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NORDICS CARRIER ETHERNET **EVENT**
OCTOBER 2, 2014, COPENHAGEN, DENMARK
SPONSORS:
RAD · TeliaSonera · ONEACCESS · transmode · interxion
EVENT SUPPORTED BY: MEF · WWW.METROETHERNETFORUM.ORG

TeliaSonera CE 2.0 Certification Story:

Presented by

Pär Norman

TeliaSonera, Group Commercial

TeliaSonera CE 2.0 certification Story:
Including practical examples of benefits experienced. Capitalizing on the implementation for E-Access.

Pär Norman

Global Product Manager, VPN & Ethernet Services, TeliaSonera, Group Commercial

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Topics

- **MEF CE 2.0 E-Access Certification**

- TeliaSonera Carrier Ethernet launches

- TeliaSonera CE 2.0 E-Access certification use cases.

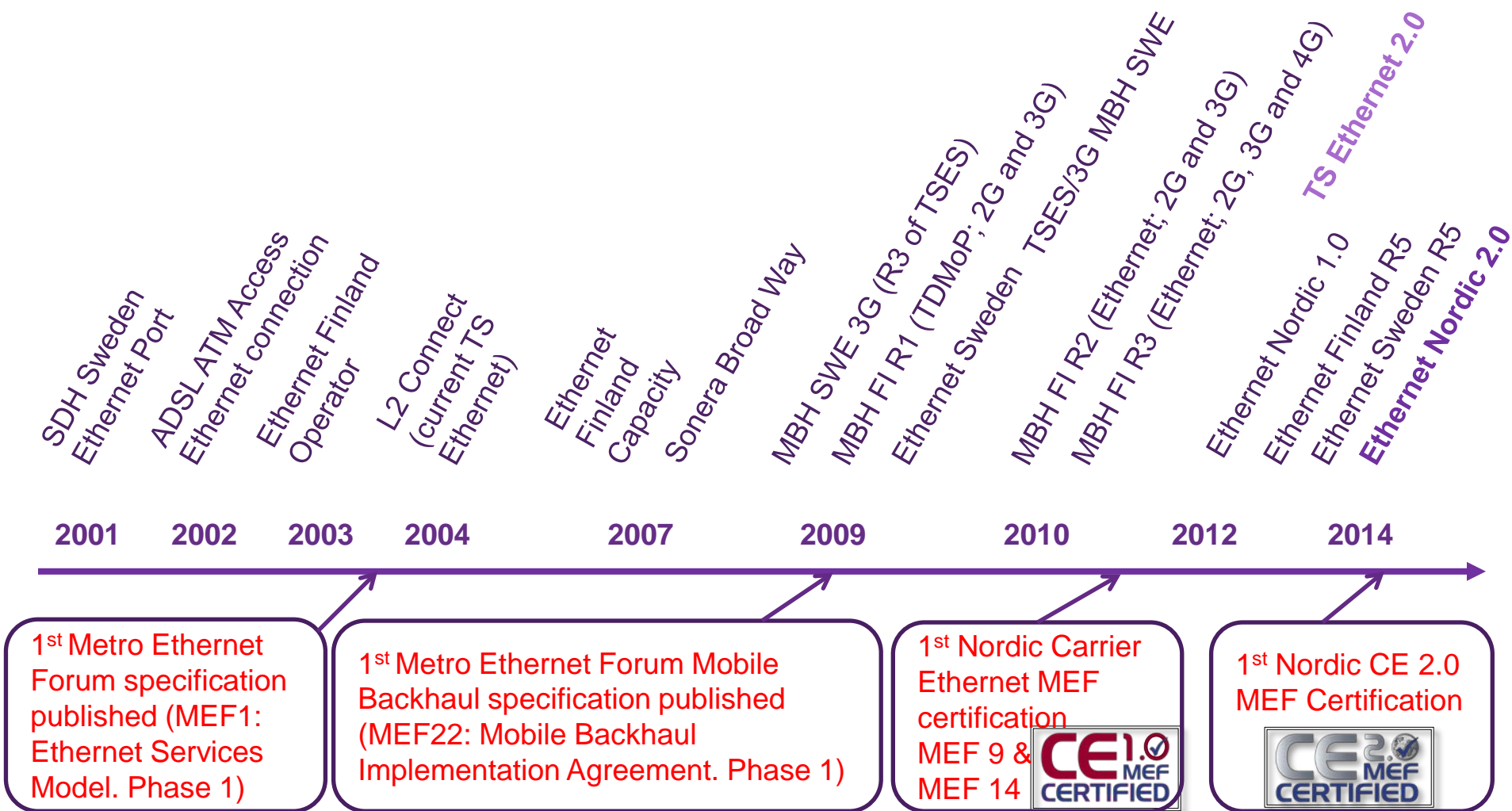- Summary/Conclusion

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CE 2.0 certification significance for TeliaSonera

