Obihai
technology

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About Obihai Technology

Founded in 2010

Since 2000, the team at Obihai have delivered over 10 million VoIP endpoints to 1000's of service providers through the founding of Komodo, then Sipura and later the leadership of the SPA product range at Linksys and Cisco.
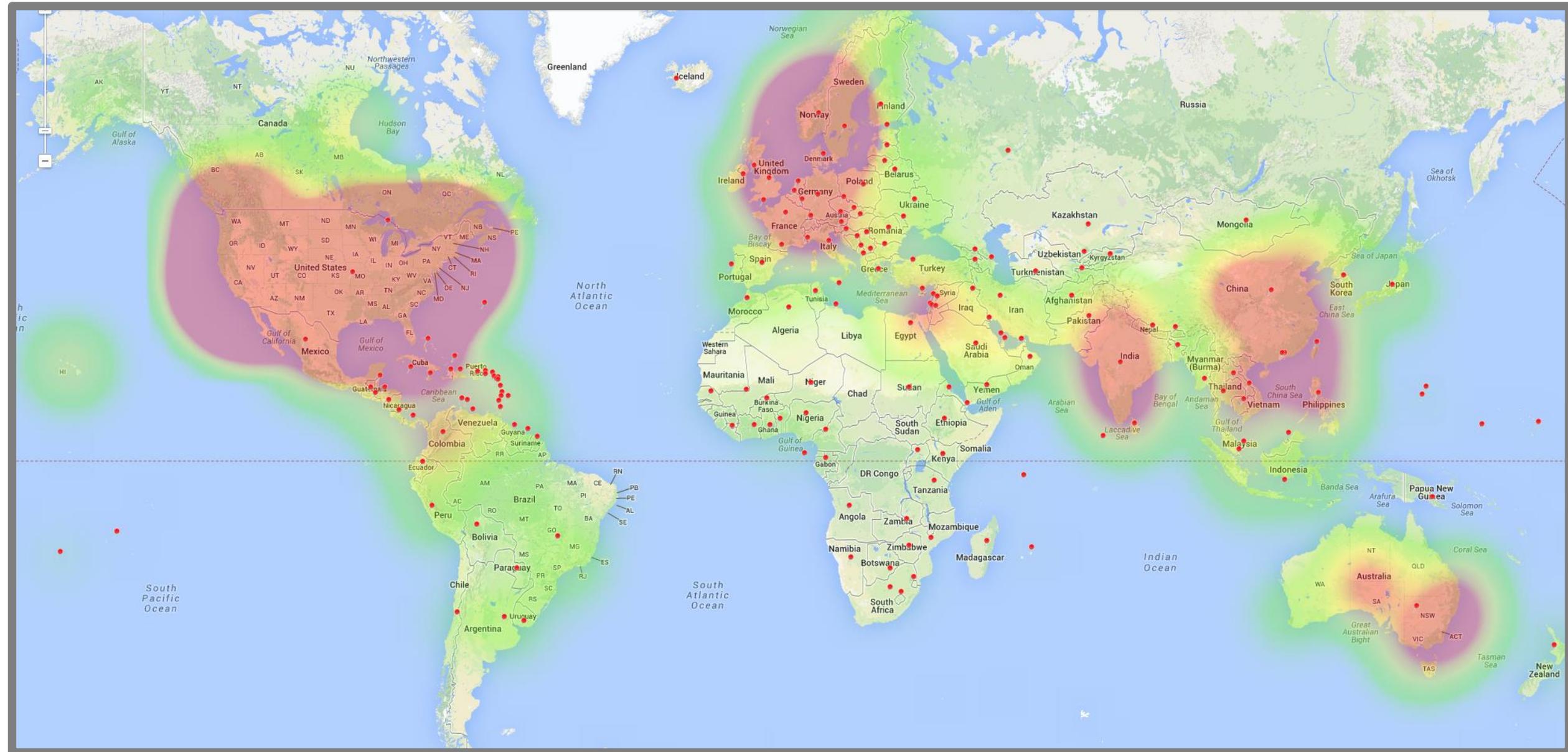
Obihai's founding leadership continue to drive innovation in the VoIP industry with the world's first and only cloud managed range of voice endpoints.

