



IPv6 Task Force France

Patrick Cocquet, London January 19th 2003

A solid technical background

- **Strong R&D activities**
- **G6 association**
- **R&D national programs (RNRT)**
- **AFNIC : native DNSv6; host secondary DNDv6**
- **ARISTOTE association**
- **6WIND creation on September 2000**
- **Operational deployment on RENATER**
- **Conformance/Interop tests (ETSI, IRISA...)**

But we need something else!

- ***We need to speak real deployment***
 - ✓ System oriented problems
 - ✓ Added value
 - ✓ Procedures
 - ✓ Breaks
 - ✓ How to proceed
 - ✓ For what
 - ✓

The background of the slide is a composite image. On the left side, there is a view of the Earth from space, showing the curvature of the planet and some landmasses. Above the Earth, the Moon is visible in a clear blue sky. The right side of the slide is a plain white background.

Objectives and organization of the TFF

A prerequisite

- **IP version 6 (IPv6) has to replace the existing version 4 to fulfil the following needs:**
 - ✓ *Address capacity*
 - ✓ *Deployment of new applications and new services*
 - ✓ *Simplification of the network architectures*
 - ✓ *Security and reliability of the global Internet*
 - ✓ *Simplification of the use of the networks (Internet of commodity)*

The wish to work on the deployment

- *The question is not to know if we can run IPv4!*
- *We know the unique solution to deploy networks, systems, services with a quasi unlimited number of « devices » is to move to IPv6.*

What the Task Force is not

- ***A technical group***
- ***The group of IPv6 experts is in France the G6***
- ***G6 is member of the TFF***
- ***Technical pbs identify by the TFF will be addressed to G6***

Who can join Task Force ?

- *An open group*
- *Clear commitment from the members*
- *A one year evolvement*

Our objectives

- ***Identify the industry and service sectors where IPv6 is going to be vector of development***
Industry, transports, health, education, game...
- ***Work on a roadmap***
- ***Identify the existing breaks***
- ***Propose actions and recommendations***
- ***Organize events, provide publications...***
- ***Facilitate deployments***

Method of work (1)

- ***Share our knowledge***

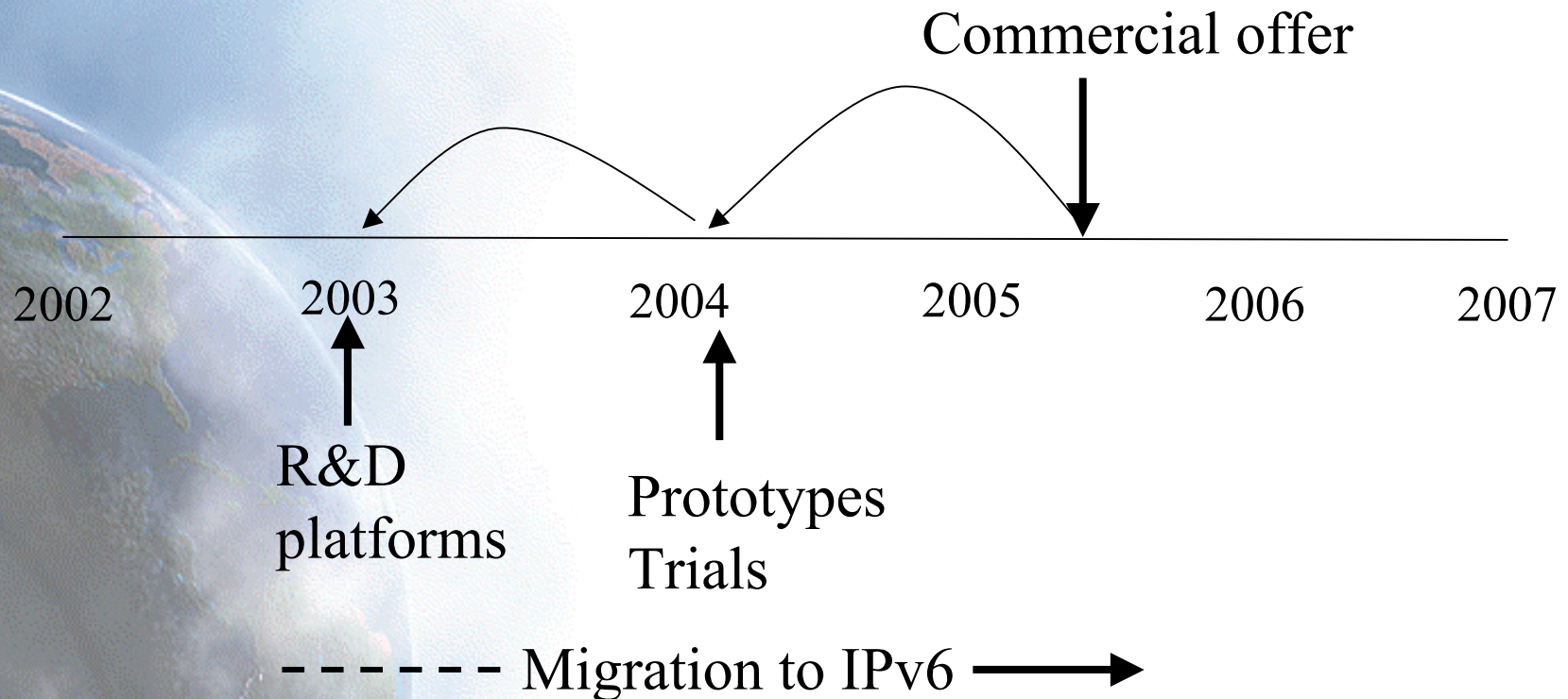
- ✓ State of the art
- ✓ Vision of the future of the system

