



Information Society
Technologies



IPv6 TASK FORCE
— Steering Committee —

Title:	Deliverable D1 Project Presentation	Document Version: 0.2
---------------	--	-------------------------------------

Project Number: IST-2001-37583	Project Acronym: IPv6 TF-SC	Project Title: IPv6 Task Force Steering Committee
--	---------------------------------------	---

Contractual Delivery Date: 31/10/2002	Actual Delivery Date: 12/11/2002	Deliverable Type* - Security**: R – PU
---	--	--

* Type: P - Prototype, R - Report, D - Demonstrator, O - Other
 ** Security Class: PU- Public, PP – Restricted to other programme participants (including the Commission), RE – Restricted to a group defined by the consortium (including the Commission), CO – Confidential, only for members of the consortium (including the Commission)

Responsible: Jordi Palet	Organization: Consulintel	Contributing WP: WP1
------------------------------------	-------------------------------------	--------------------------------

Authors (organizations): .

Abstract: This document is a summary of the more relevant information of the project, including the objectives, technical approach, key issues, and expected impact. Includes also the list of participants.

Keywords: Objectives, Technical Approach, Key Issues, Expected Impact

Revision History

The following table describes the main changes done in the document since started.

Revision	Date	Description	Author (Organization)
v0.1	12/10/2002	Document creation	Jordi Palet (Consulintel)
v0.2	12/11/2002	Final comments from partners	Jordi Palet (Consulintel)

Executive Summary

This document is a summary of the IPv6 TF-SC project more relevant information, including the objectives, technical approach, key issues, and expected impact.

Includes also the list of participants.

Table of Contents

- 1. *Relevant Data*.....6**
- 2. *Abstract*7**
- 3. *Main Objectives*8**
- 4. *Technical Approach*.....9**
- 5. *Key Issues*.....10**
- 6. *Expected Impact*.....12**
- 7. *List of Project Participants*14**

Table of Figures

Figure 1-1: Relevant Project Data 6
Figure 5-1: Work Package Interrelation and Liaison/Support to the Task Force..... 11
Figure 7-1: List of Project Participants..... 14

1. RELEVANT DATA

Project acronym: IPv6 TF-SC	
Project name: IPv6 Task Force Steering Committee	
Contract no.: IST-2001-37583	
Project duration: 18 months	
IST Action Lines: VII.1.2, VIII.1.2, VIII.1.8, VIII.1.1, IV.5.1	
Clusters: IPv6, Mobile Services and App.	
Total Cost: 249.961 €	
EC Funding: 249.961 €	

Figure 1-1: Relevant Project Data

2. ABSTRACT

The European Commission initiated an IPv6 Task Force driven by major and key European and worldwide players, to develop a comprehensive action plan by the end of 2001 aiming to ensure the timely availability of IPv6.

The conclusions and recommendations of the Task Force were successfully submitted to the European Council Barcelona Spring meeting of 2002, under the Spanish Presidency, and in the context of this document, a series of recommendations pertaining to the implementation of IPv6 by all relevant ICT sectors were proposed by the Commission.

As a result, the Heads of State resolution was to prioritize the widespread availability and use of broadband networks throughout the Union by 2005 and the deployment of the New Internet Protocol IPv6.

One of the main achievements was a Communication from the Commission to the Council and the European Parliament called "Next Generation Internet-priorities for action in migrating to the new Internet protocol IPv6"

IPv6 is a technology that not only enables new and enhanced Internet features to be deployed but it is also a technology that restores the simplicity of original Internet technology by removing current barriers and impediments born out of the IPv4 address shortage. It also glues existing services in terms of a common delivery protocol. IPv6 is a major evolutionary step towards an enhanced next generation Internet infrastructure. It offers economical and social benefits by way of addressing the different business sectors.

The main recommendations of the IPv6 Task Force (1st Phase) where:

- Increased support towards IPv6 in public networks and services,
- Launching of educational programmes on IPv6,
- Promotion of IPv6 through awareness raising campaigns,
- Further stimulation of Internet across Europe,
- Creation of a stable and harmonized IPv6 policy environment,
- Strengthening of IPv6 activities in the 6th Framework Programme of R&D
- Strengthening of support towards the IPv6 enabling of national and European Research Networks,
- Acceleration of contributions towards IPv6 standards work,
- Integration of IPv6 in all strategic plans concerning the use of new Internet services.

Early deployment of IPv6 avoids furthermore, high (transition) costs and the need for expensive un-tested implementations in a competitive fast growing market.

