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Dialogic® IP Media Server

Release Notes

Release 2.6.0

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Dialogic® IP Media Server 2.6.0 Release Notes

These release notes provide information about Release 2.6.0 of the Dialogic® IP Media Server, including a summary of new features, issues resolved since Release 2.0, and known limitations.

Note: Release 2.1 was not made generally available to customers.

For detailed information about installing and configuring the Dialogic® IP Media Server, refer to the *Installation and Operations Guide*; for detailed information about developing applications for the Dialogic® IP Media Server, see the *Application Developer's Guide*; for detailed information about activating your IP Media Server license, see the *License Activation Guide*.

Please direct any questions or inquiries to Dialogic Technical Services and Support at +1 (781) 433-9600 or americas.support@dialogic.com

New Features in Release 2.6.0

The following features have been added in the Dialogic® IP Media Server Release 2.6.0.

Support for IPv6 on Management, Signalling and Control Interfaces

The IP Media Server supports IPv6 as defined in December 1998 by the Internet Engineering Task Force (IETF) with the publication of an Internet standard specification, RFC 2460.

The IP Media Server supports the configuration of network interface as:

- IPv4 only node
- IPv6 only node
- Dual Stack node

IPv6 Implementation Details:

- For an IPv6 interface, the IP Media Server supports Signalling and Control for SIP and RTP on the assigned IPv6 Global address only.
- SIP and/or RTP can only be bound to a single physical interface, where SIP and/or RTP can be bound to IPv6 only, IPv4 only, or Dual Stack on that physical interface.
- The web caching mechanism on the IP Media Server uses the Squid package provided by the Red Hat 5.0 Update 2 distribution. As of Release 2.6, this version of Squid does not support IPv6; therefore, to utilize IPv6 while accessing files and documents across an IPv6 network, the system administrator must either disable Squid or upgrade to Squid 3.1. Please contact Dialogic Technical Services and Support for further details.

Please refer to the *Dialogic® IP Media Server Installation and Operation's Guide* for further information.

Positive Voice and Positive Answering Machine Detection in Call Progress Analysis

The IP Media Server supports application registration for Positive Voice Detection (PVD) and Positive Answering Machine Detection (PAMD). As of Release 2.6, support is limited to MSCML Conferencing and IVR applications.

Please refer to the *Dialogic® IP Media Server Application Developer's Guide* for further information.

Host Based Soft Codecs (AMR-NB)

The IP Media Server supports AMR Narrow Band (AMR-NB) audio transcoding in software.

The AMR-NB, G.729A/B and G.726 audio transcoding previously supported on the EDP10 (Rockhopper) card are no longer supported as of this release.

The benchmark performance and density numbers for Host-Based audio transcoding is scheduled to be published seperately. Please contact Dialogic Technical Services and Support for further details.

Please refer to the *Dialogic® IP Media Server Application Developer's Guide* for further information.

SNMP Trap Enhancements

An SNMP trap, *msFetchFailureOccurred*, has been created that will send a notification (as follows) if a file fetch has failed on the IP Media Server.

- When the IP Media Server attempts to fetch a prompt or script that is located off the server (i.e., webserver, message store), if the fetch fails due to the HTTP response code "404 Not Found", an SNMP Trap will be generated and sent to a network management system.

Another SNMP trap, *msVxmlScriptAsLastResortOccurred*, has also been created that will send a notification (as follows) when the "Last Resort Script" is executed for VoiceXML service.

- When the IP Media Server cannot retrieve the initial VoiceXML script due to a network, server, or other system issue, an SNMP Trap will be generated and sent to a network management system.

Please refer to the *Dialogic® IP Media Server Installation and Operation's Guide* for further information.

RFC2833 and Inband DTMF Tone Generation

The IP Media Server supports the generation of RFC2833 packets and inband DTMF tones within MSCML via a new Prompt Element defined as <dtmf>.

Please refer to the *Dialogic® IP Media Server Application Developer's Guide* for further information.

