# VoipNow 4.0.0

This document contains all changes performed in VoipNow 4.0.0 version.

## Important Notes

### Deprecating Notice

Please read VoipNow Deprecating Notice before going further.

### Limited Release Notes

Since VoipNow 4.0.0 version is a major release, the current release notes contain only the changes that, in our opinion, might affect existing VoipNow customers.

Legend
Features Enhancement Resolved

## VoipNow 4.0.0 Release 151202

### VoipNow Component

| Type | Details | Support Zone Ticket ID | JIRA Ticket ID |
|---|---|---|---|
| [+] | Account email should be unique. ⚠ **As this might affect your installation, please review the VoipNow Upgrades Notes**. | | VNP-55355 VNP-55690 VNP-55882 |
| [+] | Preparation for Hubgets provisioning in VoipNow. | - | VNP-52288 VNP-56145 |
| [+] | Added support for multiple contacts per extension (SIP forking). | - | VNP-53704 VNP-55542 VNP-55546 VNP-55547 VNP-55558 |
| [+] | Added user management roles (owner, administrator, member). | - | VNP-56050 |
| [+] | Added ICE support (enable/disable) setting on channels. | - | VNP-54692 VNP-54695 VNP-55359 |
| [+] | Added support for php-fpm and Nginx statistics. | - | VNP-54924 VNP-55134 |
| [+] | Added wildcard support in SIP server alias matching. | - | VNP-55249 |
| [+] | Added application layer firewall to SIP server. | - | VNP-55252 |
| [+] | Added support for HTTP Load Balancer. | - | VNP-55335 |
| [+] | First name and last name are split for all account types. Improved management facilities for both fields. | - | VNP-55405 VNP-55406 VNP-55786 |
| [+] | Allow to enable/disable SIP presence and notifications using local.conf configuration directives. | - | VNP-55427 VNP-55502 VNP-55503 VNP-55508 VNP-55557 VNP-56570 |
| [+] | Add media encryption setting for both SDES and DTLS-SRTP. | - | VNP-55544 VNP-55613 |
| [+] | Allow to configure the number of workers for SIP server using local.conf directives. | - | VNP-55884 |
| [+] | Call quality information is indexed. | - | VNP-56096 VNP-56305 |
| [+] | Added support to call extensions while calls are waiting in queue. | - | VNP-56287 |
| [+] | Changed format for voicemails and recordings to mp3. | TVO-635660 QCL-719396 | VNP-53926 VNP-54715 VNP-55342 |

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| [+] | Improved the security of the password hashing. | | VNP-55202 |
| [=] | Improvements in SIP server DNS cache handling. | - | VNP-54473 |
| [=] | Multiple documentation improvements. | - | VNP-54651 VNP-55967 VNP-56186 VNP-56293 |
| [=] | Clear PHP caches in a less intrusive way, without killing the process. | - | VNP-55081 |
| [=] | Added support for AWS4-HMAC-SHA256 making Amazon S3 implementation compatible with newer Amazon zones. | - | VNP-55317 |
| [=] | Added meta information to VoipNow login page for a nicer preview. | - | VNP-55429 |
| [=] | Handle exceptions for situations when destination storage gets full during backup. | - | VNP-55484 |
| [=] | Added haveged to increase entropy on the servers in order to improve TLS handling. | - | VNP-55497 |
| [=] | Moved SIP server logs to /var/log/kamailio/ | - | VNP-55520 |
| [=] | Added challenge for extensions behind NAT when they try to place calls without registering first. | - | VNP-55539 VNP-55568 |
| [=] | Added video support to echo function that can be involved with *52. | - | VNP-55689 |
| [=] | Added PHP configuration for local customizable parameters. | - | VNP-55723 |
| [=] | Improved Intercom voice quality. | ZWX-149032 | VNP-55736 |
| [=] | Added Reason header text parameter in CANCEL requests for calls completed elsewhere. | - | VNP-55768 VNP-55769 |
| [=] | Added option to start s3queuegc daemon on any node within a distributed infrastructure. | - | VNP-55873 |
| [=] | Removed requirement to supply voicemail password in phone terminal extension templates. | - | VNP-55878 |
| [=] | Added saveEndDate and saveStartDate as filters in the UnifiedAPI CDRService. | VCH-385817 | VNP-55966 |
| [=] | Added partial support for multiple phone languages. | - | VNP-56162 VNP-56185 |
| [=] | Improved sounds quality. | - | VNP-56201 |
| [=] | A Diffie-Hellman group is generated to improve the security of TLS. | - | VNP-56276 |
| [=] | Improved usability with no ringing before queue answers call, when call comes from IVR. | - | VNP-56420 |
| [=] | Added X-voipnow-early: callapi header when 183 comes from UnifiedAPI. | - | VNP-55173 |
| [=] | Added support for application/media_control+xml mime type in SIP server. | - | VNP-55942 |
| [-] | Fixed possible issue on subsequent request routing in infrastructures with multiple PBX nodes. | YQK-117565 | VNP-53821 |
| [-] | Fixed OPTIONS not being sent properly on NAT infrastructure with SIP server listening on 0.0.0.0. | CRJ-142065 | VNP-53916 |
| [-] | Fixed CallerID setting on UnifiedAPI transferred calls. | PPF-386514 | VNP-54544 |
| [-] | Fixed possible issue with queue agents being considered unavailable. | ORD-600277 | VNP-54699 |
| [-] | Fixed ICREXTENSION check. | Autoreport | VNP-54739 |
| [-] | Extensions under a disabled user account are now able to place calls after a database restore. | - | VNP-54760 |
| [-] | Fixed SIP server DNS caching issue. | Autoreport | VNP-54881 |
| [-] | Multiple cosmetic fix to vnbackup. | YCH-128419 | VNP-54898 |

