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# ForCES Interoperability test (20-21 July approx.)

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IETF – 74 San Francisco

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# Summary

- Location
  - Testing material
  - Scenario Overview
  - Network Configuration
    - Local
    - Distributed
  - Scenarios
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# Location

- University of Patras – Rio – Greece
- Near the bridge



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# Testing material

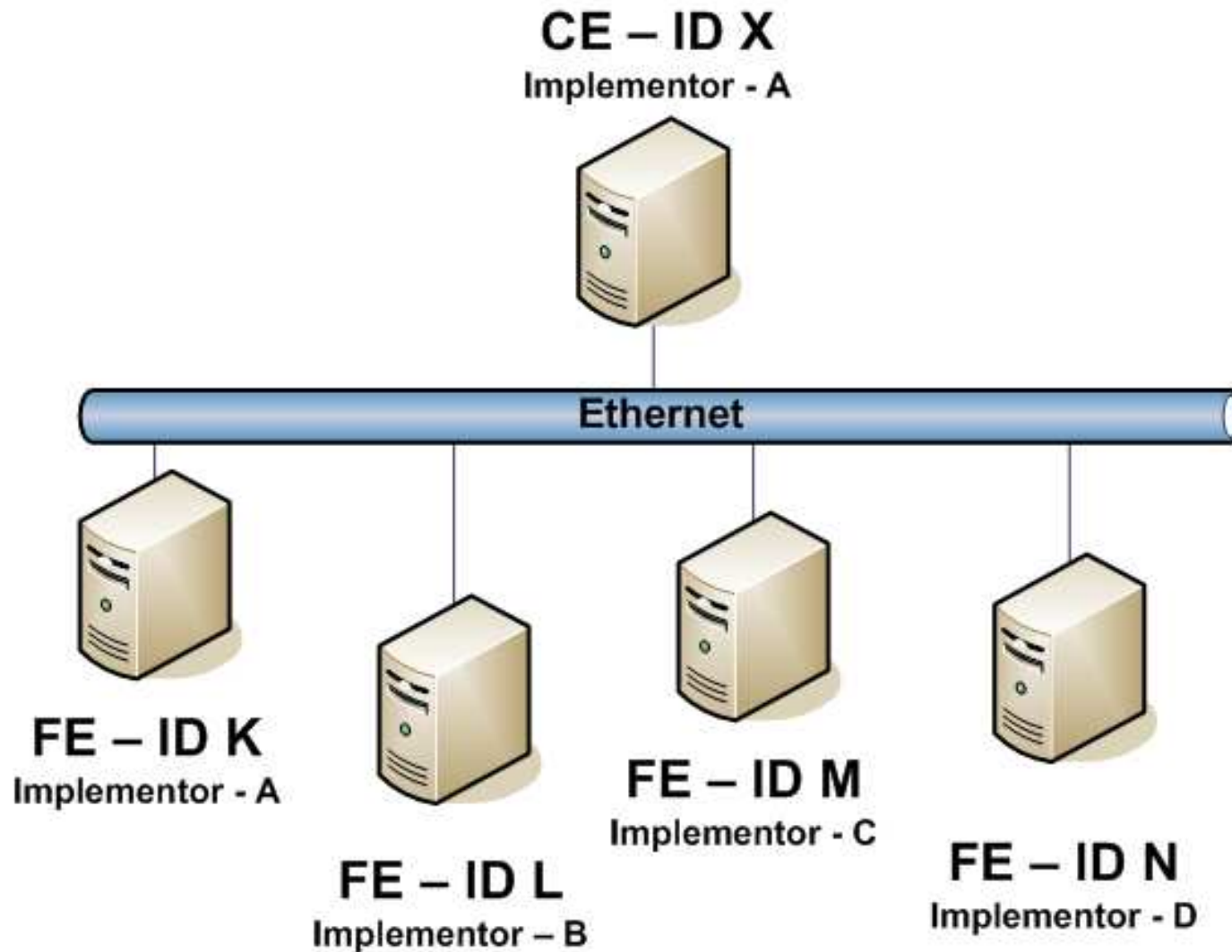
- Model draft-16
  - Protocol draft-22
  - SCTP-TML draft-02
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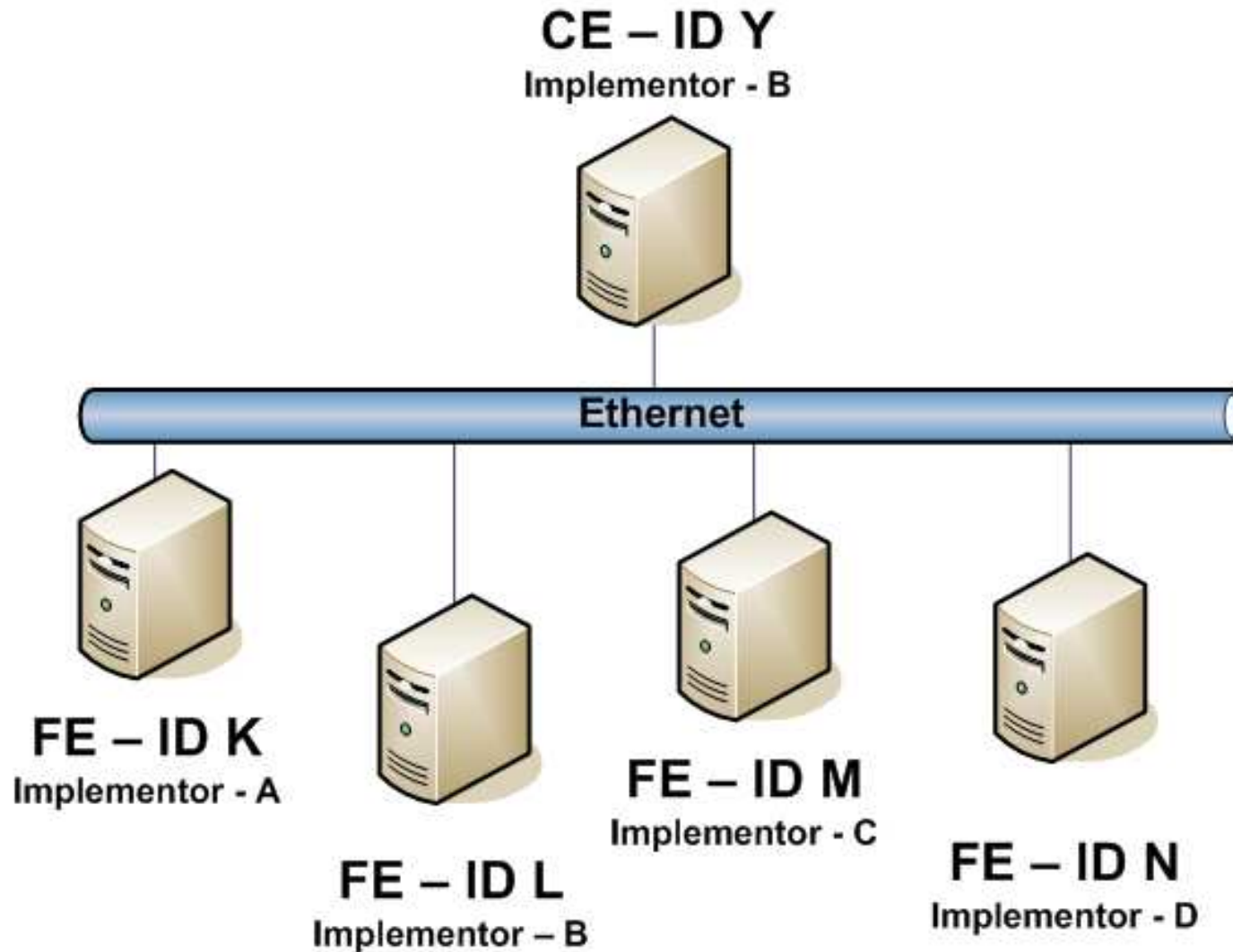
# Scenarios Overview

