



## VOSS-4-UC

# Release Notes for VOSS-4-UC 20.1.1 (Early Field Trial)

Release 20.1.1 (Early Field Trial)

Jan 28, 2021

Copyright © 2021 VisionOSS Limited. All rights reserved.

## Contents

<b>Release Overview</b>	<b>1</b>
<b>Release Details</b>	<b>2</b>
<b>Important Information</b>	<b>2</b>
<b>Features: Summary</b>	<b>2</b>
<b>Features: Detail</b>	<b>5</b>
<b>Defects Fixed: Detail</b>	<b>10</b>

## Release Overview

These are the official release notes for:

- Product: VOSS-4-UC
- Release Version: 20.1.1

Release 20.1.1 is the first release of the year for the 20.x release series.

---

## Release Details

Delta Platform
Release : 20.1.1.27
Build Number : 190
Platform Version : 20.1.1-1611680580

### Supported Upgrade Paths:

- ISO Upgrade:
  - 19.x =>

### Cisco UC App Compatibility:

- For this Release, testing was performed using the following Cisco UC apps versions. Note that older versions of each UC app may also be compatible.

UC App	Versions
CUCM	10.5.2.17900-13, 11.5.1.16900-16, 12.5.1.11900-146
CUC	10.5.2.17900-13, 11.5.1.16900-16, 12.5.1.11900-57
HCMF	11.5.4.11900-3, 11.5.5.10000-2, 12.5.1.10000-5

## Important Information

- VOSS Analytics version 4.0 is not supported from release 20.1.1 onwards.
- For VOSS-4-UC release 20.1.1, refer to the VOSS-4-UC 20.1.1 Release Changes and Impact document for details on model and workflow changes. Customizations related to these changes may be affected.

## Features: Summary

### 4.1 Admin GUI

- [EKB-3667](#): Move subscriber does not allow control over settings of moved soft phones.

### 4.2 NBI

- [EKB-5716](#): NBI Logging Enhancements.
- [EKB-5719](#): Create a generic role and new OVF template for NBI nodes.

## 4.3 Core Software

- *EKB-3539*: Add new field to Configuration Templates to define Feature Usage to enhance GUI rule filtering.
- *EKB-3610*: Drop “Meta Tasks” from Landing Pages (migration) Inbox x jira/other x.
- *EKB-4374*: User model consolidation migration script.
- *EKB-4378*: Update SDE and License Audit extracts.
- *EKB-4382*: Migration script to update existing FDPs, CFTs, MLs, APs etc..
- *EKB-4402*: Remove Audit User Data Tool.
- *EKB-4497*: Create migration script for INI data changes.
- *EKB-4802*: Allow system level transactions to be hidden from the transaction log.
- *EKB-4860*: Add mail, sAMAccountName, userPrincipalName to device/ldap/User summary attributes.
- *EKB-5166*: Add additional fields to Hunt Group Summary Attributes.
- *EKB-5294*: CORE|DATASYNC: Improved memory consumption for data syncs.
- *EKB-5353*: Add a description field to menu layout entries.
- *EKB-5412*: Implement a mechanism to define global data sync workflows.
- *EKB-5428*: Migrate Number Inventory related AP, MLs and CFT's.
- *EKB-5431*: Set the device limit to 10 for a licensed user.
- *EKB-5475*: Update SDE to run off secondary unified nodes.
- *EKB-5512*: User field mapping migration for CUCM and LDAP.
- *EKB-6248*: Migrate Landing Pages.
- *EKB-6249*: Migrate landing pages.
- *EKB-6325*: User Management template migration update DataSync workflows.
- *EKB-6407*: Add Menu and AP migration for old Audit and Number Management views.
- *EKB-6494*: Some migration fields not mapped for relation/HcsUserREL.
- *EKB-6548*: Remove HcsUserREL APs.
- *EKB-6725*: Add Sync Source and Auth Method to Adv. Subscriber Summary Attrs / List View.
- *VOSS-568*: Implement customer-specific SSO URLs.
- *VOSS-612*: Audit log filtering.

## 4.4 Platform

- *EKB-4014*: Upgrade base OS to Ubuntu 18.04.
- *EKB-4216*: Deploy new systems from OVA with Ubuntu 18.04 image.
- *EKB-4421*: Add CLI commands to enable|disable|list components that are logged by auditd.
- *EKB-4494*: TLSv1.3 does not allow disabling of ciphers, and supercedes v1.1 and 1.2 completely.
- *EKB-5580*: Remove output saying to run voss clear-down post upgrade.

- *EKB-5806*: Write cluster check output to log file.
- *VOSS-641*: Support VOSS-4-UC deployment on Azure.
- *VOSS-661*: Upgrade platform OS to Ubuntu 18.04.
- *VOSS-711*: Improve Patch Installation Usability.