All OBi devices are wholly designed, developed and supported by Obihai in California, USA.
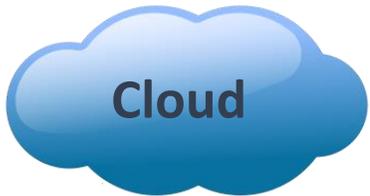
Obihai Endpoints Used in >180 Countries

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IP - Internet

Cloud

Communication

- IP Phones: Color Graphical Display, Programmable, USB
- Voice Gateways: Multiple FXS/FXO, USB
- Real Time Communications over IP
- P2P Voice communications with NAT/FW Traversal
- SIP, OBiTALK and Google Voice (XMPP) Protocols
- Voice Related Security – HTTPS/SRTP/DTLS/TLS/OAUTH2
- IP Data routing with Voice QoS, WebRTC, Bluetooth, WiFi
- Large Scale Deployment/Management/Support of Endpoints
- TR069/TR104 Device Provisioning
- Cloud Based Device Management
- Enterprise and ITSP VoIP Infrastructure Integration Expertise

Obihai Technology

OBiTALK P2P Communications Protocol

- Peer-to-Peer Communications with Desirable NAT/FW Traversal Properties

- Cloud-based Device Management

Zero-Touch Device Deployment with Plug-And-Play User Experience

- Smart manufacturing process that incorporates device customization per order

OBiTALK.COM Device Management Web Portal

- Supports end-users and ITSP admins to manage their OBi devices from the cloud

- Leverages the OBiTALK protocol built into every OBi device

- A turn key device provisioning solution for some ITSP models

A REST API for Device Management From the Cloud

- Allows ITSP partners to manage OBi devices by invoking the API

- The same API may be used by ITSP to manage devices they own or BYOD devices

Interoperable with Popular 3rd Party Call Control Platforms

- Kamailio, BroadSoft, FreePBX/Asterisk, FreeSwitch, MetaSwitch, 3CX

Obihai Technology (Cont'd)

Multi-Service Voice Bridge

Multiple voice services (SIP/GV/OBiTALK/BT/FXO) are supported per device.

All products support powerful call routing rules configuration to provide service/service voice bridging based on caller or called number.

Embedded WebRTC Endpoint/Gateway

Interoperability with WebRTC on Chrome, Firefox and Opera.

**LTE Gateway – Models Built-in Router**

The OBi works with LTE USB Dongles to provide instant Internet to voice services.

OBiPhone GUI XML Scripting Language

A framework to support rapid IP Phone GUI customization by IT professionals and service providers.

Cloud-Managed VoIP *for BYO and SP Device Deployments*

Turn-Key, High-Scaling, Robust Platform for Delivering VoIP Service Management and Other PaaS Applications

