SEMPER

ACTS AC026

SEMPER Trials and Prototype

SEMPER DAY Workshop

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Maria Tsakali

INTRACOM S.A.
Brussels Office, 20 Av. des Arts
B-1000 Brussels Belgium

☎ **+322 230 9574**
+322 230 4908
mtsa@intranet.gr

Semi-external trials

Three trials of increased complexity

- **Trial types**
  - I. Basic services and traditional payment
  - II. Advanced services and electronic payment
  - III. Multi-party security services
- **Service types**
  - mail order (OTTO)
  - tele-publishing (FOGRA)
  - tele-education (EUROCOM)
- **Actors**
  - internal: providers, payment system, certification authority
  - external: clients, banks

External trials

Taking root in the real world

- **Application to SMEs (REGIONLINK)**
  - SET credit cards
  - electronic cash
  - electronic funds transfer
  - electronic checks
- **Pilots**
  - Scotland
  - Galicia
  - Netherlands
  - Brussels
- **Actors**
  - internal: payment system, certification authority
  - external: providers, clients, banks

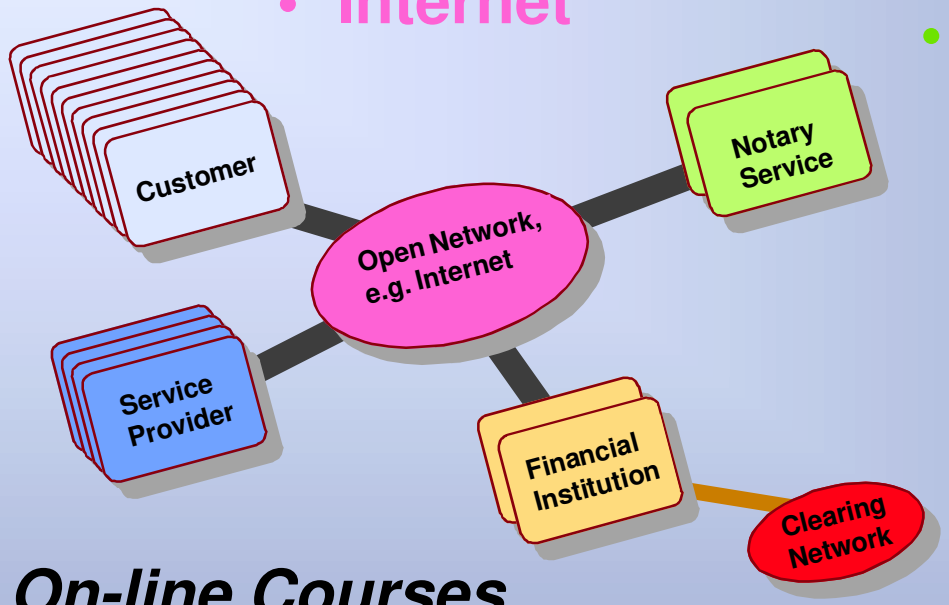
Basic Trials

Players

- internal
- field trials

- Internet

- GMD: *Certification*



- **EUROCOM: *On-line Courses***
- **FOGRA: *Newsletter***
- **Otto-Versand: *Mail-order***
- **Regionlink: *Mail-order***

- DigiCash: ecash
- IBM: SET

Basic Trials

What must be available

- **User**
  - *offline/online registration, certification*
  - *subscription*
- **Authentication**
  - *customer by merchant/merchant by customer*
- **Integrity Protection**
- **Transfer of signed documents**
  - *offer, order, receipt*
- **Payment**
  - *with/without receipt*
  - *invoice based, check, credit card, cash - like*

