VoipNow 5.5.0

This document contains all the changes performed in VoipNow 5.5.0

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Important Notes

Deprecating Notice

Please read VoipNow Deprecating Notice before going further.

Before Upgrade

MySQL and Elasticsearch database

Upgrade from VoipNow version < 5.0.0

The new version contains significant MySQL and Elasticsearch database optimizations. Unfortunately, due to these improvements, a re-index is necessary, which might take hours on large databases. However, we made available a script that updates the databases to VoipNow 5.5.0, without downtime. Download this script:

```
https://www.4psa.com/software/voipnow5dbupgrade.sh
```

and run it on the Infrastructure Controller overnight or when the database is not heavily used.

System functionality will not be impacted while the script is running. Once the script has completed, you can proceed with VoipNow installation.

Once the Elasticsearch upgrade has started, calls will no longer be indexed in Elasticsearch (they will still be normally indexed in MySQL). After upgrading to VoipNow 5.5.0, call indexing to Elasticsearch will be resumed. Therefore, we recommend planning the database upgrade close to the actual upgrade.

Upgrade from VoipNow version >= 5.0.0

The upgrade is performed automatically during the installation.

Hubring database

If you are running a distributed setup with more than one Hubring node, please open a ticket in the 4PSA Support Zone for upgrade assistance.

Installation/Upgrade

In order to install or upgrade to VoipNow 5.5.0, please use this installer:

```
https://www.4psa.com/software/voipnow5installer.sh
```

This script can upgrade an installation of VoipNow 3.5 and newer versions. If you want to upgrade an older version, upgrade to VoipNow 4.1.3 first.

Limited Release Notes

The current release notes contain only the changes that in our opinion might affect existing VoipNow customers.

Legend
Features Enhancement Resolved

VoipNow 5.5.0 Release 210121 M1

Type	Details	Support Zone ID	JIRA Ticket ID
[+]	Added support for CentOS 8 and Red Hat Enterprise Linux 8. **This is the last version with support for CentOS 6 / Red Hat Enterprise Linux 6, which reached EOL on November 30, 2020.**	-	-
[+]	Added SystemAPI methods for scheduled conferences management.	-	HG-63641
[+]	Added phone provisioning support for Alcatel Lucent Enterprise models H2 and M3.	-	HG-64970
[+]	Updated SystemAPI / DelDevice method to return 'success' or 'failure' in response.	FUU-281500	HG-62494
[+]	Added System API method UnassignQueueRemoteAgent.	MFK-164123	HG-28940
[=]	Removed Call Now.	QUN-812252	HG-26987
[=]	Fixed call reports SQL query distribution to slave servers.	-	HG-64070
[=]	Update Polycom VVX configuration template.	-	HG-64176 HG-28259
[=]	Changed CallStatus to HANGUP for in Phone Call Events Hangup event.	UHQ-651432	HG-62510
[=]	Multiple updates in the platform Open Source stack.	-	HG-62928
[=]	Using mariabackup instead of mysqldump in all CLI backup scripts.	-	HG-65104
[=]	Improved security based on internal audit.	-	HG-65502 HG-65570 HG-65574 HG-65575 HG-65576 HG-65579
[-]	Fixed queue agents paused/un-paused for intervals larger than 34 days.	SVH-981754	HG-62499
[-]	Fixed PBX Server deadlock in refresh timers.	BOL-835964, LJE-495919	HG-62496
[-]	Old files are now visible in web management interface when S3 is configured with obsoleted AWS signature.	RZI-305601, BOL-835964	HG-62485
[-]	Fixed phone BLF (Busy Lamp Field) for parking.	CPX-670116	HG-62484
[-]	Fixed issue with conference that cannot be called from public phone network.	HTA-506607	HG-62475
[-]	Web interface skins are now correctly used.	-	HG-62964
[-]	Improved error message for invalid phone terminal password.	UZX-468991 SPF-830224	HG-29897
[-]	Removed routing rules prefixes from numbers in Call Recording page.	RLU-335817	HG-64220
[-]	Increased the number of characters accepted for 'transfer to' in ICR.	EPY-263679	HG-64189
[-]	Phone language code now supports ISO 639-1 codes.	-	HG-63863
[-]	Fixed issue when charging plan was removed after edit organization.	GCC-451621	HG-63301
[-]	Fixed typo in UnifiedAPI / ConferenceInvite method.	-	HG-63701
[-]	Increased the number of characters accepted in remote agent phone number field.	TFQ-480808	HG-62647
[-]	Fixed Phone Call Events *Answer on incoming call* and *Answer on outgoing call* (by the other party).	ZYP-816597	HG-63937
[-]	Fixed search in Public Phone numbers page.	EBG-955522, FVR-728082	HG-27332
[-]	Fixed language code validation in *Set language to a static value* in IVR.	-	HG-64231
[-]	Fixed validation of UnifiedAPI / phoneCallEvents, *filterBy* parameter.	-	HG-26317

