

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



NEC's uMobility solution for Fixed Mobile Convergence 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 Wifi networks ensuring to stay connected at all times. The uMobility application is available across all NEC communication servers.

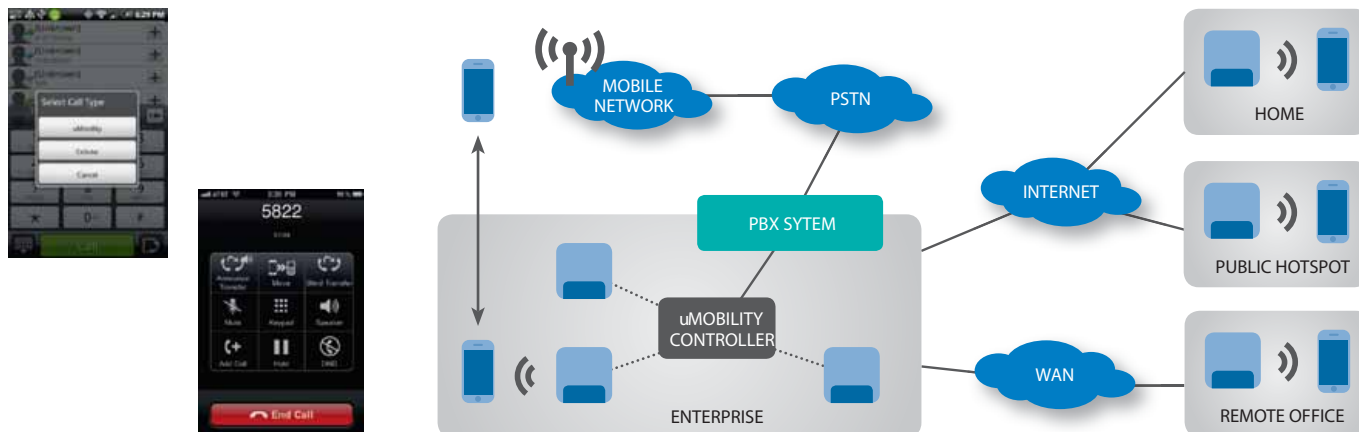
uMobility offers the following powerful features:

- Single-number reachability and single-number identity via the enterprise number
- Guaranteed call delivery of enterprise calls to/from the smartphone without a permanent data connection
- A single mobile handset that works as effectively in the office as when traveling or working from home
- Various cost saving call scenarios including calling via the Wifi 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 smartphone contacts and can be combined with browser access to the company's Unified Communications platform to include corporate directory, presence, click to dial and more.
- Dual mode; using both mobile- and Wifi-networks
- Seamless handover; to automatically switch between mobile and Wifi 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 Wifi network can be complemented with access via hotspots or the home Wifi system, provided that the appropriate security means are taken such as by implementing an SBC solution.
- Various 3G mobile network options; depending on the mobile provider contract, the network can be used without any data, with data signaling over 3G or even with voice over 3G. Without 3G, the uMobility client will use DTMF for signaling, with 3G 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.

NEC uMobility features a uMobility Controller (uMC) that securely extends enterprise SIP extensions to smartphones through the mobile or Wifi network. A variety of deployment scenarios are available:

- Single-mode; only using the mobile network.

Client examples (Android and iOS) and solution diagram:



Features

| | | |
|--|---|--|
| Call features | <ul style="list-style-type: none"> • Single number reach (SNR) • Calling Line Identity (on WiFi, and on GSM when SIP trunk) • Outgoing Private Call (not through uMC) | <ul style="list-style-type: none"> • Enterprise dialing • Do Not Disturb • Call Logging • Dial/redial number |
| Midcall features | <ul style="list-style-type: none"> • Hold / Unhold • Attended Transfer | <ul style="list-style-type: none"> • Mute and speaker call • Blind transfer |
| Unified Communications | <ul style="list-style-type: none"> • Integration of Smartphone Contacts • Interoperability with Business Connect mobile client for corporate Directory, rich presence and more | <ul style="list-style-type: none"> • Access to Voicemail • Central voicemail Indication |
| Mobility and device handoff | <ul style="list-style-type: none"> • Single mode (GSM) and Dual mode (GSM/WiFi) • Seamless handover and automatic roaming (GSM/WiFi) • 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 • Android 2.1 up to 4.0.x • Windows Mobile version 6.x (Not recommended). Windows Phone 8.x will be supported assuming 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, Wifi) connection available. Client is reachable and makes calls with DTMF support • Mobile-data-mode: data connection through 2.5 or 3G, signaling via data channel, voice through GSM • WiFi-mode: voice and data supported by Wifi • Voice options: GSM-voice, Voice-over-3G, Voice-over-Wifi | |
| 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 bladeserver Cluster, memory: 4GB RAM, disk space: 100GB | |
| 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 | |
| Virtualisation | 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 | iS3000 and SIP@Net, SV8100, SV8300, SV8500, 3C | |

About NEC Corporation: NEC Corporation (NASDAQ: NIPNY) is one of the world's leading providers of Internet, broadband network and enterprise business solutions dedicated to meeting the specialized needs of its diverse and global base of customers. NEC delivers tailored solutions in the key fields of computer, networking and electron devices, by integrating its technical strengths in IT and Networks, and by providing advanced semiconductor solutions through NEC Electronics Corporation. The NEC Group employs more than 150,000 people worldwide. For additional information, please visit the NEC home page at: <http://www.nec.com>

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