

MITEL

## NuPoint Unified Messaging 640

### High-Capacity, Resilient Unified Messaging Solution

Mitel® NuPoint Unified Messaging™ (UM) 640 is a highly scalable and robust messaging solution that scales to over 100,000 users. With support for leading IP PBX and TDM gateways, it delivers a cost-effective migration path from legacy voice mail systems and gives you flexible deployment options to fit seamlessly with your existing infrastructure. A modular architecture allows you to buy the system you need today and cost-effectively add applications, features, and capacity as your business grows and evolves over time.

### Service Reliability for Businesses of All Sizes

NuPoint UM 640 delivers carrier-grade reliability and resiliency with flexible deployment options to meet the scale and budget requirements of businesses of all sizes. It is available as an entry-level single-server solution with redundant hardware and optional external storage that provides up to 120 ports, or as a multi-server solution that can be deployed in an active-passive configuration or in an active-active configuration with up to four clustered nodes and up to 960 ports. NuPoint UM can be centralized in a data center, supports NAS integration, and can deliver cross-data center disaster recovery, leveraging investment in advanced data storage.

### Low Cost of Ownership

NuPoint UM 640 has been designed to lower the cost of ownership from the time of initial deployment right through to day-to-day management. It provides a single-system solution for voice, unified messaging, and speech, with all applications running on a single, common server where capacity and functionality can be added without adding more servers (within engineering guidelines). Advanced IP and TDM (digital, analog, and T1/E1) integrations mean that it fits seamlessly with your existing infrastructure, and for large or distributed organizations, NuPoint UM 640 supports simultaneous integrations to multiple PBXs. Web-based management and support for LDAP and Active Directory® simplify installation and ongoing management.



### Worry-Free Migrations

Customers with Centigram System®, BayPoint Innovations®, or legacy Mitel NuPoint Messenger IP™ Model 640 systems can rest assured – NuPoint UM 640 is simply the next generation of these solutions. This means that migrating to NuPoint UM is simple for administrators and end users alike. Seamless migration of messages, databases, and greetings is supported along with the familiar Centigram / Mitel telephone user interface (TUI). For migrations from non-Centigram / NuPoint systems, other TUIs are available, including a numeric TUI, an Octel®-like TUI, and a telecommunications device for the deaf (TDD) interface. Upgrading from Mitel NuPoint UM to NuPoint UM 640 will appear seamless to the end user, as the feature set and user interface are the same and all user options are preserved.

### Advanced IP and TDM Integration

NuPoint UM 640 is a Voice-over-IP (VoIP) solution that integrates with both a VoIP network and a traditional analog network. Whether you have already converged your voice and data networks or have plans to do so in the future, NuPoint UM 640 will accommodate. For traditional TDM-based PBXs, NuPoint UM 640 supports digital, T1/E1 with MSDN or Simplified Message Desk Interface (SMDI), and analog / SMDI integrations. Digital and analog integrations are supported through a Session Initiation Protocol (SIP) interface to a PBX integration gateway, while T1/E1 integrations leverage an IP messaging gateway.

For large or distributed organizations, NuPoint UM 640 also supports simultaneous integration to multiple PBXs using enhanced SMDI (ESMDI) and dual message waiting indication (MWI) through RS232 and dual tone multi-frequency (DTMF) to PBX message waiting.

### Fully-Featured for All Types of Business Users

Businesses today have a range of users, all with different communication requirements. NuPoint 640 UM provides a single solution that can meet the needs of all types of users, from the basic voice mail user to the mobile professional who requires advanced unified messaging and text-to-speech (TTS). NuPoint UM offers a speech auto-attendant and an unrivaled breadth of voice features, including personal call routing options such as find me–follow me; personal distribution lists; and the ability to create personal auto-attendants with schedules, custom call routing, and caller ID filtering. With advanced unified messaging, users can retrieve and manage all forms of messages, including voice mail, email, and fax, from the phone, email inbox, or web browser.

### Key System Features and Applications

- Carrier-grade reliability at an enterprise price point
- Flexible high availability deployment options: redundant active–passive or active–active with load sharing
- Large system scaling for centralized deployments
- Continuous system operation ensures resiliency and is capable of 99.999 percent uptime (excludes scheduled maintenance) based on network design
- SIP-enabled for an end-to-end IP solution
- Web-based administration for mailbox maintenance, report generation, and system maintenance
- Lightweight directory access protocol (LDAP) / Active Directory integration simplifies user administration
- Billing and reporting
- Advanced networking (number portability (NP) net transmission control protocol (TCP) / IP, audio messaging interchange specifications (AMIS) and voice profile for Internet messaging (VPIM))
- Record-a-call and recorded announcement device (RAD) support.