[-]	Fixed verification of provided crypto lifetime.	VKC-190798	HG-63327
[-]	Fixed voicemail auto-answer on a call that previously exited to operator.	EMM-496692	HG-26399
[-]	Fixed date format in CallStatistics CSV export for daily stats.	-	HG-25493
[-]	New version update check considers the core components only.	-	HG-34255
[-]	Fixed SDP behavior when "m=video" is not present.	-	HG-20223
[-]	Fixed call recording issues when dealing with out of sync audio events.	-	HG-26952
[-]	Fixed voicemail getting the call that should have followed a preceding ICR.	IWI-990737, CSQ-323237	HG-62765
[-]	Fixed call waiting limitation for incoming channel calls.	BOS-550094	HG-64360
[-]	Fixed web management interface UI behavior in *Add schedule conference* - start hour/end hour	-	HG-64656
[-]	Fixed possible SIP Server crash.	Autoreport	HG-64553
[-]	Fixed call history records for organizations with 10 digits.	-	HG-64817
[-]	Fixed web management interface JS error in user groups search.	-	HG-64824
[-]	Fixed UnifiedAPI conference invite PIN and conference number handling.	-	HG-64673
[-]	Updated fail code in Failed Authentication Attempts.	-	HG-64825
[-]	Added multiple fixes to vnbackup and dbdump.	-	HG-65102, HG-65130, HG-65133, HG-65137
[-]	CLI scripts use Python 3.x.	-	HG-65181
[-]	Mapped GMT-12:00 to Pacific/Wake in phone provisioning time zones.	-	HG-65129
[-]	Fixed SIP Server Kerberos support warning on TLS init.	-	HG-65236
[-]	Fixed SIP Server crash on invalid TLS configuration.	Autoreport	HG-62973
[-]	Fix log rotation for HTTP server.	MNJ-866525	HG-65258
[-]	MySQL node root credentials are stored for reference in a fixed location .	-	HG-65528
[-]	Fixed CallerID Name when it was set by user.	KNB-543174	HG-65306
[-]	Avoid warnings on non numeric billing identifiers, cosmetic.	-	HG-65353
[-]	Corrected TTL for application authorization code.	RYP-177678	HG-65499

VoipNow 5.5.0 Release 200615

VoipNow Component

Type	Details	Support Zone ID	JIRA Ticket ID
[+]	Added global "Delete call quality information after X days" option.	-	VNP-62130 VNP-61593
[+]	Allow conference participants to start muted and then un-mute themselves.	-	VNP-64235
[+]	Improve event signaling when an extension answers a call.	-	VNP-64175 VNP-64098

