Experience with Residential Gateways Based on OSGi Technology in Spain
Contents

• HogarDigital's experience managing 1000 gateways based on OSGi technology running in Spanish homes.
• Developing compatible services independent from the control network (ElBus, Lonworks, X10 and other proprietary protocols)
• Entertainment services like video over demand and multicast television over DSL
• Communications services as parental control or routing
• Security surveillance services like technical alerts and intrusion motion detection
• Comfort services as illumination and HAVC control.
• Services providers issues, and the business model of a service operator
• Interfaces: Mobility of PDAs, simplicity of Web tablets, versatility of Web phones
Partners

- Framework Provider: Prosyst
- Service Operator: Opera
- OEM (e-domo version): Domosystems
- OEM (Lonworks version): Lonmark
- OEM (Konnex version): EIB
- OEM (RF version): Domodesk
- OEM (X10 version): Bovestreet
- Chipset Manufacturer: Via Technologies
• Real independence between services and devices, interfaces and service providers

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Entertainment

- TV Web Browser
- IPTV & VOD
  - Enhanced Broadcast TV
  - Electronic Program Guide
  - Quiz and vote applications
  - Video on Demand
- Digital Media Adaptor
  - Video Files
  - Audio Files
  - Photo Files
- Digital Distribution (HAVi)
• Broadband
  – DSL and Cable USB modems
  – Thought Second Ethernet
• Easy local network
  – DHCP
  – Access from TV to files
  – Remote web browser read shared files
• Local network security
  – Firewall
  – Spam/virus filter
• Unified messaging
• Neighbors applications
Security surveillance

- Video vigilance
  - MPEG4/MJPG Cameras
- Tele-assistance
- Access control
- Presence simulation
- Non-intrusive security
  - Notify the user by SMS
  - Notify to the security company
- Technical security
  - Fire and gas or water leaks
Energy Intelligence

- Conservation
  - Direct or Voluntary Load Control
  - Dynamic Grouping and capacitor Bank Control
  - Voltage Regulation and distribution Diagnostics
- Analysis
  - Load Research, Profiling, Surveying
  - Customer Usage Trends and Feeder Load Analysis
- Metering
  - Automated Meter Reading and On-Demand Reads
  - Theft and Outage Detection
- Pricing
  - Real-time or Time-of-Use Pricing,
  - Price-responsive Demand and Price Alerts
Comfort

- Lighting control
- Electrovalves
  - Gas
  - Water
- Sheds and blinds
  - Doors
  - Windows
- Acclimatization
  - Zones
  - HAVC

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Macros scenario

- We are with some friends at home
- TV is broadcasting a football match
- Goooooaaaaaaal !!
- Voice recognition system get the event
- Macro including actions about different services:
  - Send a joke SMS to friends of the rival team
  - 2 degrees down in the HAVC
  - Lights at home start blinding
  - Siren sound some seconds
  - MP3 is playing with team hymn
  - ........
Business Model

- Basic Service
- Premium service
- Partners service

- Entertainment
- Communications
- Security
- Comfort
- New services
- Universal IR blaster
- VoIP Telephony
- Energy Intelligence
- Voice recognition

HogarDigital API

Java Virtual Machine and OSGi v3 Framework

Linux Embedded, Mozilla GUI and mPlayer

Via Technogies CLE266 based mainboard

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• Any web enabled device at or out home
• Infrared remotes will control devices without IR
• Switches can control any device, not only lights
• Voice recognition through array microphones
• Clocks (IR enabled) can be used to control anything
• TVs and media devices
• Medical devices
• Kitchen devices
Thanks for coming hogardigital

muchas Gracias por su atención

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