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NMS Release 1-1223

Release Date

2014-01-29

Highlights

- Added Auto Answer as permanent setting to a user device
- Added "site" as a field in Subscriber. Admin portal only for 1223.
- Better counting of available Agents for Agents Required setting
- Better OPTIONS handling logic
- Force un-hold on supervised transfer. Fix for issue of 1 way audio post transfer.
- NMS support for Call To Play for API
- NMS ability to send Collectd data direct to boss
- Better support to retain full contact info for use behind a SBC proxying registration
- Support for Email sending through API, support for customer SMTP settings
- Support setting custom ANI on API call requests
- Ability to play a message on Anonymous reject instead of error code
- Ability to send email on Missed call and Vmail box full cases.
- Added setting to remove silence in NMS audio playback during sentences. cisco SPA effected
- Corrected timezone logic in presence info for DND settings.
- New way to send calls between geo node. Uses headers instead of url encoded sip uri. Example: <http://goo.gl/2hAawt>
- Ability to pickup and retrieve calls across geo nodes
- Queued call data available on all remote nodes
- New method for keeping event data using 1 table per day
- Better DTMF handling when mixed with pcm audio
- Keep SDP Session ID consistent across session and media changes
- Better Delete support on most objects
- Better tracing lookup for some failed forward legs
- Added "Answer To Record" application to allow for dialing in to record a message direct

Database Changes

Table	Fields	Descriptions
`SiPbxDomain`.`registrar_config`	`auto_ans`	To specify auto answer for a device
`SiPbxDomain`.`subscriber_config`	`site`	To specify the site that a subscriber reside
`SiPbxDomain`.`subscriber_config`	`email_address`	Resized from 127 to 255
`SiPbxDomain`.`domains_config`	`smtp_host`,`smtp_port`,`smtp_uid`,`smtp_pwd`	To specify domain specific SMTP credential
`SiPbxDomain`.`territories`	`smtp_host`,`smtp_port`,`smtp_uid`,`smtp_pwd`	To specify territory specific SMTP credential
`SiPbxDomain`.`dialpolicies`	`dialpolicy_id`	Removed auto increment
`SiPbxDomain`.`dialpolicies`	PRIMARY KEY	Redefined as (`domain`,`dialpolicy`)
`SiPbxDomain`.`dial_policy_config`	PRIMARY KEY	Redefined as (`domain`,`name`,`dial_match`)
`SiPbxDomain`.`dialplans`	`dialplan_id`	Removed auto increment
`SiPbxDomain`.`dialplans`	INDEX `dialplan_id`	Removed
`SiPbxDomain`.`level1_access`	`accessid`	Removed auto increment

`SiPbxDomain`. `level1_access`	PRIMARY KEY	Redefined as (`login`)
`SiPbxDomain`. `huntgroup_entry_config`	INDEX `last_update`	Added
`SiPbxDomain`. `subscriber_config`	`ntfy_missed_call` and `ntfy_data_limit`	To control whether to send Notification E-Mail upon missed call or storage limit per subscriber
`SiPbxDomain`. `feature_config`	`error_info`	To mark orphaned entries
`SiPbxDomain`. `time_range_entries`	`error_info`	To mark orphaned entries
`SiPbxDomain`. `time_frame_selections`	`error_info`	To mark orphaned entries
`SiPbxDomain`. `huntgroup_entry_config`	`error_info`	To mark orphaned entries