## 4.5 Workflow Templates

- *EKB-3956*: Update data/BaseSiteDOM and ModBaseSite-CFT to include new CUCDM8.x and custom fields added to data/BaseSiteDAT.
- *EKB-4168*: Add RBAC changes for Clusterwide Call Park and Clusterwide Directed Call Park.
- *EKB-4192*: Add RBAC change for “Media Resources”.
- *EKB-4239*: Add RBAC changes for “Quick Add Gateway”.
- *EKB-4387*: Update all template CFTs, PWFs etc. that reference deprecated models.
- *EKB-4610*: Add Call Park and Directed Call Park Number choice should use standard lines function.
- *EKB-4658*: Update version dropdown on data/UccxServer.
- *EKB-4777*: Add ex-directory capability to phone services directory.
- *EKB-5066*: Add RBAC changes for Forced Authorization Codes.
- *EKB-5199*: Replace all Href instances for Views in default Menus with the Model Type of View.
- *EKB-5934*: Add default instances GS\_FACAuthLevels\_DAT and GS\_FAC\_Help\_DAT at sys.hcs.
- *EKB-6059*: Productize Manage AD LDAP Users Adaptation.
- *EKB-6168*: Generic DialPlan: Update DIAL-PLAN-RoutePartition-STATIC CFT macro for useOriginatingDeviceTimeZone.
- *EKB-6524*: Update Agent Lines workflows to use fn.acquire\_lock to prevent Device overwrite blocked error.
- *EKB-6537*: Support for a mechanism to override authentication method for QAS and Data Sync.
- *EKB-6557*: Update the default “Full Access” Business Admin Portal Profile to enable Allow switch to Admin mode.
- *VOSS-483*: Productize Analogue Gateway Adaptation.
- *VOSS-519*: Productise IOS Gateway Adaptation.
- *VOSS-551*: User Management Overhaul.
- *VOSS-556*: Number Range Management Tool.
- *VOSS-592*: Productize Multi-cluster FAC Adaptation.
- *VOSS-604*: Internal Number Inventory Audit Tool Replacement.
- *VOSS-651*: Number Inventory Overhaul.
- *VOSS-660*: Productize Add Device to User Adaptation.
- *VOSS-667*: Clusterwide Call Park and Directed Call Park.
- *VOSS-689*: Improve usability of Media Termination Point, Transcoder and Conference resources.
- *VOSS-692*: Reset/restart all phones in a Site.

- *VOSS-712*: Ability to upload MOH files.
- *VOSS-722*: Productize Voss Phone Server.

## 4.6 Business Admin Portal

- *EKB-2815*: Modals must scroll when content overflows screen height.
- *EKB-3435*: Inventory Filter is not available when adding a new line to a current phone/edit phone.
- *EKB-5817*: Subscriber details page should show summary of all lines in the Business Admin Portal.
- *VOSS-676*: New Administration Portal.

## Features: Detail

### 5.1 Admin GUI

- **EKB-3667: Move subscriber does not allow control over settings of moved soft phones.** This fix allows for Soft Phone Line Settings to be configured via CFT when being moved in the Move Subscriber Feature

### 5.2 NBI

- **EKB-5716: NBI Logging Enhancements.** In these uncertain times, NBI stuff is now available
- **EKB-5719: Create a generic role and new OVF template for NBI nodes.** Added a new generic role during OVA install, and install wizard script.

### 5.3 Core Software

- **EKB-3539: Add new field to Configuration Templates to define Feature Usage to enhance GUI rule filtering.** Adds a “feature\_usage” field to Configuration Templates. This field can be used to add feature specific keywords to CFTs, GUI rules can then be constructed to only show the specific CFTs with these keywords in dropdowns. Eg: `{# data.ConfigurationTemplate.name | target_model_type:device/cucm/User,feature_usage:QuickAddSubscriber #}`
- **EKB-3610: Drop “Meta Tasks” from Landing Pages (migration) Inbox x jira/other x.** Migrate Meta Tasks from Landing Pages to Sections
- **EKB-4374: User model consolidation migration script.** Migrate data/User models.
- **EKB-4378: Update SDE and License Audit extracts.** The subscriber data extract report has been changed to allow for the new migrated data/User model.
- **EKB-4382: Migration script to update existing FDPs, CFTs, MLs, APs etc..** A migration script that updates all FDPs, CFTs, MLs, APs on a system to not reference the data models that are being deprecated. It also removes the following DataSync Workflows: for device/cucm/User: HcsAddCucmUserDsPWF HcsUpdateCucmUserDsPWF HcsDeleteCucmUserDsPWF HcsDeleteCucmUserPWF for device/ldap/User: HcsAddLdapUserEvtPWF HcsUpdateLdapUserEvtPWF HcsDeleteLdapUserEvtPWF HcsPurgeLdapUserEvtPWF

