

v6ops-3GPP Design Team

V6ops Interim meeting

Sunnyvale, USA

Jonne Soininen

18.9.2002

Scope & Goal

- Identify relevant transition scenarios
- Map relevant transition mechanisms to the scenarios
 - Identify relevant transition mechanisms
 - Perform “Gap Analysis” – I.e. identify missing transition tools
- Make recommendations for usage of transition tools
- Document the results
 - Scenarios
 - Solutions
 - Gaps
 - Recommendations
- Discuss these in the WG
- A Non-Goals
 - Specify new transition mechanisms
 - Change 3GPP specs

People & Deliverables

- Design team members
 - Margaret Wasserman (v6ops Chair)
 - Alain Durand
 - Jonne Soininen
 - Juha Wiljakka
 - Hesham Soliman
 - Karim El-Malki
 - Hugh Shieh
 - Niall Murphy
 - Paul Francis
- Deliverables
 - Scenarios Document
 - draft-soininen-v6ops-3gpp-cases-00.txt (old draft-soininen-ngtrans-3gpp-cases-00.txt)
 - draft-wiljakka-3gpp-ipv6-transition-01.txt

Changes to Scenarios Document

- Introduction to relevant 3GPP concepts added
 - GPRS basics
 - IMS basics
- PDP Type PPP added
- “Pictures” Added
 - Hopefully to clarify
- This document should be pretty stable by now

Scenarios Document

1. GPRS Scenarios

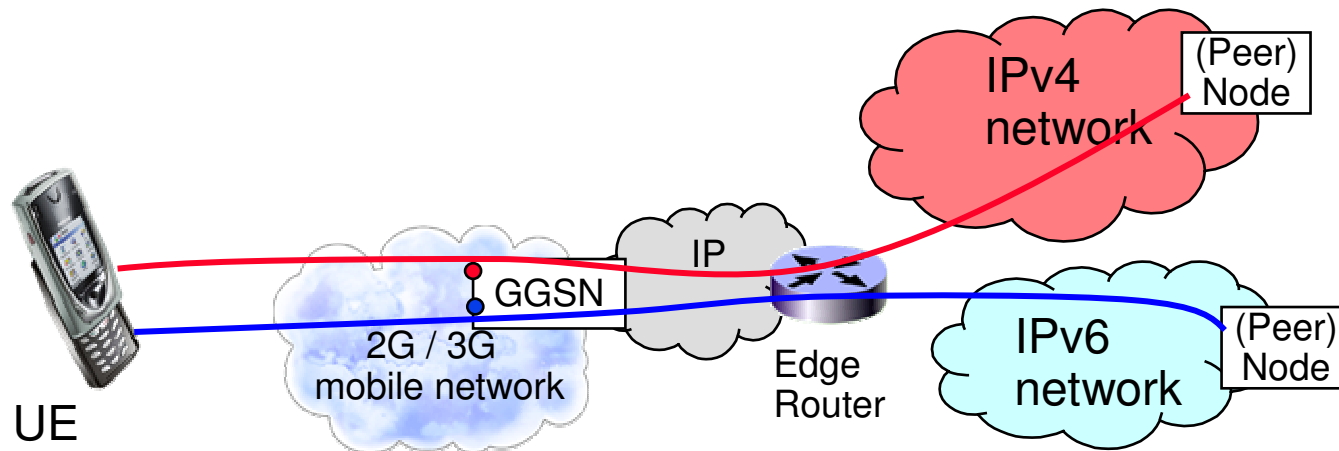
1. Dual Stack UE connecting to IPv4 and IPv6 nodes
2. IPv6 UE connecting to an IPv6 node through an IPv4 network
3. IPv4 UE connecting to an IPv4 node through an IPv6 network
4. IPv6 UE connecting to an IPv4 node
5. IPv4 UE connecting to an IPv6 node

