

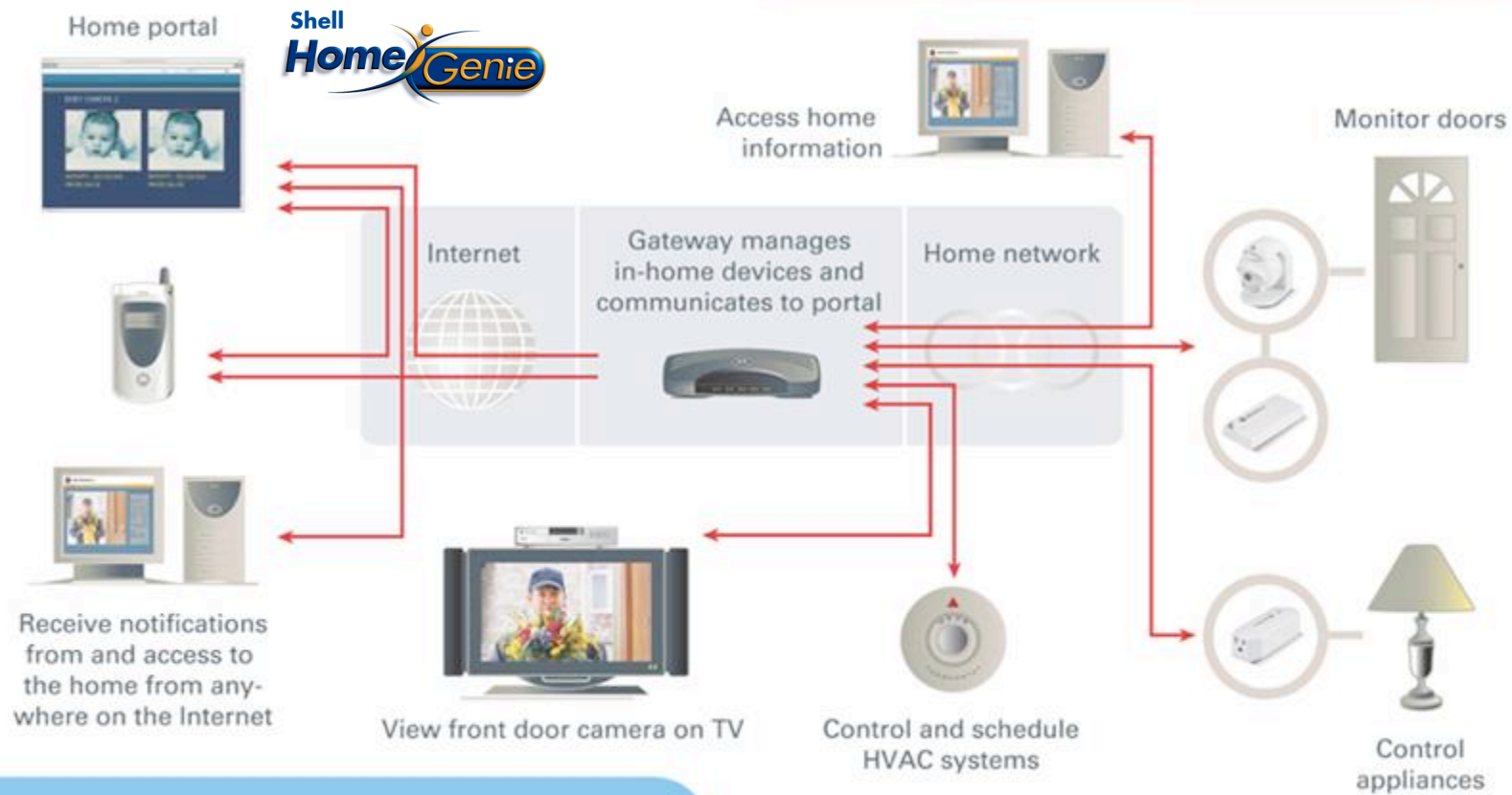
Motorola Connected Home Experience with OSGi

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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