MRCPv1 Client Support

MRCP V1 is a standards-based client server architecture, which provides support for a number of services offered by the MRCP server. The IP Media Server now supports MRCP Version 1 based Automatic Speech Recognition (ASR) and text-to-speech (TTS) services with the integrated VoiceXML 2.0/2.1 Server.

Please refer to the *Dialogic® IP Media Server Application Developer's Guide* for further information.

Web User Interface Enhancements

Aesthetic and technical enhancements have been made in the WebUI, including:

- Top level tabbed browsing
- Configuration of Network Interfaces have been updated to support IPv4, IPv6 and Dual Stack network configurations
- Software Updates and License Installation have been updated to use HTTP upload and to no longer require FTP
- VoiceXML and MRCP Client configuration

Please refer to the *Dialogic® IP Media Server Installation and Operation's Guide* for further information.

Upgrading from Previous Releases

Important Note: After completion of the upgrade to Release 2.6.0, the WebUI Admin password will have been reset to <blank>. You should change your password immediately after initial login; see "Changing Administrator Password" in the "Installation and Operations Guide".

If you are upgrading an existing installation of the Dialogic® IP Media Server from a previous release, refer to the upgrade instructions appropriate to your operating system platform.

- *Upgrading from 2.5 to 2.6.0 on Red Hat Enterprise Linux ES Platforms*, Part Number: 64-0523-01.

Note: If you are currently running a version of the Dialogic® IP Media Server earlier than Release 2.0, you must first upgrade your system to Release 2.0 before upgrading to release 2.6.0.

Note: Fedora Core versions of the software are now End of Life. The delivery of the last time buy was 6/30/08, and support for Fedora Core ended on 10/31/08.

Important Note: Before upgrading to Release 2.6.0, there are required Red Hat packages that must be installed. For a list of such packages, please see the document titled "Red Hat 5.0 and MS 2.6"

Important Note **Regarding Red Hat EL 5.0 Update 2:**

The following packages MUST be installed on the IP Media Server if running Red Hat EL5.0 Update 2 in order to address an Operating System issue.

kernel-2.6.18-128.1.6.el5.i686.rpm

kernel-devel-2.6.18-128.1.6.el5.i686.rpm

kernel-headers-2.6.18-128.1.6.el5.i386.rpm

As part of the upgrade process, command shell scripts are provided that enable you to back up and restore necessary file systems. The upgrade documents and command shell scripts are available by contacting Dialogic Technical Service and Support.

`http://cantata.dialogic.com/support/productinfo.cfm?frmProductID=0&frmProduct=SnowShore%20Media%20Server&frmCategory=Download`

If you do not have a username and password to access this site, contact Dialogic Technical Services and Support.

Supported Platforms

The Dialogic® IP Media Server is distributed in two forms:

- An integrated server, including a hardware platform based on the Dell 1950 server or the Intel TIGW1U NEBS-Compliant Server and preinstalled Dialogic® IP Media Server software.

  The standard configuration of the integrated Dialogic® IP Media Server that currently ships on the Dell 1950 Server with Release 2.6.0 installed has the following specifications:
  - Dual Quad Core Intel Xeon L5410, 2x6MB Cache, 2.33 GHz, 1066 MHz FSB
  - 73GB 15k RPM Serial-Attached SCSI 3Gbps 3.5
  - 8GB 667 MHz (4x2GB) Dual Ranked DIMMs
  - Red Hat Enterprise Linux 4.0 Update 5

  The standard configuration of the integrated Dialogic® IP Media Server that currently ships on the Intel TIGW1U NEBS-Compliant Server with Release 2.6.0 installed has the following specifications:
  - Dual Quad Core Intel Xeon L5410, 2x6MB Cache, 2.33 GHz, 1066 MHz FSB
  - 73GB, SAS, 2.5"
  - 8GB DDR2-667 FBDIMM ECC
  - Red Hat Enterprise Linux 4.0 Update 5

  Note: The MS-10A, MS-10B, MS-20A, and MS-20B hardware platforms, based on the Intel SR1300 and Intel SR2300, are no longer available for purchase.
- Two software-only releases for installation on an existing hardware platform meeting the standard specifications for the integrated server and running Red Hat Enterprise Linux 5.0 Update 2.

