



# IBM eNetwork Mobile Equalizer Levels the Playing Field for 60 Million Mobile Workers

## Overview

More than ever, today's workforce is mobile. Yet, mobile workers often find themselves at a disadvantage to their office counterparts when it comes to data access. While out of the office, they are either disconnected or must rely on low-bandwidth connectivity for relatively short periods of time.

eNetwork™ Mobile Equalizer is a client/server software package designed to increase the effectiveness of mobile workers. By enhancing IBM's MQSeries® store and forward messaging technology for the mobile environment, and by providing several "agents," eNetwork Mobile Equalizer allows the mobile worker to be productive while disconnected. This also helps the mobile worker to make better use of limited connected time.

In addition, eNetwork Mobile Equalizer allows system administrators to support the mobile worker by extending the capabilities of TME 10™ software distribution.

For those customers who would like to develop their own agents or personalize the user interfaces, the eNetwork Mobile Equalizer provides a toolkit with APIs, automation scripts, and sample code.

## Intended Customers

- Customers whose mobile workforce needs access to one or more of the following:
  - Lotus Notes® Mail or Databases
  - TME 10 for software distribution
- Customers who would like to write their own agent using the eNetwork Mobile Equalizer Toolkit

## Key Prerequisites

eNetwork Mobile Equalizer Server requires Microsoft™ Windows NT® Server V4.0 or later. The client requires Microsoft Windows™ 95. Additional prerequisites are specific to the agents.

## Planned Availability Dates

- June 26, 1998: IBM eNetwork Mobile Equalizer
- July 31, 1998: Pager Agent

## At a Glance

eNetwork Mobile Equalizer is a client/server product which provides a reliable means of extending business applications to mobile workers. The base product extends IBM's MQSeries which provides message queueing on both the client and server, to enable application processing in both connected and disconnected modes with guaranteed delivery, checkpoint/restart, and user control/prioritization of data transmission. In addition, Mobile Equalizer consists of the following agents:

- File Subscription Agent for selective downloads of file refreshes
- Lotus Notes Agent for selective replication of e-mail messages or Notes™ databases
- Management Services Agent for software distribution
- Pager Agent for alerting users of data receipt triggered by customer-defined criteria

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## Description

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eNetwork Mobile Equalizer is designed to meet today's need for:

1. Mobile (occasionally connected) workers to be productive while disconnected and to access LAN-based data and applications over low-speed (dial-up) connections.
2. Systems administrators to extend management tools to support a mobile workforce.

The base product provides mobile enablement over TCP/IP connections. The customer then has the option of any or all "agents" to access/manage data resources. Additionally, customers can use the toolkit to further customize the prepackaged agents and/or create agents for their own business requirements.

**Mobile Enablement:** IBM's MQSeries provides the store and forward mechanism for the underlying transport. From this starting point, eNetwork Mobile Equalizer provides:

- Disconnected operations, allowing users to work off-line while ensuring inbound and outbound data delivery and synchronization once connection is established.
- Selection and control of work items to be processed based on connection bandwidth. For example, the client can be configured to only process tasks with estimated duration of under five minutes when connection is made over a dial-up line.
- Queue summaries depicting agent-defined work items from both the inbound and outbound queues, allowing the user to focus on priority items.

These mobile enablement functions are used by the agents described below and can be used by customer-built agents via the toolkit.

**File Subscription Agent:** Every mobile worker has a need to keep vital business data current. The file subscription agent ensures that users automatically receive updates to their subscription items whenever the corresponding corporate file is modified. Additionally, the user can force a refresh of any subscribed item and a system administrator can mark specific items as mandatory subscriptions for designated user groups.

**Lotus Notes Agent:** For customers using Lotus Notes in their LAN environment, this agent allows mobile users to preview their Notes Mail® or database items without doing any replication. Message summary information can be browsed for user selection of priority items. Additionally, the client agent can be configured to automatically synchronize notes information at specified time intervals over specified connection types.

**Management Services Agent:** For customers using Tivoli's TME 10 family of products, this agent allows system administrators to perform TME 10 functions on mobile laptops. For example, software distribution, file transfers, and remote program execution initiated from TME 10 will be queued by eNetwork Mobile Equalizer pending a connection of the specified mobile devices.

**Pager Agent:** For customers using the Lotus Notes Pager Gateway, this agent will trigger a page to a mobile worker based on predefined criteria set by the user or system administrator. This agent monitors events created by the other agents and will trigger a page when there is a match with the predefined criteria. For example, a mobile user

could define a note from management as a criteria for a page or a system administrator could define a change to the price file as a criteria for all sales people.

**Toolkit:** For customers who want to modify the default parameters of the above agents, the toolkit provides sample automation scripts that can be changed to meet specific processing requirements. For example, the file subscription agent can be set to transfer only files smaller than 10k when connected over a dial-up line. Secondly, automation scripts can control events external to the above agents. For example, as an extension to IBM's DB2® DataJoiner®, automated scripts can trigger database replication based on user requirements, such as connection type. Finally, the toolkit contains APIs and sample code that can be used to write additional agents.

## Year 2000

This product is Year 2000 ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and/or receiving date data within and between the 20th and 21st centuries, provided all other products (for example, software, hardware, and firmware) used with the product properly exchange accurate date data with it.

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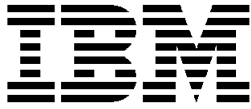
## Product Positioning

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Last year, IBM announced the eNetwork Wireless family of products to extend 3270/5250 emulation and Internet/intranet access to mobile workers over a variety of wireless protocols. Now, IBM extends its Mobile initiative to the occasionally connected mobile user. Expanding the store and forward messaging technology of MQSeries, eNetwork Mobile Equalizer extends the reach of Lotus Notes and TME 10 to the mobile environment. Customization interfaces allow the user and/or system administrator to select and prioritize work items handled by the various agents. In this way, mobile workers can optimize their use of processing time.