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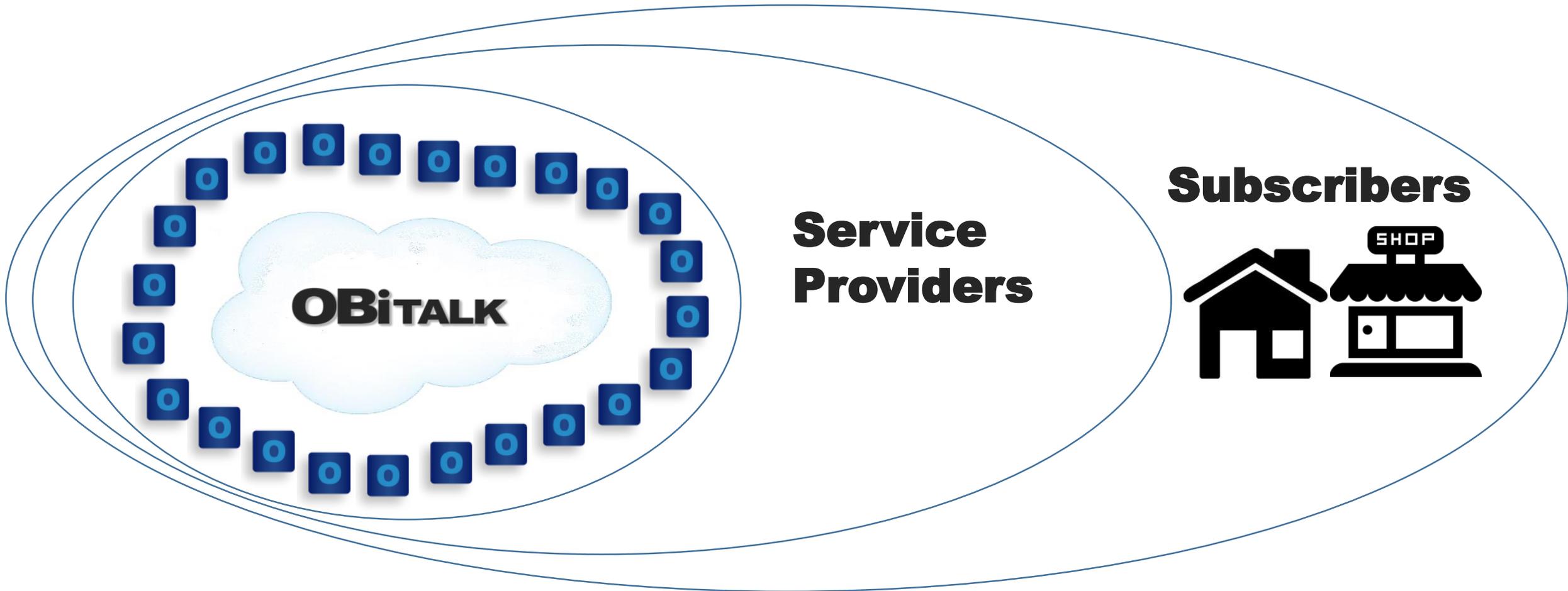
Endpoint Management

