



MobileConneX PBXgateway®

Distributed Telephony Solution For The Extended Enterprise

Extends the rich feature set of the corporate PBX and KTS over any network enabling cellular telephones to behave like digital desksets.

Increases the effectiveness of telework initiative

Extends corporate PBX functionality and applications over IP networks

Reduces communication costs

Extends the life of the corporate PBX/KTS

Ensures superior voice quality

Reduces IT staff time

Leverages your legacy PBX/KTS investments towards convergence

Distributed Telephony Solutions For The Extended Enterprise

MCK's MobileConneX PBXgateway is a mobile application-specific gateway capable of extending dialtone and features of the enterprise PBX/KTS to users of cellular telephones.

This gateway resides on the enterprise's voice network. Users of mobile telephones can now transparently connect to the enterprise PBX/KTS from anywhere via the MobileConneX PBXgateway.

Bringing portability to business telephony, MCK's distributed telephony solutions affordably and seamlessly extend the features and functionality of existing corporate voice systems to branch offices, home-based call center agents, teleworkers and mobile workers across traditional and next-generation networks. Our solutions provide businesses with a managed migration path to the telephony applications of the future, enabling them to leverage their investments in existing voice systems, access new applications being offered by next generation service providers, and maintain a single, unified voice system for their increasingly distributed workforces.

Product Overview

The MobileConneX PBXgateway is an application-specific gateway offered by MCK, the leader in distributed telephony solutions. This gateway supports multiple PBX/KTS types and can be configured to interoperate with an Avaya™ DEFINITY®, a Nortel Meridian® or a Nortel Norstar®.

With the MobileConneX PBXgateway, mobile users can access PBX dialtone and features. Any cellular telephone connected to the MobileConneX PBXgateway is able to leverage corporate PBX/KTS features like internal dialing, hold, conference and transfer, from anywhere.

MCK's MobileConneX PBXgateway is capable of translating dial pad key presses generated by cellular phones into PBX/KTS specific digital signaling.

The converted signals sent from the MobileConneX PBXgateway to a compatible PBX/KTS look like signals produced by pressing certain keys on a feature-rich digital handset.

Operation Modes

The System Administrator has the ability to program each port on the MobileConneX PBXgateway with a different operation mode depending on the user's needs. In large-scale deployments, the System Administrator may opt to establish a default setting that applies for all users in a group resulting in faster service initialization.

There are four different operation modes to choose from and the level of security varies from one to another as defined below.



Roaming Mode

Allows the user to program and modify the Dialback Number via the Interactive Voice Response (IVR) system. The Dialback Number is the phone number to which the gateway routes incoming calls.

Fixed Mode

Requires the System Administrator to program a permanent Dialback Number in the gateway. In Fixed mode, the user cannot program or modify the Dialback Number via the IVR system.

Fixed/Forced Mode

Similar to Fixed, this mode requires the System Administrator to program a permanent Dialback Number in the gateway and the user cannot modify the Dialback Number via the IVR system. However, Fixed/Force mode requires the gateway to call the pre-assigned Dialback Number before allowing access to PBX dialtone and features. As a result, this mode is the most secure of all four modes.

Disabled Mode

Allows the user to access the corporate voice system and place outgoing calls. In this mode, the MobileConneX PBXgateway does not route incoming calls to the user's cell phone. MCK's distributed telephony solutions have been designed for operational simplicity. All of the MobileConneX PBXgateway's configuration, management, administrative and diagnostic functions may be accessed using a dial up modem, local terminal, HTML or Telnet connection. This flexibility allows companies to maximize their system administration resources and lower operating costs.

Front view of 24-port

Two DB-9 console ports permit easy system management. The 24-port MobileConneX PBXgateway is equipped with dual DB-9 console ports. A System Administrator is able to attach a modem to one of these ports and use the other port for a local terminal connection.

The 8- and 12-port MobileConneX PBXgateways are each equipped with one DB-9 console port. This port can be used for a modem or a local terminal connection for simplified system management.

Key Benefits

Flexibility

The MobileConneX PBXgateway can be configured to connect mobile users into an Avaya DEFINITY ECS, a Nortel Meridian or a Nortel Norstar system. Users can easily access the Interactive Voice Response system to program where and when to have calls routed to them (Roaming Mode Only).

Increased Productivity

Mobile employees are able to access PBX/KTS dialtone, receive office-bound calls and invoke business calling features like internal dialing,



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transfer, hold and conference using any cellular phone; enabling a mobile employee to provide callers a single reach number and the convenience of one voice mailbox for all messages.

Cost Savings

MobileConneX PBXgateway users may access corporate PBX/KTS dialtone to place long-distance and international calls resulting in the consolidation of calling plans and billing. No need to supply and maintain expensive digital sets for workers who spend little time in the office.

