
Latests Deployments

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Enabling GMPLS



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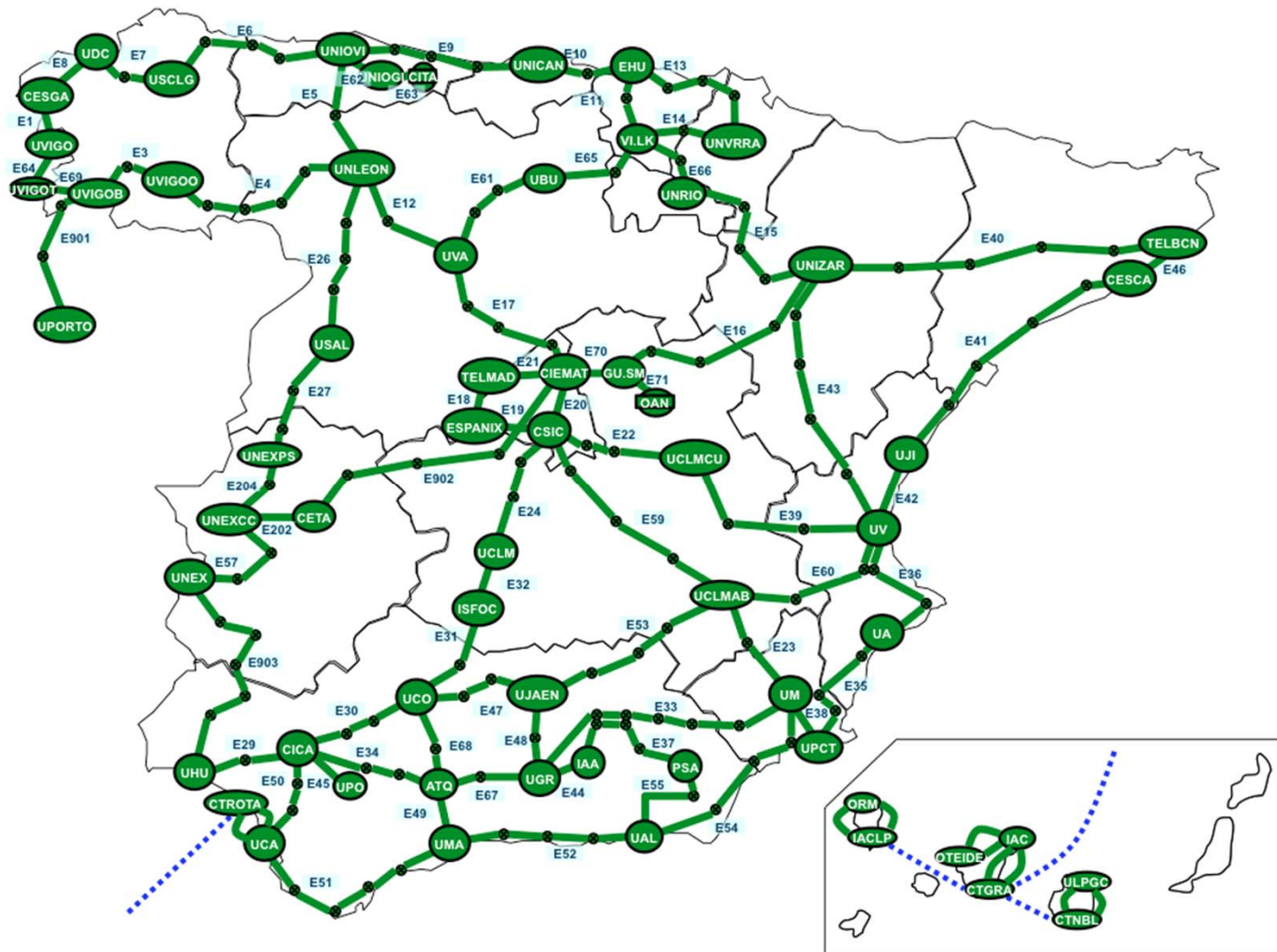


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GMPLS Deployment

- New paradigm
- New architecture
- New service planning - dynamic
- Plan everything carefully!
- Automatic Provisioning
- Service Protection

GMPLS Deployment



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GMPLS Deployment

- OSPF-TE(routes)/RSVP-TE(resources)/LMP(management channel)
- From OSI to IP
 - Separate Management and Data Plane
 - IP stack: ZIC
- 1626LM 6.1.3 - Upgrade on all TROADM and amplifiers
- First adjustments: Attenuations/Local Paths
- Second: Transmissions Paths/Alignments
- 1350OMS 9.4.10 – New NMS

Network Planning

Network Planning Tool



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Network Planning

- Tender Process Finished
- CARIDEN
- Configuration and Customization
- IP Backbone optimization
 - Resiliency support
 - Costs analysis

**Network
Management**

Network Management
Tool Deployment



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Network Management

- Tender Process Now
- Saving Time
- Simplify Operation
 - Automatization
 - Reports Generation
 - Trends Analysis
 - Centralized DataBase

Discussions

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NREN services used by other state agencies

NREN current activities in order to provide services (Global IP or transit, p2p wavelengths, L2 vlans, ... etc) to non-research/academic community

- The use of the NRN infrastructure by other state agencies (not only Universities, Research Centers, Schools...)
- Are there other NRNs being used this way?
- What problems do they have?
- What SLAs?
- What operational issues?