ERICSSON
NETWORK RESOURCE GATEWAY

Enabling converged value added services
NRG - What is it?
Network Resource Gateway

- The Ericsson’s Parlay Gateway
- By OSA/Parlay and standardized APIs (including Parlay X Web Services)
- F/M convergence: Applications seamlessly working towards IP, Fixed & Mobile Networks
- Controlled and secure access to the capabilities of the telecom network e.g.: Voice, MMS, SMS, Location
- Horizontal Architecture - One Time Integration and Service Enabler Integration
- Supported by uniform Software Development Kit (SDK) for easy software development
- With Business-to-business support for applications
NRG - What is it?
IP, Fixed & Mobile Networks convergence

With NRG you can access the same service regardless of fixed, mobile or IP networks

Network Resource Gateway

Services
NRG - What is it?
Controlled and secure access to the capabilities of the telecom network

**NRG gives you secure business to business support for applications and content**
NRG - What is it?

Today’s Situation

*Today’s situation – Service integration in Telecom networks*

![Diagram of network elements and services]
NRG - What is it?
Horizontal Architecture – Common GW

With NRG you achieve a horizontal architecture with “one time integration”

Business 2 Business support
- Limit network functionality usages
  - Limit the capacity usage
- Detailed Statistics on usage
- Accounting towards 3rd parties

NRG (Parlay GW)

Common IT base API
- Network agnostic APIs (OSA/Parlay and Parlay X)

One time integration

Services

CSCF
MSC
HLR
AAA
GMLC
SMS-C
WAP GW
MMS-C
Email Server
Charging/Billing System
NRG – How it works
OSA/Parlay applications

Applications on application servers

Software Development Kit

Framework

OSA / Parlay APIs

SLA enforcement

- Statistics
- Throughput Control

Applications
Applications Servers

Provisioning (e.g. SLA)

CSCF  MMS-C  MSC/SSF  ...  GMLC
OSA/Parlay Environment
Operator Content & Applications

- Voice, Messaging & Location based applications
- Wide support of application server vendors on J2EE & J2SE
- OSA/Parlay standardized API:s
- Secure and reliable framework controls traffic from fraud
- One time integration Preverified Ericsson Enablers

Content & applications
- Freephone
- Content Push
- Messaging Notification
- Televoting
- Call completion
- Number Portability
- Centrex
- And more...

Common support functions
- Charging system
- O&M
- Provisioning system

Channel Provider
NRG WS

NRG (Parlay GW)

Enablers
- CSCF
- SSF
- IVR
- HLR
- VLR
- AAA
- SMS-C
- MMS-C
- WAP GW
- GMLC
- PGM

Parlay/OSA
Parlay X System Environment
Enterprise, Service & Content providers Applications

- News
- Weather
- Ringtones
- Music
- Community
- Games
- Mobile Blogging
- Etc.

Content & applications

NRG (Web Services)

Enterprise

Common support functions
- Charging system
- O&M
- Provisioning system

Enablers
- HLR
- VLR
- AAA
- SMS-C
- MMS-C
- WAP GW
- GMLC
- PGM
NRG interface (ISC) towards IP network
NRG role in IMS

- NRG brings service continuity into IMS
  - NRG secures the continuity of Number-based voice services when operators migrate from circuit switched to IMS

- NRG as a Presence Network Agent (PNA)
  - NRG act as a Presence Network Agent in IMS to access LBS, HLR etc. for further availability information like location from the CS Core network

- NRG acting as Presence Web Service Gateway
Service distribution between legacy and IMS

- Number translation
- Call forwarding
- Call completion
- Televoting
- VPBX
- Etc.

Parlay application

IMS application

Fixed
Mobile 2G
Mobile 3G
IP
Service Continuity Case

NRG as part of the Ericsson IMS offering
NRG Software Development Kit

CD Available at Ericsson Mobility World for download:
- Documentation
- Programmers Guide
- JAVA software Libraries
- NRG Simulator
- Automated Test Tool
- Example applications
- Marketing material
- Educational videos

Available for download:

NRG Simulator

- Simulates the telecom network, Parlay Gateway (NRG)
- Includes virtual phones.
- For debugging, testing and demonstrate OSA/Parlay applications.
- The NRG simulator runs on any PC or laptop.
- No need for access to telecom network for initial testing.
NRG Partnering

Development Environment & Application Servers

Net4Call
the phone pages
infitel
wirenix
CRP

Application Developers

+ many more

WebSphere
JBuilder
WebLogic...

OSA/Parlay
Parlay X Web Services

ERICSSON
Network Resource Gateway

Core Network
Ericsson is the market leading Parlay Gateway vendor!

34 NRG commercial deployments plus additional trials
Benefits

1. Reduce OPEX in Service Delivery Platform
2. Fixed/Mobile/IP convergence
3. Wide support of business scenarios – connect enterprise, ASP, operators to your network
4. Utilize standardized technology for secure and reliable 3rd party access
5. Fast integration with large number of applications available of-the-shelf today, through Ericsson’s 3rd party program
Thanks!

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