

GLIF Control Plane WG Meeting

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ControlPlane Agenda

Monday 18 September

14.00 - 14.10 Welcome and agenda bashing

(Gigi Karmous-Edwards, MCNC)

14.10 - 14.40 GMPLS token mechanisms

(Leon Gommas, UvA)

14.40 - 15.10 Control plane architecture and technology for managing lightpaths for optical multicast (Joe Mambretti, Northwestern University)

15.10 - 15.35 Discussion

15.35 - 16.00 Break





ControlPlane Agenda

Tuesday 18 September

08.00 - 08.30 Phosphorus and DRAGON methods of interdomain path setup (Inder Monga, Nortel /Bram Peeters, SURFnet)

08.30 - 09.00 Tomohiro Kudoh : G-lambda interface activities Tom Lehman : Dragon interface activities

09.00 - 10.00 Open discussion: Network Control Architecture and summary of discussion. What are the next steps?





GNI Workshop

Today

6:00 - 8:00 pm here

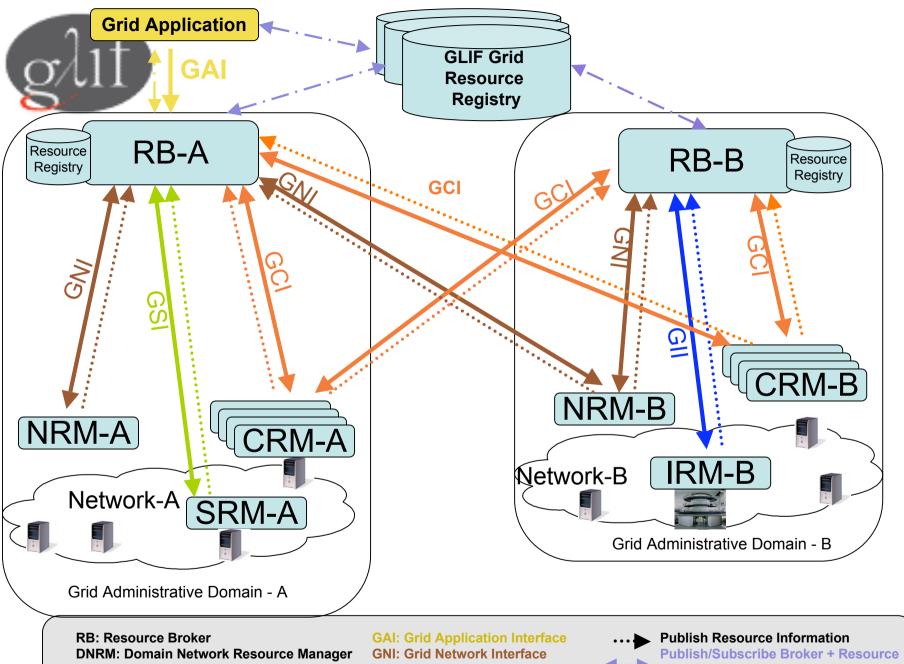
Focus is on the interface to the domain network controller





- Interoperation of existing control software no need to change current implementations -UCLP, GMPLS, etc.
 - Both control and Management planes and Grid middleware
- Coordination of network resources and other Grid resources
- Two phase commit for all involved resources KISS
- Topology Abstractions including end points or services
- Monitoring MonALISA, PerfSONAR....
- Advertising resources globally agree on what and how to represent resources... NDL etc.
- Policy
- Different implementations of each component (no need to standardize on how things are done)
- Agree on Functional components
- Focus on a couple of KEY interfaces (low set of options use lowest common denominator) Prioritize GNI ...