### Key User Features and Applications

- Advanced Unified Messaging, including TTS (Microsoft® Exchange and IBM® Lotus Notes®) and BlackBerry® support through Microsoft Exchange (maximum 2500 users with external MAPI gateway) and Lotus Notes (maximum 500 users)

- Standard Unified Messaging with message waiting indicator synchronization (Microsoft Exchange, Lotus Notes, and GroupWise®)
- Speech auto-attendant with optional presence integration (Microsoft Live Communications Server, Microsoft Office Communications Server 2007, and IBM Sametime® 8.0)
- Multiple numbers per mailbox
- Pre-packaged personal mailbox routing options such as find me–follow me and personal assistant
- Call Director for web-based creation of sophisticated corporate and personal auto-attendants with schedules, advanced custom call routing, and caller ID filtering
- Soft fax for inbound and outbound faxing and fax publishing without any requirement for fax cards
- Greeting only, chain, rotational, broadcast, Q&A, and information mailboxes
- Multilingual, mnemonic, and numeric prompts.

## Specifications

System Capacity	NuPoint UM 640 Single-Server Deployment	NuPoint UM 640 Multi-Server Deployment
Number of Ports	8 to 120	8 to 960
Maximum Hours of Speech Storage	10,000 Hours	10,000 hours
Maximum Mailboxes	120,000	120,000
Simultaneous Languages	8	8
Simultaneous Standard Unified Messaging Mailboxes	6,000	6,000 per Active server
Simultaneous Advanced Unified Messaging Mailboxes	2,500 (with MAPI gateway)	2,500 (with MAPI gateway)
Simultaneous PBX Integrations	32 (ESMDI)	32 (ESMDI)

## System Hardware

NuPoint UM 640 Single-Server Deployment	NuPoint UM 640 Multi-Server Deployment	NuPoint UM 640 Multi-Server Deployment
Sun Fire™ 4150 <ul style="list-style-type: none"> <li>• Dual quad-core Intel® Xeon® processor 5400 Series</li> <li>• 2 GB RAM</li> <li>• Four onboard GigE ports</li> <li>• Four external, 1 internal USB ports</li> <li>• One EIDE DVD/W</li> <li>• Hot-swappable and redundant power supplies, fans and disk drives</li> <li>• Eight internal RAID drives or external RAID storage with 5 drives</li> </ul>	HP Proliant® DL 360 <ul style="list-style-type: none"> <li>• Dual Intel Xeon Class 2.8 Ghz microprocessor</li> <li>• Embedded 1 GB NIC</li> <li>• 2 GB RAM</li> <li>• Redundant power supplies and fans</li> <li>• DVD-ROM drive</li> <li>• One serial port</li> <li>• Two USB ports</li> <li>• External RAID storage with 7 drives</li> </ul>	Sun Fire™ 4150 <ul style="list-style-type: none"> <li>• Dual quad-core Intel Xeon processor 5400 Series</li> <li>• 2 GB RAM</li> <li>• Four onboard GigE ports</li> <li>• Four external and one internal USB ports</li> <li>• One EIDE DVD/W</li> <li>• Hot-swappable and redundant power supplies, fans and disk drives</li> <li>• External RAID storage with 7 drives</li> </ul>

Note: Only NuPoint UM single-server solutions with external storage can be upgraded to the full NuPoint UM 640 multi-server solution.

Server Assembly	PBX Integration Gateway	Mitel Messaging T1/E1 Gateway	MAPI Gateway
<ul style="list-style-type: none"> <li>• Dual Intel Xeon Class 2.8 Ghz microprocessor</li> <li>• Embedded 1 GB NIC</li> <li>• 2 GB RAM</li> <li>• Redundant power supplies and fans</li> <li>• DVD-ROM drive</li> <li>• One serial port</li> <li>• Two USB ports</li> <li>• External RAID storage with seven 146 GB drives</li> </ul>	<ul style="list-style-type: none"> <li>• Eight telephony ports per unit</li> <li>• One serial port for serial protocol support</li> <li>• One 10/100Base-T ethernet port</li> </ul>	Two variations: <ul style="list-style-type: none"> <li>• Non-redundant gateway supports up to 48 T1 / 60 E1 ports</li> <li>• Redundant gateway has redundant power and hard drives and supports up to 96 T1 / 120 E1 ports</li> </ul>	Minimum requirements: <ul style="list-style-type: none"> <li>• Single core Pentium® processor</li> <li>• 1 GB RAM</li> <li>• 80 GB hard drive</li> <li>• Microsoft Windows Server® 2003 or Microsoft Windows Server 2007 or Microsoft Windows® XP</li> </ul>



