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Contributions from all partners to provide the URL base for the benchmarking.

Abstract:

The aim of this document is to set-up the methodology for IPv6 Readiness benchmarking and to document the recorded progress for the last 6 months period.

Keywords:

IPv6, Governments, benchmarking, monitoring

Revision History

The following table describes the main changes done in this document since its creation.

Revision	Date	Description	Author (Organization)
v1.0	15/11/2012	Document creation	Jiří Průša (CZ.NIC)
v2.0	20/11/2012	Document updated to match Project Deliverable Template	Jiří Průša (CZ.NIC)
v2.1	17/12/2012	Final Changes	Jiří Průša (CZ.NIC)
v2.9	29/01/2013	Final review and submission GEN6 Review	Jiří Průša (CZ.NIC)
v3.0	15/02/2013	Final release	Uwe Holzmann-Kaiser Fraunhofer FOKUS

Milestone Description

Europe needs to be a competitive player on information technologies, and in IP networking this means going IPv6, in the private sector as well as in eGovernment. Continuous monitoring of the level of IPv6 rollout progress of each state is therefore a must-have. That's why in line with the **Digital Agenda for Europe** and its **Action Nr. 89** we started to monitor and regularly record the IPv6 readiness of governmental institutions and their public appearances.

This way we can find out whether IPv6 was introduced or not, relating to web-services, DNS, and e-mail servers support. The problem lies in comparing comparable. Especially in globalised world of internet we have to distinguish between national and international URL. Even though some websites seem national since they are in national language and they are used by citizens of certain state we can't forget they might be international e.g. Facebook, Google.

There is no other European-wide research that would compare just government's websites although there is one research alike that is provided by "IPv6 Observatory". The difference from the following one is in comparing international URL with national. The other difference between IPv6 Observatory and our research is focusing on government websites and services instead of most visited web-pages from each country.

The reason why this monitoring is unique is that as the only one lies on collecting comparable URLs of all member states and some non-EU countries e.g. Turkey. Designated catalogue of governmental institutions of public appearance is prepared in order to monitor the progress of transition to IPv6. Based on this selection of addresses, IPv6 readiness will be measured and published every 6 months, starting in January 2013 until the end of the GEN6 (Government enabled with IPv6) project supported by the European Commission. This benchmark will compare different areas of public administration starting with head of state and ending with cities.

Technical checks in benchmarking will focus on the availability of web services, DNS and mail servers with respect to their availability via IPv6.

Benchmarking Methodology

The Scope

In order to compare the implementation and adoption of IPv6 in various countries, the public administration and it´s electronic services were divided into three main groups. The first group represents the national or federal level, the second one is focused on the regional level and the last one involves the municipal level.

National / Federal Level

- **The Head of State** – please insert the URL of the official Head of State considering your constitution. Please note the difference between the official web-site (e.g. www.hrad.cz/en) and personal webpage. (e.g. www.klaus.cz). The latter of which is only available for monitoring if there is no official "institution" webpage.

- **The main Executive body** – please insert the URL of the official web-site of the main Executive Body.

- **The main Legislative body** – number of URLs depends on the constitution of each country. When Legislative body is divided by constitution in two chambers, two URLs for each MS will be provided. Please note, that it involves only the national level (in unified states) or federal level (in federations).

- **Ministries** – please put URLs of all ministries at the national/federal level in your country. Please note the difference between official web-site of the ministry (www.mpo.cz) and personal minister's webpage (www.martinkuba.cz).

- **Judicial Authority** – please put URL of constitutional court in your country. If there is none please provide the URL of the highest court in your country.

- **Other central governments offices** – please insert URLs of all central government institutions in your country. Usually, these institutions have been established on legal basis. If there is no list, please involve especially following organisations/institutions:

  - Central/National Bank
  - Competition Protection Office
  - Personal Data Protection Office
  - Statistical Office
  - National Security Office
  - Other central government institutions such as Telecommunication Office, Energy Regulatory Office, State Material Reserves Authority, Cadastral Office, Industrial Property Office etc.

Regional Level

Regional government – number of URLs depends on number of units corresponding to NUTS classification by Eurostat in each MS (see Nomenclature of Territorial Units for Statistics). For small and medium states there are NUTS3 or NUTS2; for large countries their NUTS2 or NUTS1 in case of Germany. When state is organized as a federal, please insert URLs of each federal state.

Local Level

Cities/municipalities – Please insert URLs of the capital and largest cities in your country. If your national legislation recognizes some categories (levels), please involve all the most important cities. Please consider also the maximum number of URLs especially in large countries such as France, Germany or Spain. The minimum set or URLs is represented by main cities in NUTS3 classification (one city of each NUTS3 unit). It's recommended to limit the number of URLs to 500.

Benchmarking Results

Results will be available from:

https://devpub.labs.nic.cz/ipv6-smt-new/country/

They are also reachable the GEN6 web site and from the IPv6observatory web site after the benchmarking is working in a stable release.