Basic Telephone Basic UI - Beeps and Codes - No Read-Back

IVR, local web UI, TFTP, beginnings of HTTP and XML

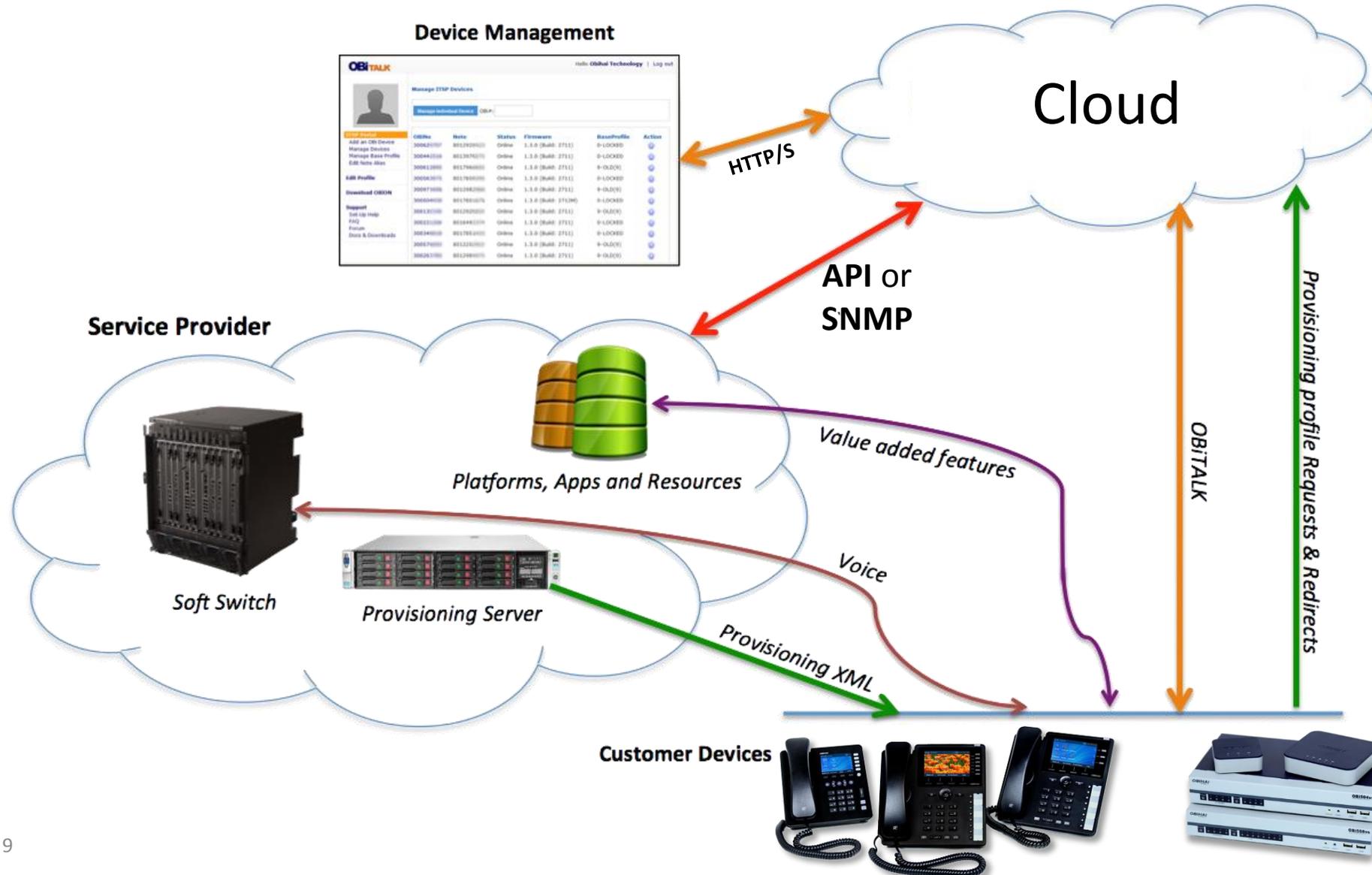HTTPS via XML - TR069/104 - Zero-Touch Customization

Cloud Management Era

- For BYOD end user web managed
- For SP API Based Service Activation
- For SP, Reseller, Enterprise/Agent w/ Full API + Hierarchical Scheme
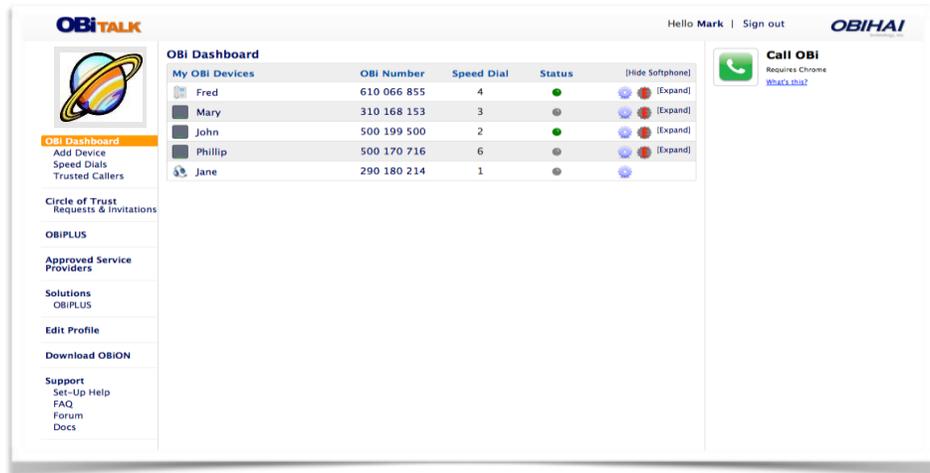- Cloud Services Layer API Integration

