

Addressing the Barriers to IPv6 Adoption – Project Results and Resources

Mark McFadden

IPv6 Framework for European Governments – SMART 2016/0099

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Context – Pilot Project

- ISA2 had a previous project that piloted Ipv6 deployments in a select set of Member States
- Part of that project – called GEN6 – was building training / education / case study materials that would help Member States as they considered IPv6 deployment
- The GEN6 materials are still online and available at:
 - <http://www.gen6-project.eu/>

Materials from this Project

- This is an implementation project focused on the technology transfer that:
 - Helps provide documentation for starting an IPv6 transition
 - Explains mechanisms for acquiring IPv6 addressing
 - Describes implementation plans that vary based on the size of the Public Administration
 - Provides the basics of building IPv6 addressing plans for a new or existing network
 - Describes approaches to IPv6 deployment planning
- These materials are available from the project website at:
 - <http://ipv6gov.eu/>

Synthesis of the Status of IPv6 in Europe MS

- Specifically: a comprehensive examination of IPv6 deployment in public administrations
- Based on research conducted in October 2017 to March 2018
- Comprehensive: attempts were made to interview every European MS
 - From largest to smallest
- Data provided includes projects underway, key stakeholders and how the MS is doing regarding IPv6 deployment
- Also provides key observations about trends in IPv6 deployment in public administrations
- Helps identify those countries that have had success in deployment
 - With the possibility of learning how to overcome barriers to deployment

Guidelines and Process

- Guidelines and Process: IPv6 for Public Administrations in Europe
 - IP Addressing Basics
 - Host Addressing Assignment
 - Why is IPv6 Different for Public Administrations
 - Planning the Public Administration Deployment
 - IPv6 Subnetting
 - Getting IPv6 Addresses
 - IPv6 Address Maintenance
 - RIPE Requirements for IPv6 Compliance (RIPE-554)
 - Special Use IPv6 Addresses

Technical Profiles

- Technical Profiles: IPv6 for Public Administrations in Europe
 - Planning for IPv6 in Public Administrations
 - Transition Approaches and Technologies
 - Existing Profiles from other Countries
 - Profiles for IPv6 Hardware
 - Fundamentals
 - Edge Systems and Mobile Devices
 - Routers
 - Infrastructure Networking
 - Management Devices

IPv6 Address Acquisition in Europe

- A short guide for public administrations on how to obtain IPv6 addresses
- Covers types of addresses to be acquired
- Then examines
 - Getting IP addresses from upstream providers including national services
 - Becoming an LIR in the RIPE region in Europe
 - Step-by-step description of the process
 - Likely results
 - Examination of the growth of LIRs in the RIPE region
 - Intended as a short guide to IPv6 address acquisition
 - Non-technical approach to the subject matter

Summary of the First Part of this Project

- An interim report on the first two phases of this project and a description of what is yet to come
- Written at a very high level
 - Non – technical
- Fulfills a requirement of the project, but provides the non-technical reader an overview of the results leading up to the first workshop

Workshop Reports

- The project had three in-person workshops
 - Brussels – Identifying the Barriers to IPv6 Deployment
 - Lisbon – Overcoming the Barriers to IPv6 Adoption – Technology Transfer
 - Brussels – Final Project Workshop
- For each workshop a detailed Workshop Report was published
 - And, will be for this Workshop
- The Workshop Reports are to be published on the project website
 - They should be available next week
 - Project website: <http://ipv6gov.eu/>

Workshop Presentations / Technology Transfer

- At the face-to-face meetings there were many presentations
 - Some primarily informational
 - Some intended to deliver solutions to IPv6 transition barriers
- All of those presentations are public and available on the project website
 - Brussels – Identifying the Barriers to IPv6 Deployment
 - Lisbon – Overcoming the Barriers to IPv6 Adoption – Technology Transfer
 - Brussels – Final Project Workshop
- Note that the Final Project Workshop presentations will be available on Friday or early next week
- Some of the presentations are intended as tools for overcoming barriers to IPv6 adoption

Resources for the Future

- Meeting report from this workshop will be produced and made public as soon as possible after the workshop
- Training materials for future workshops will also be made available
- Final project report and presentation will also be made public through the project website
- Along with our project, there are many other resources for IPv6 transition and deployment
 - Very few are targeted specifically at public administrations
 - Few deal with the specific barriers that confront public administrations
 - Many are built to motivate private sector transition

Revisions of the Project Documents and Materials

- The project calls for revisions to the project documents and materials based on Member State input and comment
- There hasn't been a great deal of comment or feedback on the deliverables
 - The “Current State” and “Profiles” documents have received comments from some Member States
- Our plan is to make one more attempt to solicit comments from participants in the workshops
 - And then publish revised versions of the documents based on the input we receive

Questions?