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Enabling Grids for E-sciencE
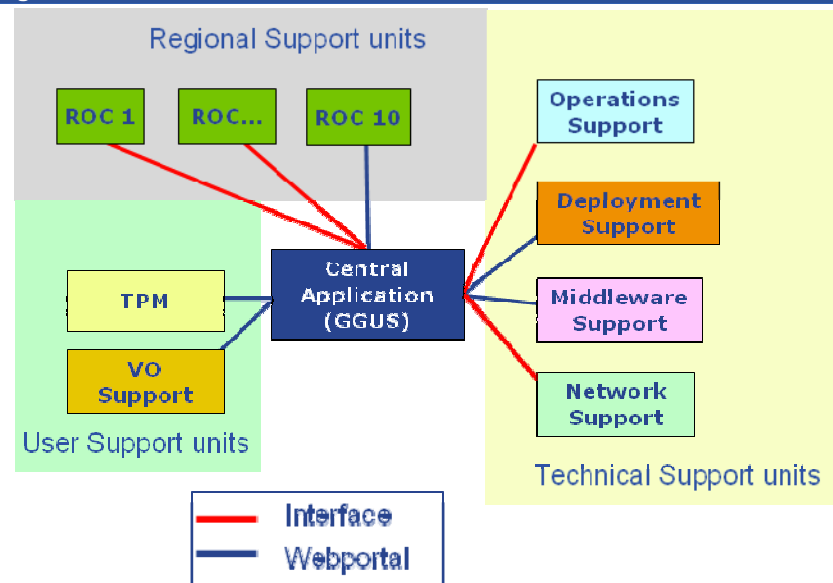
Technical Network Liaison Committee

Status of the ENOC

Mathieu Goutelle (EGEE-SA2, CNRS UREC)

EGEE'06 conference – Geneva, 2006-09-28

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Enabling Grids for E-sciencE

- **Creating a "Network Support unit" in the EGEE operational model;**

- **Based on the work done during EGEE:**

  – Definition of the ENOC: tasks, requirements, tools;

  – Definition of the actors, interfaces and procedures;

  – Tests on a limited set of NRENs.

- **First implementation in EGEE-II:**

  – First "iteration";

  – Planned developments in the next months.

Enabling Grids for E-sciencE

- **Collect tickets from NRENs which agree to send them to the ENOC;**

- **Forward to GGUS the ones that seem relevant (possible impact on the grid infrastructure);**

- **Receive tickets assigned to ENOC by the GGUS TPM (1st level support);**

- **Troubleshoot them provided that the ENOC has access to suitable monitoring tools;**

- **Contact identified faulty domains or reassign ticket to the associated site if there is no evidence of a backbone problem (e.g. LAN issue).**
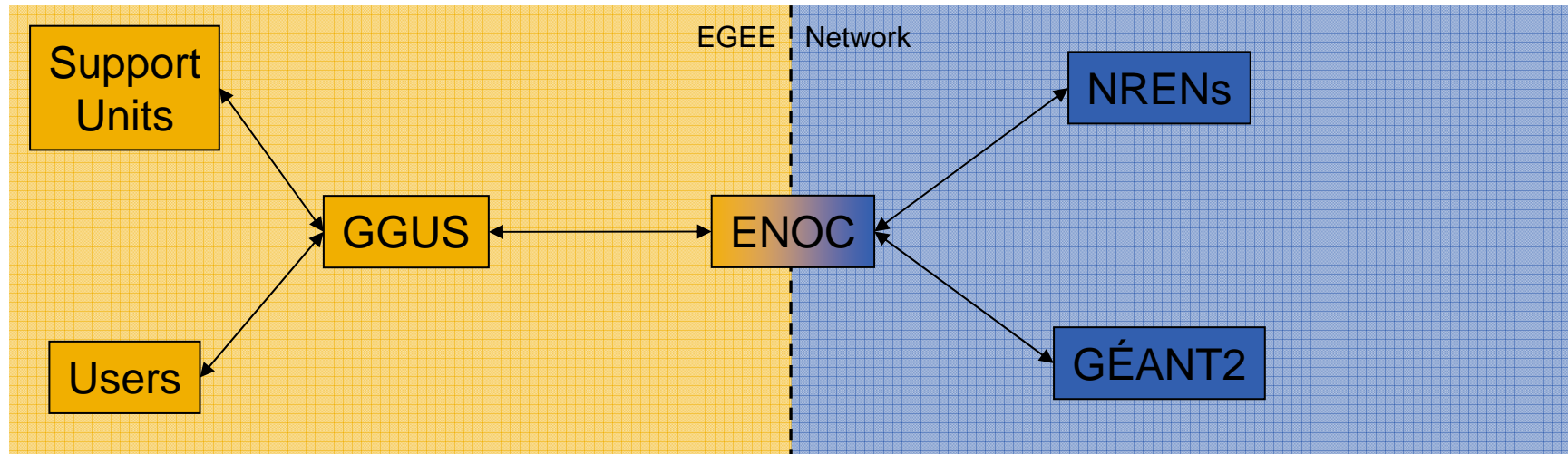
- **Interface with NRENs is running like in EGEE:**
  - ENOC receives Trouble Tickets (incident, maintenance) from GÉANT and the NRENs (currently France, Germany, Greece, Hungary, Ireland, Italy, Russia, Spain, Switzerland, and United Kingdom);
    - More to come: Poland, the Netherlands, Czech Republic;
  - Forward it to GGUS after analysis and if relevant to EGEE.
- **Identified as the Network Support unit in GGUS:**
  - 2nd level support for network related issues.
- **Follow-up on recommendation #19.**