Cloud Management
Complimentary to Existing Mgmt System

Device Management

Cloud

HTTP/S

API or SNMP

Service Provider

Platforms, Apps and Resources

Value added features

Soft Switch

Provisioning Server

Voice

Provisioning XML

OBiTALK

Provisioning profile Requests & Redirects

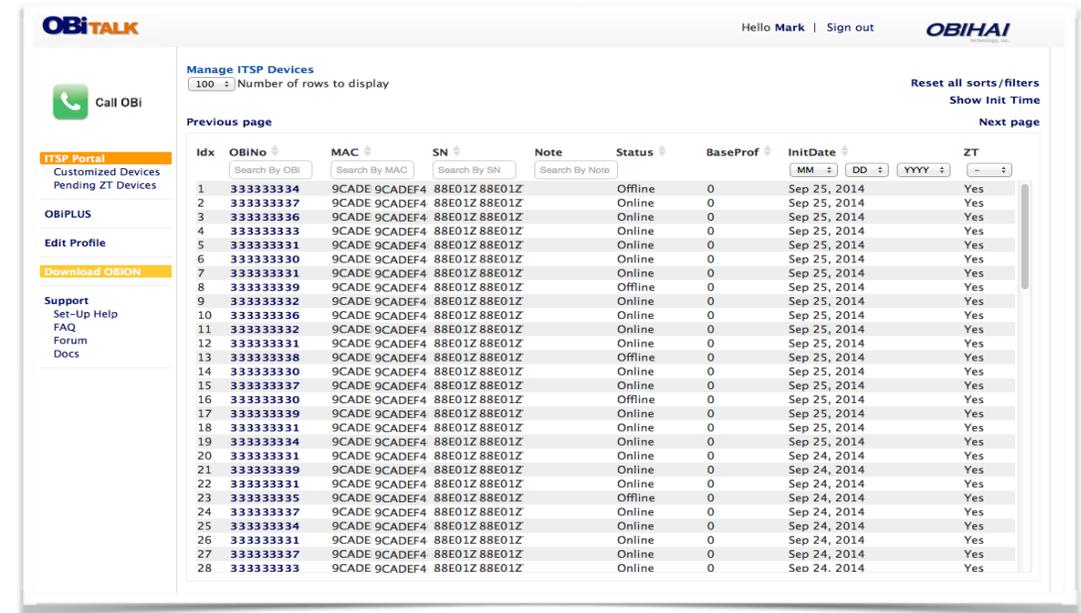Customer Devices

Web Portal Management

Consumer Portal:
Portal for end users allows easy device setup and configuration

Service Provider Portal:
Portal for service providers allows for advanced configuration and device management

Cloud Management Functionality

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Service Activation AIP / Generic Device Configuration Manipulation
* ASP – Approved Service Provider
* SAC – Service Activation Code

Reporting Stats:
* RTCP-XR via API or SNMP
* Alternative to SIP PUBLISH
* Call Quality, Uptime, Registration Anomalies (Trying/Failing/Retrying)
* Grouping / Trend Analysis

Device Troubleshooting
* Additional 'View' to Coincide with Call Quality and Uptime Stats Reporting

P2P and Other "Connecting" Services - Twilio Example
* SIP to Cloud to Device
* Very Extensible – Low Cost, E.g. Sensors, Alarms, Bluetooth etc.

Protocols, Codecs & Services

WebRTC or SIP or XMPP or …
- Brings the web and traditional VoIP endpoints together
- Your cloud, our cloud … It doesn't really matter…

OPUS (and AMR-WB)
- Makes the Jump to HD Efficient and Affordable
- Compliments any WebRTC Implementation

Service Bridging
- Via API

Using the Cloud to Bind/Share/Bridge Services
- SIP, XMPP, PSTN/GW, WebRTC, P2P

Evolutions of VoIP

1: Calling Cards – IXC Traffic – Enterprise Trunking

2: Residential – Very Small (Basic Business) – SIP Trunking*

3: More Sophisticated Enterprise with Mobile and a Hint of Web*

4: Social Networks + Web + Apps + Traditional Endpoints *

5: Future Generation Communications *

* Cloud Management of Traditional VoIP Endpoints Can Increase the Value of Any Service - Past or Future

Thank You

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