As a complementary action, the European Commission calls for the renewal of the mandate of the "IPv6 Task Force" as a platform for debate on critical issues concerning the deployment of IPv6.

3. MAIN OBJECTIVES

In order to exchange views with all economic and industrial sectors likely to be impacted by IPv6, including, consumer organizations, research institutions, and independent data protection authorities as well as representatives of national or regional IPv6 Councils and appropriate representatives from candidate countries the renewed mandate of the **Task Force** will encompass:

- Foster a working liaison with standards and Internet governance bodies such as ISOC, IETF, ICANN, RIPE NCC, 3GPP, ETSI, IPv6 Forum, Eurescom, ETNO, UMTS Forum and GSM Europe.
- Provide a periodically updated review and plan action (“the European IPv6 Roadmap”) on the development and future perspectives of IPv6 in order to coordinate European efforts on IPv6.
- Establish collaboration arrangements and working relationships with similar initiatives being launched in other world regions.

One of the main goals is to discover and fill gaps, provide strategic guidance with the assistance of a number of industry and academic players, to quickly propose measures to the appropriate bodies, to involve the European Commission and to verify sustained activities and implementation of proposed measures.

As a consequence, **the nature of this project (IPv6 TF-SC)** is to be the strategic instrument and create ground for discussion and monitor how the recommendations are transformed. Besides, it will collaborate with other regional groups and initiatives deploying IPv6.

To assure the success of IPv6 deployment, IPv6 TF-SC project, in its role as the facilitator of the Task Force, which is invited to create strategic Roadmaps, will continuously monitor the academic, market and industrial activities, and provide guidance where appropriate to avoid duplication of work.

The project will carefully take action and not jeopardizing any time schedules in place by inviting high-level Officers of the industry and administrations from time to time, to openly discuss and agree on common grounds in general issues of IPv6. Together with the Commission, it will hold Workshops to ensure the awareness and work activities are put in place, according to the market status and Information Society progress and developments.

The IPv6 Task Force Steering Committee will raise flags where appropriate so that the recommendations from the IPv6 Task Force 1st phase are implemented. It will help to coordinate the IPv6 the EU program, where necessary, with the outside industry and it will spread the word about IPv6 in new industries that are not yet fully aware of IPv6 (automotive, aero space, etc.), but that will benefit from IPv6 in a major way, as it can be seen by activities in Japan for example.

To this extend, the project will **facilitate, support and coordinate the continuation of the work of the IPv6 Task Force, with the renewed mandate of a 2nd phase, with the means of a Steering Committee, consisting of IPv6 experienced Experts. This will facilitate the successful introduction of IPv6 in Europe and consequently, the rest of the world.**

4. TECHNICAL APPROACH

In order to achieve the project objective, the following goals had been defined:

- To perform all required actions aiming at the enhanced coordination and continuation of the work performed within the IPv6 Task Force 2nd phase. The IPv6 TF-SC will set the Agenda and with the assistance of the Commission invite participation of representatives of not yet represented economic and industrial sectors likely to be impacted by IPv6, including representatives of national or regional IPv6 Councils and appropriate representatives from candidate countries.
- The IPv6 Task Force provide a regularly updated review and plan action on the development and future perspectives of IPv6 in order to coordinate European efforts on IPv6. The IPv6 Task Force Steering Committee will monitor how the recommendations are implemented and remind those that need to take action where appropriate.
- Create the proper working and liaison environment to ensure that a working collaboration with standards and Internet governance/policy bodies takes place.
- Establish collaboration arrangements and working relationships with similar initiatives being launched in other world regions, industry and research.
- Organize regular IPv6 Task Force meetings (Plenary and/or Working Groups) with the assistance of the Commission.
- Foster dissemination and awareness activities, regarding the IPv6 Task Force work, and other related efforts and initiatives, including the operation of the IPv6 Task Force and the project web sites.