Trial Implementation Architecture

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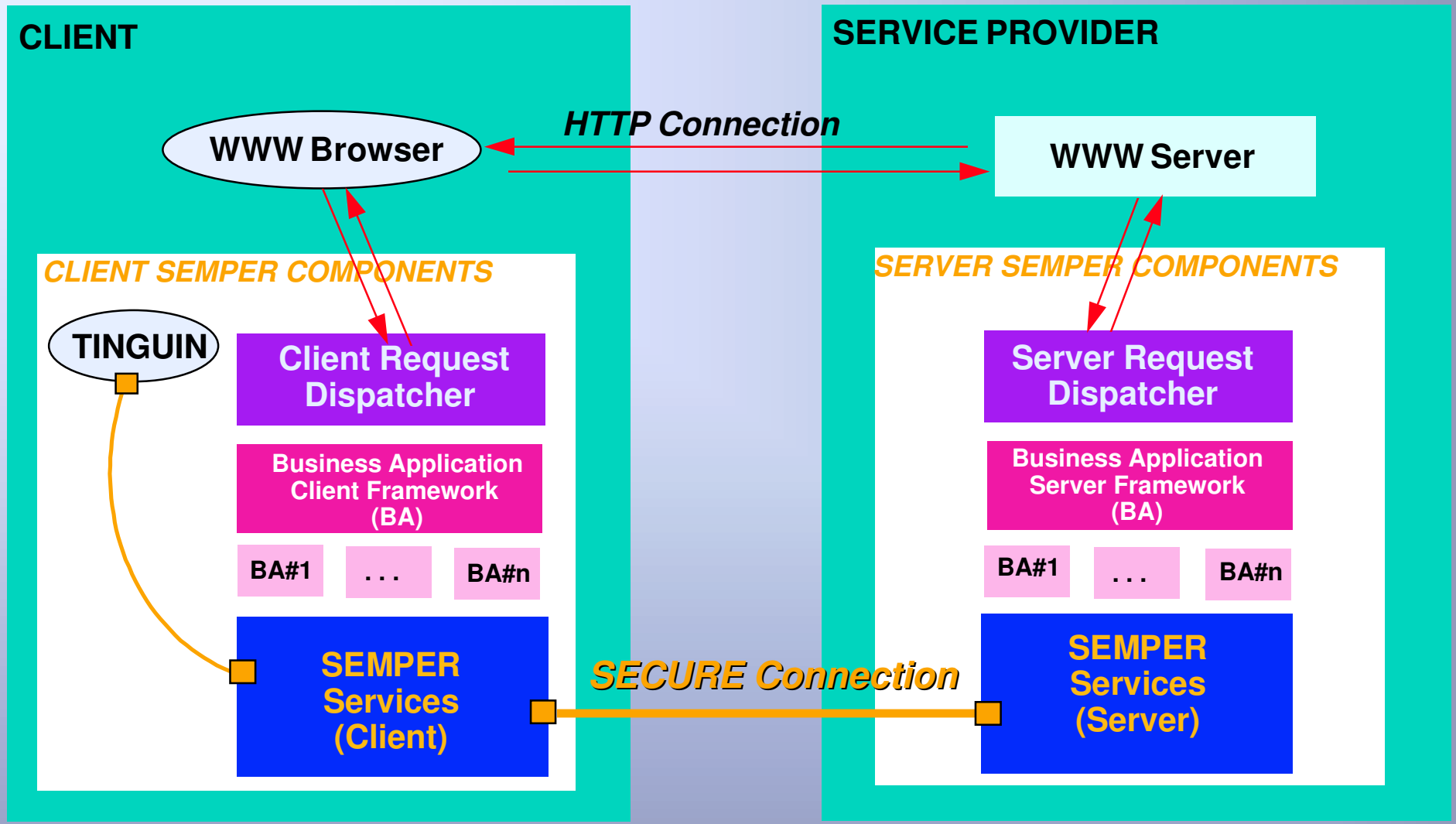
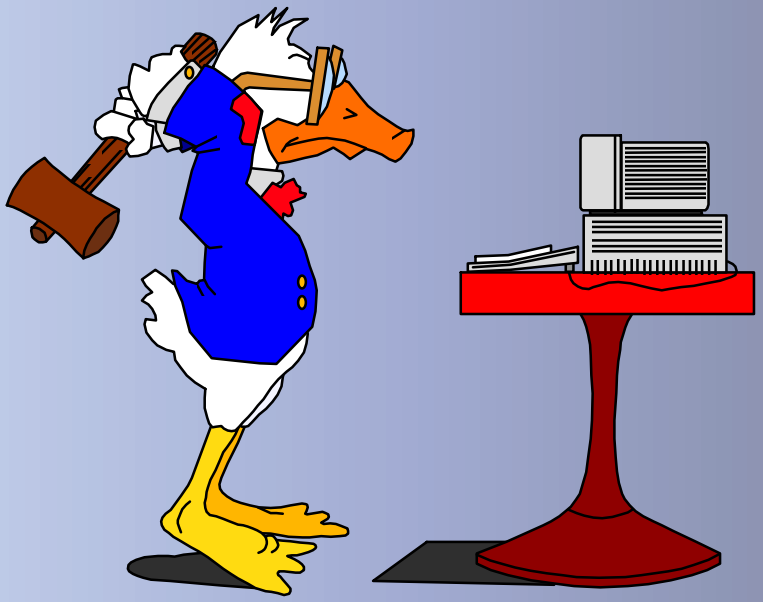


SEMPER Integration

How can a Service Provider build a Business Application ?