- **EKB-4402: Remove Audit User Data Tool.** This fix removes the Hcs Audit User Tools from all Shipped / Default Menu Layouts.
- **EKB-4497: Create migration script for INI data changes.** Migrates the 'data/InternalNumberInventory' model on systems that have a release prior to 20.x.
- **EKB-4802: Allow system level transactions to be hidden from the transaction log.** A new checkbox, 'Exclude system transactions', has been added to the transactions filter dialog/popup screen. This is unchecked by default but if checked, it will not display transactions that have been created by the 'system' user.
- **EKB-4860: Add mail, sAMAccountName, userPrincipalName to device/ldap/User summary attributes.** This adds the following new columns to LDAP Users to filter on in the GUI and Model Instance Filter: mail, sAMAccountName, userPrincipalName
- **EKB-5166: Add additional fields to Hunt Group Summary Attributes.** Adds additional fields to the summary attributes of Hunt Groups. The newly added fields are as follows: CFB Destination: forward-HuntBusy.destination Queue Full Destination: queueCalls.queueFullDestination No Hunt Members Answer/Available Destination: queueCalls.noAgentDestination
- **EKB-5294: CORE|DATASYNC: Improved memory consumption for data syncs.** Improved memory consumption for data syncs.
- **EKB-5353: Add a description field to menu layout entries.** A description (string) field has been added to the data/MenuLayout model definition, for each level of the menu.
- **EKB-5412: Implement a mechanism to define global data sync workflows.** Create a new data model to specify workflows to be executed globally for a data sync of specific device type This model must capture Name (arbitrary identifier) Device Type e.g. data/CallManager Workflows (List) Model Type Operation Phase Workflow Synchronous (true/false) This mechanism must support hierarchy overrides i.e. it must be able to override a global data sync workflow at a lower hierarchy level During data sync, both global and data sync instance workflows must be executed
- **EKB-5428: Migrate Number Inventory related AP, MLs and CFT's.** Migrate AP, ML, FDP and CFT instances of data/InternalNumberInventory to relation/NumberInventoryREL
- **EKB-5431: Set the device limit to 10 for a licensed user.** If a user has more than 10 devices associated to them, then for each increment of 10 there will be an additional license counted.
- **EKB-5475: Update SDE to run off secondary unified nodes.** To optimise performance, whenever possible run and schedule the data export command from the secondary database server.
- **EKB-5512: User field mapping migration for CUCM and LDAP.** This script migrates cucm and ldap user fields and creates new instances in data/UserFieldMapping for each of the instances migrated. The new data/UserFieldMapping instances are created at the same hierarchy they were before being migrated. It also maps/converts the fields from data/NormalizedUser fields to data/User fields.
- **EKB-6248: Migrate Landing Pages.** As part of the templates migration for User Management, the LandingPages must be migrated with: Removing deprecated models: data/NormalizedUser data/HcsUserProvisioningStatusDAT data/LdapUser data/SsoUser data/UserAuthMethod data/HcsAdminUserDAT relation/HcsAdminUserREL Map relation/HcsUserREL to relation/User
- **EKB-6249: Migrate landing pages.** This script migrates any Landing Pages where menu entry is data/InternalNumberInventory, setting it to relation/NumberInventoryREL and clearing the associated configuration template.
- **EKB-6325: User Management template migration update DataSync workflows.** Handles the mapping/migration of the following workflows to the corresponding workflow names: HcsAddCucmUserDsPWF -> UserCucmSyncAdd HcsUpdateCucmUserDsPWF -> UserCucmSyncUpdate HcsDeleteCucmUserDsPWF -> UserCucmSyncRemove HcsDeleteCucmUserPWF -> UserCucmSyncRe

move HcsAddLdapUserEvtPWF -> UserLdapSyncAdd HcsUpdateLdapUserEvtPWF -> UserLdapSyncUpdate HcsDeleteLdapUserEvtPWF -> UserLdapSyncRemove HcsPurgeLdapUserEvtPWF -> UserLdapSyncPurge

- **EKB-6407: Add Menu and AP migration for old Audit and Number Management views.** Migrates old Number Inventory Audit and Number Management views for Menu and APs: - replaces HcsDNInventoryMgmtView with a new view, NumberInventoryAudit - replaces HcsDNMgmtVIEW with a new view, NumberInventoryRangeMgmtVIEW - UcsMaintainMultiInternalNumberInventoryVIEW is deleted(a message to alert that this has been deleted and needs to be added as necessary is logged)
- **EKB-6494: Some migration fields not mapped for relation/HcsUserREL.** Fixes unmapped list fields.
- **EKB-6548: Remove HcsUserREL APs.** Removes relation/HcsUserREL Access Profiles.
- **EKB-6725: Add Sync Source and Auth Method to Adv. Subscriber Summary Attrs / List View.** Fixes an issue where the Role, Sync Source, User Type and Auth Method fields are not displayed in the Subscriber's List View. The following order is now displayed for related fields: Role Entitlement Profile Sync Source User Type Auth Method
- **VOSS-568: Implement customer-specific SSO URLs.** When using Single Sign On with a custom domain name, the domain name will now be preserved during the redirection to/from the Identity Provider. Note that the Service Provider metadata will now be unique per domain name, and therefore new metadata may need to be generated and uploaded to the Identity Providers.
- **VOSS-612: Audit log filtering.** Introduces a number of CLI commands (**log audit ruleset**) to configure the verbosity of audit log data that is streamed to remote syslog. For platforms where the audit log feature is in use, please refer to Upgrade Notes for more details on additional configuration required.

## 5.4 Platform

- **EKB-4014: Upgrade base OS to Ubuntu 18.04.** Upgrade of the VOSS base system to Ubuntu 18.04.3
- **EKB-4216: Deploy new systems from OVA with Ubuntu 18.04 image.** System OS upgraded to Ubuntu 18.04 LTS
- **EKB-4421: Add CLI commands to enable|disable|list components that are logged by auditd.** Additional Voss CLI commands were added to manage the audit log rules. The rules are divided into groups and can be controlled by the user of the system.
- **EKB-4494: TLSv1.3 does not allow disabling of ciphers, and supercedes v1.1 and 1.2 completely.** Allow for TLSv1.3 enablement for web server
- **EKB-5580: Remove output saying to run voss cleardown post upgrade.** The prompt for doing a voss cleardown after upgrade or install has been removed.
- **EKB-5806: Write cluster check output to log file.** When a cluster check is done the results will be logged in /var/log/platform/cluster\_check.log
- **VOSS-641: Support VOSS-4-UC deployment on Azure.** Introduces an installer for deploying VOSS-4-UC on Azure.
- **VOSS-661: Upgrade platform OS to Ubuntu 18.04.** The operating system has been upgraded from Ubuntu 16.04 to Ubuntu 18.04.
- **VOSS-711: Improve Patch Installation Usability.** Adds a new command (**app multi\_install**) that makes it possible to install more than one script/patch in a single command. Multiple script names are

specified using space delimited list, a directory with a manifest, or a tar.gz archive of a manifest-backed directory.