- The scenarios will cover the basic ForCES functionality.
  - In all scenarios, all NEs will be comprised of one CE and multiple FEs from different implementers.
  - All scenarios will be tested more than once with permutations of the CE and FE from different implementers.
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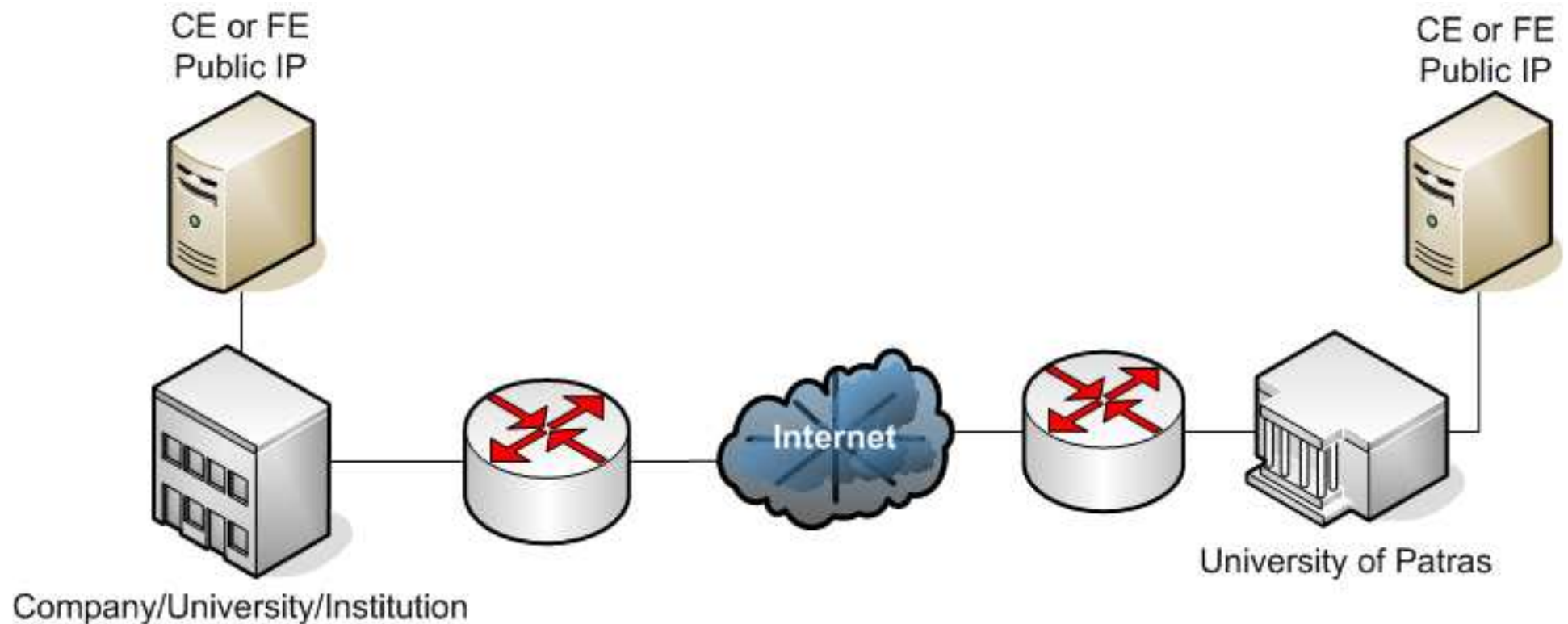
# Local Configuration



