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NMS Release 1-1203

Release Date

2010-09-22

Summary

This is a NCS heavy release with MAJOR enhancements in conferencing features and performance. Minor tweaks in the NMS, mainly minor bugs and simple admin portal tweaks also were included. This version also has a new file replication app that should be installed with it to fix some small timing issues in the synchronization.

Highlights

- Conference Features
 - Sign In or Promote Mid Conference to Leader or Speaker
 - Mid Conference Record On/Off via DTMF
 - Mid Conference Mute On/Off and Volume Control via DTMF
 - Hold Participants in MOH until Leader join conference
 - Request and announce Participants name
 - Lock/Unlock Conference
- Handle of initial INVITE with no SDP, but come in ACK
- Constraint BTN to be used for LERG classification, but retain original From-URI in Source Routing
- Added handling of 300 Response
- Export/Import "Config UI", "Parameters", "Default Values", and "Admin Account"
- Auto PIN and Authentication Key generation when adding Subscriber/Device/Connection

Resolved Issues

Issue #	Issue Type	Descriptions
NS001339	Feature	Conference Call Features
NS001660	Defect	voicemail prompting incorrect for Do Not Disturb
NS001698	Defect	Ability to keep people out till the leader logs in
NS001685	Feature	Leader Login and PIN for conferences
NS001708	Feature	ANI recognition with out fall back
NS001717	Defect	Un-initialized variable by_uri in the call queue setup
NS001773	Defect	"DelSdpIn180" is stripping 183 messages as well
NS001736	Defect	Dial Translation Host not working for Remote Calling.
NS001743	Defect	missing pac code after attempted transfer to a 486
NS001745	Defect	Can't download call traces
NS001467	Feature	Improved performance and capabilities in Downloading call center stats

NS001753	Feature	Default to random number on device creation
NS001754	Defect	Web UI Tac Login Dial Translation change of domain
NS001755	Defect	Web UI Tac Login Dial Translation - Adding new dialplan chain
NS001759	Defect	Unable to delete MoH file
NS001761	Defect	Directory listing is not updated by change in Subscriber Dir Match
NS001766	Defect	Can't import devices
NS001774	Defect	User Panel Presence Update Problem
NS001778	Defect	Subsequent Request to INVITE with comma in Record-Route were truncated.
NS001789	Defect	Long from line causes no orig match
NS001791	Defect	Failing 300 Redirect

Database Changes

Table	Fields	Descriptions
`DiagDomain`.`status`	`cnt_sbus_snd`, `cnt_sbus_rcv`	To count SBus Send and Recieve
`DiagDomain`.`pool_limit`	`cnt_sbus_snd`, `cnt_sbus_rcv`	pool_limit use the same Table Create Statement as `status`
`NcsDomain`.`participant_config`	`gain_tx` and `gain_rx`	Audio Tx and Rx Gain for individual Conference Participants
`NcsDomain`.`participant_config`	`auto_con` and `auto_dsc`	Select Auto Connection and Auto Disconnect for individual conference Participants
`NcsDomain`.`conference_config`	`leader_required`	Select whether a Leader is required to start a Conference Session, and whether it can continue without the Leader
`NcsDomain`.`conference_config`	`request_name`	To enabled/disable whether Participants are required to say their name before entering a Conference
`NcsDomain`.`conference_config`	`lock_part`	To freeze the current list of Participants in the current Conference Session
`NcsDomain`.`conference_config`	`annc_part`	To disable/enable announcement of arrival/departure of Participants for the current Conference Session
`NcsDomain`.`conference_config`	`mute`	Mute all Participants (except Leader and Speaker) in the current Conference Session, and disable UnMute by individual Participants
`NcsDomain`.`conference_config`	`speaker_pin`	PIN to authenticate a Conference Speaker
`NcsDomain`.`conference_config`	`domain`	To allow UI to filter conferences by `domain`