## 5.5 Workflow Templates

- **EKB-3956: Update data/BaseSiteDOM and ModBaseSite-CFT to include new CUCDM8.x and custom fields added to data/BaseSiteDAT.** Adds 10 custom boolean and string fields to Site.
- **EKB-4168: Add RBAC changes for Clusterwide Call Park and Clusterwide Directed Call Park.** Call Park and Distributed Call Park now consider the clusterwide call park flag and its now possible to create Call Park and Distributed Call Park in ranges
- **EKB-4192: Add RBAC change for “Media Resources”.** Adds MediaResources Transcoder, Media Termination Point and Conference Bridge services to the following deployments: ProviderHCMF ProviderDecoupled Enterprise
- **EKB-4239: Add RBAC changes for “Quick Add Gateway”.** LBO Gateway Management - this includes Controller, Interface and Dial Peers. The feature has been added to ProviderHCMF, ProviderDecoupled and Enterprise deployments.
- **EKB-4387: Update all template CFTs, PWFs etc. that reference deprecated models.** Updates and removes all references in dependant / required templates to the following deprecated models: data/NormalizedUser, data/LdapUser, data/SsoUser, data/HcsUserProvisioningStatusDAT
- **EKB-4610: Add Call Park and Directed Call Park Number choice should use standard lines function.** Clusterwide Directed Call Park now uses the standard lines filter function
- **EKB-4658: Update version dropdown on data/UccxServer.** Allows 12.x UCCX servers to be added and managed in VOSS-4-UC.
- **EKB-4777: Add ex-directory capability to phone services directory.** Add the capability to exclude users from the Corporate Directory search. Add new URL parameter “corp\_dir\_scope”=[Provider|Reseller|Customer|IntermediateNode|Site|LinkedSite] to limit the search scope of the search for corporate directory users.
- **EKB-5066: Add RBAC changes for Forced Authorization Codes.** Multiclusterc FAC is now added to the product under the following Menu Item: Device Management - CUCM - Forced Authorization Codes Device Management - CUCM - Sync FAC Cross Cluster Sync FAC Cross Cluster - may require additional thought as to where to implement the sync
- **EKB-5199: Replace all Href instances for Views in default Menus with the Model Type of View.** Replaced all instances of “href” for Menu Items which refer to Views. These now use Type of view/.
- **EKB-5934: Add default instances GS\_FACAuthLevels\_DAT and GS\_FAC\_Help\_DAT at sys.hcs.** This adds Auth Codes static data as a reference for adding system auth codes. It also adds a help text data model
- **EKB-6059: Productize Manage AD LDAP Users Adaptation.** Allow user to be pushed/deleted to/from Active Directory LDAP server. An extension to relation/User.
- **EKB-6168: Generic DialPlan: Update DIAL-PLAN-RoutePartition-STATIC CFT macro for useOriginatingDeviceTimeZone.** Updates the macro specified in the CFT for useOriginatingDeviceTimeZone so that the addition of Route Partition does not fail if the value is not specified when the Dial Plan is pushed.
- **EKB-6524: Update Agent Lines workflows to use fn.acquire\_lock to prevent Device overwrite blocked error.** Adds functionality to Agent Lines workflows, Add, Mod and Delete, to prevent the workflows from executing in parallel for the same Application User.