# Local Configuration (cont.)



# Distributed Configuration





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# Scenario 1 - Pre-association Setup

- Configuration of CEs and FEs.
  - Implementation specific.
    - Need to setup:
      - FE/CE id to associate with.
      - IP of FE/CE to associate with.
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## Scenario 2 - TML connection

- Open a TML SCTP connection between FE-CE



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## Scenario 3 - TML priority channel connection

- Establish 3 SCTP priority channels
    - ❑ High priority – Port number: 6700
    - ❑ Medium priority - Port number: 6701
    - ❑ Lower priority - Port number: 6702
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## Scenario 4 - Association Setup - Association Complete

- Association for each CE-FE pair
  - Messages Tested:
    - Association Setup Message
    - Association Setup Response Message
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## Scenario 5 - CE query

- Simple Query CE → FE
  - Example SHOULD be:
    - FE protocol LFB → HeartBeat Timer (FEHI)
    - FE object LFB → FE State (FEState)
  - Messages Tested:
    - Query Message
    - Query Response Message
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## Scenario 6 – Heartbeat monitoring

- CE → FE HeartBeat with ACK flag set to AlwaysACK.
  - Messages Tested:
    - Heartbeat Message
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# Scenario 7 – Simple Config Command

- Two parts:
    - ❑ A. Change FEHBPolicy to 1.
    - ❑ B. Change FEHI to another value.
  - Messages tested:
    - ❑ Config Message.
    - ❑ Config Response Message.
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## Scenario 8 – Association Teardown

- Normal:
  - Shutting down or rebooting CE/FE.
- Forced:
  - Loss of connection
    - Manual stopping of heartbeats.
    - Disconnect network cable.





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## Questions:

- How many local participants?
  - Anybody interested in remote participation?
  - Specific dates for interoperability test?
  - Special requirement?
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