Issues Resolved

The following known issues in the Dialogic® IP Media Server (which is referred to below as "IP Media Server", "Media Server", or "IPMS") have been resolved since Release 2.0.

Issues Resolved in Release 2.6.0

Functional Area	Description
Logging	Changed the log level for SIP Options XML to INFO instead of ERROR. (CQ54161)
Media	Resolved an issue where an RTP packet received on a Conference

Functional Area	Description
Processing	Control Leg would cause the mserv process to acquire 100% CPU utilization. (CQ54703)
	Resolved an issue where mserv could core dump while performing bulk load testing of web server fetches for prompts and scripts. (CQ80783)
SIP	When the IP Media Server received an INVITE with 'annexb=no' in the SDP, the 200ok response did not contain the 'annexb=no' line. The IP Media Server will not send the 'annexb=no' line in 200ok SDP if it was received in the INVITE. (CQ54716)
VoiceXML 2.0	Resolved an issue where if a Voice Grammar is active and the VoiceXML <transfer> element does not have a 'maxtime' defined, the transer terminates after the default timeout of 3 seconds. The transfer will now last until either the user hangs up or the active voice grammar is matched. (CQ54683)
	Resolved an issue where if a VoiceXML script expects '*' for a <choice> element, the IP Media Server would interpret the '*' as match any digit. The DTMF '*' was interpreted correctly for <grammar> and other input, but not for <choice> elements. The '*' is now intrepreted correctly for <choice> elements. (CQ54684)
	Resolved an issue where an HTTP POST within a subdialog would post the filename instead of the recording. (CQ54950)
WebUI	Resolved an issue where if the License Features WebUI page was left open, the automatic refresh of the WebUI data would leak a Linux file handle. (CQ54540)

Issues Resolved in Release 2.5.0

Functional Area	Description
Logging	Resolved an issue which could cause the LogI process to core dump (CQ54281)
SIP	Resolved an issue where multiple MSCML responses might be sent for a single DTMF digit detection. (CQ54086)
	Resolved an issue where an MSCML prompt play fails with status "400 Invalid XML" while performing multiple MRCP session creations, prompt plays, and recognition events. (CQ54085)
	Resolved an issue where sipd and mserv would core while running an application which utilizes the MSCML MRCP Session Management feature. (CQ54277, CQ54278)

Functional Area	Description
	Resolved an issue where the offered SDP direction attribute only applied to the audio and not the video line. The offered SDP direction attribute now applies to both audio and video. (CQ53840)
WebUI	Resolved an issue where the WebUI sets the hostname to the wrong interface. [CQ54370]

Issues Resolved in Release 2.4.1

Functional Area	Description
Media Processing	Resolved an issue where an RTP packet received on a Conference Control Leg would cause the mserv process to acquire 100% CPU utilization. (CQ54701)
WebUI	Resolved an issue where if the License Features WebUI page was left open, the automatic refresh of the WebUI data would leak a Linux file handle. (CQ54726)
Logging	Changed the log level for Sip Options XML to INFO instead of ERROR. (CQ53887)

Issues Resolved in Release 2.4.0

Functional Area	Description
Logging	Resolved an issue where the audit.log would contain invalid XML data. (CQ53888)
Media Processing	Resolved an issue which could cause corrupt .wav recordings. (CQ53852)
	Resolved an issue where mserv would core dump during high call volume of T.30 Fax Detection and redirection to a third party Fax Server. (CQ53878)
	Resolved an issue where a recognition prompt play might fail with status "400" "Invalid XML'. (CQ53955)
SIP	Resolved an issue where received RFC2833 digits result in multiple SIP Info messages being sent for a single key press. (CQ53956)
System	Resolved an issue which could prevent Licensing from working properly during the software upgrade process. (brkt~6875)
	Resolved an issue that could cause a response failure from the License broker process. (brkt~6920)
	Resolved an issue with the SDPconnectionInSession= parameter missing after upgrading from a 2.0.6 or prior version of software. (brkt~7039)
VoiceXML1.0	Resolved an issue where certain VXML events were being improperly handled during a transfer. (CQ53884)