Changes

NCS CPP Code

Issue #	Descriptions
NS001685	(1-1203x7) Distinguish Participant vs Leader login by the Participant vs Leader PIN
NS001339	(1-1203x7) Added Mid Conference Action by DTMF to Mute/Unmute Self or All Others
	(1-1203x7) Added Mid Conference Action to change itself from Participant to Leader
NS001339	(1-1203x7) Added Mid Conference Action to Call or Disconnect All Other Participant
NS001339	(1-1203x7) Add Mid Conference Action to turn Conference Recording On or Off
NS001685 NS001698	(1-1203x8) Added Conference Option "Leader Required" and to keep Participant in Music-On-Hold until a Leader has signed in
	(1-1203x9) Added Session Timer to MOH State
	(1-1203x11) Add participant role "Speaker" authenticated by the "Speaker PIN"
	(1-1203x11) Conference Muting leave all Leaders and Speakers unmuted, and disable action to unmute by normal participants
	(1-1203x11) Add Mid Conference Action to turn announcement (i.e. Arrival and Depart Tone) On/Off/Toggle
	(1-1203x11) Add Mid Conference Action to turn Conference Lock On/Off/Toggle. When a conference is locked, no new participants not already on the list be allowed to join the conference.
	(1-1203x11) Add auto reset of Conference parameters (Announce, Mute All, Lock) upon 1st participant/speaker/leader joining the conference
	(1-1203x12) Added Participants packet statistic report to Responder Trace
	(1-1203x13) Added announcement of active participants count
	(1-1203x14) Added "Name Request" logic to request caller to record its name and to announce the participant name upon joining and departure
	(1-1203x15) Added "List Participant" to announce the list of current active participants
	(1-1203x16) Distributed Conference among multiple Conference Worker Threads
	(1-1203x18) Added Tx and Rx Gain adjustment by Mid Conference Action
	(1-1203x19) Make available the adjustment of Conference Participant Tx and Rx Gain from the UI
	(1-1203x21) Added `domain` field to Conference

NMS CPP Code

Issue #	Descriptions
	(1-1203x1) SBus listener return 200 OK for looped back message
	(1-1203x2) Added processing statistic count for SBus Snd and Rcv
	(1-1203x3) Route and Route Connection update throttle back when SBus FIFO reaches high water mark

NS001717	(1-1203x4) Correct uninitialized ByUri in CDR for session spawned form Active Call Action "xfer_orig"
	(1-1203x5) Correct SBus listener event initialization to be re-entrant
NS001773	(1-1203x6) Correct DelSdpIn180 to only affect 180 and not 183
NS001736	(1-1203x6) Call Back delay setting of ToHost by Subscriber's Host until 200 Ok for 1st Call Leg
NS001743	(1-1203x10) Correct missing propagation of PAC upon a Re-Queue after a 486 that has prior 183
NS001761	(1-1203x11) Correct handling of Subscriber's Directory Match update to Directory Listing
	(1-1203x12) Added logic to start up RTP Relay from belayed SDP in 200 OK but absent in initial INVITE
	(1-1203x13) Add Translation logic to Connection's Authentication User, so that it can accept something like "[*]"
	(1-1203x13) Constraint the use of BTN in Routing only for the LERG Class Lookup, but apply the translated From URI for Source Route.
NS001778	(1-1203x14) Correct processing of comma in Record-Route to construct Route headers in subsequence SIP Request
NS001774	(1-1203x20) Preserve `portal_status` in `subscriber_config` upon update to other fields
	(1-1203x20) Added "Action By" to "Call To Listen" (used by Audio Monitoring)
NS001789	(1-1203x21) Removed length limitation in matching From-Uri
NS001791	(1-1203x23) Added handling for 300 Response the same as 301 & 302.

UI Code

Issue #	Descriptions
	(1-1203x1) Added processing statistic count for SBus Snd and Rcv
	(1-1203x3) Added Export/Import to "Config UI", "Parameters", "Default Values", and "Admin Account" pages
	(1-1203x5) Added "Show Empty Routes" to the Admin's Route page
	(1-1203x6) Added Route Name to Term Info Pop-up
	(1-1203x7) Added Auto Connection and Disconnect to Conference Participants
NS001745	(1-1203x11) Replace times_ts by for event_time for Event sorting
NS001754	(1-1203x11) Disable changing of Dial Plan Domain
NS001754	(1-1203x11) Preserve all parameters when adding new Dial Entry that require Chaining
	(1-1203x11) Added Conference setting Speaker PIN, Request Name, Lock, Announce and Mute
NS001766	(1-1203x12) Correct Subscriber Count in Subscriber Import's logic to distinguish subscriber only vs subscriber+device import
NS001759	(1-1203x13) Added a missed "flush" in the MOH page of its temp db before re-scanning the MOH directory for the selected subscriber
	(1-1203x19) Correct Field Name drop down in Default Value page for `conference_config`