Changes

NCS CPP Code

Issue #	Descriptions
	(1-1222x19) Enforce max SBUS FIFO by <SBusFifoSize> and changed its default from 10K to 100K
	(1-1222x30) Parse list of "admit" host from SBus Proxy status
	(1-1223x9) Correct missing implementation for MySQL Disconnect
	(1-1223x10) Added reporting of statistic via embedded collectd agent
	(1-1223x10) Added "PrefixForAdhoc" (default to "sip:adhoc.monitor.") and "ExpireSecForAdhoc" (default to 180) and the mechanism to auto purge Ad Hoc conference that has not been used after the ExpireSecForAdhoc since creation
	(1-1223x11) Correct setting of Conference Time Begin only upon Create but not upon Update
NS011281	(1-1223x12) By-pass responder lookup for Bridge-Hub/Spoke and start conference state immediately
	(1-1223x13) Some re-organization of the RTP Session initiation logic as an attempt to flush out RTP Session leak
	(1-1223x46) Added the system parameter <EventTablePerDay> (default to "yes") to create a new event table per day
	(1-1223x48) Correct Media Info leak from conditional compile issue that crept in at 1-1223x13
	(1-1223x49) Correct missing left over RTP Session pointer reset that caused RTP Port leak.

NMS CPP Code

Issue #	Descriptions
NS009635	(1-1223x1) Correct order of checking "Privacy" in INVITE before 1st Dial Translation, to allow <ShowCallerId> to be effective in the 1st Dial Translation
	(1-1223x2) Added `auto_ans` to `SiPbxDomain`. `registrar_config`
NS009942	(1-1223x2) Added `site` to `SiPbxDomain`. `subscriber_config`
	(1-1223x2) Added "Site Pickup" and "Site Group Pickup"
	(1-1223x3) Added support for 'Activate-Auto-Ans' and 'DeActivate-Auto-Ans' responder applications
NS0010289	(1-1223x3) Setting of Call Feature parameters by IVR lookup user by dial translated source user and host with fall back to calling device's owner
	(1-1223x3) Correct handling of individual device's Auto Answer upon Simultaneous Ringing or Dispatch
NS009176	(1-1223x3) Qualify counting of Logged in agent by their valid registration
NS009176	(1-1223x3) Upon not dispatchable from Call Queuing, attempt Forward Not Registered before falling back to

	Forward No Answer
	(1-1223x3) Disallow Call Pickup from MOH unless from SLA
	(1-1223x3) Apply same Device/Gateway matching logic to Out-Of-Dialog OPTION/NOTIFY as INVITE
	(1-1223x3) Apply Reject Logic to INVITE/OPTION/NOTIFY with Wrong IP
	(1-1223x4) Correct over-tightened checking for Wrong IP logic to properly handle address with port specified
NS010456 NS010457	(1-1223x5) Force UnHold upon completion of Supervised Xfer
	(1-1223x5) Correct a crash upon Supervised Xfer crept in at 1-1223x3
NS010433	(1-1223x5) Correct handling of Wrap Up Time for Hunt Group Entry belonging to more then one queue
	(1-1223x6) Startup SBus Service before EMail Service to avoid missing startup email sent via "email_server" by SBus Request
	(1-1223x6) Added support for "call_to_playback" action for the "call" object from SBus Request
NS009276	(1-1223x7) Send reinvite to recipient device after attended transfer to update From header to transferred party
	(1-1223x8) Corrected "Call-To-Play" responder app to not interfere with "Call-To-Announce"
NS010192	(1-1223x8) Resized `email_address` in `SiPbxDomain`.`subscriber_config` from 127 to 255
NS010239	(1-1223x9) Qualify System Parameter <MohRandomOffset> by per domain "Random MOH" knob
	(1-1223x9) Correct missing implementation for MySQL Disconnect
NS010623	(1-1223x10) Correct handling "Call Queue Add Header" application when transitioned via Mutli Tier AA
NS010695	(1-1223x10) Remove re-try for SBus Send
NS010515	(1-1223x11) Set Term Sub and Term Domain by forward Connection as when appropriate
	(1-1223x13) Added extra traces for media IP address logic
	(1-1223x14) Added conditional compile (default to off) for WebSocket
NS010464	(1-1223x14) Scrubbed the clean and auto delete of associated Hunt Group and Hunt Group Entries upon delete of a Call Queue
	(1-1223x15) Undo stripping of "." (i.e. period) from user part
NS009370 NS009742 NS010829	(1-1223x16) Correct missing initialization of the Media IP map attached to each Call Leg
	(1-1223x17) Qualify logic for "RelnvUpdRspCache" to not cache Rsp with SDP that signal HOLD. This correct the root cause for post Supervised Transfer staying in HOLD
	(1-1223x17) Added "restricted" to default value for "SipPrivacyUsers"
NS010383 NS010596	(1-1223x17) Correct Orig Call-ID replacement logic, which is applied during Transfer. This correct issue with Audio Monitoring post Supervised Transfer
NS010960	(1-1223x18) Correct setting of Call Screen Admin control via SBUS Update to Subscriber object
NS011046	(1-1223x18) Tweaked Batch Start Time and Term Call Id setting in CDR for better tracing of failed call
NS011060	(1-1223x18) Added option for "NoAltRte404" and "NoAltRte408"
	(1-1223x19) Corrected a Session Key issue the prevent Audio Monitoring of a pre-transferred call
	(1-1223x19) Consolidating the the generation for SDP for local media by various states
	(1-1223x20) Correct Batch Duration broken since 1-1223x18
	(1-1223x21) Send all entry from "status" by embedded Collectd agent toward BOSS. Controlled by system parameter <CollectdAgentEnabled> (default to "yes")
NS010962	(1-1223x21) Recoded SBus Send/Publish FIFOing structure and logic
NS010897	(1-1223x21) Correct the used of "subscriber_events" when updating subscriber's configuration
	(1-1223x22) Added DNS Lookup of collectd server by embedded collectd agent
	(1-1223x22) Added reporting of percentage statistics via embedded collectd agent