- **EKB-6537: Support for a mechanism to override authentication method for QAS and Data Sync.** Add the ability to control the default user auth method and type by using global settings.
- **EKB-6557: Update the default “Full Access” Business Admin Portal Profile to enable Allow switch to Admin mode.** Updates the default instance of the “Full Access” Business Admin Portal Profile to enable the “Allow switch to Admin mode”. This allows the Admin User to switch between the Business Admin Portal and the Admin Portal once logged into either Portal, and will prompt the user to choose either of the Portal on first login.
- **VOSS-483: Productize Analogue Gateway Adaptation.** Provides two new capabilities related to Cisco Gateway management: Overbuild Analog Gateway: Provides the ability to move an imported Analog Gateway, and the related Ports and End Points, down to a Site, based on the Device Pool assigned to the first Port. Add port to Analog Gateway: Provides the ability to add a single Port with an assigned DN to an existing Gateway without having to select or configure a specific port.
- **VOSS-519: Productise IOS Gateway Adaptation.** Provides two new capabilities related to Cisco SIP Trunk and IOS Device provisioning. Quick Add SIP Gateway: Provides the ability to add an IOS Device, SIP Trunk configuration and SIP Gateway/Port configuration in a single step. SIP Gateway Port: Provides the ability to add Port configuration to an existing SIP Gateway.
- **VOSS-551: User Management Overhaul.** This release introduces a complete overhaul of user management. The main goal is to simplify the administration and synchronization of user data between VOSS-4-UC and other external systems.
- **VOSS-556: Number Range Management Tool.** Provides a common tool, for Provider and Enterprise deployment types, for managing Number Inventory entries, Add, Modify and Delete in ranges.
- **VOSS-592: Productize Multi-cluster FAC Adaptation.** Provides the ability to manage Forced Authorization Codes in a multi Unified CM Cluster environment.
- **VOSS-604: Internal Number Inventory Audit Tool Replacement.** Provides a new tool for Auditing Number Inventory which caters for the new Status and Usage fields. All the following services are now Audited: Phones, Device Profiles, Remote Destination Profiles, Hunt Pilot, Line Groups, Pickup Group Pilot, Voicemail Pilot, MeetMe, CTI Route Point, Call Park, Directed Call Park, System Call Handler and VOSS Phone instances. Directory Numbers are now also set back to Available state when not assigned to services.
- **VOSS-651: Number Inventory Overhaul.** Enhances Number Inventory management by adding a new Status and Usage field to Directory Numbers, which replaces the previous “Available” and “Used” fields. Status will now be shown as either Available, Used, Used-Utility, Cooling or Reserved. Realtime usage of each DN is also shown by selecting the new “Usage” tab which returns a pattern match for Phones, Device Profiles, Remote Destination Profiles, Hunt Pilot, Line Groups, Pickup Group Pilot, Voicemail Pilot, MeetMe, CTI Route Point, Call Park, Directed Call Park, System Call Handler and VOSS Phone instances. Usage field will be updated to show service assignment when services are added, updated or removed for corresponding Directory Numbers.
- **VOSS-660: Productize Add Device to User Adaptation.** Provides two new capabilities related to adding and removing Device association to and from Subscribers. Add Device to User: Provides the ability to associate an unassigned Phone or Device Profile to a User. Remove Device from User: Provides the ability to disassociate a Phone from a User.
- **VOSS-667: Clusterwide Call Park and Directed Call Park.** Provides two new capabilities for managing Cisco Call Parks and Directed Call Parks.
- **VOSS-689: Improve usability of Media Termination Point, Transcoder and Conference resources.** Provides the ability to manage Unified CM Media Termination Points, Transcoders and Conference Bridge resources.
- **VOSS-692: Reset/restart all phones in a Site.** Provides the ability to perform a Reset or Restart of all registered Cisco phones at a Site.

- **VOSS-712: Ability to upload MOH files.** This feature introduces the ability to upload Music On Hold files to single or multiple Unified CM clusters as well as manage Music On Hold Sources.
- **VOSS-722: Productize Voss Phone Server.** Provides the ability to manage VOSS Phone Server. VOSS Phone Server is a standalone SIP based Phone registration server which can be used to register Cisco SIP Phones or 3rd Party SIP Phones.

## 5.6 Business Admin Portal

- **EKB-2815: Modals must scroll when content overflows screen height.** When adding Line groups the modal content now scrolls instead of extending off screen
- **EKB-3435: Inventory Filter is not available when adding a new line to a current phone/edit phone.** Exposes an inventory filter capability when adding new lines to a phone in the Business Admin Portal.
- **EKB-5817: Subscriber details page should show summary of all lines in the Business Admin Portal.** Enhances the subscriber page in the Business Admin Portal to show multiple lines for the user's services. The lines have also be made links to allow navigation to the corresponding line page.
- **VOSS-676: New Administration Portal.** This release introduces a new administration portal. The new portal is functionally equivalent to the legacy administration portal but introduces many look and feel and other usability improvements.

## Defects Fixed: Detail

### 6.1 Admin GUI

- **EKB-5975: Filter is not working properly.** Fixes an issue where removing list view filters did not work when a URL rewriting proxy was in use.
- **EKB-6598: Subscriber page freezes when opening a subscriber.** Fixes an issue that was causing the subscriber page to freeze when loading a subscriber. Updated the subscriber GUI rules for phone activation code feature.

### 6.2 Self-service

- **EKB-4715: Self Service Display Feature Policy Default clone not working.** Fixes an issue whereby SelfService made use of the highest level SelfService Feature Display Policy (SSFDP) in the hierarchy tree instead of the lowest level in the hierarchy tree.

### 6.3 Core Software

- **EKB-1310: Removes IFrame option from 'Display As' setting in Menu Layout.** Removes IFrame option from 'Display As' settings list from the menu layout since it doesn't actually give any functionality.
- **EKB-3393: When creating a Quick add group - the transaction detail field is blank.** Fixes an issue where the transaction detail field is blank when creating a **Quick Add Group**.

