



enabling the digital home



SoftAtHome Operating Platform

The SoftAtHome Operating Platform is an open, ubiquitous and manageable off-the-shelf software solution that enables Service Providers to increase revenues, customer reach and retention through the operation and deployment of new and innovative applications for the Digital Home.

Today, the Digital Home market is gathering pace but there are still some hurdles that limit its complete adoption by the mass market. Some of the issues include:

- > Lack of compelling applications and services, as 3rd party innovation is difficult to integrate on proprietary home devices already deployed,
- > Poor ease of use of applications and services which don't share the same behavior on devices from different vendors,
- > Unpredictable Quality of Services with lack of third party Service Level Agreement,
- > Lack of real two-way interactivity between the end user's network and the service provider's network,
- > Lack of true convergence among devices, as integration is still reliant upon the end user.

Service Providers are strategically positioned to provide solutions to those challenges and deliver services for the Digital Home. Not only do they manage access to the network and hence can offer different levels of SLA for each service, but can also provide always-on-devices with simple and reliable user experience. Moreover, they have established end user relationships through billing and sales support.

SoftAtHome Operating Platform enables Service Providers to address these opportunities by moving from a proprietary single operator solution towards an open, ubiquitous and manageable platform. Using this platform, developers can deliver applications ranging from communication, entertainment and content sharing to home automation and health management.

The Home Operating Platform runs across multiple devices including Home Gateways, Set Top Boxes and Network Attached Servers. It also enables PCs, Mobile Phones, PDAs and other devices to participate in a SoftAtHome-enabled home environment. With the SoftAtHome Operating Platform, applications can be physically distributed across different devices to optimize their use while delivering a homogeneous and richer experience to consumers.

Building blocks of the SoftAtHome Operating Platform are deployed today in more than 6 million Home Gateways and 1 million Set Top Boxes on the Orange network across Europe.