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| [-] | Fixed multiple reliability issues in PBX engine. | Autoreport | VNP-54965 VNP-55188 VNP-55238 VNP-55022 VNP-55301 VNP-55655 VNP-55846 VNP-55334 VNP-55386 VNP-55414 VNP-55487 VNP-55500 VNP-55501 VNP-55752 VNP-56028 VNP-56031 VNP-56032 VNP-56114 VNP-56170 VNP-56199 VNP-56234 |
| [-] | EditExtension SystemAPI method no longer requires password. | OZJ-847453 AMT-202800 | VNP-55044 |
| [-] | Multiple improvements in password strength algorithm. | GS | VNP-55112 VNP-55358 VNP-55960 |
| [-] | Fixed several SIP server memory leaks. | Autoreport | VNP-55137 |
| [-] | Fixed guiding messages in SQL node installation script. | - | VNP-55176 |
| [-] | Fixed channel language on queue agents calls. | CTV-136672 | VNP-55214 |
| [-] | Fixed exception on SIP server shutdown. | - | VNP-55224 |
| [-] | Allow on demand recording start (*1) for calls that were transferred through IVR. | - | VNP-55247 |
| [-] | Fixed setting duplicate codecs on extension configuration. | - | VNP-55254 |
| [-] | Fixed To number in Call Flows. | BBE-280514 OMI-226917 CYQ-495692 DWP-681316 YSF-545710 | VNP-55286 |
| [-] | Multiple improvements to WAF (Web Application Firewall) rules. | - | VNP-55290 |
| [-] | Fixed silence detection in voicemail. | - | VNP-55291 |
| [-] | Fixed possible SQL issue on fresh install. | - | VNP-55300 |
| [-] | Update selinux build to restore context for erts-6.4 | - | VNP-55302 |
| [-] | Fixed duplicate channels becoming unavailable because of disabled qualify. | - | VNP-55314 |
| [-] | Fixed multiple SIP server reliability issues. | Autoreport | VNP-55350 VNP-55351 VNP-55658 VNP-55707 VNP-55862 VNP-55938 VNP-55995 |
| [-] | Fixed issue in crash autoreporter script in case. | - | VNP-55391 |
| [-] | Fixed mysql_upgrade issue on upgrades from versions older than 3.0.7. | OKP-555951 | VNP-55399 |
| [-] | Fixed possible SQL issue on upgrade of extension_recording table. | OKP-555951 | VNP-55402 |
| [-] | PBX no longer sends notification on video detach. | Autoreport | VNP-55418 |
| [-] | Fixed GetOrganizations SystemAPI method to return login data. | - | VNP-55431 |
| [-] | Mark agent's local channel as available after transfer. | CHG-161851 MAP-877542 MYB-592153 | VNP-55437 |
| [-] | Fixed remote agents behavior not to remove the caller from the queue when they do not answer. | UFM-310742 RDL-232917 | VNP-55441 |
| [-] | Added custom FD_ISSET to PBX to avoid issue with glibc verifying the file descriptor. | Autoreport | VNP-55456 |
| [-] | Fixed issue with concurrent calls being checked for ICR owner instead of ICR target. | FKO-817779 OJC-519230 ETE-890300 | VNP-55494 |
| [-] | Fixed not allowing free calls when the charging limit on public calls is set to 0. | RAD-776157 | VNP-55495 |
| [-] | Disabled GRUU support in SIP server as it is not supported by some phones. | - | VNP-55496 |
| [-] | Fixed SDP connection IP, in case of API initiated calls over a NAT Infrastructure. | JWX-119698 YTY-275400 | VNP-55525 |