- ***Agenda 2002-2009***

- ✓ quasi certain
- ✓ probable
- ✓ possible

What is important to identify

➤ *The new applications*



Method of work (2)

- ***We start from a presentation***
 - ✓ Experience of deployment, telecom system, application, study...
- ***We identify the + and -***
 - ✓ How ?
 - ✓ What is needed ?
 - ✓ Relationship with other systems ?
- ***We summarize in term of recommendations***

Main topics



1 : ISP & Telcos architectures & services

2 : Enterprise networks

3 : Networks in the Home

4 : IP in public services

5 : Mobile applications

6 : Security

7 : Impact on Society, acceptability

Activities

- ***One meeting every 6 weeks***
- ***2 main subjects per meeting***
- ***One secretary***
 - ✓ Minutes
- ***Mailing list and web***
 - ✓ Minutes
 - ✓ Presentations
 - ✓ List of participants

Future activities

- ***Set up working groups***
- ***Links with other organizations***
- ***Participations to Internet events***
 - ✓ Autran, Internet fiesta, N+I...
- ***Show cases during events***
- ***Push deployment projects***
- ***Promotion actions***

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Synthesis of the first meetings

Kick-off Dinner

- **On the 25th of September 2002 at « le Sénat » (French parliament)**
- ***Sous le haut patronage de René Trégouët, Sénateur du Rhône et Président du Groupe de Prospective du Sénat,***

1st meeting

- **On the 28th of October 2002 at ENSAM Paris**
- ***Presentation of the objectives of the TFF (Patrick Cocquet).***
- ***Presentation of the IPv6 deployment on Renater3 (Bernard Tuy from Rénater).***
- ***Presentation of telematic applications for the cars (Gérard Ségarra from Renault).***

2nd meeting

- On the 10th of December 2002 at ENST Paris.
- *Presentation of the studies lead per IDATE for the French ministry of Industry and the telecom regulation authority (Roland Montagne)*
 - ✓ les enjeux du déploiement du protocole IPv6,
 - ✓ la migration vers IPv6.
- *Presentation of the addressing problems in a GPRS network (Lionel Hoffmann from BOUYGUES TELECOM).*

Autran 2003

- ***2,5 days in the Alps***
- ***VIP, researchers, engineers, teachers...***
- ***A talk with Claudie Haigneré, minister of research & new technologies***
 - ✓ The ministry will help in 2003 the new IPv6 Task Force
- ***TFF working session***
 - ✓ New telecom actors, projects in Africa...
 - ✓ Naming & addressing

2003 Agenda

- ***February: health applications***
- ***March: Internet fiesta – Home networks - WiFi***
- ***April: ISPs & Web hosting***
- ***June: IPv6 Show***
- ***September:***
- ***October: N+I Paris, IPv6 Show + conferences***
- ***November:***
- ***December:***

Main conclusions

- ***1/ TFF has to be a medium/long term action***
- ***2/ Need of information (addressing pb, new models, new applications)***
- ***3/ Need of actions from public authorities (Nbr of actors, size of the systems...)***
- ***4/Need to be positive. We know how to build IPv6 systems, we will know how to solve pbs***
- ***5/Importance of the exchange of ideas/experiences to build effective project***
- ***7/Need to target the web hosting sites. Need to start by the servers before deploying clients***

Main conclusions

- ***6/Internet rules may be complex or not adapted for new actors (mobile, local providers...)***
- ***8/Mobile applications clearly need IPv6. We can concentrate efforts on these applications (ex car)***
- ***9/all applications with very large deployment have to be designed with IPv6***
- ***10/we have to take advantage of the GPRS deployment to show the interest of moving to IPv6. GPRS networks can move to IPv6!***
- ***11/ Localisation, personal services vs privacy. Need to have a clear contract between the user and the provider.***