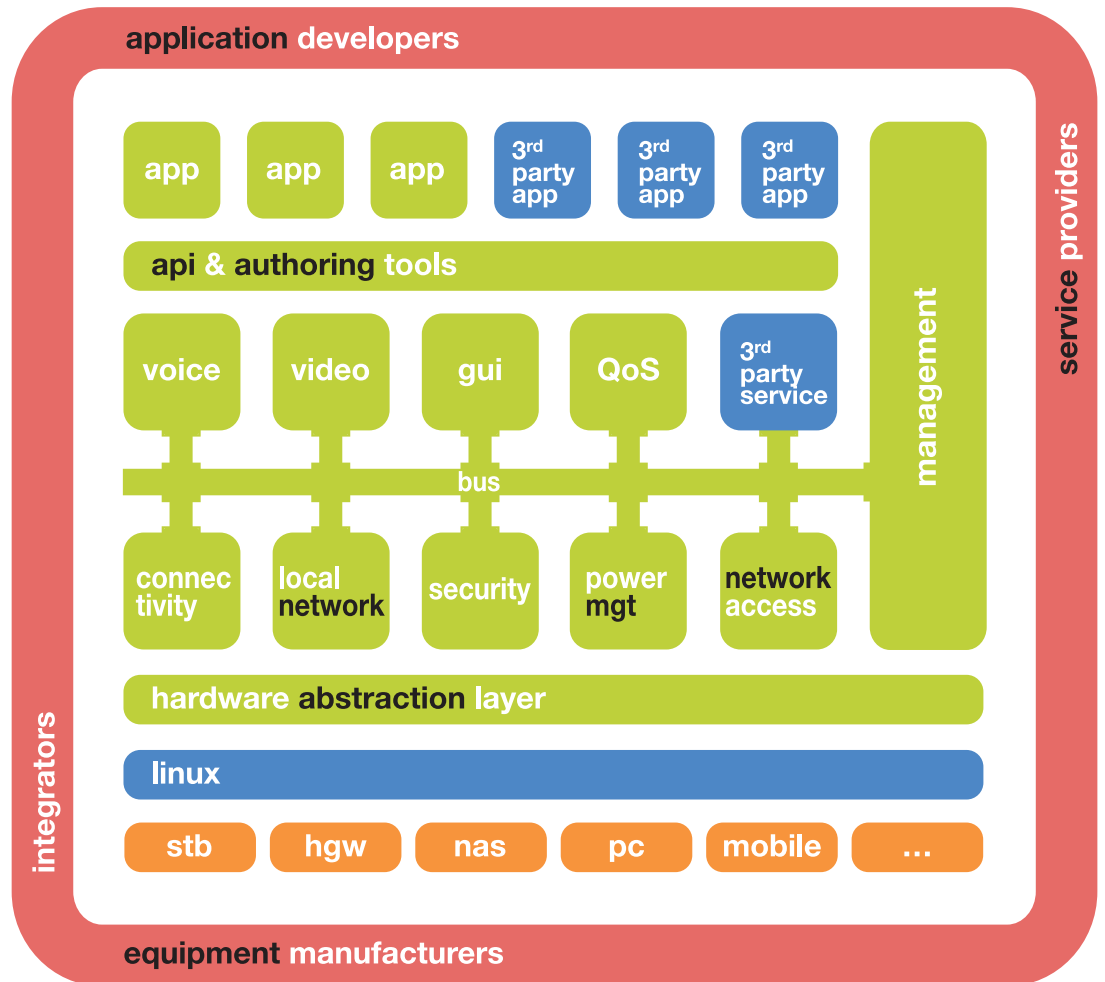
Key benefits

- > Future proof through standards and remote upgrade
- > Cost optimization of application development
- > Time to market with new services
- > Customer relationship improvement with new value added services



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The SoftAtHome Operating Platform is made of Platform Services, APIs and Applications for the creation of convergent applications.



Open

The SoftAtHome Operating Platform provides a complete set of standard APIs available in native C, JavaScript/HTML or ActionScript/Flash to enable 3rd party developers or Service Providers to create innovative applications. It comes with an SDK that integrates with industry standard development environments including Eclipse and Adobe Flash CS3. In addition to 3rd party applications, SoftAtHome delivers its own SoftAtHome-branded applications to help foster the adoption of its platform and provide out-of-the-box must-have applications to end users.

Ubiquitous

The APIs provide access to a set of Platform Services that are delivered as building blocks to create new applications. As a result the SoftAtHome Hardware Abstraction Layer, Platform Services are independent from the hardware and share a common implementation across different hardware and chipsets. Platform Services enable communication and interactivity; sharing and accessing content; optimizing and securing user experience and management. Those services are available across a large spectrum of devices, including Home Gateways and Set Top Boxes. Additional platforms and devices will be available soon.

Manageable

The SoftAtHome Operating Platform provides a consistent and standard environment for provisioning new services, upgrading applications and firmware, and monitoring services and quality. Manageability of home devices is a key opportunity for Service Providers as they can leverage their expertise and existing network infrastructure to differentiate their offering from other players in the Digital Home market.



Key Features

APIs and authoring tools

HGW Edition APIs are available in native C.

STB Edition APIs are available in JavaScript 1.6 and ActionScript 2.0. Work with any standard development environment.

Platform Services

Communicate & Interact

> Voice

- > SIP/H323 for voice signaling
- > Fixed-Mobile convergence : UMA support
- > Wideband quality: G.722 codec

> Video

- > IPTV and Terrestrial support (DVB-T)
- > H.264 and HD
- > Video On Demand (VoD)
- > Personal Video Recorder (PVR)

> User Interface

- > HTML/JavaScript
- > Dynamic Flash interfaces/ ActionScript
- > Browser support: Ant and Access

Share & Access

> Network Access

- > ADSL, ADSL2, 2+
- > FTTH GPON/Ethernet
- > Routing functions

> Local Networking

- > IP management
- > WiFi and Ethernet
- > Wi-Fi: Hotspot and community

> Connectivity

- > Media content sharing with DLNA(DMS on HGW and STB, DMC and DMR on STB)
- > Support for MP3, JPEG, MPEG-2 and H.264
- > Simplified device connection over WiFi

Optimize & Secure

> Quality of Service

- > Multi VC and VLAN management
- > Adaptative QoS VoIP and IPTV
- > Automatic codec selection for VoIP

> Security

- > Firewall and SSL/SSO
- > VPN passthrough and client
- > 3rd party CAS integration

> Power Management

- > WiFi on/off management with time scheduler
- > WiFi MultiMedia Powersave



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Management

- > TR-69 and TR111 support
- > Integration with leading ACS vendors
- > Interface with service delivery platforms (BSS/OSS) and helpdesks

Applications

SoftAtHome branded applications available out-of-the-box include:

- > Network Manager: management of Wi-Fi on/off scheduling
- > Digital Explorer : application on TV to share of digital content between TV, HGW and any DLNA device in home network
- > YouTube: HTML application on TV to play YouTube videos on TV
- > Online Publisher: application on TV to publish content from temporary USB key to local web site
- > Caller ID: application to display location-based information on incoming caller on TV
- > RSS Feeds: subscribe and display RDD feeds on TV

Packaging and supported platforms

SoftAtHome Operating Platform comes in two editions:

- > HGW Edition for Home Gateways
- > STB Edition for TV Setup Boxes

For each edition, features are available in two different packages: standard and premium. The Sstandard package is aimed at Service Providers looking for standard conventional triple-play services. The pPremium package is for customers looking for additional features including UMA, content sharing, dynamic interactive applications, wide band quality or community Wi-Fi.

SoftAtHome Operating Platform runs on Linux.

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