Functional Area	Description
	When calling into the IPMS and executing VXML1.0 scripts with a prompt play within a subdialog, the vxmld process encounters a core. This issue has been resolved. (CQ53929)
	Resolved an issue where calls being initiated from a VXML script can be terminated using any DTMF tone before the transfer completes. (CQ53941)
WebUI	Resolved an issue where the SDP Offer Codec selection list would not get displayed. (CQ53861)
	Resolved an issue where core files might not be listed in the WebUI. (CQ53901)

Issues Resolved in Release 2.3.2

Functional Area	Description
Logging	Resolved an issue which would cause the LogI process to core dump. (CQ54281, CQ54279)
SIP	Resolved an issue which would cause sipd to core dump while running MRCP Session Management via MSCML. (CQ54277)
	Per RFC2361, the IPMS now responds with either sendrecv, recvonly, sendonly, or inactive when offered SDP contains the direction attribute sendrecv. (CQ54309)
Media Processing	Resolved an issue which would cause mserv to core dump while running MRCP Session Management via MSCML. (CQ54278)
	Resolved an issue where multiple MSCML responses might be sent for a single DTMF digit detection. (CQ54086)
	Resolved an issue where an MSCML prompt play fails with status "400 Invalid XML" while performing multiple MRCP session creations, prompt plays, and recognition events. (CQ54085)

Issues Resolved in Release 2.3.1

Functional Area	Description
Media Processing	Resolved an issue which could cause corrupt .wav recordings. (CQ53850)
SIP	No SIP Info Response returned for a SIP Info Request made during a conference. (brkt~6915)
	Resolved an issue with having an extra channel= parameter within an MSCML mrcp_session_terminate response. (brkt~6999)
	Resolved an issue with MSCML mrcp_session_create response where the connection= and connectiontype= fields where not properly populated. (brkt~7043)

Functional Area	Description
	A new configuration parameter, 'sipInviteRetries', is now supported in the Dialogic® IP Media Server configuration file. The value for this parameter sets the number of 200ok retries the Media Server will send while waiting for an ACK response. (brkt~6977)
VoiceXML	When calling into the IPMS and executing VXML1.0 scripts with a prompt play within a subdialog, the vxmld process encounters a core. (CQ53925)

Issues Resolved in Release 2.3.0

Functional Area	Description
Media Processing	Memory leak when playing local GSM-encoded audio files. (brkt~6552)
	EndSilence would be reported if InitialSilence was set to a value greater than EndSilence. (brkt~6759)
	When a second participant is added to a video conference, the RTP packets sequence numbers might be reset. (brkt~6554)
SIP	Fixed a potential core dump in Sipd when placing calls with default service as Dialog and using the default launch script to define the VXML script. (brkt~6553)
	When an INVITE to the Media Server contains a referred-By header, Sipd would core dump. (brkt~6633)
	Memory corruption would occur if the Media Server received three or more Byes for a single call. (brkt~6638)

Issues Resolved in Release 2.2.1

Functional Area	Description
SIP	Sipd would dump core when more than one simultaneous announcement call is made if the configured value 'SIPAllowEarlyWithout100REL=' is set to 'Y'. (brkt~6513)