- **EKB-3423: Phone vendor config - user input in clear text for Admin Password field.** Fixes issue where admin password was displayed in clear text.
- **EKB-3799: Errors during import of UCCX.** Correctly decode generic driver HTTP responses
- **EKB-4098: Import fails on HCMF 12.5.1SU1 on SmartAccountsAccessCredentials and TransportModeSettings models.** This fix prevents the failure of an HCMF sync when the SmartAccountsAccessCredentials and TransportModeSettings model types are present in the list of model types being synced.
- **EKB-4293: SystemMonitoringConfig lost during upgrade.** Fixes an issue where an instance of data/SystemMonitoringConfig upon upgrade is replaced if it already exists on the system being upgraded.
- **EKB-4464: Unfriendly error message when password reset is invoked with a "(".** Fixes unfriendly message printed when parenthesis used as or in username when invoking password reset.
- **EKB-5595: Phones configured on multiple cucms but only plugged into 1 do not show correct status.** Phones with same name on separate Call Managers will now show correct registration information when displayed together in a list view.
- **EKB-5842: The "schema" field in data/DeviceModel should be changed from 'any' to 'string'.** The schema field of data/DeviceModel has been changed from a type of "any" to "string" type
- **EKB-5935: Replaying a Custom action causes the transaction to run as system user.** Replaying a transaction that invokes a custom workflow will now use the correct user name.
- **EKB-6009: SQL Injection Vulnerability.** To prevent SQL injection, the macro function `fn.cucm_execute_sql` and the device model `device/cucm/SqlQuery` have been removed from the system. Protection has been added to the part of the Call Manager driver which uses thin AXL to prevent this type of attack.
- **EKB-6040: Remove filtering options on Phones list view for registration status.** This fix removes the filtering options for registration status fields in Phone list views in favour of the list view action to get the current registration status of phones in the list view.
- **EKB-6105: Transactions remain in 'Processing' state under transaction high load.** Fixes an issue where large amount of items in a queued state would stall and leave transactions in a Processing state and require a service restart and cleanup to continue.
- **EKB-6266: Sending License Audit files via email is not working.** A fix has been implemented to allow license audit emails to be sent via a non-TLS unsecured SMTP server.
- **EKB-6501: Migrate HcsUserREL type and HcsUserRelFDP in Custom Menu Layouts.** Migrates the following custom menu layouts and the associated Field Display Policy: - `relation/HcsUserREL` to `relation/User` and set Field Display Policy to 'default' - `relation/HcsAdminUserREL` to `relation/User` and set Field Display Policy to 'AdminUser'
- **EKB-6507: Update application type to LDAP for both MS\_LDAP and OPEN\_LDAP in user field mapping migration.** Application type to be set only to LDAP for user field mapping migration which used to be set to `MS_LDAP/OPEN_LDAP`
- **EKB-6536: IDP user lookup field should default to username not sso\_username.** This sets default value of user lookup field on Identity Provider server to username.
- **EKB-6543: Improve performance of workflow lookup for view model code.** This fix improves the internal lookup of `ProvisioningWorkflows` for View model code.
- **EKB-6669: Update data/Settings to skip workflows for ignored changes on device/ldap/userProxy.** This fix adds a list of attributes to Global Settings in order to ignore data changes for workflows when syncing the LDAP `model_type` of `device/ldap/userProxy`.

- **EKB-6783: clone HCSPProviderAdmin Access Profile at sys level fails.** Removes the operations 'RefreshSubscriber, tag, tag\_version' from the list of operations applied to Access Profiles during a migration.
- **EKB-6834: HCM-F SI report empty after installing Patch for EKB-5200.** This fix reverts EKB-5200 in order to restore API compatibility for the HCM-F SI report generation.
- **EKB-7068: Add-on expansion module not visible for bulk-loaded phones - just a (New Record).** Fixes an issue where bulkloading a subscriber using the relation/subscriber entity and a phone that supports an Add-on module such as the Cisco 9971 results in the Add-On 'New Record' option not expanding when clicked.

## 6.4 Platform

- **EKB-3234: When the proprietary VMWare tools are installed, app status does not show them as being installed.** The proprietary vmware tools will now be purged when an upgrade is done.
- **EKB-3779: The CLI command "app list" shows installed patches as "not installed".** Fixes the 'app list' command to not display any patch information.
- **EKB-3989: ppa key prompts shown out of order when enabling FIPS mode.** Fixes prompts for 'system fips enable' to display correctly.
- **EKB-4012: InsecureRequestWarning when running database convert\_drive.** Fixes the display of the Insecure Request Warnings message when executing 'database convert\_drive primary'
- **EKB-4087: delete-on-success doesnt remove files from media folder after successful installation.** The documentation was updated to point out that this functionality is just for patches and not for any form of upgrade.
- **EKB-4149: The system download command fails when URL is percent-encoded.** Fixes the 'system download' command to allow URIs with percentage signs to be downloaded.
- **EKB-4196: A stacktrace is thrown when 'cluster status' is run while a webproxy is off line..** The *cluster status* no longer prints an exception when a webproxy node is offline
- **EKB-4234: The Audit notification type is still showing but should have been removed..** Removed audit from the notification list. It will no longer be displayed when 'notify list' is executed from the CLI.
- **EKB-4838: When running a backup export, the file name of the output does not match that in the documentation.** The exported backup file name format has been changed to ensure it remains unique across clusters and nodes, and the date the backup was run.
- **EKB-5019: The keys add command has no validation or error output..** A warning message will now be displayed when an unknown host is entered with 'keys add <host>'.
- **EKB-5132: Local mail delivery failure causes root partition to fill up.** Fixes an issue where local mail delivery failure causes root partition to fill up.
- **EKB-5237: Upgrade nginx to the latest stable version.** Nginx has been upgraded to the latest stable version - 1.18.0
- **EKB-5552: Old docker images kept after ISO upgrade.** Unused docker images will now be removed from the system after a successful upgrade
- **EKB-6176: Scale Cluster Upgrade failing - Post Security Updates 19.3.2 > latest develop.** Fix the security update error.

- **EKB-6182: Platform user able to change password for any user, including root.** Removes the ability to change passwords for non-platform users
- **EKB-6861: When config file gets corrupted, ps\_mem does not work anymore.** Fixes ps\_mem to continue logging when its config file gets corrupted.