Enabling Grids for E-sciencE

- **Interface with NRENs:**
  - Via emails: no standardization;
  - Languages issue: 8 different languages;
  - Current work on TT standardization via the TNLC (see later).

- **Interface with GGUS:**
  - Use of web services, alike the (ex-)CIC portal;
  - This was not planned to be available so quickly (thanks to FZK for their swift work!);
  - Currently being tested under maximum load since the beginning of the month.

- **Network Operational Database:**
  - Same function as the GOCDB for the ENOC;
  - Contains info (contact, available services, etc.) on the interconnections of network domains between EGEE sites;
  - Need now to consolidate the stored information!
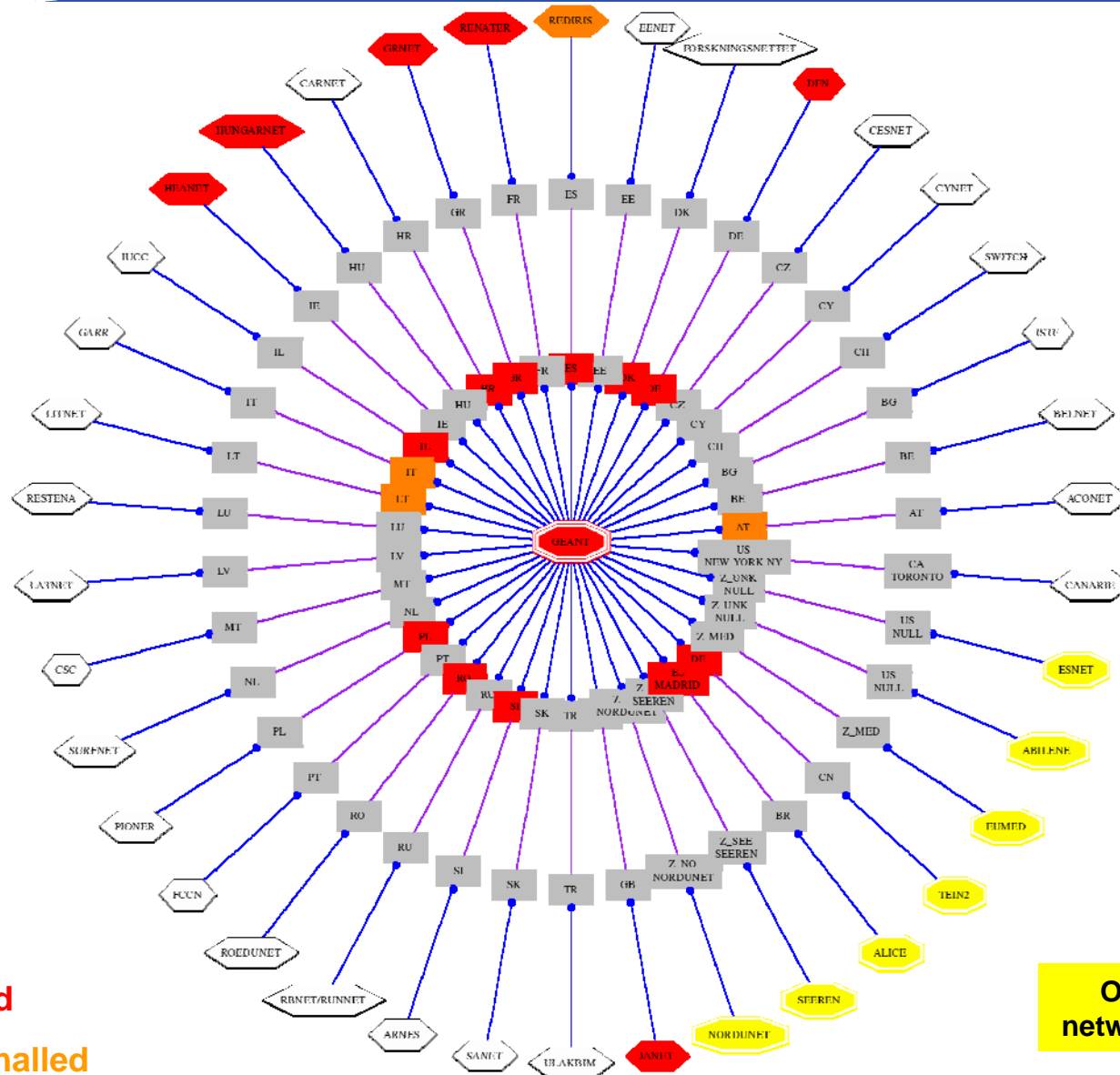
Incident signalled

