



Numer Portability based on ENUM

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Number Portability
For Fixed, Mobile, FMC and VoIP Networks
21st - 22nd March 2006, London



Number Portability

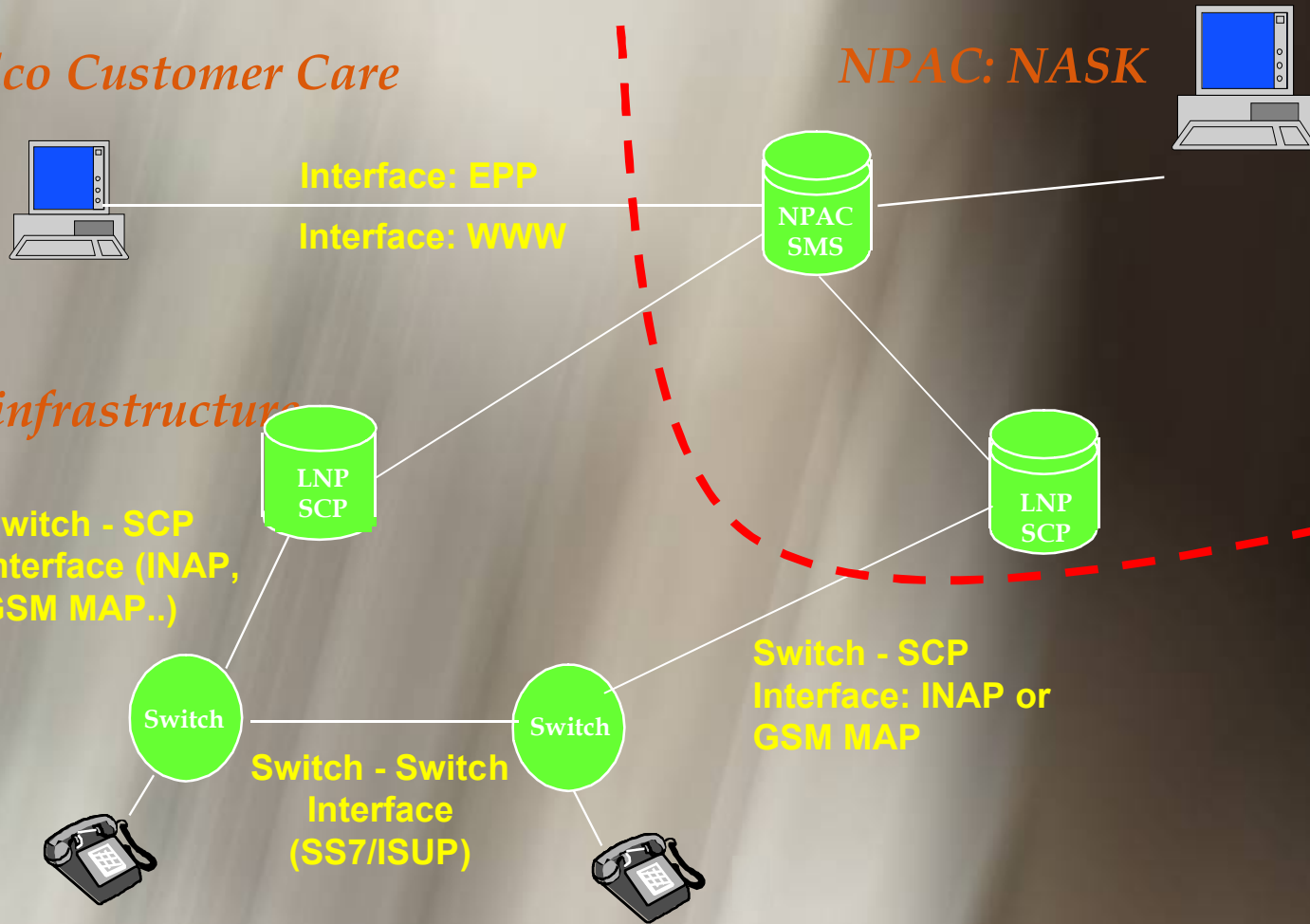
- NASK has offered to NRA and Telcos IN Poland the possibility to implement NP in Poland based on Carrier ENUM solution (2003)
- Presentations/discussions for NRA and Telcos (2004-2005)
- There is still no working NP in Poland as of March 2006 and no decision on the model (OR or ACQ)!