- Speaking the same language
  - Involved parties adopt MEF standards
  - Common understanding of services

- Certification options
  - TeliaSonera has choice to include one to eight CE 2.0 services
  - TeliaSonera has choice of measurement locations
  - TeliaSonera has choice of transport technologies

- Managing expectations
  - Certification confirms that TeliaSonera´ s network is able to implement MEF E-Access to a common minimum baseline in general

- What certification can and cannot do
  - Differentiate performance, confirm SLAs beyond minimum
  - Validate service availability, resilience, or scale

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TeliaSonera Carrier Ethernet Launches

Timeline labels:

- SDH Sweden Ethernet Port
- ADSL ATM Access Ethernet connection
- Ethernet Finland Operator
- L2 Connect (current TS Ethernet)
- Ethernet Finland Capacity
- Sonera Broad Way
- MBH SWE 3G (R3 of TSES)
- MBH FI R1 (TDMoP; 2G and 3G)
- Ethernet Sweden TSES/3G MBH SWE
- MBH FI R2 (Ethernet; 2G and 3G)
- MBH FI R3 (Ethernet; 2G, 3G and 4G)
- Ethernet Nordic 1.0
- Ethernet Finland R5
- Ethernet Sweden R5
- **Ethernet Nordic 2.0**
- *TS Ethernet 2.0*

Years: 2001 2002 2003 2004 2007 2009 2010 2012 2014

Callout boxes:

1st Metro Ethernet Forum specification published (MEF1: Ethernet Services Model. Phase 1)

1st Metro Ethernet Forum Mobile Backhaul specification published (MEF22: Mobile Backhaul Implementation Agreement. Phase 1)

1st Nordic Carrier Ethernet MEF certification MEF 9 & MEF 14

1st Nordic CE 2.0 MEF Certification

CE 1.0 MEF CERTIFIED

CE 2.0 MEF CERTIFIED

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Ethernet Private Line (EPL) use case with TeliaSonera Access EPL
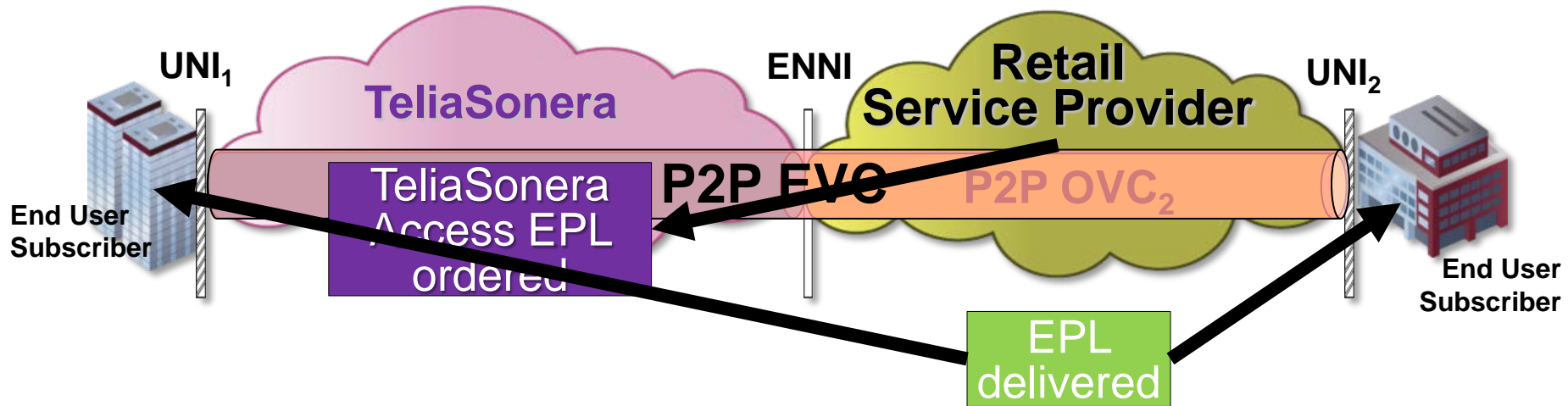
- Retail Provider orders **Access EPL** from TeliaSonera
  - TeliaSonera delivers OVC_1 between Subscriber UNI_1 and ENNI according to MEF 33 E-Access Specification
- Retail Service Provider constructs OVC*
  - OVC_2 between ENNI and Subscriber UNI_2
- Retail Provider constructs EVC between end-user locations
- Retail Service Provider delivers EPL to end user/subscriber