Issues Resolved in Release 2.2

Functional Area	Description
Media Processing	Forwarded RFC2833 packets did not preserve the `volume` field. (brkt-6067)
	The IP Media Server did not recognize "long" tones if some packets were lost. The IP Media Server now reads the duration from the RFC2833 information instead of calculating it from the actual duration of the packets received. (brkt-6075)
	Mserv might dump core while recording a video/x-wave file. (brkt-6402)
Logging	In some circumstances, an application could induce an IP Media Server process to log a greater amount of data than normal to its respective log file. This could cause the system to run out of disk space while rotating and storing log files. A mechanism to compress log files for storage has been added. (brkt-5874)
	In some circumstances, an application could induce an IP Media Server process to log a greater amount of data than normal to its respective log file. This could cause the maximum log file size, defined by the operating system, to be reached prior to the minimum log rotation time of 1 hour. The IP Media Server now allows for 2 additional Log Rotation settings: 15 minutes and 30 minutes. (brkt-6037, brkt-5457)
	Not all DNS Configuration settings generated an entry in the Audit Log. (brkt-6042, brkt-6227)
	Failed configuration setting changes did not generate the proper Audit Log message. Now an "Alert"-level Audit Log message is generated for certain failed operations. (brkt-6223)
	Changes to the Configure Logs page did not generate the proper Audit Log messages. (brkt-6228)
	Changes to the Manage Certificates page did not generate the proper Audit Log messages. (brkt-6232)
	Activating or deactivating a network interface did not generate the proper Audit Log messages. (brkt-6226)
SIP	An outdial could cause the UAD process to dump core during a transfer. (brkt-6213)
SNMP	"0" was not the only valid value when setting `msVxmlNumberRecoveryFailures` OID. (brkt-6299)
Networking	Web UI support has been added for proper network configuration settings when the system has been manually configured to support bonded network interfaces. (brkt-6276, brkt-6278, brkt-6258, brkt-6268, brkt-6310)
VoiceXML	In VoiceXML 1.0, an `error.badfetch` was not thrown. (brkt-6281)
Web UI	After installing a license on the IP Media Server, the left-side Menu

Functional Area	Description
	Frame was not visible. (brkt-5517)
	Configuration parameters might not be set correctly when separated by an empty line in the `Dialogic.cfg` file. (brkt-6311)
	After retrieving a config file via the Web UI, a Submit button would be blank instead of including the text “Continue”. (brkt-5969)
	Changing VoiceXML Version through Web UI did not notify user that they must reboot host. (brkt-6271)
	Changing VoiceXML Version through Web UI did not modify the `/opt/Dialogic/etc/Dialogic.cfg` file. (brkt-6275)

Issues Resolved in Release 2.0.4

Functional Area	Description
Media Processing	The IP Media Server did not offer the configured "Offer Codec" for outbound calls. The IP Media Server now uses the configured "Offer Codec" for audio on outbound calls. The offered video codec for outbound calls matches the video codec of the incoming call leg. (brkt~6254)
	The IP Media Server could not record media of a conference for more than 36 minutes. The IP Media Server now allows for a maximum record duration of 240 minutes (4 hours). (brkt~6480)
	Resolved an issue where mserv might core dump while processing a record request of v-wav file type. (brkt~6402)
SIP	When a record-route header is in an Invite, the IP Media Server sends all of its responses to the proxy. However, when the Bye is sent, the IP Media Server sends it directly to the endpoint, rather than using the address in the record-route header. Sipd was modified to determine if loose routing is being used and to subsequently modify the Send To address to be the address associated with the first route in the route list. (brkt~6456)
	Resolved an issue that may cause Sipd to core dump while processing an incoming SIP Re-Invite message. (brkt~6464)
	In some sessions, the IP Media Server may send SDP with a missing IP address in the "c=" line. Sipd was modified to detect the empty IP address in the media connection and copy the IP from an internal memory address. (brkt~6465)
VXML	VXML2.0 - A session with a request URI of more than 256 characters would fail. The Request URI parameter value is no longer restricted to 256 characters. (brkt~6349)
	VXML2.0 - The IP Media Server computed the value for record duration shadow variable in seconds. The IP Media Server now computes this value in milliseconds in accordance with the VXML2.0 specification. (brkt~6353)
	VXML2.0 - Resolved an issue where the end of prompt tone would play at an increased volume. (brkt~6354)