5. KEY ISSUES

From the perspective of this project, and considering the previous recommendations submitted to the EC, taking into account that these are subject to change as a matter of decision of the IPv6 Task Force 2nd Phase, the main goals of the IPv6 Task Force will be:

- Educate the Industry and disseminate the Information.
- Work out a Roadmap for deployment of IPv6 in different Industry sectors with the help of applicable scenarios where appropriate.
- Promote the rollout of IPv6 products, e.g. IPv6 connectivity in consumer-electronic devices on a large-scale by approximately 2005.
- Encourage national governments and institutions in Europe to accelerate the rollout of broadband, “always on” networking with IPv6 to homes and small businesses with the assistance of the commission.
- Encourage vendors to incorporate IPv6 support into their products, e.g. application programming interfaces (APIs) and language environments, for example, database systems.
- Encourage European car manufacturers to deploy and test IPv6 on “internet car” prototypes to validate wireless and mobility usage on a large scale by approximately 2005.
- In view of the increasing deployment of VoIP, encourage the feasibility of dual stack SIP phones development. The use of IP multimedia Terminals both IPv6 and SIP enabled should be investigated and the appropriate addressing needs should be forecasted.
- Encourage active contributions towards the acceleration and alignment of on-going IPv6 work within standards and specifications bodies.
- Help to develop key guidelines permitting the efficient integration of IPv6 infrastructures and interoperability of IPv6 services and applications, notably in the context of 3G mobile communications but also in fixed line and corporate environments.
- Where appropriate work out proposals for IPv6 work activities needed in future EC Framework programmes.
- Identify major Integrated Projects in view of FP6, to extend and complement, if necessary, the goals of this project.