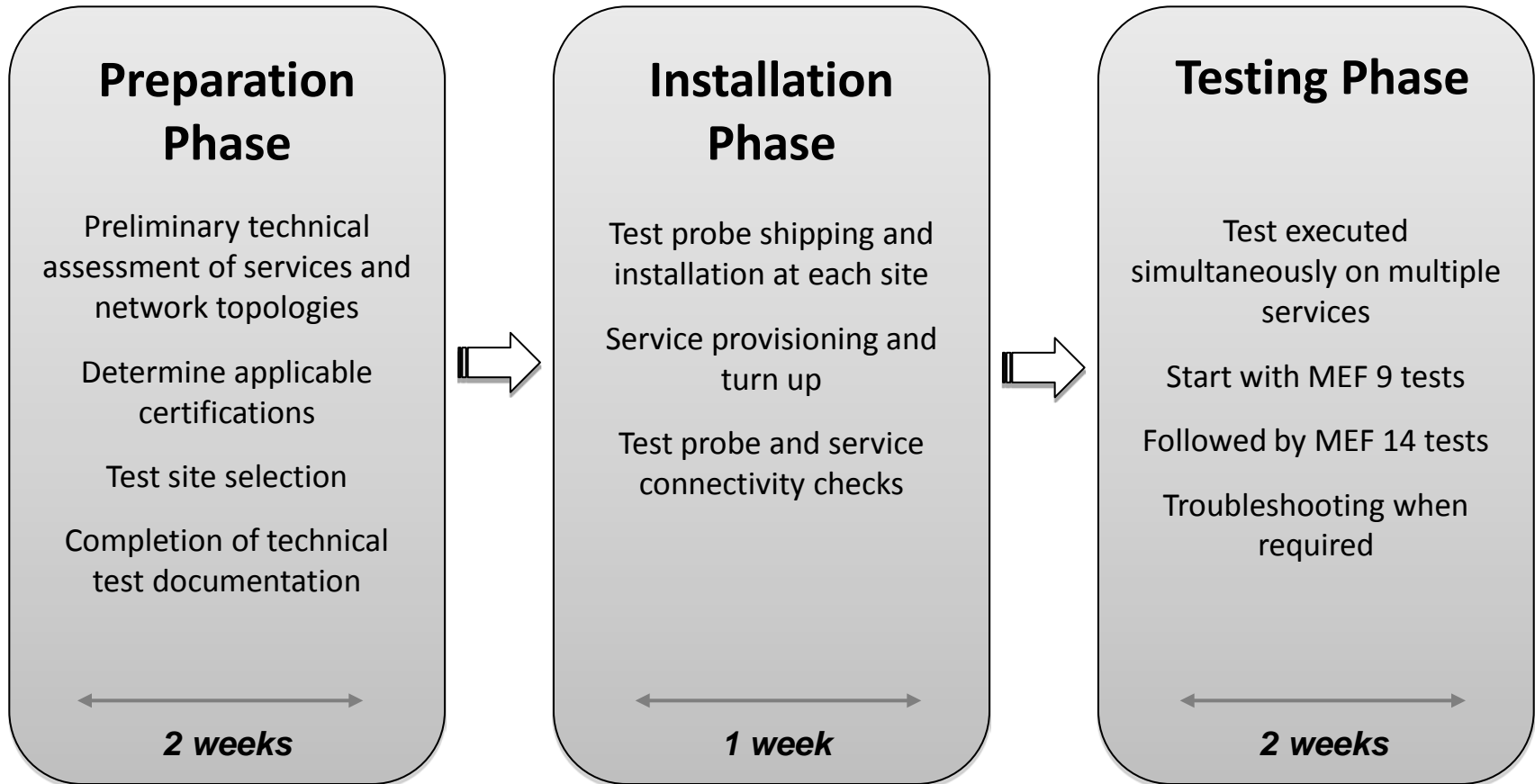* NOTE: E-Access represents a subset of an OVC (Operator Virtual Connection) defined in MEF specifications