Technical Specifications - MobileConneX PBXgateway®

System Overview

24-port

- Motorola MPC860T processor
- 16 MB Flash Memory, 16 MB SDRAM
- DSP Analog Devices 2185 (52 MIPS)

8/12-port

- Motorola 68MH360, 33 Mhz CPU
- 4 MB Flash Memory, 512 Kb ROM, 4 MB DRAM
- DSP Analog Devices 2185 (52 MIPS)

POWER SUPPLY

- Internal
- Universal auto ranging
- Line voltage: 100 - 240 V
- Frequency: 47 - 63 Hz
- Maximum power consumption: 75 Watts

Dimensions

24-port

- Size: 17" x 11" x 1+1/2" (432mm x 280mm x 44mm)
- Weight: 8.3 lbs (3.8 kg)

8/12-port

- Size: 17" x 8" x 1+1/2" (432mm x 203mm x 44mm)
- Weight: 6.5 lbs (3 kg)

Key Security Features

- Each user or System Administrator has the option of setting a password for each port. When in Roaming mode, the user is able to change the password via the Interactive Voice Response system.
- In Fixed and Fixed/Forced operation modes, the MobileConneX PBXgateway only routes calls to pre-programmed numbers.

Service Differentiation

Wireless providers can differentiate their services and increase minutes of usage on their networks by offering applications to businesses with decentralized operations and an increasingly mobile workforce.

Investment Protection

MCK is committed to providing organizations and wireless providers with flexible telephony solutions to meet their requirements and to preserve the investment in their current network infrastructures.

General Set-Up Guidelines

- The MobileConneX application was designed to work over digitaltrunks.
- The MobileConneX PBXgateway is deployed within 500 feet of the PBX/KTS at the corporate office.
- The MobileConneX PBXgateway sends and receives the phone signaling to/from the PBX/KTS. The audio portion of the call is transmitted over the PSTN or wireless network.
- The MobileConneX PBXgateway supports any cellular telephone.
- The MobileConneX PBXgateway utilizes existing PBX/KTS trunk lines to place outbound calls to cellular phones.
- Two digital PBX/KTS ports are required when using a cellular phone in conjunction with an office extension. In this case, the office and cellular phone extensions are mapped to give the appearance of one.

Software Support

- Management and Utilities - Telnet, RS-232 console interface, SNMP and HTML
- Wind River's VxWorks® operating system
- Software upgradeable via HTML interface, LAN FTP and RS-232 serial port to PC

Connectors included on unit

24-port

- Internal power supply
- One PCM port for network expansion cards (future)
- Two RJ-45 10/100Base-T Ethernet for Telnet and HTML system management
- Two DB-25 WAN ports. These ports are disabled
- One amphenol connector for 50-pin RJ-21 cable for PBX extensions

8/12-port

- Internal power supply

- One amphenol connector for 50-pin RJ-21 cable for PBX extensions
- Two DB-25 WAN ports. These ports are disabled
- One RJ-45 10Base-T Ethernet for Telnet and HTML system management

Hardware

- Form Factor: Low profile, 1U rack-mountable unit

Power Supply

- Internal
- Universal auto ranging
- Line voltage: 100 - 240 V
- Frequency: 47 - 63 Hz
- Maximum power consumption: 75 Watts

PBX/KTS Compatibility

- Avaya™: DEFINITY® ECS (G3V4 Iss3 or later)
- Nortel: Meridian® (release 22 or later)
- Norstar® (release 4.1 or later)

Operating Environment

- Temperature: 32° - 130° F (0° - 55° C)
- Relative humidity: 5 to 95% (non-condensing)

Regulatory Approvals

- FCC Part 15 Class A, NRTL/CSA, CE Mark, VCCI Class 1 and CISPR 22 Class A

Warranty

- One-year limited warranty for parts and labor including advance replacement when a unit is shipped back for repair. Effective January 1, 2004, advance replacement will be included on all products and will be retroactive to products purchased between 01/01/2003 and 12/31/2003.

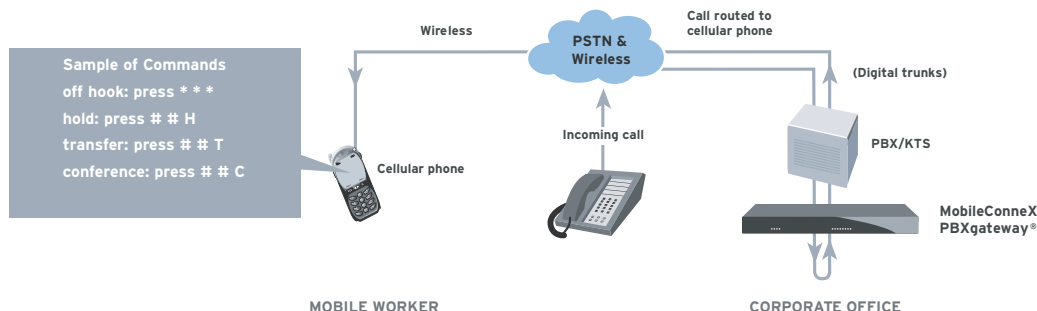
24-port



8/12-port



BACK VIEW



Product specifications subject to change without notice.

*MCK's IP-based products utilize Voice over IP (VoIP) technology to deliver remote voice solutions. The voice quality of these solutions is dependent on variables such as available bandwidth, network latency and quality of service (QoS) initiatives, all of which are controlled by the network and Internet service providers. Because these variables are not in MCK's control, it cannot guarantee the performance of the user's IP-based remote voice solution.

Software release 3.1 is required for direct termination of frame relay. MCK, the MCK logo, MCK EXTender, PBXgateway, RVP and RVPoIP are trademarks of Citel Technologies Ltd. Other brand and product names referenced herein are trademarks of their respective holders.