## 6.5 Workflow Templates

- **EKB-177: Imported Subscribers do not get merged with the LDAP user if the LDAP User already exists.** Fixes an issue where Users imported from Unified CM were not linked correctly to the LDAP User, if the LDAP User was synced into the system before importing the user from the Unified CM, attempting to Update the User or Subscriber would fail.
- **EKB-2468: Agent Lines: Profile User drop-down must only show users which have Device Profiles added..** Fixes an issue where the User Profile drop-down, when adding Agent Lines, showed a list of all Users at the Site, this should only show Users which have a Device Profile.
- **EKB-2469: Cannot add a Webex Teams user from BAP if a Service is not selected.** Fixes an issue when trying to add or update a Webex Teams user without selecting any services.
- **EKB-2851: EnterpriseDeployment: Delete Subscriber with INI having + doesn't change Used Status to False.** Fixes an issue where, when Deleting a Subscriber containing a number that has a prefix (such as '+', '\*\*', '#'), the number is not set back to Available state.
- **EKB-3411: When adding a SCCP analog endpoint, the Autoconfig port should have dial plan settings hidden.** This change hides config on the SCCP AutoConfig FFF port not relevant to the virtual port. All config is hidden on SCCP Gateway port. On Subscriber Phone Management the following fields have been hidden, securityProfileName, devicePoolName, softkeyTemplateName, phoneTemplateName, addOnModules.
- **EKB-3414: System Monitoring - Add/Create operation enabled on data/SystemMonitoringConfig.** Fixes an issue where sysadmin user has permissions to Add new instances of System Monitoring Configuration, only Updating should be allowed.
- **EKB-3446: If a user is created via QAS without an Email, Custom deleting fails from BAP Subscriber.** Fixes an issue when deleting a User from BAP when the user has no Email address.
- **EKB-3461: User Management and Subscriber field order and inconsistencies with Given Name and Surname.** Updates the naming of fields on User Management page to First Name and Last Name.
- **EKB-3576: Transaction Detail and Message are blank when create User Management Logs are created during User Import.** Fixes an issue where the Detail section in a transaction is blank when a User Management log entry is created.
- **EKB-3681: MoveSubscriber: Moving a User and assigning new Line does not Delete Line at source Site.** This fix resolves an issue with the cleanup of lines from the "old" source hierarchy during a Move Subscriber & Services either in standalone or cross-cluster cases and integrates the Line Deletion Preferences feature for cleanup.
- **EKB-3771: Delete Site should not include HCMF on Enterprise and ProvideDeCoupled deployment types.** Hide "Delete HCMF Data" at Delete Site for Enterprise and Provider Decoupled.
- **EKB-3886: Add Subscriber at Site fails with fn.HcsUpsertCucmUser error if Subscriber was imported at Customer level already.** When a subscriber is imported from CUCM at customer level, adding the same subscriber at location level will move the original subscriber to location level.
- **EKB-3902: Update HcsCheckMoveRoleValidPWF to cater for Linked Sites.** This fixes an issue where Role validation does not cater for Linked Sites

- **EKB-3922: Bulk Loading a Hunt Group fails queueCalls.maxCallersInQueue is not type integer.** Fixes an issue where Bulk Loading a Hunt Group failed due to a incorrect value in the HuntGroupsPrePopulate Configuration Template.
- **EKB-3953: Move Phones and Move Users should not be run from Site level.** Fixes an issue where the “Move Users” and “Move Phones” features could be executed when at Site level. This resulted in the Source Hierarchy and Destination Hierarchy to be the same value. A hierarchy rule has been added to allow execution at all hierarchies other than Site
- **EKB-4187: HcsResellerAdminAP- No export permissions for UCPrep Configuration Templates.** Fixes an issue where Reseller Administrator has permissions to Read Configuration Templates but not Export them.
- **EKB-4226: Add Line instances on relation/LineRelation page should not show Used Directory Numbers.** Fixes an issue where the Directory Number dropdown showed DNs which are Used when adding new Lines, this should only show Unused values.
- **EKB-4306: QAS failure when “Fail if not found” is enabled and CUCM user exists.** For a previous fix an incorrect variable declaration was removed. This left a set-method workflow with nothing to set. This fix ads a correct variable declaration to relevant set-method.
- **EKB-4354: Bottom up sync: Creating LDAP Auth Users does not happen in Shared Architecture setup when UC Apps are at Provider and LDAP Server at Customer.** Fixes an issue where bottom-up Synced LDAP CUCM Users are not able to authenticate to Self Service when the Unified CM is added at Provider level (as a shared UC App) and the LDAP Server is added at Customer level. Note: The Users must be moved down to the same level of the hierarchy as the LDAP server, ie: Customer or below, before they can authenticate successfully.
- **EKB-4395: EMCC Incorrect IP when creating the IP Phone Service.** Fixes an issue when adding a new EMCC Group the workflow creates the IpPhoneService, then the macro to generate the IP in the URL returns the NAT ip rather than the real IP of the CUCM.
- **EKB-4471: Extension dropdown when adding Voicemail should not show numbers which are already configured for Voicemail.** Fixes an issue were numbers, which have already been configured for Voicemail, appear in the dropdown when adding Voicemail from the Subscriber or Voicemail menu options.
- **EKB-4567: Dial Plan Tool Macro does not contain a direction scope.** Fixes an issue where the Macro “DP\_Available” did not contain a direction scope.
- **EKB-5035: Disassociating an LBO gateway from a site the Route Group remains on CUCM.** This change removes Local Gateway Route Group when the Local Gateway is deleted and there are no more SIP Trunks in the Route Group.
- **EKB-5172: Field Display Policies should not be configured as System Resources as this hides them from drop-downs.** Fixes an issue where Field Display Policies were incorrectly set with the System Resource flag which prevented them from being displayed in drop-downs.
- **EKB-5176: Update tool tip for Global Settings Cooling fields.** Updated tool tips in global settings to be more informative
- **EKB-5177: Enable Number Inventory Cooling should show Yes or No not True or False in current setting.** Fixes an issue where the choices for Enable Number Inventory Cooling, under Global Settings, are displayed as True or False, these are now displayed as Yes or No.
- **EKB-5249: HcsAnalogGateway\_Menu\_CFT is set as system\_resource=true.** Fixes an issue where the HcsAnalogGateway\_Menu\_CFT Configuration Template was not available for selection in the Menu drop-down as system\_resource flag was set to True, this is now False.
- **EKB-5319: Drive Convert does not report as failed if convert step is not successful.** Ensures that failures on drive convert command is shown