## Trademarks

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# IBM US Announcement Supplemental Information

April 7, 1998

## Publications

The following publications can be ordered.

Title	Order Number
IBM eNetwork™ Mobile Equalizer Administrator's Guide	SC31-8669
IBM MQSeries® User's Guide	GC33-1965
IBM MQSeries Quick Beginnings	GC33-1871

## Technical Information

### Specified Operating Environment

#### Hardware Requirements

##### eNetwork Mobile Equalizer Server

- A Pentium™ class 133 MHz with 64 MB is the recommended minimum machine.
- A minimum of 140 MB disk space for the eNetwork Mobile Equalizer code, with an additional amount of disk space required for caching. Cache size is based on number of clients and type of activity.
- LAN connection (for example, Ethernet or token ring.)

##### eNetwork Mobile Equalizer Client

- A Pentium class with 16 MB is the recommended minimum machine.
- A minimum of 30 MB disk space for the eNetwork Mobile Equalizer code.

#### Software Requirements

Component	Client	Server (1)
Mobile Enablement	Windows 95 at OSRO Service Level or later MS Internet Explorer (2) Microsoft™ TCP/IP	Windows NT® Server 4.0 (at current service level) or later TCP/IP
Lotus Notes® Agent	Lotus® Notes™ Client V4.5.1 or later	Lotus Domino™ Server V4.5.1 or later Lotus Notes Client V4.5.1 or later

Component	Client	Server (1)
Management Services Agent		TME 10™ LAN Access Client V1.1 or later TME 10 LAN Access V1.1 or later TME 10 Software Dist. V3.1 or later TME 10 V3.1.2 or later TME 10 Enterprise Console V3.1 Lotus Notes Pager Gateway V2.0 or later Lotus Notes Client V4.5.1 or later
Pager Agent		

- (1) TME 10 LAN Access Client and the Lotus Notes Client must be on the eNetwork Mobile Equalizer Server. Other Server prerequisites must be in the network.
- (2) MS Internet Explorer: V4.0 or later with Win 95 at OSRO; 3.02 or later with Win 95 at OSR2.

**Performance Considerations:** The performance of eNetwork Mobile Equalizer can be affected by many different variables, some of which can be tuned with program parameters and some of which are external to the product, for example:

- Number of users and concurrent sessions
- Type of applications
- Type of connection from the client to the network

For information on the parameters that affect performance, refer to the *eNetwork Mobile Equalizer Administrator's Guide* (SC31-8669).

**Packaging:** Entitled Documentation is provided with the programs.

eNetwork Mobile Equalizer is available on CD-ROM only. The program package includes:

- eNetwork Mobile Equalizer Server for Windows NT
- eNetwork Mobile Equalizer Client for Windows™ 95
- eNetwork Mobile Equalizer Toolkit
- IBM MQSeries Server for Windows NT
- IBM MQSeries Client for Windows 95
- IBM DB2 Universal Database®

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## Security, Auditability, and Control

eNetwork Mobile Equalizer uses the security and auditability features of the Windows NT Server and Windows 95 software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## Ordering Information

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eNetwork Mobile Equalizer is a client/server product which has two charge units: server install and registered users.

Description	U.S. Program Package Part Number or PID Number	Charge Unit Description
eNetwork Mobile Equalizer V1.0	04L4998	Program Package
eNetwork Mobile Equalizer V1.0	04L5035	1 Registered User

Description	Order Type Number	Feature Number	Part Number
eNetwork Mobile Equalizer V1.0 Program Package CD-ROM	5801-AAR	2374	04L4998
eNetwork Mobile Equalizer V1.0 1 Registered User	5807-AAR	2169	04L5035

**Note:** For orders received before July 31, 1998, the Pager Agent will not be included with the program package but will be available after July 31, 1998, from the following Web site:

<http://www.software.ibm.com/enetwork/mobile>

For orders received after July 31, 1998, the Pager Agent will be included with the program package.

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## Terms and Conditions

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**Licensing:** IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

**Limited Warranty Applies:** Yes

**Program Services:** Available until January 31, 2001

**Money-back Guarantee:** 30-day, money-back guarantee for program packages

**Copy and Use on Home/Portable Computer:** Yes

**Usage Restriction:** Yes. The customer cannot exceed the number of registered users ordered without obtaining additional quantities for the feature that extends the permitted usage. The client function can only be used with its associated server. The Database component of eNetwork Mobile Equalizer server can only be used in conjunction with the Mobile Equalizer server.

**Support Line:** Personal Systems

**Complimentary Introductory Support:** Not available for PC platform

**Upgrades:** Customers may acquire upgrades up to the currently authorized level of use of the qualifying programs.

**Volume Orders:** Volume licensing part numbers and prices will be announced on April 28, 1998.

**Software Advantage Applies:** No

**SW Advantage Upgrade Protection Applies:** No

**AIX®/UNIX® Upgrade Protection Applies:** No

**Entitled Upgrade for Current SW Advantage Upgrade Protection Licensees:** No

**Entitled Upgrade for Current AIX/UNIX Upgrade Protection Licensees:** No

**Variable Charges Apply:** No

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## Charges

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Description	Part Number	One- Time Charge
eNetwork Mobile Equalizer V1.0 Program Package CD-ROM	04L4998	\$4,999
eNetwork Mobile Equalizer V1.0 1 Registered User	04L5035	299

Monthly Optional Support Line Charge: \$230 per month

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