The Home Gateway Initiative: from service support to service awareness

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http://www.homegateway.org
Why the HGI?

- Telcos are providing not only a broadband pipe, but an integrated set of services (IPTV, communication, Fixed-Mobile convergence) and an ecosystem of interoperable devices.

- Unavailability of Home Gateways providing full support to the telecom operators’ requirements for triple play services.

The Home Gateway is not seen as a generic advanced modem-router, but a **service enabler device** and an **added value** for both the customer and the service provider.
History and timeline

- December 15\textsuperscript{th} 2004, founded by 9 members
- March 2\textsuperscript{nd} 2005: press release and website opening
- April 13-14 2005: kickoff meeting, 130 participants and 34 member companies
- 60 members as of Dec 31\textsuperscript{st}
- Next plenary meeting: Montreal, 20-23 March, 2006
- Release 1 specs: 1Q-2Q 06
- Plugfest: 2H 2006
- First products by mid 2006
- Additional technical specifications (rel. 2): 4Q06-1Q07
HGI organisation and working method

Business Groups
- Manufacturers Feedback and Input Group
- Operators Requirements Group

Technical Groups
- HGW
- HNA
- QOS
- RODI

Reference Architecture Task Force
HGI Successful Working Method

- Fast answers to urgent needs (top management roadmaps of the Telcos in the HGI)
- Short-mid term vision (no R&D or visionary perspective)
- Highly positive feedback from industries and SDO’s demonstrates we have chosen the right approach until now
- Several MUSTs and a few SHOULD make our documents more usable in procurement and tenders
- Regional/local markets options and features will be allowed as add-ons to the main core of the HG
Some of the HGI targets

- Not just a powerful broadband modem/router, but an added value for the provider, the customer and the vendors of IP devices
- Not a closed box, but supporting CE devices, gaming consoles and other IP enabled “domains”
- Putting together the critical mass for reaching a price point that will make the Home Gateway a real commodity
A tree not a flower vase

A tree is expected to last more than a bunch of flowers
Reaching a critical mass is the success of the HGI
From service support to service awareness

- Service support: e.g. flexible NAPT, VoIP codecs, ALG, firewall, WAN-LAN QoS mapping (NOW)

- Advanced service support: e.g., IGMPv2-3, UPnP modules, integrated management, end to end QoS control, support to external and heterogeneous service gateways (during 2006)

- Service awareness: the HG is a repository, control and distribution point for services (next phase)
Service awareness

- Knowing what? And why?
- Interactions among all the available management platforms to exchange information and data
Service awareness of the GW

- Network status (WAN & LAN)
- IP Ports used
- Physical I/F
- Traffic profile (Upstream/downstream/intra-LAN)
- Active devices
- Advanced management features (preassurance, provisioning, troubleshooting at all the OSI layers)
- Service deployment
- QoS (CAC, etc)
- Security policies
- ALGs
- Session awareness
- Authentication per MAC/user/application/IP/etc
Conclusions

- Telcos worldwide are no more only broadband providers but integrated (services + devices) providers

- The service support in the HG is rapidly increasing to give the user a better experience and usability of this heterogenous environment and to open opportunities to service providers