2. Transition scenarios with IMS

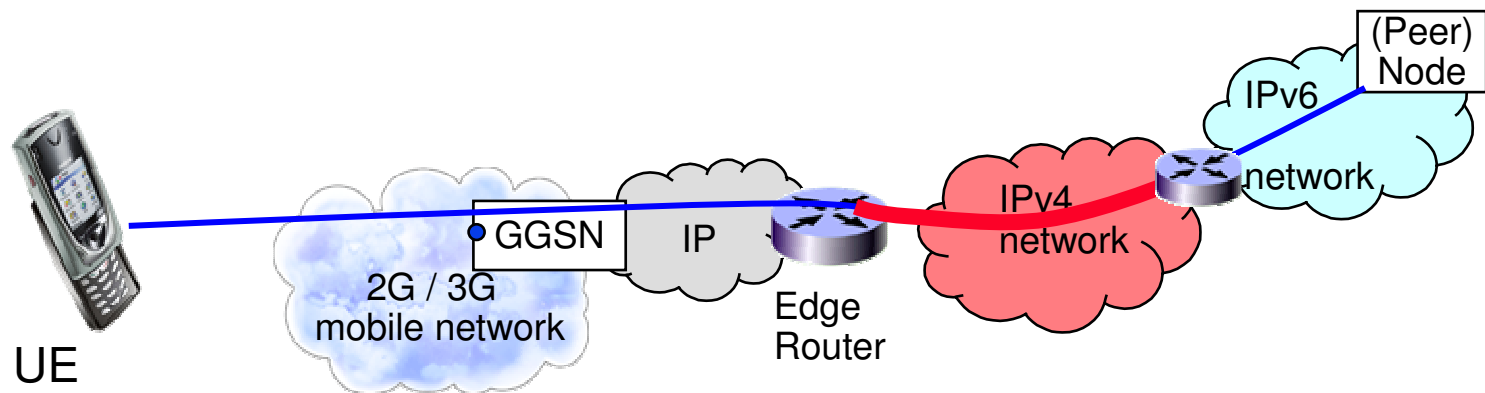
1. UE connecting to a node in an IPv4 network through IMS
2. Two IPv6 IMS islands connected via an IPv4 network