NPAC model

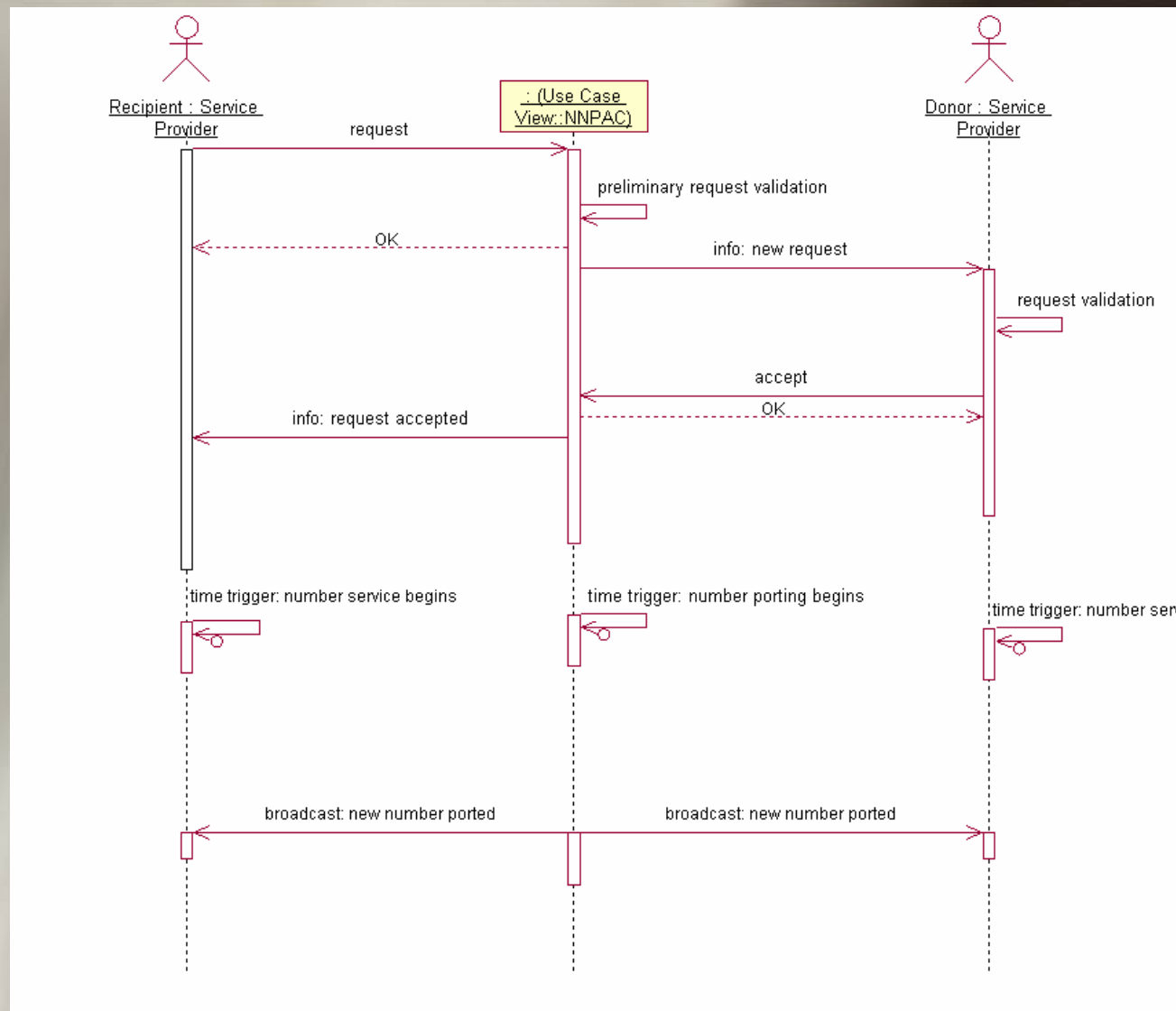
Telco Customer Care