SEMPER
INTEGRATION
TOOLKIT



- The Business Application Framework
- Product List Configuration File (Template)

Business Application Framework

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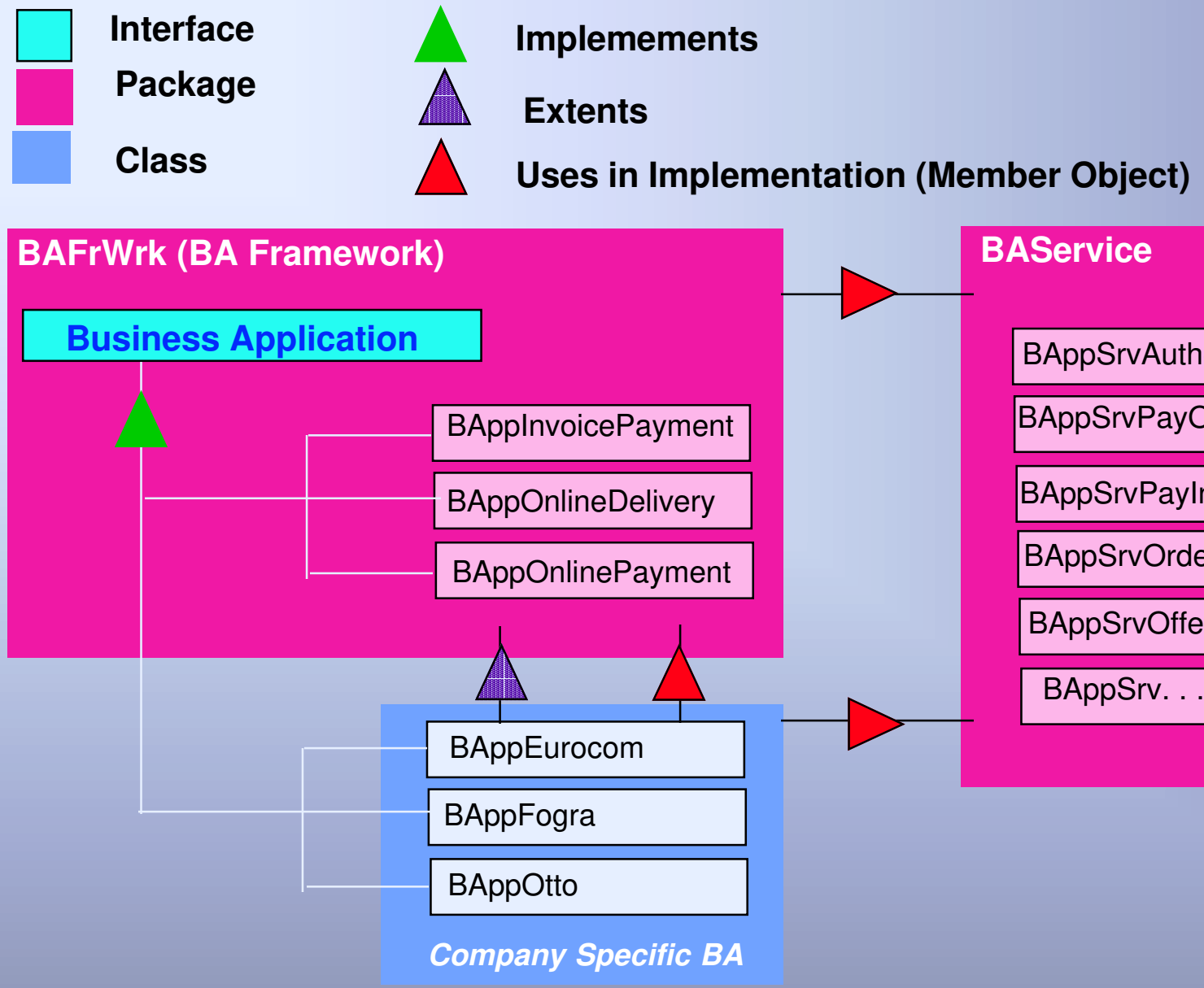