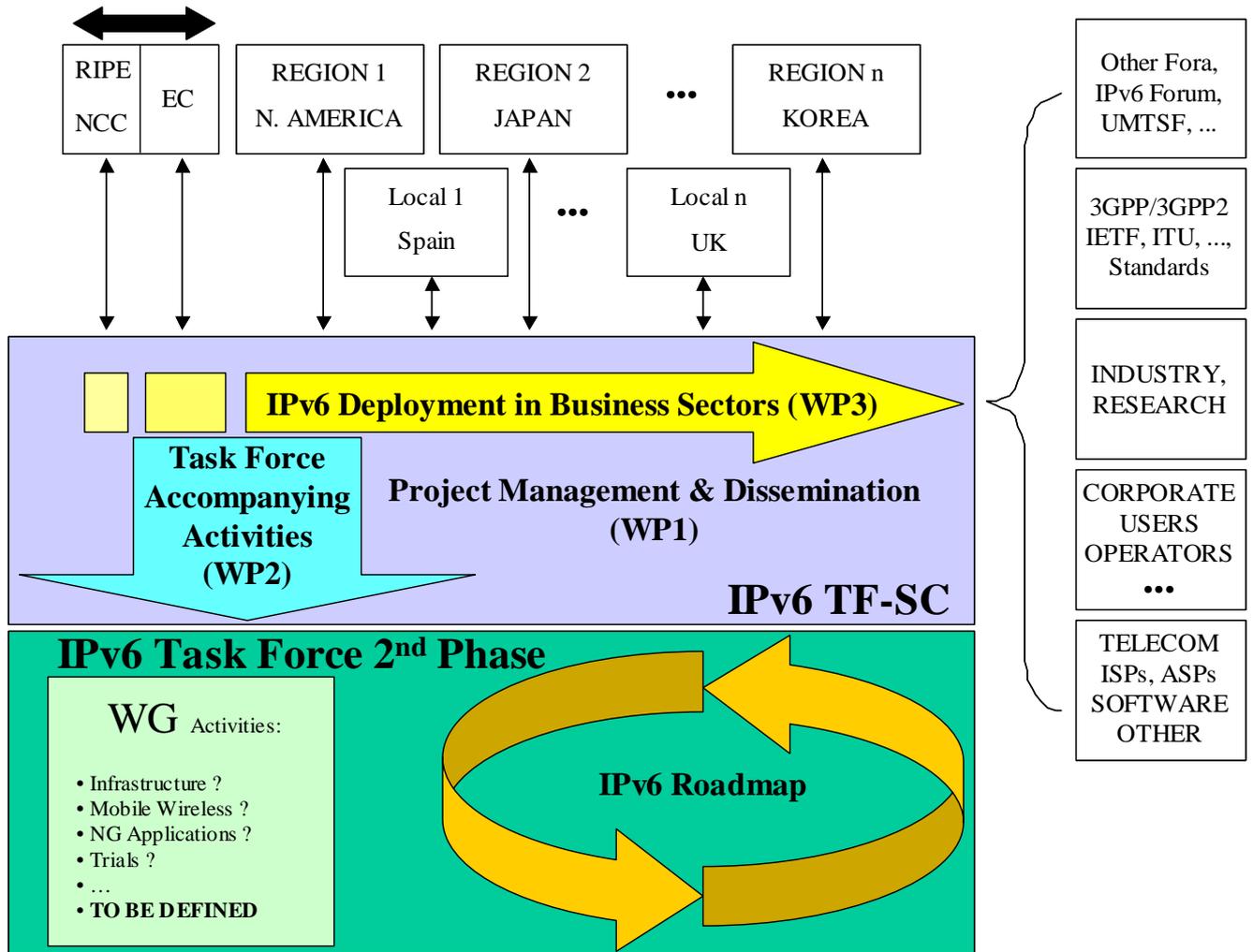


Figure 5-1: Work Package Interrelation and Liaison/Support to the Task Force

6. EXPECTED IMPACT

Europe's leadership in Internet technology development and provision should be based on offering unlimited address space, quality and security, properties that the current Internet does not provide. Europe should foster a unique leadership strategy in promoting the new Internet, based on IPv6, in order to promote pan-European E-commerce, offering customer protection and benefits in terms of security and quality, as services converge to run over IP. Such a European IPv6 network will place Europe in a position of strength with respect to new Internet technology.

Nonetheless, awareness for IPv6 throughout industry, academic institutions and in the public area is still low compared with potential influence IPv6 will take on the direction of the Internet in the coming years. The intent of this project is to trigger the necessary actions to raise the awareness for the next generation Internet and its benefits in a significant way.

The project outcome will clearly have an impact but also contribute to the EU policies, as it will increase the competitiveness, participation and global leading position of the European Industry in the next generation networks. These are expected to be IPv6-based, either fixed or wired, but also in related aspects as home networking, next generation applications, next generation infrastructures, always-on connectivity, secure networking, and home/industrial automation.

Moreover, the global dissemination and awareness of the research and development activities being carried out in Europe will be highly increased by the successful work and international linkage that the IPv6 Task Force has already achieved during 2001, and will be furthermore expanded in this 2nd phase.

But in addition, we expect an increase of the participation of our researchers, at least of the key players, in IPv6 related global initiatives, collaboration and linkage with other countries, further participation in the standardization works, reinforcing all the topics indicated in the section 4 (Contribution to programme/key action objectives) of this document.

Leadership in deployment of IPv6 across Europe will lead to deployment of IPv6 globally. It will open new opportunities to Europe in designing new international knowledge and technology-oriented cooperation and inter-state partnerships at the beginning with Asia (see Euro China) then draw in initiatives in developing economies in Eastern Europe and Russia and then will close on the digital divide in developing nations (India and Africa). Europe will be able to champion the grand vision and design of a knowledge-nurtured society equipped for the challenging times ahead.

The project has a very strong Community Added Value, since there is no other pan-European organized group that is trying to follow overall business, deployment and development issues related to IPv6 in Europe (and in the world as seen from the European context). The European project is an ideal vehicle, indeed perhaps the only possible way, to have this sort of organized and lead on the status of IPv6 in Europe.

Moreover, the project will provide a joint European platform to exchange information not only on the progress and development of IPv6, but also a place to exchange information on best practices, new products, networks and end-user requirements, etc., between various organizations. Again, by providing independent and open platform for discussions, monitoring and information exchange, the project will leverage on a pan-European level. The pure fact of

bring the Industry at large together can be considered to be an asset and of great value to a common goal.

All the above-mentioned issues, especially the monitoring and steering the pan-European development towards an IPv6 enabled eEurope, would be naturally overwhelming and impossible task for any single company, hence the Community project brings in very strong added value to this initiative.

It has been recognized also that Europe needs to be in the forefront of IPv6 deployment, and this is clearly stated in the several EU communiqués. This requires a better understanding of the status of IPv6 presently within the European industry and operator markets, and enhanced exchange of information and awareness campaigns. This is again possible only through the joint European project with a large number of players participating in, and co-coordinated with a smaller steering committee of high-caliber persons and organizations. The awareness on the European level (including information provided to European Commission itself) can be provided only through pan-European participation in order to guarantee the best possible knowledge and consensus based unbiased information.

7. LIST OF PROJECT PARTICIPANTS

List of Participants		Coordinators Contact Details
T-Systems Nova (TSN)	D	André Zehl —TSN Goslarer Ufer 35 10589 —Berlin Germany Tel: +49 30 34973126 Fax: +49 30 34973127 Email: andre.zehl@t-systems.com
BT Telecommunications (BT)	UK	
Consulintel (Consulintel)	E	
LM Ericsson (LME)	S	
Philips Electronics (Philips)	NL	
Siemens (Siemens)	D	
University of Southampton (UoS)	UK	
University of Oulu (UOulu)	FIN	

Figure 7-1: List of Project Participants