	(1-1203x19) Make available the adjustment of Conference Participant Tx and Rx Gain from Conference Admin UI
	(1-1203x20) Explicitly specify "By User" in addition to "At Device" when requesting Audio Monitoring
	(1-1203x21) Added `domain` field to Conference
NS001753	(1-1203x22) Auto generate Authentication Key for Device and Connection and PIN for Subscriber. UI Config DEVICE_AUTH_KEY_LEN specify Device/Connection Key length. Default is 8. UI Config SUBSCRIBER_PIN_LEN specify Subscriber PIN length. Default is 4.
	(1-1203x21) improved download capabilities of the queue and agent statistics
	<p>Added System Update To 1-1203</p> <ul style="list-style-type: none"> • Add `cnt_sbus_snd`` and `cnt_sbus_rcv` to `DiagDomain`.`status` • Add `cnt_sbus_snd`` and `cnt_sbus_rcv` to `DiagDomain`.`pool_limit` • Add `domain` to `NcsDomain`.`dialplans` • Add `gain_tx` and `gain_rx` to `NcsDomain`.`participant_config` • Add `auto_con` and `auto_dsc` to table `NcsDomain`.`participant_config` • Add `leader_required` to table `NcsDomain`.`conference_config` • Add `request_name`, `lock_part`, `annc_part` and `mute` to table `NcsDomain`.`conference_config` • Add `speaker_pin` to table `NcsDomain`.`conference_config` • Add `domain` to `NcsDomain`.`conference_config` • Update to `NcsDomain`.`conference_config`.`domain` as host part of `NcsDomain`.`conference_config`.`leader_login`

Responder

Issue #	Descriptions
NS001708	(1-1203x1) Added 'Prepaid CID Only' app
	(1-1203x2) Added "V-Mail w/o Prompt" app
NS001660	(1-1203x3) Change Do-Not-Disturb enable by "2" instead of "1"

Audio Files

Audio Files	Descriptions
phrase-announce-off.wav	Announcement off
phrase-announce-on.wav	Announcement on
phrase-conf-lock-off.wav	Conference Lock is off.
phrase-conf-lock-on.wav	Conference Lock in on.
phrase-currently-in-the-conference.wav	Currently in the conference are
phrase-has-left-the-conference.wav	has left the conference.
phrase-invalid-pin.wav	Sorry ! Your PIN is invalid.

phrase-joining-the-conference.wav	is now joining the conference.
phrase-leader-sign-on.wav	You are now a leader.
phrase-muting-all-off.wav	Muting all others off
phrase-muting-all-on.wav	Muting all others on
phrase-muting-off.wav	Muting off
phrase-muting-on.wav	Muting on
phrase-participants-in-the-conference.wav	participants in the conference.
phrase-recording-off.wav	Recording has stopped.
phrase-recording-on.wav	Recording has started.
phrase-speaker-sign-on.wav	You are now a speaker.

Upgrade Procedures

- "Upload UI" Nms_UI_1-1203.tar.gz
- "Code Select" UI "Nms_UI_1-1203"
- From tac login apply "System Update"->"To 1-1203" **(at both sides of a HA pair)**

- Archive Upload Ncs_db_1-1203.nca
- "Configuration Restore "Ncs_db_1-1203"

- Archive Upload Responder_1-1203.nca
- "Configuration Restore "Responder_1-1203"

- Upload and untar "Audio_Ccs_1-1203.tar.gz" to "/usr/local/NetSapiens/SiPbx/default/audio"

- "Upload Code" ncs-1-1203-f12_64.tar.gz
- "Upload Code" nms-1-1203-f12_64.tar.gz
- "Code Select" "ncs-1-1203-f12_64"
- "Code Select" "nms-1-1203-f12_64"