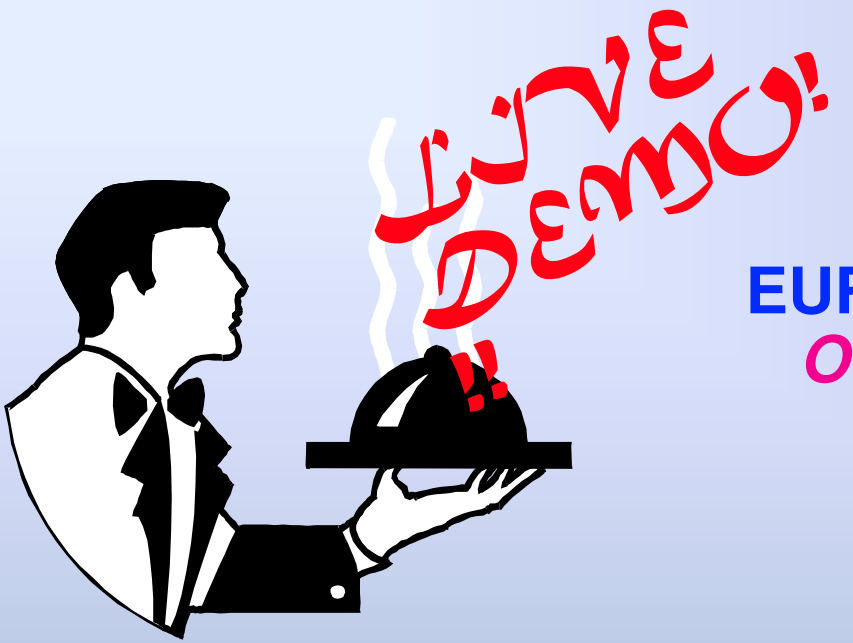
Product List Template

- Configuration file for each Service Provider
  - *BAppCompanyName.config*
- Contents of the file:
  - *productId*
  - *successUrl*
  - *FailureUrl*
  - *descriptionText*
  - *price*
  - *timeForPrice*
  - *xPrice*
  - *xTimeForPrice*
  - *currency*

Trial Infrastructure

- **Platform**
  - SEMPER runs on a variety of platforms
    - UNIX, Windows NT, Macintosh
- **Language**
  - JAVA for all new implementations
    - to create a uniform implementation environment
- **Integration into WWW**
  - SEMPER applications run on the local host as a background process (deamon) providing an HTTP-server interface to communicate with the Web Browser