Functional Area	Description
	VXML2.0 - Simultaneous ASR and TTS sessions do not work from within the same VXML script. This was do to the IpPacketFiltering rule having a default setting of "on". In order to run simultaneous ASR and TTS sessions, the IpPacketFiltering rule must be set to "off" in the Dialogic® IP Media Server configuration file. (brkt~6391) Example: # For filtering ip packets that come in with a different ip address then expected # 0 = filtering is off; 1 = filtering is on # 2 = ip filtering is on and port filtering is off IpPacketFiltering=0
System	Resolved an issue with the Initialization and Logging process that could cause the msinit to go into a 99% CPU infinite loop. (brkt~6367)

Issues Resolved in Release 2.0.3

Functional Area	Description
Media Processing	In conferences using RFC2833, the IP Media Server did not pass the volume parameter through the mixing mechanism to the other legs of the conference. The other RFC2833 conference legs now receive the volume parameter and no longer play all voices at the default level. (brkt-6067)
	The IP Media Server did not recognize "long" tones if some packets were lost. The IP Media Server now uses the RFC2833 duration value instead of calculating the elapsed time from the first and last packets received during DTMF digit transmission. (brkt-6075)
	Improved error handling on supported video formats for internal/diagnostic use only.
SIP	Enhanced SIP to support loose routing as defined in RFC 3261. (FR1148)
Diagnostics	Enhanced G2Check shell script to verify that core IP Media Server applications are running. (brkt-6202)

Issues Resolved in Release 2.0.2

Functional Area	Description
Media Processing	If the IP Media Server played a tone for more than 4 seconds (32768 timestamp units), the end packets (e bit = 1) indicated a 65535 duration. (brkt-6003)
	The IP Media Server now supports conference IDs of 64 characters in length, as stated in the *Application Developer's Guide*. (brkt-6026)
	Mlaw data was recorded, but 'alaw' encoding type was written to the .au file header. This resulted in a "fuzzy" sound when playing back the file. (brkt-6035)
	If an unregistered RTP stream was sent to a port on the IP Media Server, it could cause issues if the IP Media Server tried to use that port for a call. The IP Media Server now filters packets for a given session based on the packet source IP address. (brkt-6117)
Logging	With logging levels set to a high level, such as DEBUG, during periods of heavy traffic an IP Media Server could run out of disk space or a single log file could grow to exceed the maximum file size for the OS prior to reaching the next log rotation time. This would result in a crash of IP Media Server processes. The IP Media Server now compresses log files as they are rotated, and has two additional log rotation periods, 15 minutes and 30 minutes, which are shorter than the previous minimum rotation period of 60 minutes. (brkt-6037)
SNMP	There was a data type mismatch for the msFeature MIB, SIP and RTP Call Thresholds OIDs. (brkt-6119)
Squid	Disabled the `cache.log` by default to prevent excessive logging, which could cause squid to dump core. (brkt–6023, brkt-6059)
System	A potential issue within a system threading library could cause unpredictable results on the IP Media Server. (brkt-6040)

