

Fixed Mobile Convergence – uMobility

Integrating enterprise communications with your smartphone



At a Glance

- Single number reach and voicemail
- Seamless roaming on and off campus
- Enterprise dialing and features via smartphones
- Independence from specific mobile network technology
- Improved efficiency and productivity
- Increased customer satisfaction

uMobility solution for fixed mobile conversion provides users with a powerful application, making the smartphone a true extension of the enterprise telephony system. It is available for a range of mobile devices and combines both mobile and Wi-Fi networks to stay connected. The uMobility application is available for all communication systems.

uMobility offers the following powerful features:

- Single-number reachability and single-number identity via the enterprise number
- Guaranteed call delivery of the enterprise call to/from the smartphone without a permanent data connection
- A single mobile handset that works as effectively in the office as well as when traveling or working from home
- Various cost saving call scenarios including calling via the Wi-Fi network and using least cost routing through the PBX system
- The comfort of the intuitive way of using the handset platform such as on Android, BlackBerry and iPhone.

- Ability to use PBX functionality such as hold, transfer and specific routing to other devices
- Integrates the contacts of the smartphone and can be combined with browser access to the company Unified Communications platform to combine with corporate directory, presence, click to dial and more.

uMobility features an uMobility Controller (uMC) that securely extends the enterprise SIP extension to the smartphone through the mobile or wifi network.

A variety of deployment scenario's are available:

- Single-mode :Only using the mobile network
- Dual mode: Using both mobile and Wi-Fi-networks
- Seamless handover: To automatically switch between mobile and Wi-Fi when the signal strength and quality of the network in use becomes insufficient. The transfer is seamless, so the user can continue conversation
- Hotspot mode: The enterprise-grade secure Wi-Fi network can be complemented with access via hotspots or the home Wi-Fi system, provided that

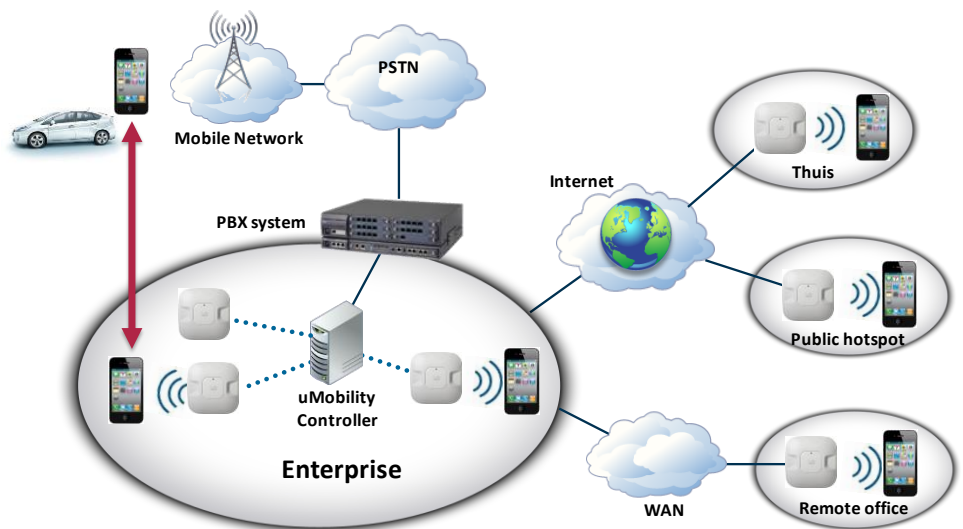
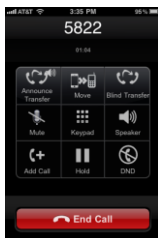
the appropriate security means are taken such as by implementing an SBC solution.

- Various 3G -4G mobile network options: Depending on the mobile provider contract the network can be used without any data, with data signaling over 3G-4G or even with voice over 3G-4G. Without 3G-4G, the uMobility client will use DTMF for signaling, with 3G-4G signaling the client will also offer mid-call features like hold and transfer.
- On premises or in the cloud: uMobility can be installed on-premises but also in a (private) cloud

supporting a number of PBX systems with one uMC.

- Multi-user: One uMC can support a number of tenants and PBX systems simultaneously in a multi-user configuration.
- Rich provisioning: uMobility will send users email or SMS to easily install the application and all settings required, allowing for deployment to a large group of users.

Client examples (Android and iOS) and Solution Diagram



Features

Call features	<ul style="list-style-type: none"> • Single number reach (SNR) • Enterprise dialing • Calling Line Identity (on Wi-Fi, and on GSM when SIP trunk) • Do Not Disturb • Outgoing Private Call (not through uMC) • Call Logging • Dial/redial number
Mid call features	<ul style="list-style-type: none"> • Hold / Unhold • Mute and speaker call • Attended Transfer • Blind transfer
Unified Communications	<ul style="list-style-type: none"> • Integration of Smartphone Contacts • Central voicemail Indication • Access to Voicemail • Interoperability with Business Connect mobile client for corporate Directory, rich presence and more
Mobility and device handoff	<ul style="list-style-type: none"> • Single mode (GSM) and Dual mode (GSM/Wi-Fi) • Seamless handover and automatic roaming (GSM/Wi-Fi) • Move call to any other extension or public telephone, with retrieve back to smartphone (device mobility)
User Interface	Native call handling screen on Android, BB and Nokia with background uMobility Client. Foreground client on iPhone and WM.
Device compatibility (Compatibility at least for specified levels. Updates at regular intervals for relevant device and OS combinations)	<ul style="list-style-type: none"> • iPhone 3/4/5 with iOS versions 4/5/6 and above • Android 2.1 up to 4.0.x • Windows Mobile version 6.x (Not recommended). Windows Mobile 8.x will be supported when stable background processing is available • Nokia Symbian OS V9.3 S60 3rd Edition – FP1 and FP2 • Blackberry OS recommended BBOS 5.x and 7.x. BBOS 6.x has some inherent limitations
Data options	<ul style="list-style-type: none"> • DTMF-mode: no data (2.5G, 3G-4G, Wi-Fi) connection available. Client is reachable and makes calls with DTMF support • Mobile-data-mode: data connection through 2.5 or 3G or 4G, signaling via data channel, voice through GSM • Wi-Fi-mode: Voice and data supported by Wi-Fi • Voice options: GSM-voice, Voice-over-3G-4G, Voice-over-Wi-Fi
Provisioning	OTA (Over The Air) client SW delivery and provisioning of client data
uMobility Controller (uMC)	<ul style="list-style-type: none"> • Number of clients on a quad-core, 2.6GHz system with 30% CPU utilization: 1780. Max number is 6500 users. • Processor: Xeon Class @ 2.6GHz, Memory: 4GB RAM, Disk space: 80GB, NIC: One GigE. For larger configurations blade server Cluster, memory: 4GB RAM, disk space: 100GB • Linux OS (Cent OS/Red Hat Enterprise)
High availability	Native redundancy support including a primary active uMC and a standby uMC
Multi-user/PBX	One uMC can support a number of tenants and PBX systems simultaneously in a multi-user configuration. The uMC can be located on premises or in a (private) cloud
Virtualization	uMC can run on a virtual environment such as VMware provided that sufficient resources are allocated with respect to Memory (RAM), LAN CARD (NIC) Network Interface, processing power, disk space(Storage) and high priority for the uMC operating system
IP PBX Compatibility	Compatible with IP PBX Telephony Systems and Soft Switches

Confidential

© 2015 BIZRTC, LLC.