NPAC: NASK

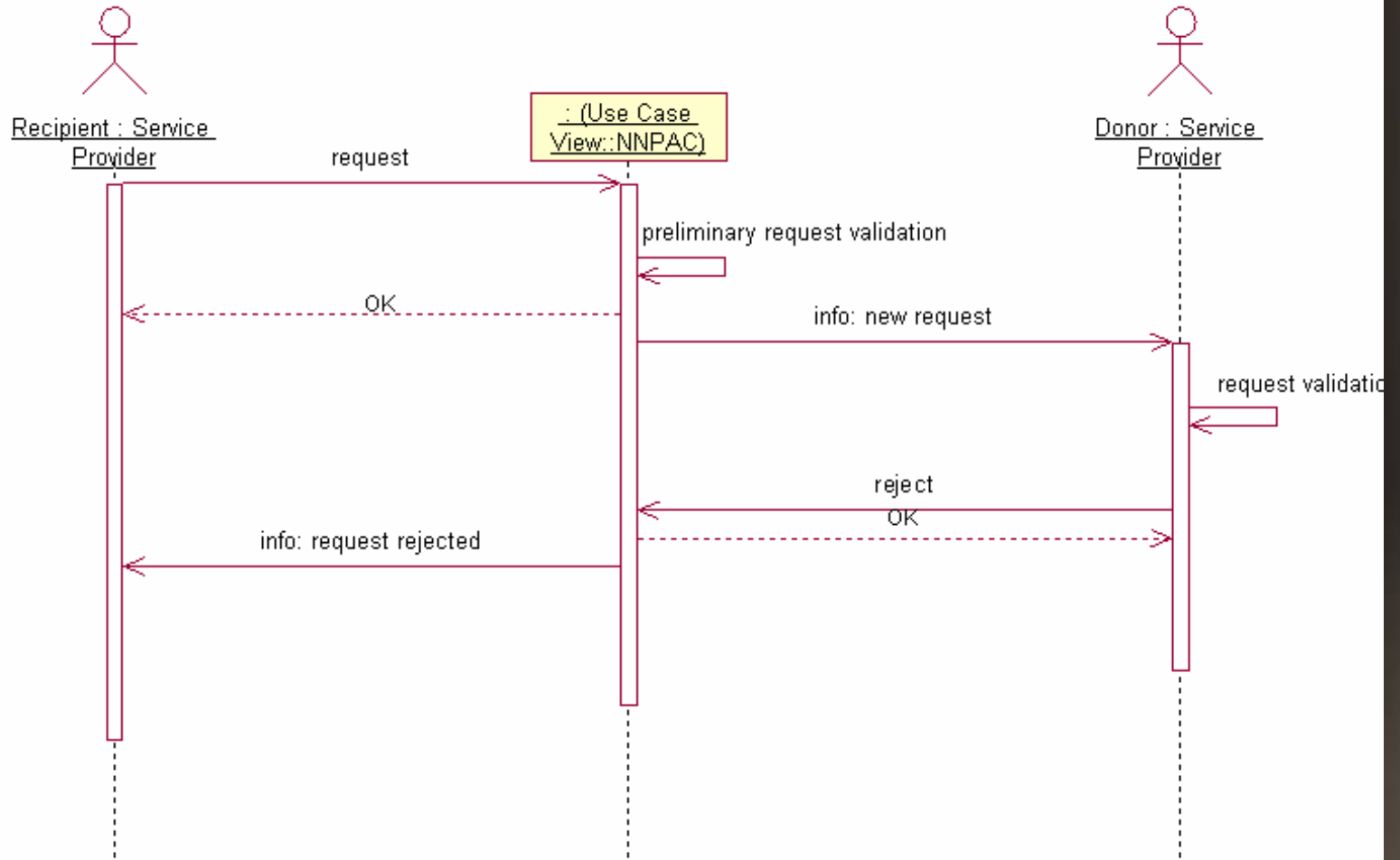
Carrier infrastructure