	(1-1223x22) SBus sender count 404 response but dropped associated message
NS011027	(1-1223x23) Added System Parameter "ReqUriCleanedContact" The default is "yes", which preserve previous code behavior, which clean the Contact to remove any parameters after the host:port from the URI. If set to "no", the entire contact URI within 1st pair of angular bracket from Register will be stored and be used for new INVITE. Similarly, the entire Contact URI within 1st pair of angular bracket from received Contact Header will be applied in subsequent Request during each SIP Session
	(1-1223x24) Correct missing `smtp_host`, `smtp_port`, `smtp_uid`, `smtp_pwd` in `SiPbxDomain`.domains_config` and `domain_update` table create statement
NS011122	(1-1223x24) Increment MOH File Index upon opening of each file, instead of upon closing, to cause each MOH On-set to play a different file sequentially for Non-Random and Non-Continuous MOH.
	(1-1223x25) Correct a corner case introduced in 1-1223x23 in the manipulation of the Request URI upon CANCEL when there was no Contact header in prior responses
NS008475 NS011033	(1-1223x25) Added support of "ani" and "cbani" parameters, to set the Call Out ANI and Call Back ANI respectively to the SBus Request for action to "call"
N0019675	(1-1223x26) Correct missing post Dial Translation Display Name to OrigFromUri upon initial INVITE
NS011199	(1-1223x26) Correct handling of S-Ring to a single destination with confirmation required
NS009176	(1-1223x26) Rounded up the missing OOS state against the not dispatchable condition from Call Queuing
NS008719	(1-1223x27) Added "DRParameter" option to "record_account" responder to support "Answer To Record" responder application
NS010965	(1-1223x27) Pass translated Origination From-URI as Call Back ANI to spawned S-Rings Leg to prompt for confirmation
NS011261	(1-1223x27) Lookup account from latest Dial Translation Source result for Activation/Deactivation of Time Frame
NS010883	(1-1223x29) Added system option <AnncRejReason> (default to "no") to announce reason for Reject by User's Reject on specific caller, vs Reject Anonymous
	(1-1223x30) Added "date_created" to the `subscriber_update` table
NS011123	(1-1223x30) Added ANI to Subscriber Account lookup
NS011123	(1-1223x30) Added support for the Responder Application returns "AniCallSelfDomain" and AniCallSelfUser"
NS011123	(1-1223x30) Added support for the "Dialplan Return" application
NS010965	(1-1223x31) Upon Call Back for Confirmation or Call Screening apply the AOR User from the Origination INVITE, but preserve the Host part of the Route/Connection Translation result
NS011304	(1-1223x31) Replaced inconsistent reference to "SBusSendSubscriber" by "SBusSendSubscriberEvents"
NS010977 NS011150	(1-1223x31) Correct SQL fetch size for the Route Name from route_update db table
NS011335	(1-1223x31) Added Dial Translation tokens "OrigFromUriHost", "OrigFromUriUser", "OrigToUri", "OrigToUriHost", "OrigToUriUser", "OrigReqUri", "OrigReqUriHost" and "OrigReqUriUser" for use by translation operation to Connection's outbound address
NS011235	(1-1223x32) Added Registrar option token "LTrimReMatch" which Left Trim the HOST part of the From-URI and re-Match for Registrar Entry
NS011438	(1-1223x32) Clear WasMOH flag upon exit from Blind Xfer
NS006950	(1-1223x32) Correct sender info for VMail from On-net sender by the Owner of a Device instead of the Device
	(1-1223x33) Correct handling of expired registration upon inviting
NS009181	(1-1223x33) Added subscriber option to send Notification EMail upon storage limit being exceeded
NS009182	(1-1223x33) Added subscriber option to send Nofitication EMail upon missed call
	(1-1223x34) Add handling of multiple To EMail addresses when sending Notification EMail
NS008636	(1-1223x34) Remove RtpRelay cut through by 183 during S-Inviting
NS011474	(1-1223x35) Correct missing setting of "Move To" info to CDR when origination leg was resolved as Connection instead as User