Issues Resolved in Release 2.0.1

Functional Area	Description
Media Processing	The IP Media Server did not handle sending 2833 digits when the conference leg was parked. (brkt-5914)
	2833 DTMF forwarded into a conference might not be maintained for the correct duration. (brkt-5927)
	Conference participants received endless tone when 2833 RX packet with end bit set was lost. (brkt-5941)
	Setting logging levels for mserv had no effect. (brkt-5761).
	A situation in the mserv application could cause a slow memory leak, if digit collect was pending and a call ended. (brkt-5964)
	While processing non-standard Ethernet interface names (names containing an underbar character), msinit could dump core. (brkt-5800)
Web UI	An issue prevented clearing cache from the IP Media Server Web UI. (brkt-5798)
Squid	Disabled the cache_assess.log file to prevent squid core dump. (brkt-5998)
HTTP Proxy	The Squid application could exit because store.log was not rotated. The IP Media Server was unable to perform HTTP fetches when the Squid application exited. (brkt-5764)
Video	A few-seconds of delay occurred when playing a video silence file if the first I-frame was missing. (brkt-5573, brkt-5783)
SNMP	A situation in the snmpDeamon application could cause a slow memory leak. (brkt-5923)
	In ms_install, the snmpd.conf file would not be updated to vxml2.0 when a user was upgrading a system that had vxml 1.0 selected. (brkt-5727)
VXML	There was unnecessary fetching of VXML root document when VoiceXML browser already had it loaded. (brkt-5911)
	An audio/wav recording could not be recovered. (brkt-5756)
	Situations in vxmld application could cause a slow memory leak. (brkt-5973, brkt-5994)
SIP	Enhanced the IP Media Server to support SIP Diversion header with multiple entries. Increased the maximum size of the SIP "Diversion" header from 127 to 511 characters. Quotation marks are now allowed in the "Diversion" header. (brkt-5674)
	Fido did not post the complete value of the SIP Diversion header (i.e., posted only what was within the first set of double-quotes). (brkt-5907).
	On active talker report with multiple conferences, sipd would dump core. Before this fix was made, the IP Media Server would stop sending Activetalkers Notifications after it had been running for a

Functional Area	Description
	few days. (brkt-5759)
	Messages with unknown content-body and optional content-disposition were rejected; now they are accepted. Before this fix was made, the IP Media Server would reject the invite from Nortel CS1000 with 415 message. (brkt-5720)
	sipd would dump core on SNMP access when the configured value for max_legs was less than 300. (brkt-5799)
	A logging message could cause sipd to dump core if the inbound media direction attribute was `recvonly`. (brkt–5813)
	sipd would dump core when incoming SDP was set to `recvonly`. (brkt-5878)
	Enhanced the VoiceXML hardening feature to better handle sipd or mserv failures. (brkt-5810)
	Some configuration settings would not be read from the `Dialogic.cfg` configuration file. (brkt-5461)
Installation	The Kickstart CD, if left sitting idle for more than 3 minutes, attempted to install the IP Media Server. (brkt-5750)
	VoiceGenie files were not owned by "pw" after kickstart installation. (brkt-5806)

Known Issues and Limitations

The following are known issues and limitations in Dialogic® IP Media Server Release 2.6.0.

Functional Area	Description
Announcement Service	The maximum value of the "repeat" URI parameter for announcements is 250. If a larger value is supplied, only 250 repetitions will occur and the duration timer will not limit the announcement.
Apache	The Apache parameter MaxClients is currently set to 310.
Backup/Restore	The backup function does not back up the current user database. After a restore, the database will remain the same as it was prior to the restore.
Console	The following message might appear on the console of the IP Media Server: NFS mount version older than kernel This does not interrupt operation of the system, and can be ignored.
Error Messages	The error code contained in MSCML responses may not always indicate a failure (4XX) when the request does not conform to the MSCML grammar. This does not cause issues for the IP Media Server, but it may make application debugging more difficult.
	If establishing sessions using a complex codec (e.g., G.726, G.729ab) on the EDP–10 processing card, be aware that it takes about one minute for the card to initialize after the rest of the IP Media Server is up and running. If calls that require a complex codec are placed during this initialization period, the following SIP response will be returned: 480 BUSY HERE.
	The Fido process may generate a core dump during normal process termination due to a problem in a standard Linux library. This occurs infrequently and is not harmful because the process is being shut down. (brkt-4161)
Interoperability	Conference participants using certain Cisco phones may hear a click at regular intervals if the session timer is set on both the IP Media Server and the phone. Disabling the Session Timer on the IP Media Server is an acceptable workaround.
Logging	In VXML, the transferred calls do not show up on the statistics page of the Web UI. (brkt-3509)
	It is possible during MS Accounting operation that the msAccountingLogOverallMax and msAccountingLogIntervalMax could be different values in sample entry when msAccountingLogOverallMax is first viewed. (CQ54482)