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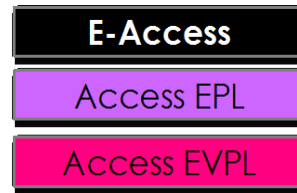# EVPL use case with 2 TeliaSonera Access EVPLs
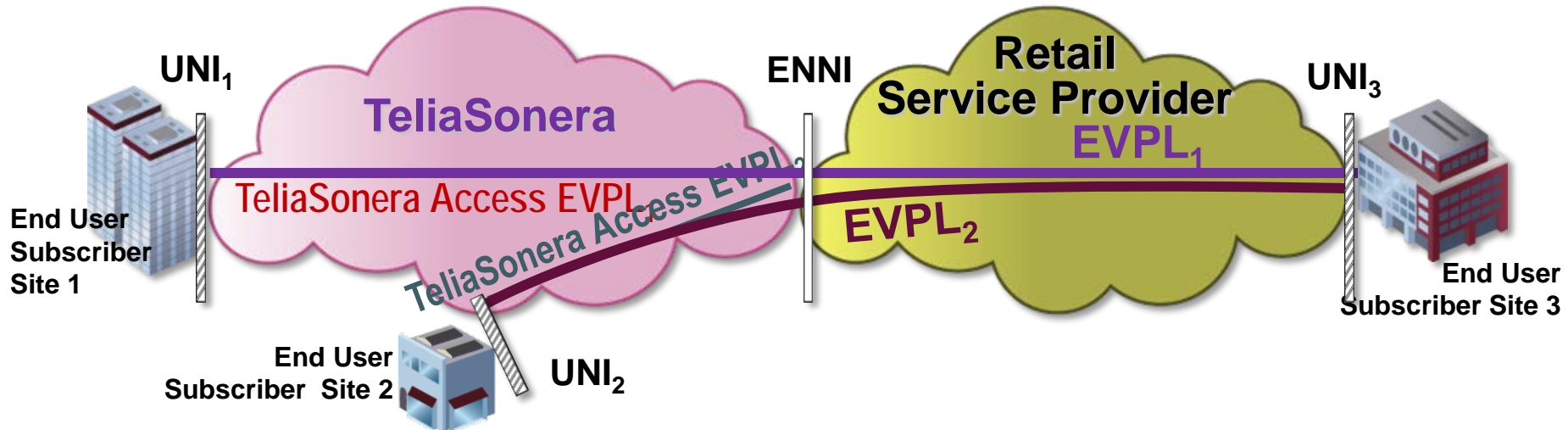
- Retail Provider orders Access $EVPL_1$ from TeliaSonera
  - To connect Subscriber Site 1 UNI_1 to ENNI
- Retail Provider orders Access $EVPL_2$ from TeliaSonera
  - To connect Subscriber Site 2 UNI_2 to ENNI
- Retail Service Provider sells $EVPL_1$ to End User Subscriber
  - To connect Subscriber Sites 1 and 3
- Retail Service Provider sells $EVPL_2$ to End User Subscriber
  - To connect Subscriber Sites 2 and 3

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Certification Phases and Timeline
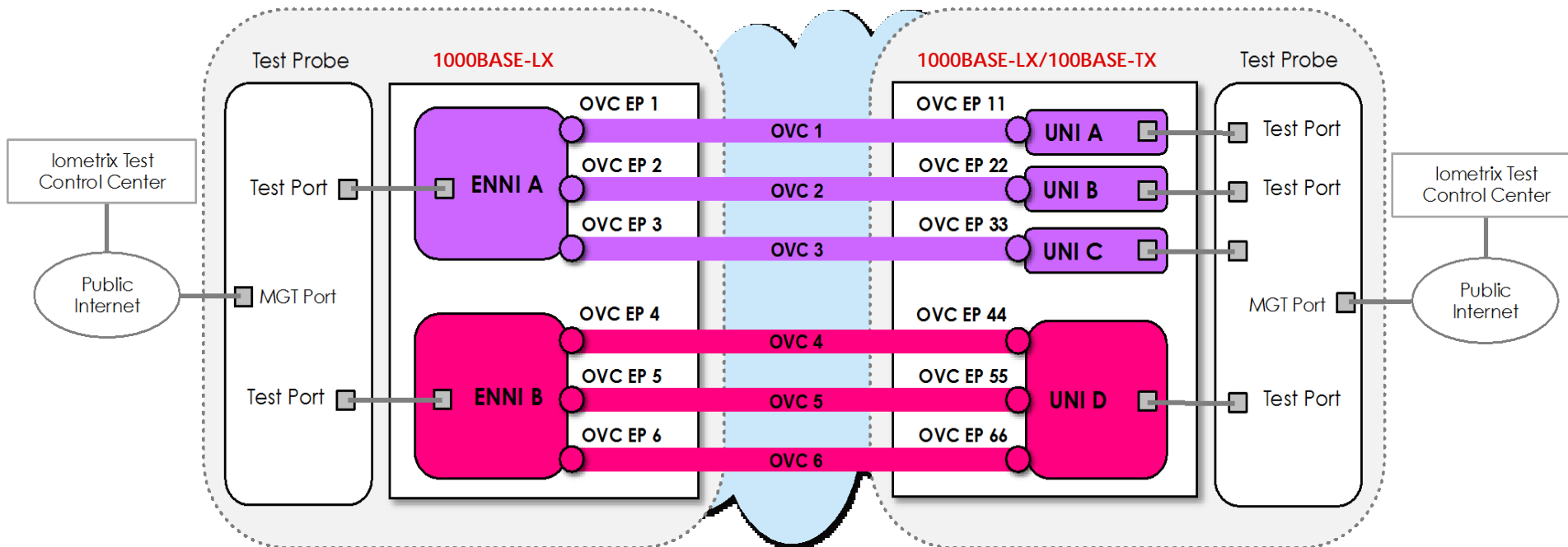
Achieving Certification in Three Phases