[+]	Brute-force attackers on phone provisioning files are automatically blocked.	-	VNP-62756
[+]	Major upgrade of third-party platform components.	-	HG-22016
[=]	Allow hostname update for the Web Management Interface role on distributed environments.	ZUV-962451	VNP-62156
[=]	Multiple performance optimizations in Call Reports.	-	VNP-64510 VNP-64493
[=]	Added a mechanism to handle calls to a peer after receiving SIP 501 (Not Implemented).	OKK-173660	VNP-62290
[=]	Improved Call events timeout handling.	VXG-806870	VNP-62294
[=]	PBX Server sends channel qualify OPTIONS with port number to avoid an extra DNS SRV lookup.	OCA-105395	VNP-62502
[=]	Improved SIP Server compatibility with Avaya PBX.	FHK-556740	VNP-62510
[=]	Added channel ID in call history for failed calls.	-	VNP-62726
[=]	Added TCP timeout configurations in PBX Server, currently configurable in command line only.	ADB-585315	VNP-62765
[=]	Allow the configuration of presence subscription storage mode parameter in SIP Server.	-	VNP-62822
[=]	Amazon login using AWS Signature Version 2 will be deprecated for new buckets on June 24, 2020. The default signature is now AWS Signature Version 4.	-	VNP-62981
[=]	Improved Call Reports in web management interface, default 'Group calls by callID' option is set to 'No'.	JIT-486859 THS-832556 VYQ-350942 IZT-185875	VNP-63447
[=]	Fixed SIP Server memory leak localized in the internal communications module.	JYU-140700	VNP-63909
[=]	Removed phone provisioning files that used TFTP that was deprecated in the past.	-	VNP-61924
[=]	Removed encryption key management for IAX channels that was deprecated in the past.	-	VNP-64471
[=]	Removed VoipNow Automation, the product is EOL (End of Life).	-	VNP-64364
[=]	Improved behavior of queue agent logout and pause.	WCV-618776	VNP-59860
[=]	Improved Cloud Management input validation and processing.	NFM-854042	VNP-62493
[=]	Improved UnifiedAPI behavior.	KXG-626768 NZY-689607 XBU-186495	VNP-64162 VNP-64160 VNP-64131 VNP-64111 VNP-64108 VNP-54524 VNP-64183
[=]	Improved validation checks upon altering charging plans status.	-	VNP-64152 VNP-64151 VNP-64265
[=]	Improved security based on internal audit.	-	VNP-64114 VNP-64113 VNP-64103 VNP-63956 VNP-63837 VNP-63500 VNP-63464
[=]	Improved Queue Reports.	VJT-256104 VHB-543948 SEC-857408	VNP-64045 VNP-64043 VNP-64038 VNP-64035 VNP-64032 VNP-64030 VNP-63456 VNP-64039
[=]	Improved queue behavior by saving the correct CallerID for EXITWITHTIMEOUT event.	XPQ-279250	VNP-63965

[=]	Improved SystemAPI behavior.	-	VNP-63953 VNP-63943 VNP-63723 VNP-63076
[=]	Improved error messages and validation on outgoing routing rules import.	YJC-931052 RTM-809669	VNP-63594
[=]	Improved dropdown validation in searches.	-	VNP-62908
[=]	Improved search of scheduled conferences.	-	VNP-62795
[=]	Improved MySQL deadlock handling in web management interface.	-	VNP-62031 HG-14808
[=]	Improved Account Templates options.	-	VNP-51385
[=]	Improved IVR details in Call Reports so that each CalledDID can be traced.	DYS-972570 DYY-344474	VNP-50443 VNP-62557
[=]	Sending faxes from web management interface is now possible when the source extension has video codecs enabled.	-	VNP-62504
[=]	Multiple improvements in Hubgets interface.	-	HG-22445
[=]	Email sender is set to the custom email address setup in Email Templates Management.	FZS-836507	VNP-62519
[=]	Outgoing routing rule can be assigned when editing an account on user level.	-	VNP-62441
[=]	ICR rule "Transfer to voicemail" is available only when at least one organization user has voicemail enabled.	-	VNP-61938
[=]	Increased default maximum TCP connections for the SIP Server.	COD-432312	VNP-62715
[=]	Added support for anonymous authentication and authorization in SIP Server.	-	VNP-62858
[=]	CalledDID is displayed in Call Reports page for users.	-	VNP-62557
[=]	Hubgets extensions are now counted in Call Reports.	IZA-100637	VNP-61583
[=]	CallerID is preserved on the entire call chain when the queue has "Preserve original CallerID on transferred calls" enabled.	NXE-446952	VNP-61443
[=]	Allow the usage of compatible Amazon S3 storage providers.	IVB-939229	HG-17735
[-]	Send challenge from PBX Server to SIP Server for INVITES on non-trusted channels.	-	VNP-53589
[-]	For Incoming Call Rules matching call state "not answered", ask for caller name and confirmation (if set) only on ICR transfer target.	HUL-914690	VNP-57969
[-]	Fixed voice codec order on the second leg of the call.	-	VNP-58972
[-]	Fixed update of Customer Connectivity setting for role Infrastructure Controller.	NFM-854042 YVU-107822	VNP-61106 VNP-62493
[-]	When ICR target answers, hangup other ICR destination even if the call needs to be confirmed.	BTX-506333	VNP-61181
[-]	Fixed the detection of the IP address for RTP sent in video calls.	IZZ-942559	VNP-61676
[-]	Fixed handling of session timers refresh source for external incoming calls.	GKF-938701	VNP-62057
[-]	Fixed static extensions' incorrect removal in SIP Server due to NAT pinging on UDP or connection failure on TCP.	-	VNP-62070
[-]	Fixed concurrent call limits on virtualised phone call receiver.	UNH-585368	VNP-62213
[-]	Fixed possible PBX Server crash when unreferencing RTCP reference.	Autoreport	VNP-62222
[-]	Fixed "not enough credit" error at the beginning of the month.	PVQ-152252	VNP-62265
[-]	Fixed possible PBX Server crash in case of a REFER transfer of a destroyed channel.	ORQ-913464 AQN-741700 EPZ-219180 ONG-966252	VNP-62410 VNP-63105