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Media Processing	The Dialogic® IP Media Server supports an RFC–1890 compliant version of G726–32 with a payload as specified in ITU-T Recommendation I.366.2 Annex E. This is the reverse of what is currently specified in RFC-3551 for G726-32. (brkt-6180)
	The IPMS does not support CNG tone clamping within a conference. (CQ53860)
MSCML	A maximum of 16 direct URL references can appear in an MSCML <play>, <playcollect> or <playrecord> request. However, these direct references can expand to a URL list, so the effective limitation is 250 prompts in a single request using this indirect method. A SIP request would look like: sip:annc@MS_IP; play=http://appserver.carrier.net; prompt=afterhours The IP Media Server first retrieves the sequence of URLs from the application server and then fetches the audio files. The audio file list must include the URL scheme and the full path to the files. (brkt-3444)
	The IVR and MSCML play queue that can be encased within the <prompt> and </prompt> keywords can only be 16 files deep. (CQ 54271)
MRCPv2	The IP Media Server has been qualified against a third party MRCPv2 server for test-to-speech (TTS) and Automatic Speech Recognition (ASR) services. A threshold of MRCP resource usage can be met, which may lead to MRCP server latency, socket corruption and/or other adverse affects. These limitations on the MRCP server can result with instability within the IP Media Server MRCPv2 client that may result in a segmentation fault. Proper profiling should be carefully considered while estimating capacity requirements for a given solution.
Networking	During a software update to a Red Hat Enterprise Linux ES 4.0 system, the IP Media Server may lose network connectivity. In this rare event, reboot the IP Media Server.
	If the following command is entered: ssh -l maint MS_IP the connection is closed right away (TCP socket goes away). This issue does not happen under Red Hat Enterprise Linux. A workaround is to regenerate the public and private ssh host key files. (brkt-5965)
SIP	The IP Media Server does not support sequential late media re-INVITEs with hold SDP. (brkt-4905)
	The call-id is currently limited to 63 characters. (brkt-4952)
	The IP Media Server requires at least one m= line in an SDP body. (brkt-4996).
	The IP Media Server SIP implementation limits the size of

Functional Area	Description
	some header fields to conserve memory, even though the SIP specification does not have such a limitation. The SIP RFC does not dictate maximums for these fields. This is planned to be changed in a future release. (brkt-5016)
	The IP Media Server does not respond to messages that have missing or malformed required header fields. This includes, but is not limited to, the TO and FROM headers. (brkt-5124)
	The total length of the string passed from SIPD to VXML is limited to 1024 bytes. This string includes the request-URI portion of the request line, the user name portions of the from and to headers, the content of the top-most diversion header, the entire "to" and "from" headers (including parameters), the call-id, the audio and video codecs, the hostname, port value of the audio RTP destination, and keywords. (brkt-5399)
	H.263 video is offered by the IP Media Server for late media invites when "Offer Video Codec" is configured to "None." A workaround is to manually edit the file Dialogic® IP Media Server configuration file and change the line "SDPVideoCodec=" to "SDPVideoCodec=None". (brkt-6428)
	The sipd application may dump core after kickstart installation. This issue does not occur after the Web UI is used to configure the network interfaces. (brkt-6350)
	With the "Media Server Availability via SIP Options" feature added in 2.4.0, the application/media_server_usage+xml Content-Type might return a packet larger than the negotiated MTU size. (CQ53885)
	An Early Announcment will return 404 status code when 1+ errors exist in CGI/URI file lists (CQ53928)
Video	It is not possible to have a video-only recording session with the IP Media Server. This is the case even if the silence timeout is disabled. (brkt-3837)
	If an original INVITE message does not have a video SDP section, and video SDP is then added in a re-INVITE message, the IP Media Server fails to create a video stream. This issue is seen only with the eyeBeam softphone, and that softphone has a configuration option that sends the video SDP in the original INVITE. (brkt-6380)
VoiceXML	The IP Media Server erroneously shows the message "cmp-proxy cannot be started" during startup. Upon login, the cmp-proxy is shown as running. (brkt-5687)
	In VoiceXML 2.0, if a requested file does not exist, no badfetch error is generated. (brkt-6376)