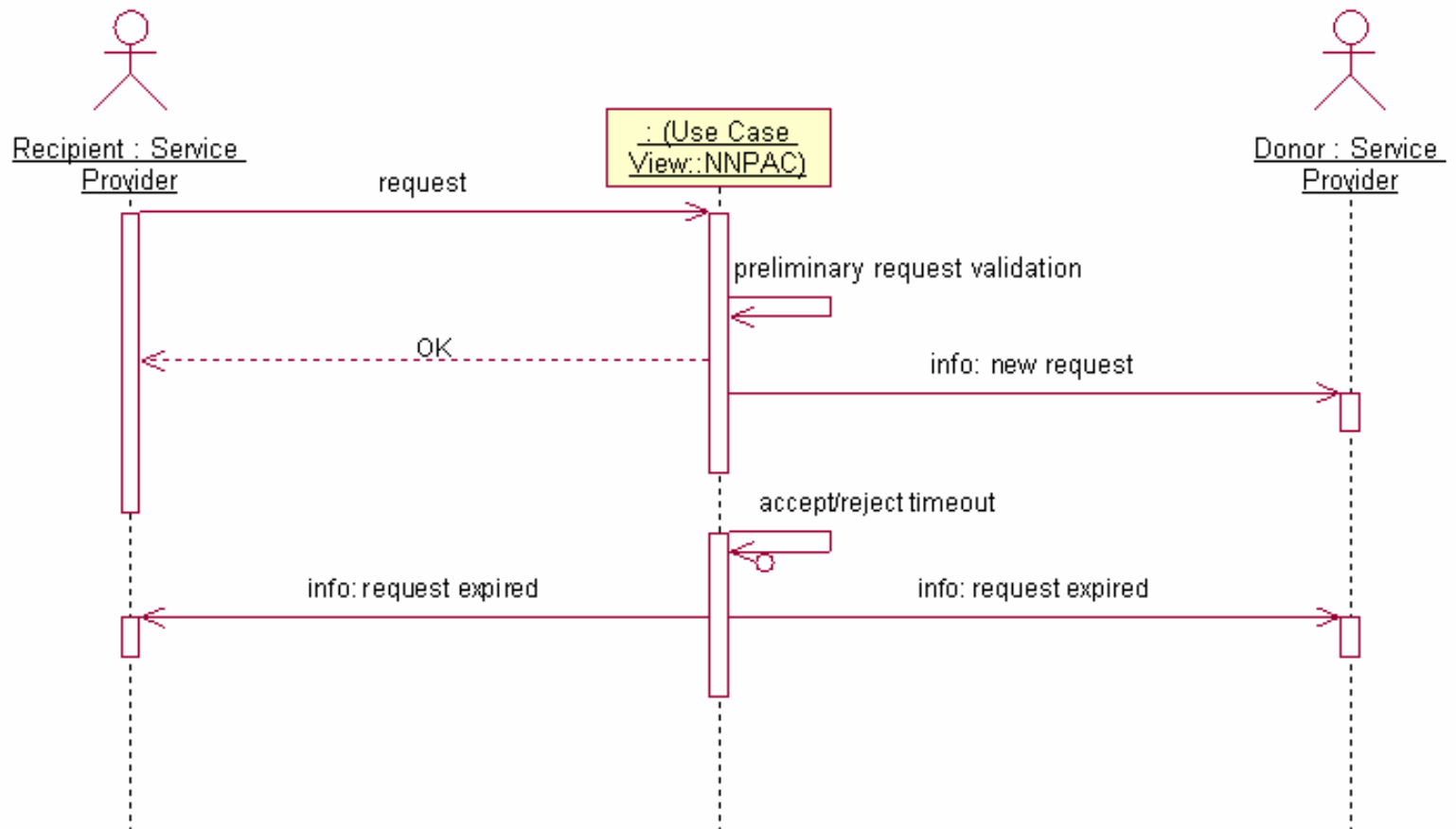
[Basic scenario]