NS010530	(1-1223x36) Reapply same SDP in 200 OK as in a prior 183 and then additional re-INVITE when re-directing an Inviting call to be answered by local media
NS011407	(1-1223x36) Bias the existing relay port of the Xfer-target (i.e. Retriever in case of Call Retrieve from Queue) upon Supervised Xfer if its NatWan is configured for Fixed.
	(1-1223x37) Delete associated Devices, Features Time Frame Selections, and Time Ranges when deleting a subscriber
	(1-1223x37) Mark orphaned Huntgroup Entries, Features, Time Frame Selections, and Time Ranges as "Not loaded" upon application start up
NS011445	(1-1223x38) Added the option controlled by system parameter <PlaybackFillSilGap> (default to no) to fill silence gap in between synthesized audio sentences playback. Also option to use PCM u-Law Silence vs Comfort Noise to fill the gap, selected by system parameter <PlaybackFillWithCN> (default to no, i.e. use PCM u-Law Silence), and the option to prime the stream with by <PlaybackPrimingSize> (default to 5 packet) number of silence/noise packets
NS011567	(1-1223x39) Added support for Token substitution for a Connection outbound Request and To URI
NS011547	(1-1223x39) Added system parameter "DispatchFlushMoh" (default to yes) to flush MOH upon successful dispatch from queue. This will reset prior MOH state, e.g. directory and continuation state. This allow a call dispatched from a queue to an agent to play the agent's MOH if placed on hold by the agent subsequently.
NS011569	(1-1223x39) Correct missing Record Route logic when forming ACK for Session T/O events, which also handle codec selection update upon Audio Monitoring
NS010965	(1-1223x39) More tweaking of From-URI in outbound INVITE from spawned session to request answer confirmation
NS011054	(1-1223x39) Correct missing TZ reference in background DND scanning
	(1-1223x40) System parameter <SBusSendCallQueueEvents> (default to no) to replicate Call Queue Entries across SBUS. (This is the ground work but not the full function to support Call Retrieve and Pickup across Geo nodes !)
NS011548 NS011577	(1-1223x41) Added P-Asserted-Service, P-Served-User and P-Visited-Network-ID for Geo Tunneling operation to allow Req-URI, From-URI and To-URI to keep the original form (This change is incompatible with prior Geo Tunneling method, and would require Geo nodes that need Geo Tunneling be upgraded together)
NS011577	(1-1223x41) Added support for Call Retrieve across Geo nodes
NS010965 NS011564	(1-1223x41) Added "CallerCidEmgr", "CallerCidName", "CallerCidNmbr", "CallerDomain", "CallerName" and "CallerUser" Dial Translation Tokens
	(1-1223x42) Added <GeoTunnelVer> (default to 0) where "0" utilize the translated URI format while version "1" is utilize the non-translated URI but signal with P-Visited-Network-ID
	(1-1223x42) Correct EMail service request to "Send" instead" of "Publish" via SBUS
NS011526	(1-1223x42) Added support for Call Pickup across Geo nodes
NS011526	(1-1223x43) Stabilized Geo Call Pickup
NS010965	(1-1223x43) Apply Dial Plan upon dispatch from HG to Translate From URI, in case <OutForcCidRplc> is no
	(1-1223x44) Added global system parameter <WanGW> to provide the same effect as assigning <WanGW> token to every connection, and then the addition connection token <NoWanGW> to exclude any connection <WanGW> by this global setting as well as the local <WanGW> connection token.
NS011557	(1-1223x45) Improved DTMF collector debouncing logic to better handle PCM interleaved with RFC2833 Events
	(1-1223x46) Added the system parameter <EventTablePerDay> (default to "no") to create a new event table per day
NS009357	(1-1223x47) Correct missing CDR upon failure cases in the 1st Call Leg for Call Back
NS011564	(1-1223x48) Dial Translation token CallerDomain/CallerUser applies Origination Gateway's Domain/Rate-Account if the Caller is not on-net
	(1-1223x49) Set the default for <EventTablePerDay> default to yes
	(1-1223x49) Correct crash condition upon attempting to signal local SDP to WanGW with RTP Relay disabled
	(1-1223x49) Correct Geo Remote Call Pickup from Call Queue
NS011916	(1-1223x50) Correct insertion of Reject but not blocked new entry to Reject Log