[-]	Fixed possible PBX crash when changing peer channel technology.	Autoreport	VNP-62419
[-]	Fixed queue calling extensions using SRTP.	EUL-501712	VNP-62513
[-]	Fixed voicemail logic for calls dropped from queue after being transferred through an ICR.	XHB-399519	VNP-62541
[-]	Fixed several (X-*) custom headers on public incoming calls.	KMP-459289	VNP-62612
[-]	Fixed scheduling for options / keepalive / expires re-triggering for SIP Channels.	ADB-585315	VNP-62648
[-]	Fixed timeout on account removal caused by large call history.	KSP-620927 DBP-315890 NSF-527549 EGF-305065 TRE-248014	VNP-62663 VNP-62702
[-]	Fixed parking lot monitoring for distributed infrastructures with custom ports on the SIP Server.	-	VNP-62701
[-]	Fixed MIME type check for uploaded .tiff fax files.	-	VNP-62723
[-]	Fixed Distributed Database service stopped after critical fsync error.	-	VNP-62728
[-]	Fixed intercom application to select the correct destination proxy of the called extension.	EOF-743817	VNP-62747
[-]	Fixed possible PBX Server crash caused by call redistribution after local attended transfer.	IRZ-697456	VNP-62802
[-]	Fixed possible PBX Server channel deadlock.	XTR-347936	VNP-62815
[-]	Fixed SIP Server crash caused by failure to limit the number of contacts for an extension.	Autoreport	VNP-62817
[-]	Fixed CAPTCHA display when the number of allowed login attempts is reached.	-	HG-20837
[-]	Fixed the sending of emails for missed calls.	TTN-540545	HG-20027
[-]	Fixed incoming call costs when there is not enough credit for the organization.	JGU-744889	VNP-62271
[-]	Fixed media error on secondary call leg when an ICR is involved.	TPQ-816445	VNP-62235
[-]	Fixed charging for calls that played only announcements.	LJS-993212	VNP-62582
[-]	Maximum public concurrent call limits are no longer exceeded for incoming calls to DIDs that have ICRs to other extensions.	HHM-225816	VNP-62841 VNP-62854
[-]	Fixed possible PBX Server crash using session timers on channels.	-	VNP-62664
[-]	Fixed call recording enable/disable from a user account.	-	VNP-62598
[-]	Fixed email notifications sent for faxes. Now the global value 'Server hostname in fax approval emails' is used.	DJD-814226	VNP-61990 VNP-62107
[-]	Fixed SystemAPI method AddCallRulesIn to return error when invalid ICR rules are added.	-	VNP-61945
[-]	Fixed SystemAPI multiple issues on AddCallRulesIn/EditCallRulesIn methods.	-	VNP-62955 VNP-63198 VNP-61430 VNP-63197 VNP-63101
[-]	Fixed load calculation on nodes after organization delete.	-	VNP-63041
[-]	Fixed call numbers in reports for calls going through ICR.	NQC-772684 VIH-427348	VNP-55420
[-]	Fixed security issues in Call Reports.	-	VNP-62889
[-]	Fixed validation in interface for ICR cascade rules.	-	VNP-61921
[-]	Fixed MySQL InnoDB deadlock when removing or reordering ICR rules.	KOX-632321	VNP-61997
[-]	Do not allow changing the port of the Web Management Interface role from Cloud Management.	XIO-771243	VNP-57136