Maintenance signalled

Other "network of networks" like GÉANT2

Enabling Grids for E-sciencE

EGEE sites

Enabling Grids for E-sciencE
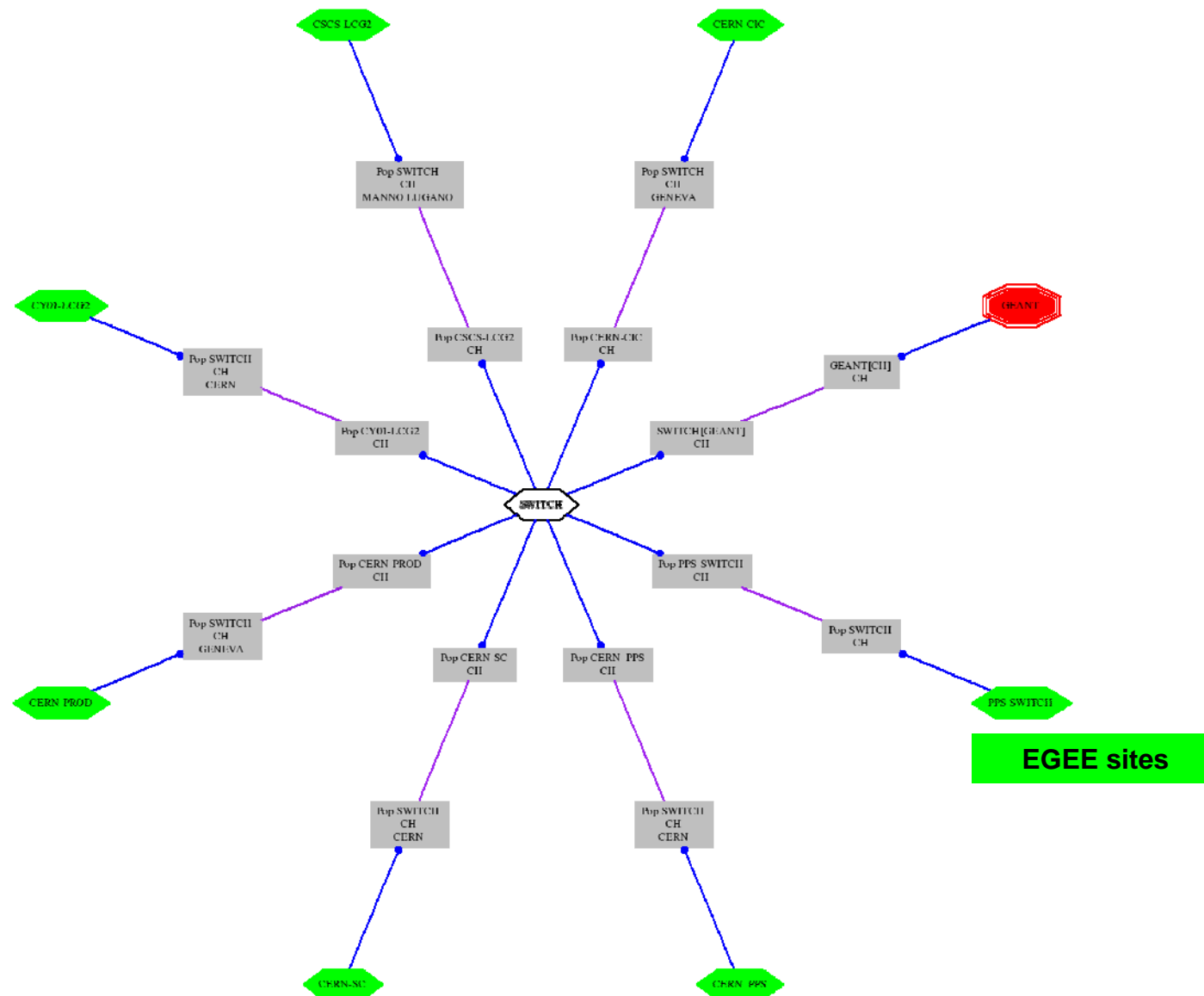
- **Currently running according to plans:**
  - First iteration of the implementation;
  - Procedures are iteratively refined and enhanced;
  - Tools are being developed to improve the information channel and ease the processes;

- **Summary of issues:**
  - Still some NRENs missing;
  - Consolidation of the data in the Network Operational DB;
  - Monitoring tools?
  - Support for the OPN: interim phase, runtime phase?

Thanks for your attention!