

All-in-one Fix/Mobile Convergence

The Comdasys Mobile Convergence (MC) Solution combines telephony and messaging and bridges the gap between Fixed-Line and Mobile Telephony business communications to bring all those features to your Smartphone.

Designed for Business

Together with the MC Client software installed on your Smartphone, the MC Enterprise truly mobilizes your business communication. Among other things, it integrates your mobile phone with your PBX, allows the use of PBX services (such as Conferencing), Voice Mail notification and provides new Unified Communication with access to the Corporate Phonebook, Instant messaging and Presence. As such, the MC Enterprise integrates with:

- PBX for In-Call Services and Call Management
- Mail and Directory Servers (e.g. Exchange)
- Presence and Instant Messaging Servers (IM)...

Fusion of Desk and Mobile Phone Features

The MC Enterprise routes all your calls you make from your cell phone through your PBX and thus provides the following advantages:

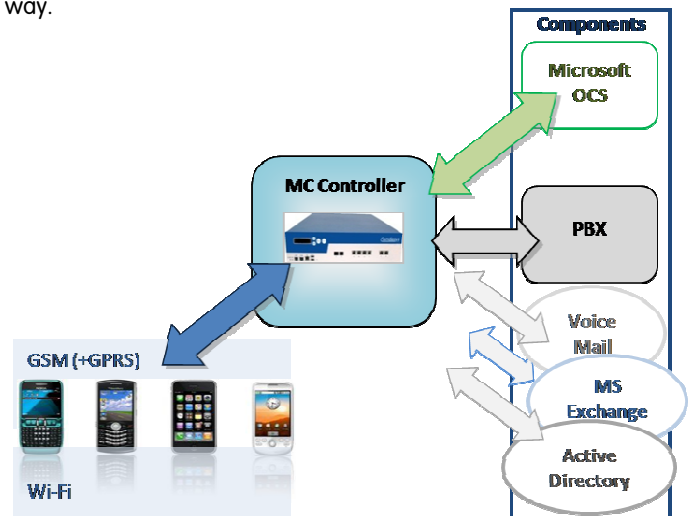
- Single-Number Service: users are available via their office number or extension, even if they are on the road. They can also dial e.g. internal numbers with short number dialing
- Voice over WIFI and Voice over 3G. Where applicable and available you can place Voice-over-IP calls through the appropriate network to leverage WIFI infrastructure, improve indoor coverage, replace cordless phones or simply save cost
- Use your PBX services hold call, conferencing, transfer, consultation and more from anywhere.

Network-Agnostic

The MC Enterprise and the MC Client enable the effective usage of not only Wi-Fi, but also GSM, UMTS and CDMA. Via seamless handovers, calls can be switched from Wi-Fi to Cellular networks if voice quality is fading.

Least-Cost Routing (LCR)

Additionally to the integration of Wi-Fi infrastructure, further features for cost reduction are available. The MC Enterprise lets you configure your own rules for routing calls the most cost effective way.



High Performance, Great Flexibility

The Comdasys MC Enterprise is suitable as universal network building block for small businesses wishing to deploy fix / mobile convergence services. It enables leveraging the advantages of VoIP technologies and extending those out to the mobile device.

Key Differentiators

- Single Number Reach¹
- SIP Trunking and SIP Subscriber Integration with the PBX provides leading-edge feature integration
- NAT Handling / SBC: use dual-mode devices from public HotSpots

¹ WLAN and cellular networks



- Call Hunting¹ (based on availability of handset)
- Enterprise PBX Feature interworking^{2,3}
- Mid-Call Handovers depending on Wi-Fi availability and quality¹
- Transcoding for enabling use of WLAN optimized codecs on the Handset leg, with standard codecs towards the IP PBX.
- LCR Functions: Callthrough, Call Reverse, Call Back for maximizing cellular savings
- Integrates with Presence and IM Server
- Support IMS / VCC capable handsets without client

Interoperability with PBX

Aastra, Avaya, Asterisk, Broadsoft, Cisco Call Manager, Siemens, Nortel, Shoretel, SipX, Sylantra, TELES, NEC Unified Solutions.

Unified Communications

- Presence Subscription and Publishing via XMPP (unencrypted and TLS supported). Supports also registration of Users via Public XMPP Servers such as GoogleTalk
- Instant Messaging integration with XMPP servers
- Presence and Instant Messaging integration with SIMPLE based servers
- Instant Message to SMS Gateway functions
- Full UC both via WLAN as well as over GPRS / UMTS
- MS Exchange Web Synchronization for Contacts, Email, Calendar
- Corporate Directory Access via Active Directory and / or LDAP

Deployment

- Simple Server based Client Deployment
- Deployment with preset configuration
- Client Deployment via Email or Download
- Client Deployment via SMS

Firewall and SBC Functionality

- Stateful inspection Firewall
- Layer 7 Filtering with Syntax Checking for e.g. SIP for maximum security
- NAT for Dual Mode Handsets with full SBC capabilities
- Automatic NAT Detection

Security

- TLS Support for secure signaling towards handset
- TLS Supported in conjunction with SBC functionality
- SRTP support for secure voice transmission, also via SBC component for Secure Internet / Hotspot Use With appropriate Client only.

Management

WebUI (secure access through HTTPS), SSH, Local Console, (through special adapter cables for service technicians only), Local Serial Console

QoS / Traffic Control

Diffserv for prioritizing Voice and shaping with various queuing disciplines.

Performance

- Recommended for up to 2000 typical Dual Mode Users (depending on several factors especially security and transcoding) per Blade (with IBM LS21 Blade)
- Up to 500 simultaneous Voice Sessions with Transcoding and DTMF detection. In conjunction with Direct Media Connect, more simultaneous Sessions can be accommodated (based on IBM LS21 Blade)

Special Features

- Scripting Support
- Scheduled Scripting Support (e.g. backing up logs, ...)
- NTP Client for accurate time (e.g. logging)
- Failsafe Update (Dual Firmware Flash)

Redundancy

- n+1 Redundancy with virtual machines, or physical ones
- 1+1 Redundancy also with other Systems in the FMC product line

Hardware

- Standard x86 based Servers (exact requirements to be defined in projects).
- IBM Blade Center E Chassis supporting up to 14 blades
- Recommended IBM LS21 Blades



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² GSM / CDMA, GPRS/UMTS and WLAN

³ Supported via DTMF for GSM / CDMA. MC Client offers comfortable selection menus.