

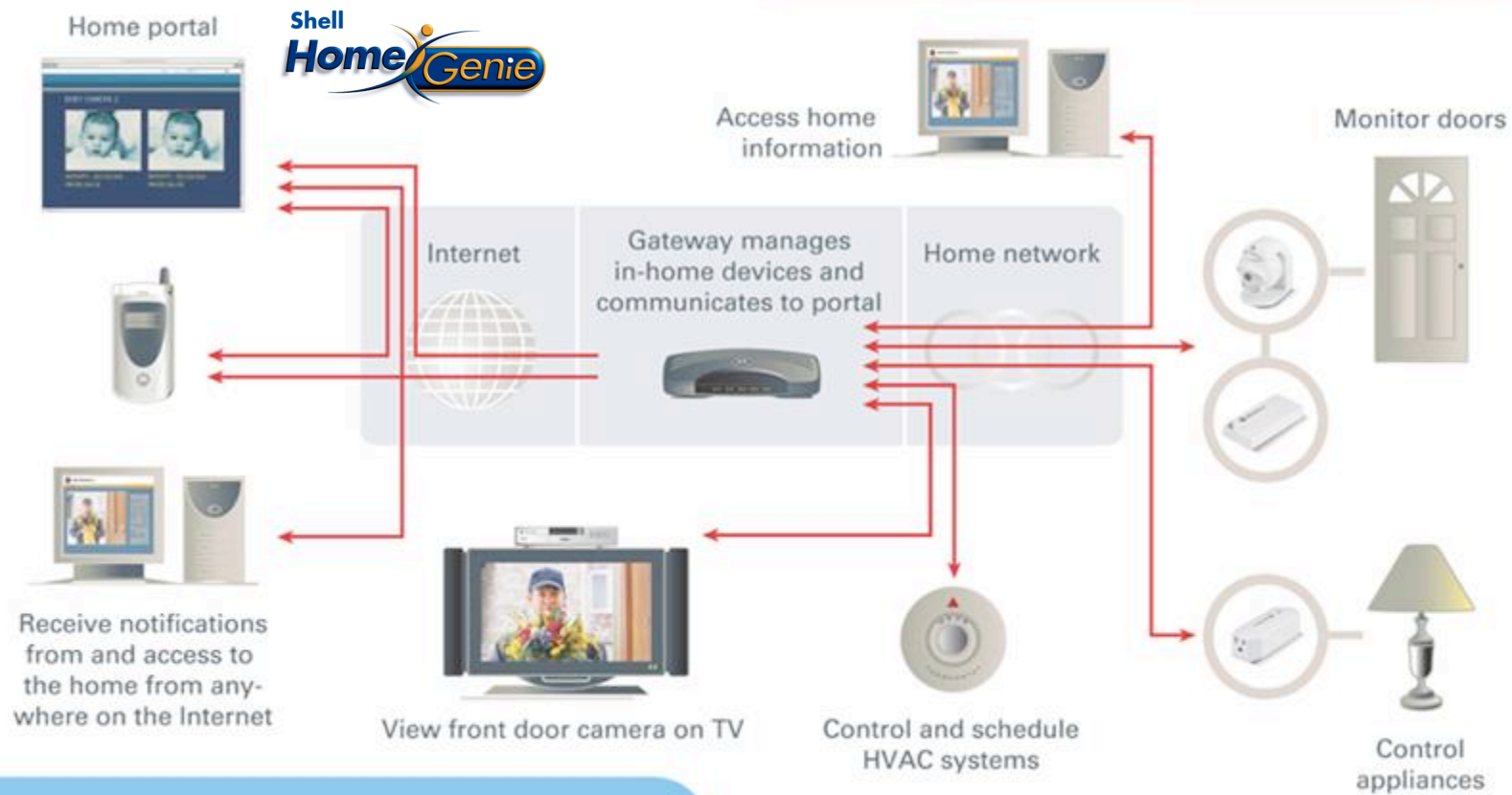
# Motorola Connected Home Experience with OSGi

Vince Izzo



# HOME MONITORING AND CONTROL

Solutions that enable access, control and monitoring of the home from anywhere



**INFORMMEMOTO**

# Motorola

## MS1000 Managed Application Gateway

- Hardware
  - 2 10/100 Ethernet ports (1 WAN, 1 LAN)
  - USB host (2)
  - Optional hard drive
  - Optional WiFi via PC Card slot
  - Internal PCI slot for application specific hardware
  - Powerful MIPS CPU
- Software
  - Motorola's middleware - OSGi, Embedded Linux & Java
  - NAT, DHCP client and server, PPPOE
  - USB Drivers for Motorola Cable Modem and DSL Modem
  - 802.11a,b,g Access Point code
- Motorola Gateway Management System (MGMS) can monitor gateway vitals, manage SW downloads, etc
- Application bundles
  - Home control
  - UPnP A/V server



# Motorola Media Station version 1

- Media Station device is first implementation of OSGi for Motorola – a platform approach
- MS1000 device was key to Shell HomeGenie
  - Over 4000 units sold, 400 deployed to homes in 2 month roll out... marketed then halted within 3 months
- MS1000 used as internal development platform
  - Six different programs, prototypes throughout Motorola
    - Industrial applications
    - In home and small office uses for storage, b-up, and retrieval
- MS1000 used for many demonstrations of deterministic, non-PC based computing needs

# Media Station Positives

- Tested out the core software and returned results that the platform is stable and robust
- Learned it was very easy to upgrade deployed units via a management system
  - Software defects were quickly addressed
  - Troubleshooting was made quicker and easier
- Some MS1000s still run the existing bundle active at the time of the HomeGenie shut down... more than 1 year later
- New applications emerging

# Media Station Business Results

- A multi service gateway is proper starting point for a broad development platform
- It is very difficult to sell a multi service gateway to operators as a market entry product
  - The promise of multi application support does not match the business needs of the first app on at least a P/L neutral basis
- Special purpose, reduced function gateway is perhaps a better approach to volume
  - A managed gateway sold in for operational cost savings
  - Special purpose device allocated directly against one service P/L