NS011868	(1-1223x51) Correct Hunt Group Ordered S-Ring when 1st set of Hunt Group Entries are not available
NS011919	(1-1223x53) Correct qaulifying continuation of Presence Subscription by Registration status by the registered AOR instead of the possibly Geo extended URI in the SUBSCRIBE message
NS011919	(1-1223x53) Correct the logic in checking for presence change to publish across SBus, which previously missed some transistion
NS012050	(1-1223x54) Keep SDP Session ID consistent across session and media changes
NS012094	(1-1223x55) Added system parameter <GeoRegMigBefExp> (default to "no") to allow geo migration of registration to remote node before expiration of prior local registration

UI Code

Issue #	Descriptions
	(1-1223x2) Added "Auto Ans" option to the Device page
NS009942	(1-1223x2) Added `site` to `SiPbxDomain`.`subscriber_config`
	(1-1223x3) Added "OPTION" to Method drop down box for Reject Log
	(1-1223x5) Added "Wrap Up Time", "Call Limit" and "Confirm" column for "Huntgroup Entry vs Huntgroup" table
NS010192	(1-1223x8) Resized `email_address` in `SiPbxDomain`.`subscriber_config` from 127 to 255
NS0010158	(1-1223x9) Added `smtp_host`, `smtp_port`, `smtp_uid`, `smtp_pwd` to `SiPbxDomain`.`territories` and `SiPbxDomain`.`domains_config`
NS0010158	(1-1223x9) Added UI Config "DOMAIN_SHOW_SMTP" (default to "no") to show SMTP Configuration per Domain
NS0010158	(1-1223x9) Added UI Config "TERRITORY_SHOW_SMTP" (default to "no") to show SMTP Configuration per Reseller
NS010798	(1-1223x10) Scrubbed error checking against invalid input and provide some error response
NS010224	(1-1223x10) Remove auto increment to `dialpolicy_id` in `SiPbxDomain`.`dialpolicies`
NS010224	(1-1223x10) Redefine PRIMARY KEY to `SiPbxDomain`.`dialpolicies` as (`domain`, `dialpolicy`)
NS010224	(1-1223x10) Redefine PRIMARY KEY to `SiPbxDomain`.`dial_policy_config` as (`domain`, `name`, `dial_match`)
	(1-1223x12) Added option to select whether to includ OAuth in Configuration Backup
	(1-1223x12) Recoded Time Zone calculation to use any database query
	(1-1223x13) Remove auto increment to `dialplan_id` in `SiPbxDomain`.`dialplans`
	(1-1223x13) Dropped INDEX `dialplan_id` from `SiPbxDomain`.`dialplans`
	(1-1223x14) Redefine PRIMARY KEY to `SiPbxDomain`.`evel1_access` as (`login`)
NS011027	(1-1223x23) Added UI Config "UI_REGISTRAR_CLEAN_CONTACT" (default to yes), but if set to "no" will show the actual registered contact stored
NS011151	(1-1223x24) Initialize "Date Created" when adding a new User or Device
	(1-1223x25) Update the db library to better handle the count value for tables with huge data set
	(1-1223x26) Backend support for AWT stat in call center
	(1-1223x26) Summary support for call center statistics per domain for use by call center dashboard.
NS011295	(1-1223x31) Correct case sensitive logic when modifying entries