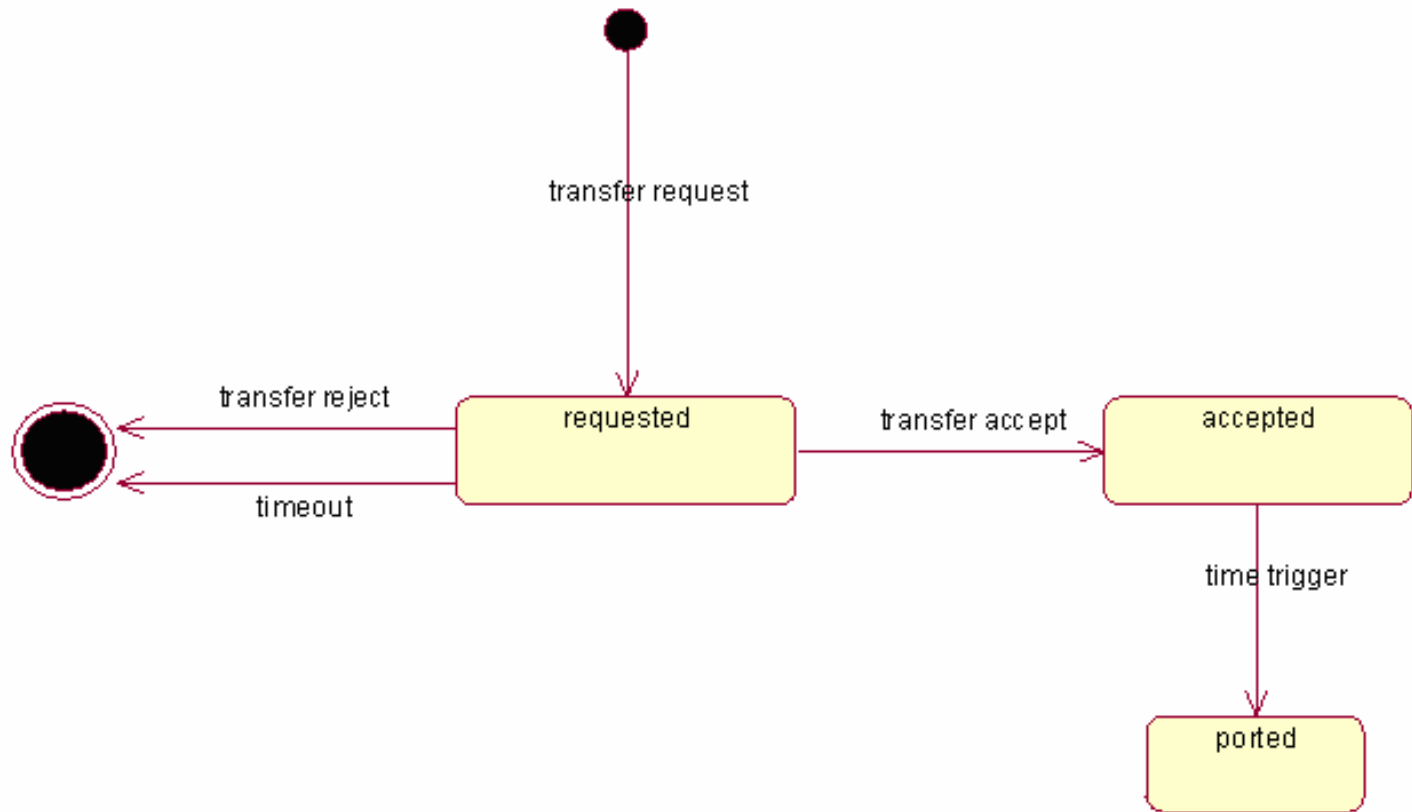
[Request rejected]



[Timeout]



[State diagram]





Number Portability

- NASK has developed the system for Number Portability Centralized Database (database + application for administration of NP entries for Telcos and NRA).
- System fully scalable (flexible workflow, J2EE technology, strong authentication)
- Cost < 3 EUR per ported number

Protocol based on EPP

- Protocol for administrative tasks based on EPP
- EPP may also be used for access to NP entries, but we perceive this rather as future

Example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<schema targetNamespace="urn:ietf:params:xml:ns:ptn-1.0"
  xmlns:ptn="urn:ietf:params:xml:ns:ptn-1.0"
  xmlns:epp="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
  xmlns="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <import namespace="urn:ietf:params:xml:ns:eppcom-1.0"
    schemaLocation="eppcom-1.0.xsd" />
  <import namespace="urn:ietf:params:xml:ns:epp-1.0" schemaLocation="epp-
    1.0.xsd" />
  [...]
```



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presentations:

www.bartosiewicz.pl