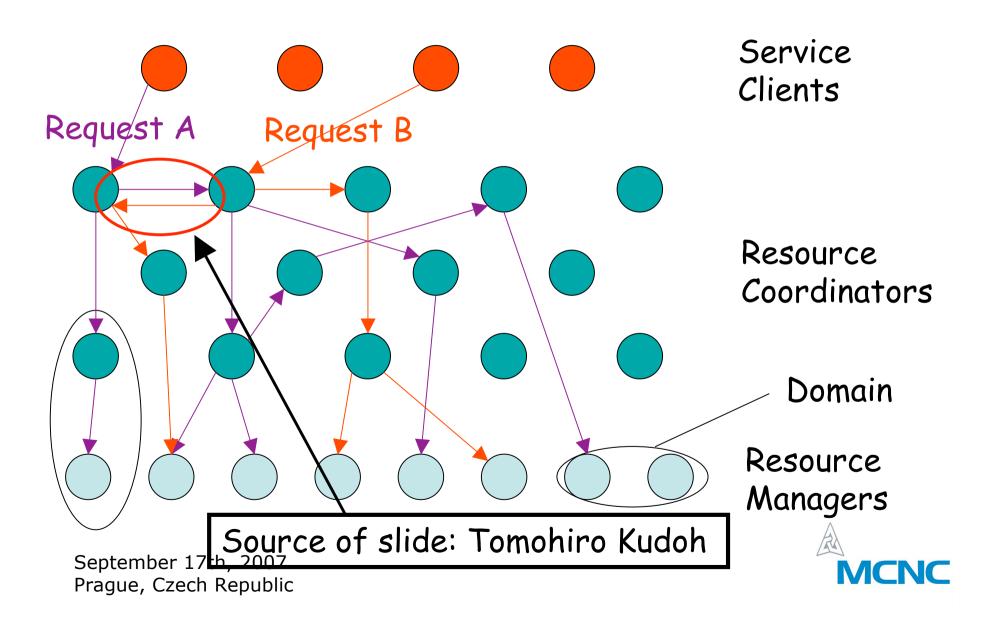


CRM: Compute Resource Manager IRM: Instrument Resource Manager SRM: Storage Resource Manager

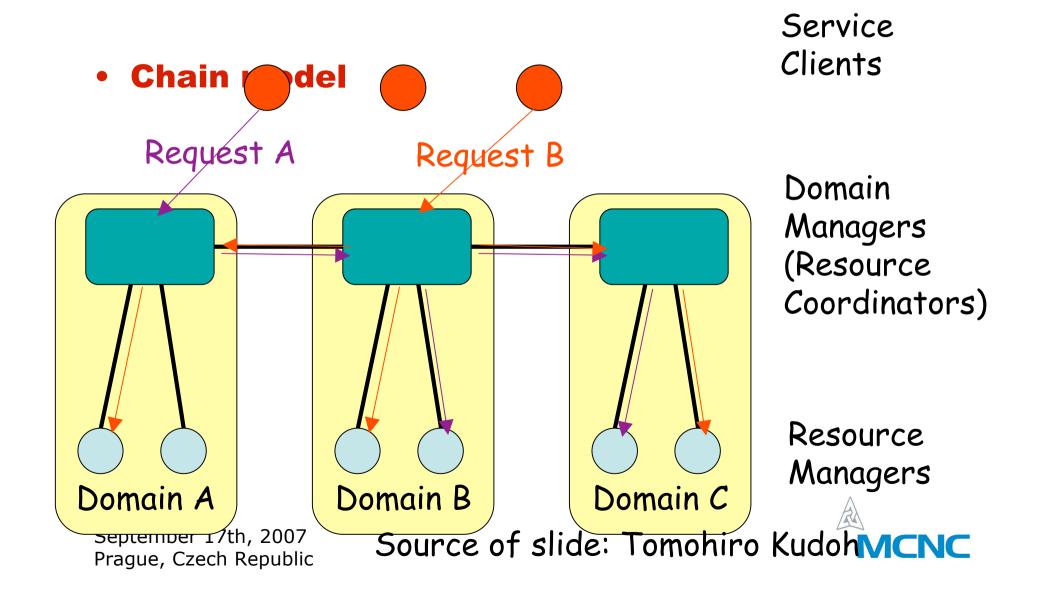
GCI: Grid Compute Interface GSI: Grid Storage Interface GII: Grid Instrument Interface

