

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 <i>Answer on incoming call</i> and <i>Answer on outgoing call</i> (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 <i>Set language to a static value</i> in IVR.	-	HG-64231
	Fixed validation of UnifiedAPI / phoneCallEvents, <i>filterBy</i> 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 <i>Add schedule conference</i> - 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 ping 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