DEVICE PROVISIONING

FLEXIBLE AND DYNAMIC DEVICE MANAGEMENT FOR COMMUNICATION SERVICE PROVIDERS

Introducing advanced IP multimedia and new converged services has become essential to telco, mobile and cable service providers looking to evolve and experience continued business growth. But as enhanced service offerings accelerate, so does the need to successfully provision residential and business service offerings and automatically configure and activate the numerous devices and service end points associated with each. Sigma Systems’ Device Provisioning Manager makes this possible through its robust, secure, and extensible out of the box functionality that automatically and dynamically provisions end devices, performs firmware upgrades or downgrades, and supports real time monitoring and performs a variety of provisioning-related actions to optimize service availability for the end device. Whether configured as a hosted (SaaS) or on-site solution, Device Provisioning Manager helps service providers or cloud software application providers accurately, efficiently, and easily provision multi-play service bundles for all end devices by:

- Providing consolidated IPv4 and IPv6 management to effectively operate a combined network and address space
- Enabling the rapid rollout and scale of new services through automated device provisioning and complex CPE management
- Provisioning modems, multimedia terminals, analog terminal adapters, set-top boxes, residential gateways, internet access devices, FTTx ONT devices, proprietary SIP devices and many more with our standards based solution
- Managing residential and business CPE from a single integrated multi-technology provisioning management system, significantly reducing operational costs
FEATURES AND BENEFITS

INTEROPERABLE, FLEXIBLE AND EXTENSIBLE

- Distributed architecture with centralized management, operation and storage of all configuration, operational and subscriber/device information, regardless of the number of distributed provisioning servers
- Easily integrates with OSS and BSS systems, including the Service Management Platform via a single API for provisioning, monitoring and querying
- Supports DOCSIS, PacketCable, OMA-DM and other leading protocols and standards such as support for proprietary SIP devices

OPERATIONAL

- Auto-detection of device type, DOCSIS version, vendor, model, firmware, etc. with standard and customer deployment-specific business provisioning flows/actions.
- Dynamic file configuration generation, were only required combinations of templates/images are selected and the ability to override or add any parameters during subscription time is supported.
- In-depth customer troubleshooting capabilities including pinging, view real-time device status, interface status with thresholds & birth-record, rebooting device, package re-provisioning, individual firmware upgrade, device operational history and more
- Automated firmware management, including device-specific upgrade or network-wide updates grouped by type, service package, vendor, model, location, regions, etc. for bulk upgrades

FRAUD MANAGEMENT & SECURITY

- In-depth fraud & security for both system access (based SOX definitions) with administrator defined enforcement and detailed activity logging
- Provisioning with dynamic time-based encryption for anti-cloning, theft of service and
- Dynamically-bind modems, MTAs, PCs, etc., with anti-roaming support and per device, per subscriber and service package specific override.
IPV4 AND IPV6 ADDRESS MANAGEMENT

- Supports geographical/network topology requirements with carrier class DHCP IPv4 and IPv6 address management, including lease query operation.
- Supports IPv4 address conservation strategies such as Dual-stack Lite and 6RD (Rapid Deployment)
- Supports Alternate, Dual-stack (for concurrent IPv4 and IPv6) operation, and 6PD (Prefix Delegation) to assign a dynamic or static network address prefix to a subscriber’s network/site

SUPERIOR PERFORMANCE, REDUNDANCY AND SCALABILITY

- Carrier grade performance through multiple redundancy levels and fail-safes to maintain provisioning operations
- Centralized system status/health monitoring tool troubleshoots access devices and associated service topology
- Provides centralized IP management, template configuration, and service topology for devices, through integrated configuration tools
- Device provisioning security protects against theft of service, anti-roaming, denial of service, and more
- Integrated service assurance with provisioning actions ensure optimal end user quality of experience for each service managed
RAPID TIME-TO-MARKET

- Out-of-the-box support for many leading industry standards and manufacturers affords accelerated time-to-market
- Easy creation of new device configuration templates supporting quick introduction of service tiers, regional roll-outs, and short-term service trials
- Cloud-based hosting in an ASP configuration enabling operators or software hosting partners to quickly and securely offer device provisioning to constituent operators

ABOUT SIGMA SYSTEMS

Sigma Systems is a privately-held market leader in catalog-driven Idea-to-Install products for Communications Service Providers (CSPs). The company’s BSS/OSS product portfolio spans cloud brokerage, product & service catalog, configure price quote, order management, service provisioning, service inventory, device management and professional services. Sigma has fulfilled 100s of millions of residential and business RGUs including broadband, VoIP, SIP trunking, unified communication, IPTV, mobile, cloud and M2M services.

Service Providers around the globe trust Sigma Systems to help them to generate new revenues and contribute to their organizations’ profitability through the rapid and cost-effective delivery of new services.

For more information about Sigma Systems, visit http://www.sigma-systems.com and follow @SigmaSystems on Twitter.

Information provided is for guidance only and is subject to change. Sigma Systems © 2013.