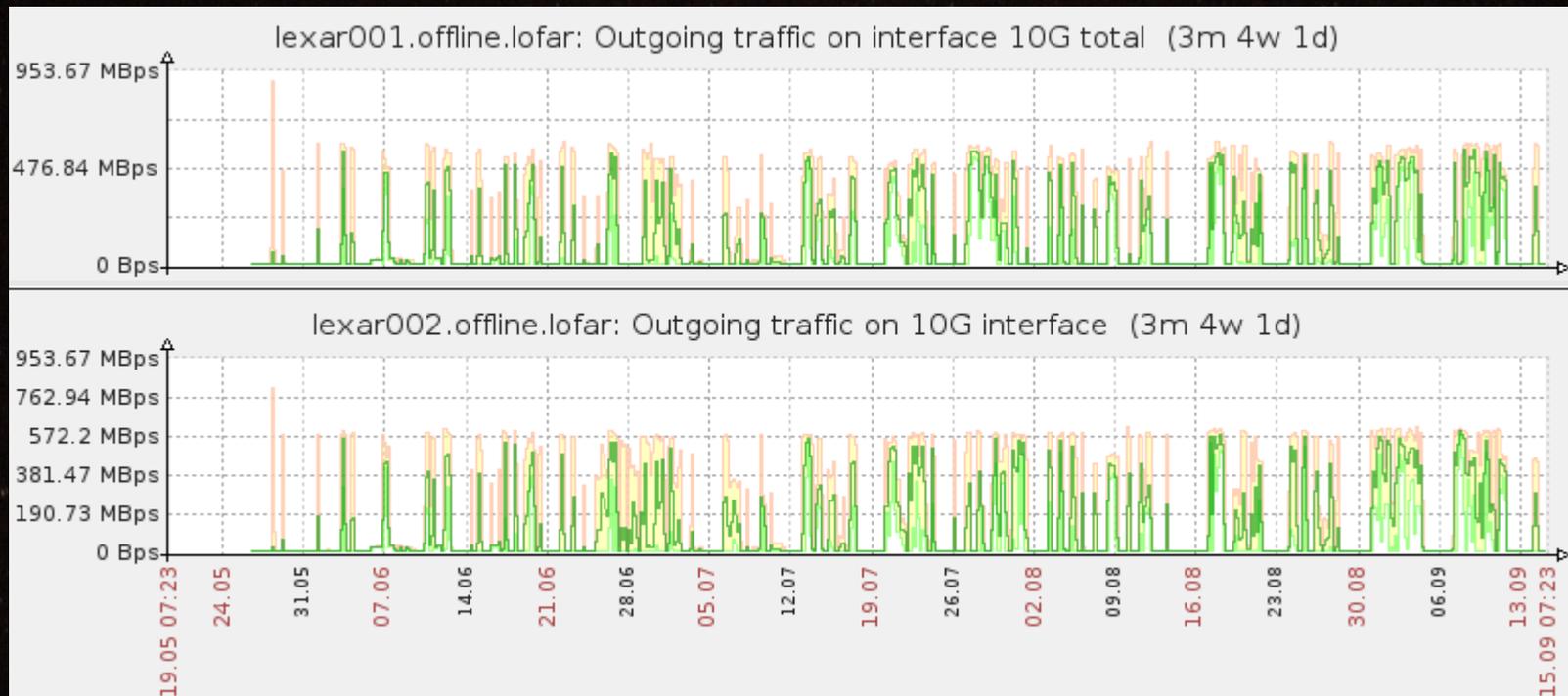


Data transferred to the LTA: 2.3 PB (0.85 Jülich / 1.45 SARA)

Data staged/retrieved from the LTA: 1.7 PB

Total stored: 20.9 PB (5.7 Jülich/13.2 SARA/2.0 Target)

Total staged: 5.2 PB + EoR + pulsar + CR + other



Improvements

In Lofar 2.12 (sep 7 2015) we simplified the software between MoM and Ingest

- Resulting in:
 - More stable & robust ingest jobs,
 - Progress monitoring (percentage & number of files)
 - Restart button to try again in case of error



The screenshot shows the Project Explorer interface with a table of projects. The table has columns for project name, actions, status, and description. A red circle highlights the row for the project '2015-08-30', which has a 'Restart' button and a 'finished' status.

Project Explorer		OK Status	
<input type="checkbox"/> LC4_016	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/> active	Fine structures in solar radio emission
<input type="checkbox"/> 2015-08-30	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/>	[G577987]
<input type="checkbox"/> CasA_LBA_IM	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/> finished	[370220] CasA, LBA_outer, 30-77MHz, 16ch/sb, integration time 1.0s, interferometer
<input type="checkbox"/> CasA_LBA_pre	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/> finished	[370222] CasA, LBA_outer, 30-77MHz, 16ch/sb, integration time 0.01s
<input type="checkbox"/> Sun_LBA_20150830	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/> finished	[370224] Sun, LBA_outer, 30-77MHz, 16ch/sb, integration time 0.01s
<input type="checkbox"/> CasA_LBA_post	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/> finished	[370226] CasA, LBA_outer, 30-77MHz, 16ch/sb, integration time 0.01s
<input type="checkbox"/> 2015-08-30	<input type="button" value="Restart"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/> finished	100.0% Ingested (433 of 433)
<input type="checkbox"/> 2015-08-31	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input type="checkbox"/> warning	[G577998]
<input type="checkbox"/> 2015-09-01	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input type="checkbox"/> warning	[G578000]
<input type="checkbox"/> 2015-09-03	<input type="button" value="Add"/> <input type="button" value="Details"/>	<input checked="" type="checkbox"/>	[G578020]

In Lofar 2.12 (sep 7 2015) LtaCp was improved to better handle network glitches during large transfers

- Resulting in:
 - Less retries for large file transfers
 - Overall larger transfer speed

- Monitoring:
 - We are working on tools to monitor LTA storage and staging on a daily basis presenting results in zabbix and web charts
- CEP4:
 - 4 new lexar's (ingest nodes) will be directly connected to CEP4 for fast and reliable transfers
- 'Catalogue repair/update':
 - EoR is uploading all meta-data for the unspecified dataproducts
 - For Pulsar & MSSS we would like to automate this process
- User Ingest is currently on hold, but we are looking ways to use the new ingest nodes as a single 'gateway' to the LTA for other clusters