



## Section 508 Accessibility Information for UNIVERGE® UM8000

The following information relates to NEC products offered under our GSA Schedule GS-35F-0245J and other Federal Contracts.

NEC Unified Solutions, Inc., based upon its interpretation of the Section 508 regulations, reasonably believes that its products may support some of the features set forth under Section 1194.23 - Telecommunications Products. However, the information herein is not a representation of conformance or compliance and is provided for informational purposes only.

If you have questions regarding Section 508 regulations as they apply to these NEC products, please contact NEC Unified Solutions, Inc., by calling 214-262-7095, or by sending a detailed e-mail request to [Section508@necam.com](mailto:Section508@necam.com).

<b>UNIVERGE® UM8000 Voice/Unified Messaging System</b>		
<b>508 Standard 1194.23</b>	<b>Supporting Feature</b>	<b>Remarks / Comments</b>
1194.23(a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.	Yes	The NEC UNIVERGE UM8000 complies with this section to the extent indicated in Paragraphs 1194.23(b) and 1194.23(c).
1194.23(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Yes with assistive technology.	Hearing impaired individuals who rely on TTY's for telephone communication will require the assistance of a dual-party relay service in order to use the UNIVERGE UM8000 system

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1194.23(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Yes with assistive technology.	Hearing impaired individuals who rely on TTY's for telephone communication will require the assistance of a dual-party relay service in order to use the UNIVERGE UM8000 system. In addition, the UNIVERGE UM8000 system can optionally provide a fully featured LAN-based, graphical user interface, easing mailbox use by hearing impaired users when combined with an amplitude-adjustable telephone, PC speakers or headset.
1194.23(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.	The UNIVERGE UM8000 has adjustable time-out periods, after which the system prompts or re-prompts the user to make an entry or be routed to a pre-defined extension or disconnected. Time-out periods are adjustable by the local system administrator.	The NEC UNIVERGE UM8000 complies with this section, to the extent that the graphical user interface is fully compliant, as is the telephone user interface for all functions necessary to operate the system.
1194.23(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.	N/A	This is a function of the telephone connected to the PBX system.

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1194.23(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.	The NEC UNIVERGE UM8000 telephone user interface allows the user, while listening to adjust the playback volume by 12 dB, this is the maximum increase allowed by the US public switched telephony network (PSTN). Generally the minimum required the telephone instruments as listed in the clarification column provide gain of 20 dB. Additionally the graphical user interface of a Multi-media equipped PC may also provide this control.	Such feature is found in the NEC Dterm® Series E, Dterm Series i and Dterm IP models.
1194.23(g) If a telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.	Yes	Adjustments made to the TUI, such as playback volume or language choices are automatically reset to the original values when the caller disconnects.
1194.23(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.	N/A	There are no audio transducers in the UNIVERGE UM8000.
1194.23(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.	N/A	The UNIVERGE UM8000 is generally not located with the callers. The UNIVERGE UM8000 is designed to meet FCC Part 68 and 15 Class A requirements.

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1194.23(j) Products that transmit or conduct information or communication shall pass through cross-manufacturer, non-proprietary, industry-standard codes, translation protocols, formats or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.	Yes with assistive technology	Hearing impaired individuals who rely on TTY's for telephone communication will require the assistance of a dual-party relay service in order to use the NEC UNIVERGE UM8000 system.
1194.23(k)(1) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be tactilely discernible without activating the controls or keys.	N/A	The UNIVERGE UM8000 is generally not located with the callers.
1194.23(k)(2) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be operable with one hand and shall not require tight grasping, pinching, twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2N) maximum.	N/A	The UNIVERGE UM8000 is generally not located with the callers.
1194.23(k)(3) Products which have mechanically operated controls or keys shall comply with the following: If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.	Yes	The NEC UNIVERGE UM8000 does not provide a key repeat function.

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1194.23(k)(4) Products which have mechanically operated controls or keys shall comply with the following: The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	N/A	The UNIVERGE UM8000 is generally not located with the callers.
1194.31(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for assistive technology used by people who are blind or visually impaired shall be provided.	Yes	All end-user functions may be accessed without vision via the telephone user interface.
1194.31(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for assistive technology used by people who are visually impaired shall be provided.	Yes	All end-user functions may be accessed without vision via the telephone user interface.
1194.31(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for assistive technology used by people who are deaf or hard of hearing shall be provided.	Yes	The UNIVERGE UM8000 offers a LAN-based graphical user interface within the Microsoft Corp. Outlook product, which provides a non-voice, non-TTY access to the users mailbox.
1194.31(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	Yes	The audio output level of the UNIVERGE UM8000 is adjustable via the telephone user interface or LAN-based, graphical user interface.

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1194.31(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for assistive technology used by people with disabilities shall be provided.	Yes	All functions of the UNIVERGE UM8000 maybe accessed via the telephone's keypad or via the LAN-based graphical user interfaces.
1194.31(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Yes	The requirement of 'limited reach and strength' of this section do not apply to the UNIVERGE UM8000 because it is operated from a telephone or from the user's personal computer. No simultaneous actions (e.g., pressing two buttons at the same time) are required for its operation.