GPRS scenarios 1 and 2

1. Dual stack UE connecting to IPv4 and IPv6 nodes

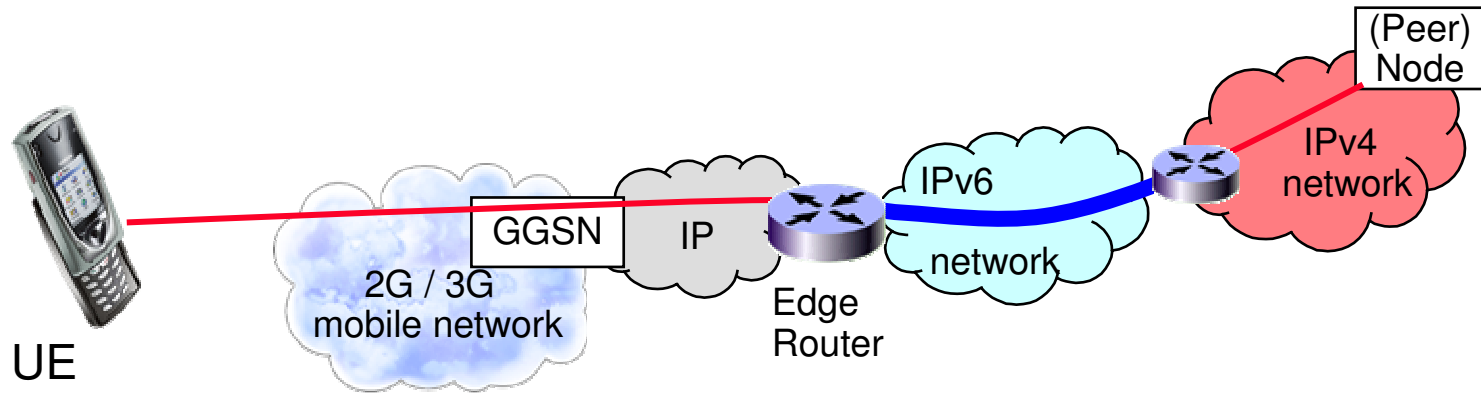


2. IPv6 UE connecting to IPv6 node through an IPv4 network

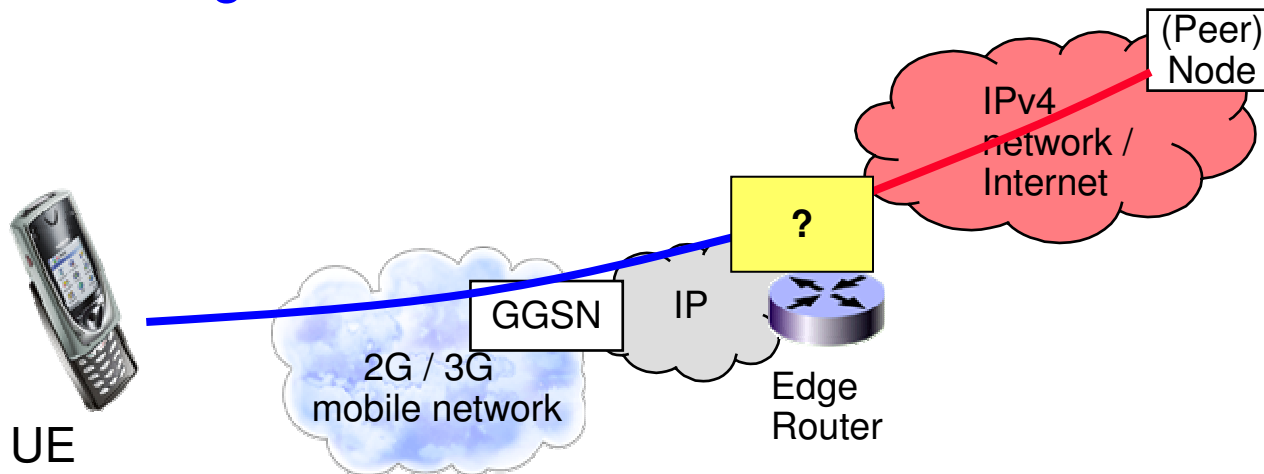


GPRS scenarios 3 and 4

3. IPv4 UE connecting to IPv4 node through an IPv6 network

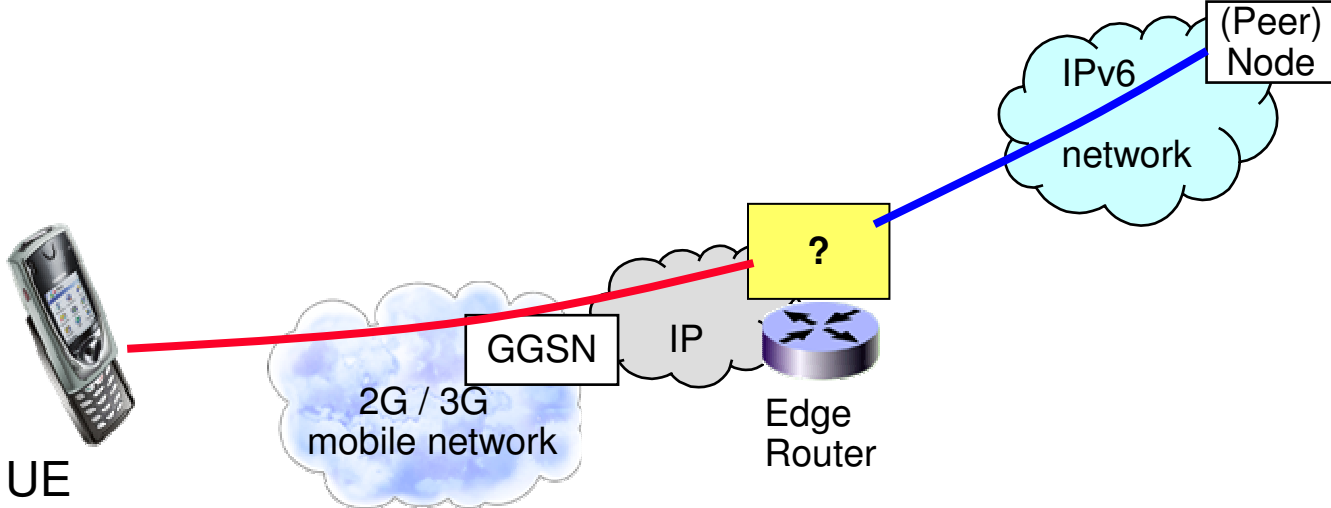


4. IPv6 UE connecting to an IPv4 node



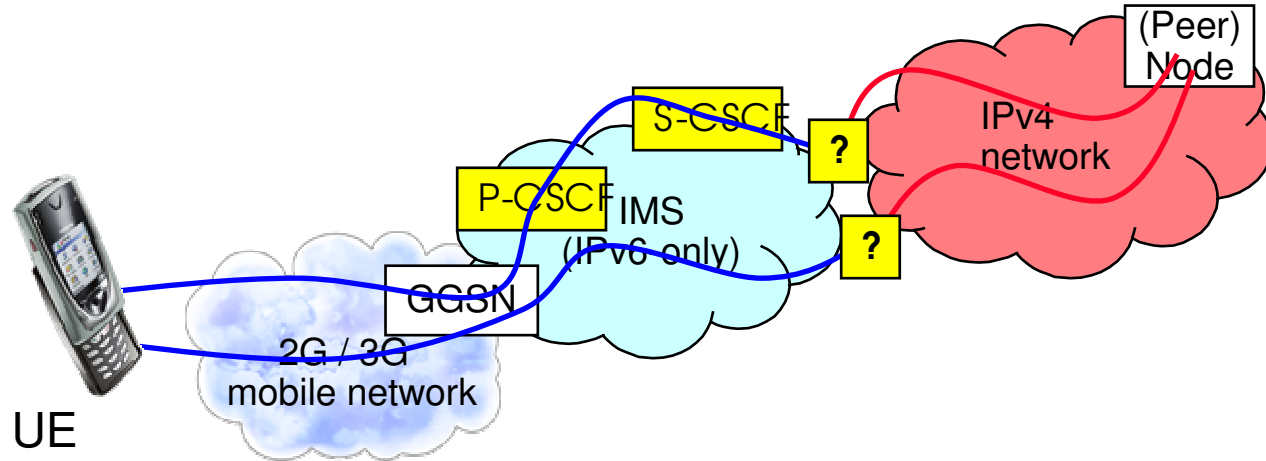
GPRS scenario 5

5. IPv4 UE connecting to an IPv6 node

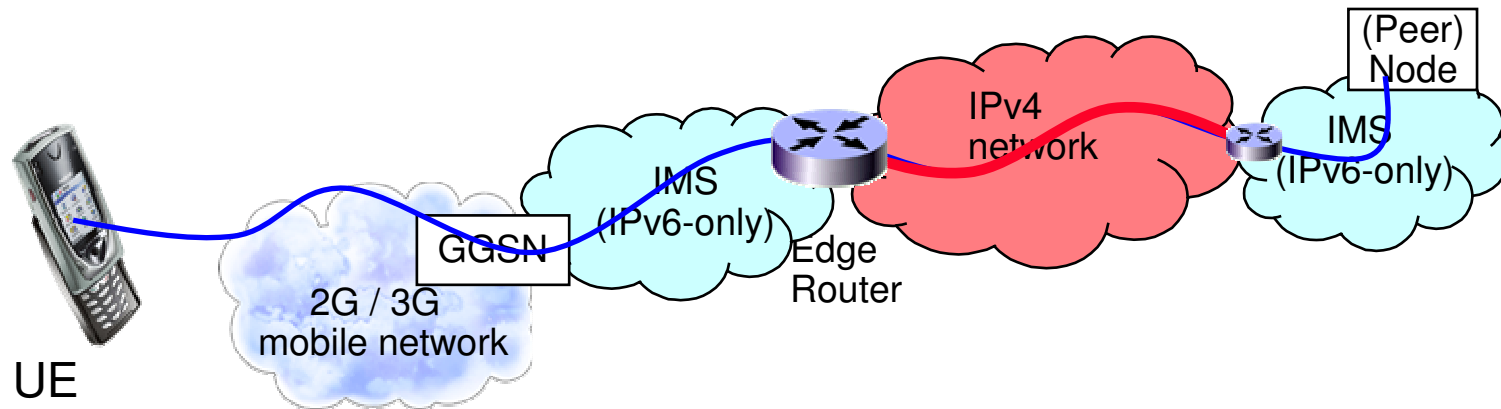


IMS scenarios 1 and 2

1. UE connecting to a node in an IPv4 network through IMS



2. Two IMS islands connected via an IPv4 network



Target Dates

Scenarios document published

- 04/02
- 09/02 Second version
- Design team started
 - 05/02
- First solutions draft published
 - IETF#54
 - 09/02 Second draft
- Solutions draft finalized
 - IETF#55/end of 2002

Could this document be taken as a WG item?

Agenda for Drafting Session

(Concentrate on the solutions)

1. Solutions Document introduction (10 min) (Juha Wiljakka)
2. NAT-PT Issues (Hesham Soliman) (ca. 15)
3. Scenario walk-through (Go through the scenarios and proposed solutions)
 1. GPRS Scenarios
 1. Dual Stack UE connecting to IPv4 and IPv6 nodes
 2. IPv6 UE connecting to an IPv6 node through an IPv4 network
 3. IPv4 UE connecting to an IPv4 node through an IPv6 network
 4. IPv6 UE connecting to an IPv4 node
 5. IPv4 UE connecting to an IPv6 node
 2. Transition scenarios with IMS
 1. UE connecting to a node in an IPv4 network through IMS
 2. Two IPv6 IMS islands connected via an IPv4 network
4. Wrap-Up (10-15min)