## System Dimensions

	HP Proliant DL 360	Sun Fire 4150
Height	4.32 cm (1.7 in)	0.44 cm (1.75 in)
Width	42.63 cm (16.78 in)	42.60 cm (16.73 in)
Depth	70.49 cm (27.75 in)	71.40 cm (28.13 in)
Weight	16.78 kg (37 lbs)	18.4 kg (40.66 lbs) <sup>1</sup>

<sup>1</sup>Assuming no rack mounting slide rail kit and each PCI-Express card weight of 0.12 kg (0.25 lbs)

## Supported PBXs

Vendor	Model	Revision	Emulation
<b>IP Integration</b>			
Mitel	Mitel 3300 IP Communications Platform (ICP)	Release 5.2 or greater	–
<b>Digital Integration</b>			
Mitel	Mitel SX-200 IP Communications Platform (ICP)	Release 1.2.0.7 or greater	Mitel Superset <sup>®</sup> 430
	Mitel SX-200 <sup>®</sup>	Mitel LIGHTWARE™ 17	Superset 430
	Mitel SX-2000 <sup>®</sup> LIGHT	LIGHTWARE 30	Superset 430
Nortel <sup>®</sup>	Meridian (M-1 and SL-1)	Release 15 or greater	M2616
	Norstar 8 x 24 DR5	Release 1.2 or greater	M7324
	Norstar MICS	Release 4.5 or greater	M2616
	Succession 4.0	Revisions 3.0 and 4.0	–
OptiSet™ (Siemens <sup>®</sup> )	Hicom 300E	Release 9006.4 or greater	E Advantage Plus
Lucent™ (Avaya <sup>®</sup> )	Definity <sup>®</sup> G3	Version 3 or greater	–
	Merlin Magix <sup>®</sup>	Release 2.0 or greater	8434 (2-wire mode)
	Merlin Legend	Release 7.0 or greater	4424D
NEC <sup>®</sup>	2400 IMG	Release 7400 or greater	Dterm III
	2400 IMX	Release 5200 Dec. 92 1b or greater	–
	2400 IPX	R17 Rel. 03.46.001	–
	NEAX 2000 IVS	Release 1700 or greater	–
<b>Analog Integration</b>			
Various	PBX must support analog loop start station interfaces and SMDI	–	–
<b>T1 and E1 Integration</b>			
Mitel SX-200 ICP / SX-2000 LIGHT	T1 or E1 with MSDN or Q.SIG	–	–
Various	PBX must support T1/E1 interface and SMDI or Q.SIG	–	–

## Environmental Conditions

	HP Proliant DL 360	Sun Fire 4150
Operating Temperature	10 °C to 35 °C (50 °F to 95 °F)	5 °C to 35 °C (41 °F to 95 °F)
Non-operating Temperature	–	-40 °C to 70 °C (-40 °F to 149 °F)
Relative Humidity Operating	10% to 90%	10% to 90%
Power Input	565 W (Max)	650 W (Max)

### Global Headquarters

Tel: +1(613) 592-2122  
Fax: +1(613) 592-4784

### U.S.

Tel: +1(480) 961-9000  
Fax: +1(480) 961-1370

### EMEA

Tel: +44(0)1291-430000  
Fax: +44(0)1291-430400

### CALA

Tel: +1(613) 592-2122  
Fax: +1(613) 592-7825

### Asia Pacific

Tel: +852 2508 9780  
Fax: +852 2508 9232

For more information on our worldwide office locations, visit our website at [www.mitel.com/offices](http://www.mitel.com/offices)

THIS DOCUMENT IS PROVIDED TO YOU FOR INFORMATIONAL PURPOSES ONLY. The information furnished in this document, believed by Mitel to be accurate as of the date of its publication, is subject to change without notice. Mitel assumes no responsibility for any errors or omissions in this document and shall have no obligation to you as a result of having made this document available to you or based upon the information it contains.

M MITEL (design) is a registered trademark of Mitel Networks Corporation. All other products and services are the registered trademarks of their respective holders.

© Copyright 2010, Mitel Networks Corporation. All Rights Reserved.

GD 1192\_6661 PN 51010604RF-EN

[www.mitel.com](http://www.mitel.com)