NS009181 NS009182	(1-1223x33) Added `ntfy_missed_call` and `ntfy_data_limit` to `SiPbxDomain`.`subscriber_config`
	(1-1223x36) Added `error_info` to `SiPbxDomain`.`feature_config`, `time_range_entries`, `time_frame_selections` and `huntgroup_entry_config`
NS011615	(1-1223x40) correct deletion of default moh from admin portal
	(1-1223x40) Added "Queued At" parameter to Call Queue Entries
	(1-1223x41) Allow LCR sbus rate request for geo enabled servers, previously disabled.

NS016670	(1-1223x42) Correct missing URL encode for Subscriber page selection links
NS011697	(1-1223x43) Added Purge function to Reject Log page
NS011628	(1-1223x44) Correct missing language field for Admin Account Import when UI_SHOW_LANGUAGE_CHOICE is "no"
	(1-1223x46) Added option (by system parameter <EventTablePerDay> default to no) to handle Event Table per Day
	(1-1223x47) Added option (by system parameter <EventTablePerDay> default to yes) to handle Event Table per Day for NCS
	(1-1223x48) Tweak in NMS and NCS Event Page to correct for Time Window margin that my push to a next day, and require extra table in case of Table Per Day. Also added the extra search for the legacy table if it exist even in case of Table Per Day, for better backward compatibility.
	(1-1223x50) Set the default for <EventTablePerDay> default to yes in the UI for the NMS
	<p>Added System Update To 1-1223</p> <ul style="list-style-type: none"> • Add `auto_ans` to `SiPbxDomain`.`registrar_config` • Add `site` to `SiPbxDomain`.`subscriber_config` • Resized `email_address` in `SiPbxDomain`.`subscriber_config` • Added `smtp_host`, `smtp_port`, `smtp_uid`, `smtp_pwd` to `SiPbxDomain`.`domains_config` • Added `smtp_host`, `smtp_port`, `smtp_uid`, `smtp_pwd` to `SiPbxDomain`.`territories` • Remove auto increment to `dialpolicy_id` in `SiPbxDomain`.`dialpolicies` • Redefine PRIMARY KEY to `SiPbxDomain`.`dialpolicies` as (domain, `dialpolicy`) • Redefine PRIMARY KEY to `SiPbxDomain`.`dial_policy_config` as (domain, `name`, `dial_match`) • Remove auto increment to `dialplan_id` in `SiPbxDomain`.`dialplans` • Dropped INDEX `dialplan_id` from `SiPbxDomain`.`dialplans` • Remove auto increment to `accessid` in `SiPbxDomain`.`level1_access` • Deleted PRIMARY KEY from `SiPbxDomain`.`level1_access` • Deleted INDEX `login` from `SiPbxDomain`.`level1_access` • Added PRIMARY KEY (login) to `SiPbxDomain`.`level1_access` • Added index to `last_update` in `SiPbxDomain`.`huntgroup_entry_config` • Added `ntfy_missed_call` and `ntfy_data_limit` to `SiPbxDomain`.`subscriber_config` • • Added `error_info` to `SiPbxDomain`.`feature_config` • Added `error_info` to `SiPbxDomain`.`time_range_entries` • Added `error_info` to `SiPbxDomain`.`time_frame_selections` • Added `error_info` to `SiPbxDomain`.`huntgroup_entry_config`