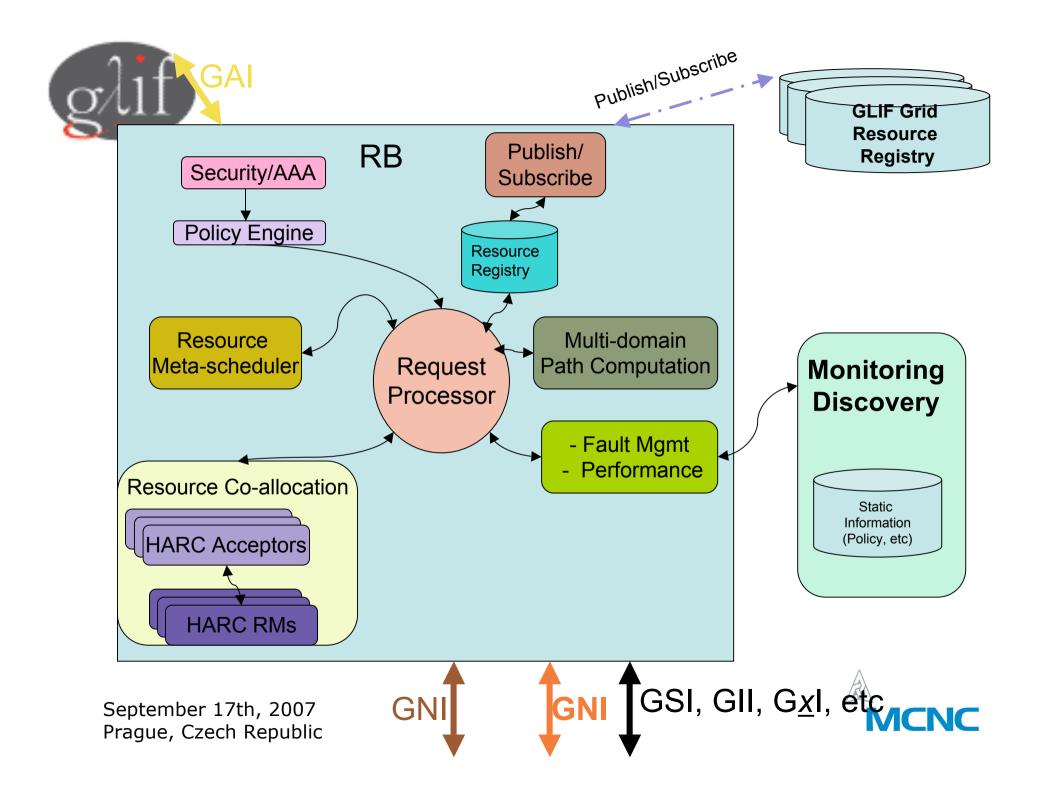
Information / References

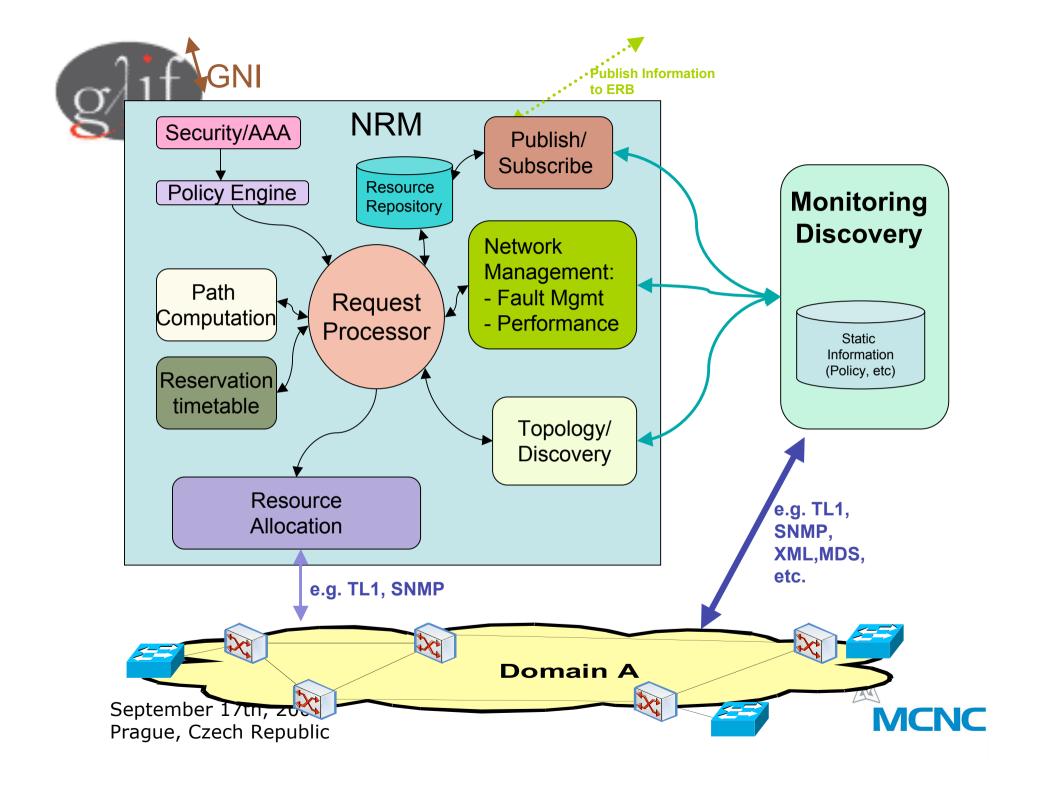
Per-request hierarchical (tree) architecture



support Chain-model









Closing Plenary

Next Steps

- Agreed to share Interfaces for the GNI specification
 - •Agree on minimum parameter exchange for lightpath request
 - •Today from 6:00 8:00 GNI workshop
- •Will make decision on chain vs. tree vs. hybrid shortly
- •Break current challenges into sub-activities: I. Topology, reservation requests, monitoring, Fault Management
- •Maybe the aim could be to have a challenge for the next GLIF meeting for some sort of demonstration of interface interoperability
- Define dynamic behavior of GOLES
- •Will work with Tech group on VLAN-based lightpaths

