

CEF Networks Workshop 2019

Various procurement options for re-tendering optical backbone

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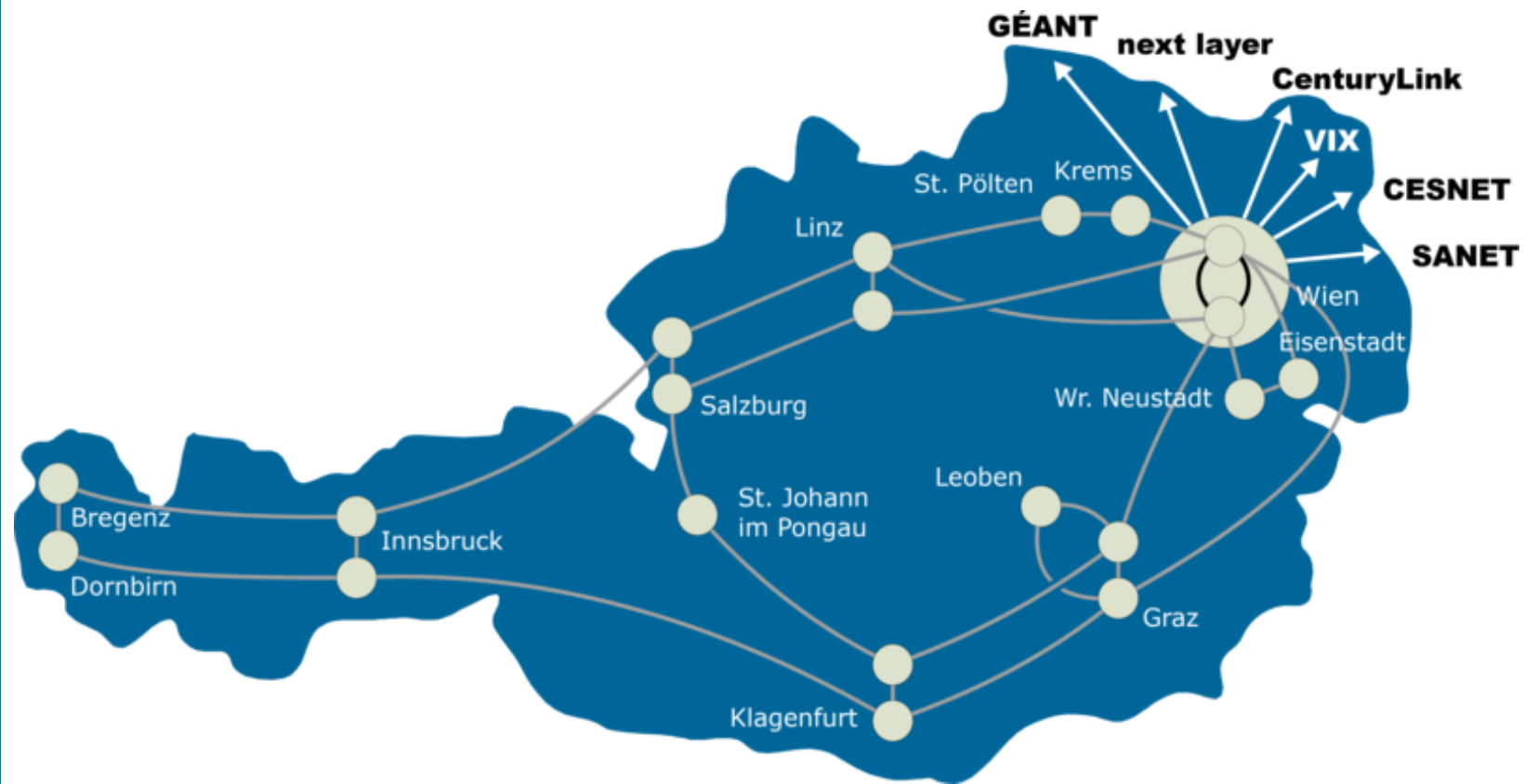
NREN++

- ACOnet is the Austrian NREN, connecting
 - (all) Universities & Academies
 - Colleges & Research Institutes
 - Austrian School Network (EDUnet), Dormitories
 - Museums, educational and cultural institutions
 - Hospitals
 - Ministries, Federal Agencies
 - Federal Chancellery, Presidential Office
 - Provincial Government and Administration
 - ...
- Legal Entity & Management: University of Vienna
- L2/L3 Network-Operation: UniVie + other Universities
- Fibre & Optical Layer: A1 Telekom Austria

Current contract „ACOnet 2007“ (-2022)

- Two-stage Public Procurement Procedure by European Public Tender, aimed at „wavelength-transparent fibre-infrastructure“ (amplified and managed, **not** dark-fibre)
- Winning proposal by A1 Telekom Austria (contract signed 07/2007)
 - Framework contract (10years) with IRU fallback
 - Contract extended in 2017 for another 5 years (until mid 2022)
 - incl topology changes and additional POPs
 - wavelength-transparent (C-Band, 40 λ) fibre-pairs
 - including OAs (conservative, every ~80km)
 - including (ALU 1626 LM) DWDM and static OADMs
 - active e2e monitoring by TA on a single wavelength
 - monitoring wavelength available for ACOnet payload
 - “CEF-ready” (alien wavelengths within specs)
 - 100Gig-Lambda support added (ALU 1830 PSS)

ACOnet Fibre Topology since 2018



Re-Procurement Options

- Do it the same way as for the “2007” network
 - Pro: “copy&paste” tender
 - Con: doesn’t allow for more competition (most probably A1 would win it again)
 - Would need some adaption for more explicit support of special “CEF” demands (T&F, Quantum, Photonic ...)
- Slice it into layers (e.g. Fibre & OTE)
 - Pro: more competition
 - Con: more complexity & effort for tender and operations

Re-Procurement Options (continued)

- Main question:
 - Easier procurement rules for (basically existing) dark fibres?
 - e.g. solicitation of quotations only on stretches where alternative fibre infrastructure already exists and therefore suggests competitive offers
- Some more questions:
 - Allow fibre links from different providers?
 - Who does redundancy checks and coordination of maintenance and repair?
 - Should OAs be “part of” the fibre slice or the OTE slice or both?
 - Procure and own OTE or tender for “optical network service”?

Re-Procurement Options (continued)

- Procurement options for OTE:
 - tender ourselves
 - use existing frameworks (GÉANT or national BBG)
- Operational options for OTE:
 - operate ourselves
 - tender for Ops service
- Which procurement and operation model would YOU recommend?
- How much manpower do NRENS dedicate to operating their own fibre optic network (fibres and OTE)?

General Recommendations?

- Who did a (re-)procurement recently or is like ACOnet working on it?
- Any non-trivial (OTE) key features to be considered for best compatibility with GÉANT and other NRENs?
- Any other “special hints” or recommendations?
- Who could offer “real CEF” expertise to support us (for a fair compensation of course)?

Contact

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