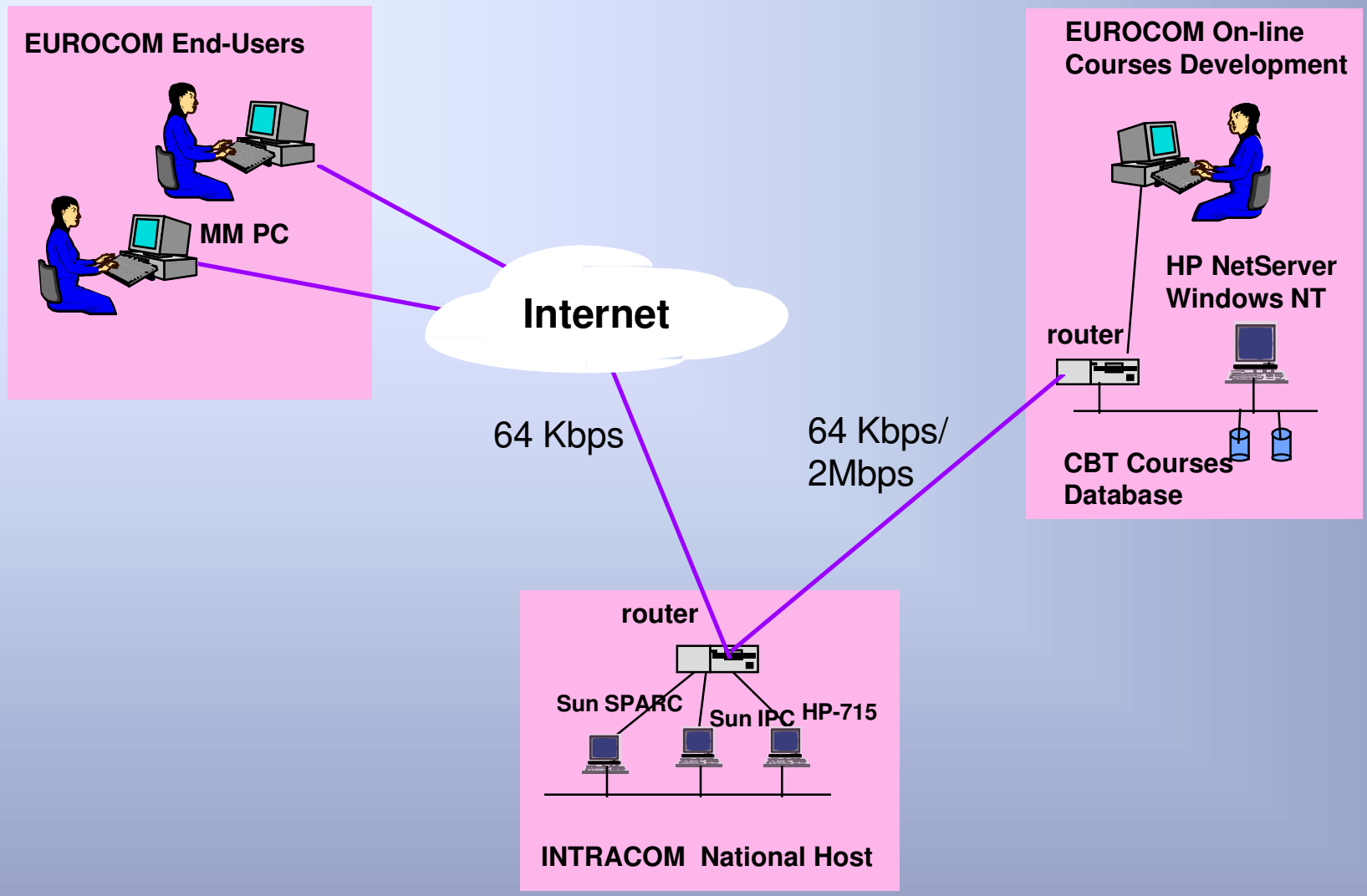
PROTOTYPE



EUROCOM Business Application:
On-line Multimedia Courses

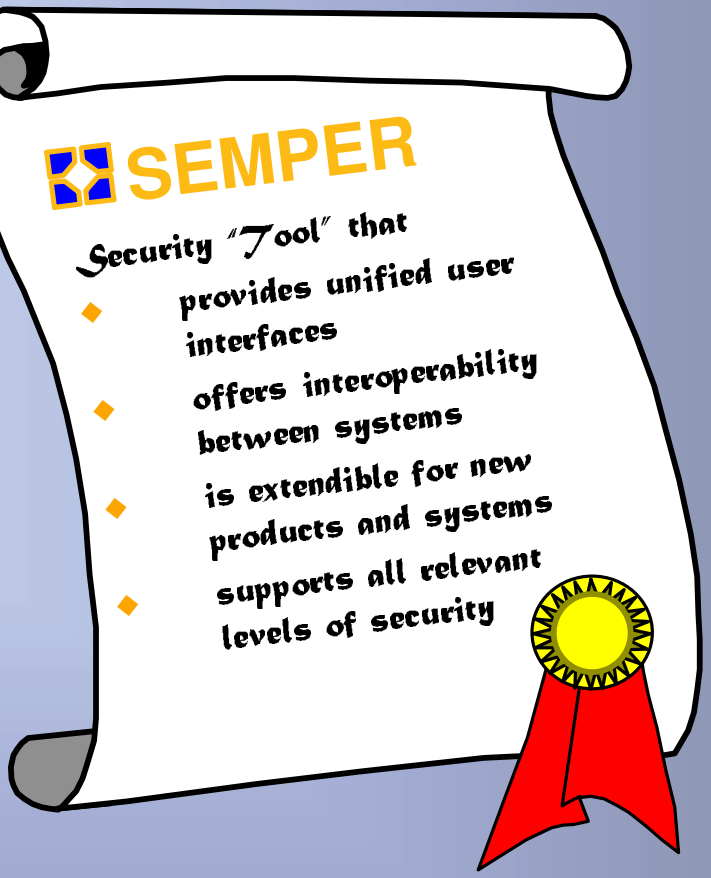
- registration
- offer
- order
- payment
- delivery

Environment Set-up



Conclusion

Realisation of expectations

Outcome of the TRIALS

- variable feedback will be collected that will influence the position of many players
- results will be fed back into the SEMPER architecture for improvements and extensions