Responder

Issue #	Descriptions
	(1-1223x2) Added "Site Pickup" and "Site Group Pickup" applications
	(1-1223x3) Added 'Activate-Auto-Ans' and 'DeActivate-Auto-Ans' applications
	(1-1223x6) Added 'Call-Play-Account' application
	(1-1223x8) Corrected "Call-To-Play" responder app to not interfere with "Call-To-Announce"
	(1-1223x9) Added 'Passthru ANI To Connection' application
NS008719	(1-1223x27) Added "Answer To Record" application
NS011123	(1-1223x30) Added "Dialplan Return" application
NS011400	(1-1223x31) Correct description for "HotDesk-Signon" from "Device Info" to "HotDesk-Signon"
NS011526	(1-1223x42) Set Call Pickup Transition for Case 1 to Talking to support Geo Pickup

API

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Issue #	Descriptions
	Added "email_service"
	Added "call_to_playback" action to the "call" object
	Added SMTP Option to "email_service" per Domain, Territory or System-wise
	Added Audit log support

Audio Files

Audio Files	Descriptions
phrase-auto-ans-is-enabled.wav	Auto Answer is now enabled
phrase-auto-ans-is-disabled.wav	Auto Answer is now disabled
phrase-decline-anonymous.wav	The customer you are calling does not accept anonymous calls
phrase-decline-blocked.wav	You are calling from an invalid number

Upgrade Procedures

- System > Backup and Restore > Code Upload
 - Upload from: **nms-1-1223-u12_64.tar.gz**
 - Click "Upload Code"
- System > Backup and Restore > Code Upload
 - Upload from: **Nms_UI_1-1223.tar.gz**
 - Click "Upload Code"
- System > Backup and Restore > Code Upload
 - Upload from: **ncs-1-1223-u12_64.tar.gz**
 - Click "Upload Code"
- System > Backup and Restore > Code Select
 - Click "Change"
 - Select
 - SiPbx Filename: **nms-1-1223-u12_64**
 - NCS Filename: **ncs-1-1223-u12_64**
 - UI Filename: **Nms_UI_1-1223**
 - Click "Apply"
- System > Backup and Restore > Archive Upload
 - Upload from: **Responder_1-1223.nca**
 - Click "Upload"
- System > Backup and Restore > Configuration Restore
 - Restore from: **Responder_1-1223**
 - Click "Restore"
- Untar **Audio_1-1223.tar.gz** to /usr/local/NetSapiens/default/audio
- **Add wildcard ignore to db replication for NCS's event table per day by adding to /etc/mysql/conf.d/netsapiens.cnf**
 - **replicate-wild_ignore-table=NcsDomain.event%**
- Refresh browser to make system updates available in UI
- System > System Update > To 1-1223
 - If there is no confirmation message, repeat this step.
 - Note: All intervening DB updates must also be applied (e.g., To 1-1199 ... To 1-1223).
 - Note: DB error messages can safely be ignored.
 - Note: Requires tac login.
 - Important: Apply at both sides of an HA pair.

- Restart NMS and NCS to activate the new version