[-]	Fixed multiple Elasticsearch upgrade issues.	ZSE-628530 DAE-736728 YPT-626269	VNP-61173
[-]	Fixed adding Organization using subscription when storage is unlimited.	KNX-738429	VNP-64243
[-]	Fixed corner case when shared resources were still available after share was removed.	BCB-631029	VNP-64221
[-]	Fixed PBX Server billing cleanup.	-	VNP-64135
[-]	Fixed conference invite inconsistency.	-	VNP-63189
[-]	Fixed validation for ICR cascade transfer.	-	VNP-63033
[-]	Fixed handling of failure in the handling of unparking.	-	VNP-62777
[-]	Fixed exit codes when queue agent hangs up.	-	VNP-64047
[-]	Fixed calculation for call distribution in queue reports page.	-	VNP-64046
[-]	Fixed anonymous calls with *67 prefix: add PAI and RPID headers containing the public CallerID.	-	VNP-63988
[-]	Fixed handling for blind transfer under outgoing rule prefix.	-	VNP-63979
[-]	Fixed removing extension of partially integrated Hubgets user.	-	VNP-63861
[-]	Fixed login failure for users configured with a custom skin.	QUH-432329	VNP-63859
[-]	Fixed blind transfer when DID is prefixed in channel configuration.	AUK-182232	VNP-63850
[-]	Fixed voicemail for blind transfer from queue to extension with ICR.	KQD-357923	VNP-63807
[-]	Fixed Amazon storage signature computation with AWS Signature V4.	HBN-976369 YUM-902560	VNP-63760
[-]	Fixed issue that prevented Yahoo and Gmail accounts to use the email2fax option.	-	VNP-63724
[-]	Fixed text only emails that could have contained HTML tags.	-	VNP-63690
[-]	Fixed problems that prevented the upload of large CSV files containing channel costs.	LDE-843431	VNP-63593
[-]	Fixed file mime type detection on CentOS 6.	-	VNP-63490
[-]	No longer sending video codecs on secondary leg when no compatible video codecs were found on first leg.	-	VNP-63445
[-]	Use the timeout setup in ICR.	HXY-270938	VNP-63443
[-]	Fixed ICR on anonymous calls with PAI or RPID headers.	-	VNP-63160
[-]	Fixed behavior for repeated operations over client status.	-	VNP-63148
[-]	Fixed behavior for contact headers sent by SIP.	-	VNP-63131
[-]	Fixed SystemAPI method AddCallRulesIn to permit adding transfer rule for IVR and queue.	-	VNP-63101
[-]	Fixed customer connectivity fields validation for Private/Public IP Cloud setup.	-	VNP-63058
[-]	Fix SIP Server direct routing IP substitution.	-	VNP-63048
[-]	Fixed local calls behavior. 480 (Temporary unavailable) is not replaced anymore with 486 (Busy here).	-	VNP-62962
[-]	Fixed possible SIP Server crash.	PQB-666583	VNP-62911
[-]	Fixed DID value in SIP headers after the DID is changed by the PBX Server.	EHP-794980	VNP-61523
[-]	Fixed SIP Server Pike integration after the reactivation of blocked IP address.	SXM-290897	VNP-61473

[-]	Fixed cost and profit totals in Call Reports.	LVQ-387212	VNP-61058
[-]	Fixed behavior when extensions are added as remote agents.	WEA-287894	VNP-57924
[-]	Fixed preserve CallerID when using ICR and *2 transfer.	NDJ-303865	VNP-54808
[-]	Fixed call termination behavior.	-	HG-24701
[-]	Fixed the audio/video switching in Hubgets phone.	-	HG-24652
[-]	Fixed handling when both users pause call in Hubgets phone.	-	HG-23182
[-]	Fixed Hubgets phone in Safari.	-	HG-23138
[-]	Fixed video call resume from hold in Hubgets phone.	-	HG-21617
[-]	Fixed handling for users with no active organization subscription.	-	HG-16304
[-]	Fixed handling of concurrent queue call hang-up and call parking attempt.	-	VNP-64014
[-]	Fixed handling of subsequent anonymous requests during SIP signaling.	-	VNP-63307
[-]	Fixed SIP server script pseudo-variable memory leak.	-	VNP-62698