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| [-] | | Changed storage for Force MWI and Extension publish settings. | - | VNP-55540 |
| [-] | | Fixed SetProvision SystemAPI method not to change the global provision mac setting. | YHB-764870 | VNP-55548 |
| [-] | | Fixed SIP notifications publish request IP in multi IP infrastructures. | - | VNP-55555 |
| [-] | | Fixed route order and SIP server port in infrastructures behind NAT. | MHI-176192 | VNP-55568 VNP-56430 |
| [-] | | Workers no longer use IPv6. | HVD-491445 | VNP-55570 |
| [-] | | Improved SIP server init script reliability. | - | VNP-55607 |
| [-] | | Fixed several issues with parking BLF NOTIFY. | AUT-771730 | VNP-55750 |
| [-] | | Fixed redirect issues that could affect phone provisioning. | - | VNP-55761 |
| [-] | | To prevent issues with setting DNS1, DNS2 and DOMAIN from ifcfg-ethx scripts, single-request is not added in resolv.conf on rhel7, only on rhel6 . | - | VNP-55861 |
| [-] | | Fixed Hubring hdump export and restore of persistent nondurable keys. | - | VNP-55876 |
| [-] | | Postfix configuration file is copied only on the first install. | - | VNP-55881 |
| [-] | | Fixed reported number of distributed database slaves. | - | VNP-55885 |
| [-] | | Fixed validation on bucket and zone for Amazon S3. | - | VNP-55887 |
| [-] | | Node.js process will start only on http and worker role nodes. | - | VNP-55893 |
| [-] | | Avoided PBX crash caused by old codec package on upgrade. | Autoreport | VNP-55987 |
| [-] | | Fixed parse error for SIP register line in PBX. | - | VNP-55906 |
| [-] | | Fixed Exit to operator during queue announcements. | BXX-628690 | VNP-55944 |
| [-] | | Fixed codec settings for distributed SIP server infrastructure. | - | VNP-55965 |
| [-] | | Improved PBX init script reliability. | - | VNP-56029 |
| [-] | | Fixed subsequent SIP request (due expired token) being considered a retransmission. | - | VNP-56036 |
| [-] | | Added DTLS setup on caller leg in case of 183 early answer. | - | VNP-56040 |
| [-] | | Fixed sending RTP to the peer that put the call on hold. | - | VNP-56044 |
| [-] | | Added X-voipnow-early: supported in case early ICE is supported on caller. | - | VNP-56046 |
| [-] | | Fixed extendedNumber parsing logic in list method of CDRService. Use ext_length parameter from misc. | - | VNP-56101 |
| [-] | | Users with empty voicemail passwords are no longer allowed to check their voicemail. | - | VNP-56121 |
| [-] | | Fixed queue distribution race by clearing the agent's pending flag if it couldn't be acquired for any reason. | BOU-687660 SSR-480431 | VNP-56154 VNP-56155 |
| [-] | | Fixed PBX fromdomain usage in channel registration. | - | VNP-56173 |
| [-] | | Update SIP server internal state when SIP domain changes. | - | VNP-56262 |
| [-] | | Escaped user name in public phone number assignation panel. | - | VNP-56273 |
| [-] | | Provisioning file is regenerated only if regenerate option is enabled. | UYA-607452 | VNP-56359 |
| [-] | | Fixed MWI publish from other SIP producers. | - | VNP-56413 |
| [-] | | Fixed upload sounds from independent interface nodes. | ZWZ-797977 | VNP-56431 |

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| [-] | Fixed possible routing issue in case of missing SIP server private ports. | - | VNP-56509 VNP-56510 | |
| [-] | Fixed conference recording to avoid possible deadlock. | VCT-208767 | VNP-56512 | |
| [-] | Fixed loading 999 eligible phone terminal extensions in add local agent panel. | HHK-875961 | VNP-56532 | |

## Automation Component

| Type | Details | Support Zone Ticket ID | JIRA Ticket ID |
|---|---|---|---|
| [-] | Fixed error in Provisioning Facilities page. | - | VNA-15218 |
| [-] | Fixed issue in update_exchange.sh | - | VNP-55444 |
| [-] | Fixed issue in getup2date.sh | - | VNP-55445 |