Preparation Phase

Preliminary technical assessment of services and network topologies

Determine applicable certifications

Test site selection

Completion of technical test documentation

2 weeks

Installation Phase

Test probe shipping and installation at each site

Service provisioning and turn up

Test probe and service connectivity checks

1 week

Testing Phase

Test executed simultaneously on multiple services

Start with MEF 9 tests

Followed by MEF 14 tests

Troubleshooting when required

2 weeks

MEF

Actual E-Access Service Provider Test setup
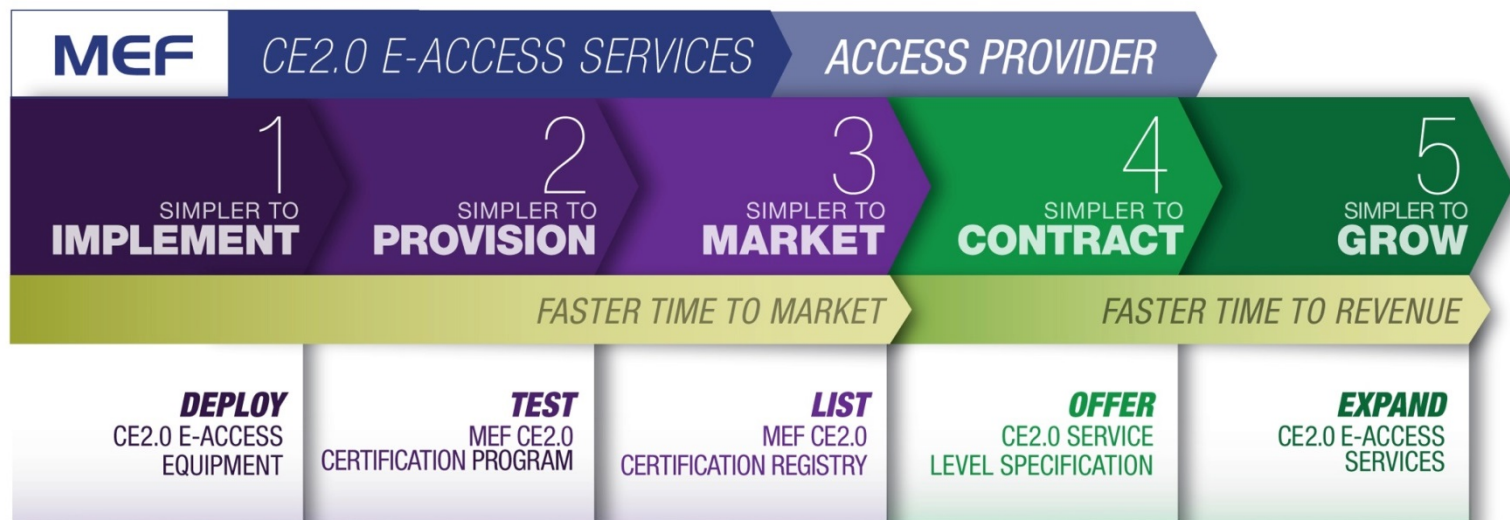
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CE 2.0 E-Access value for TeliaSonera as Wholesale Access Provider

Thank you!

MEF Nordics- Copenhagen October 2nd, 2014

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