- **EKB-5401: Edit and Replay for Create HcsAnalogGatewayRel returns blank page.** Fixes an issue where selecting the Edit & Replay action on a transaction which created an Analog Gateway returned a blank screen. This now returns the Add form with the previous details used.
- **EKB-5471: QAS email template missing pwf value for extension mobility.** Fixes an issue where Extension Mobility could not be defined in an Email Template, for sending welcome emails via Quick Add Subscriber, by setting a value of: `{{ pwf.EMAIL.extensionmobility_name }}`
- **EKB-6002: Move Subscriber fails when neither Move nor Replace Line is selected.** Fixes an issue where Move Subscriber utility fails with a validation message regarding Cross Cluster move when neither Move Line nor Replace Line is selected.
- **EKB-6128: HcsRoleREL menu item missing FDP in EnhancedProviderMenu and EnhancedCustomerMenu.** Adds a Field Display Policy, HcsRoleRelFDP, to the Roles menu item in the Enhanced Provider and Enhanced Customer menus.
- **EKB-6141: Smart Add Phone: E164 Mask is not set when using macro.SDD\_QAS\_E164Number\_MCR in Phone CFT.** Fixes an issue where E164 Mask is not set on the Line when adding a Phone with Smart Add Phone when E164 Mask uses Macro in Configuration Template.
- **EKB-6277: Quick Add Subscriber fails when CUCM User exists at Customer level and Site has "Auto Push Users to CUCM" enabled.** Fixes an issue where performing Quick Add Subscriber and selecting a Subscriber which exists at Customer level, imported from CUCM, fails if the Site has "Auto Push Users to CUCM" enabled.
- **EKB-6309: Dial Plan SIP Trunk CFT missing value for callingAndCalledPartyInfoFormat.** Fixes an issue where pushing SIP Trunk configuration with Generic DialPlan feature failed due to missing callingAndCalledPartyInfoFormat value in Configuration Template DIAL-PLAN-SIPTrunk-STATIC
- **EKB-6408: Line Search does not show Hunt Group membership details when selecting a member line when Hunt Group is added at Customer.** This fix allows the line search feature to discover Hunt Groups higher in the hierarchy using relevant line.
- **EKB-6438: Move User (Move Subscriber) does not move all the required models.** Fixes an issue where the below services are not moved when moving a Subscriber: Phone and Phone Activation Code (PAC) / Registration Voicemail with the following services: Unified Message Account (ESA) Alternate Extensions Message Handler settings Notification Devices CallHandler Setup Contact Center
- **EKB-6483: Phone List Button Template column is named "BAT Phone Template".** Changes the Button Template field name from "BAT Phone Template" to "Phone Button Template" on Phones page, relation/SubscriberPhone.
- **EKB-6532: DN Filter "Show Numbers belonging to this Subscriber" does not work on Extension Mobility relation.** Fixes an issue where the DN Filter "Show Numbers belonging to this Subscriber" does not filter the list of numbers correctly on the Extension Mobility menu.
- **EKB-6551: Holiday Schedule Start Date/End Date keeps auto correcting back to YYYY-MM-DD on input.** Fixes an issue where the Start Date or End Date reverts back to the default value of YYYY-MM-DD ,when the last character is cleared, when adding or updating Holiday Schedules for Auto Attendant.
- **EKB-6564: device/cucm/LdapFilter limits field length to 225 characters - Blocks ability to update Custom Filters from V4UC.** Fixes an issue where CUCM Ldap Filter with string value longer than 255 characters could not be created in V4UC.
- **EKB-6577: view/NumberInventoryAudit should not be migrated with ReserveNumber permission.** This change, excludes the update of permissions during INI migration for the following for Access Profiles: 'view/HcsDNInventoryMgmtView': 'view/NumberInventoryAudit', 'view/HcsDNMgmtVIEW':

'view/NumberInventoryRangeMgmtVIEW', 'view/UcsMaintainMultiInternalNumberInventoryVIEW':  
'view/NumberInventoryRangeMgmtVIEW'

- **EKB-6583: Sip Trunk Security Profile is hidden in data/GlobalSIPVMDPPProfile FDP.** Exposes the SIP Trunk Security Profile field on Dial Plan Profile for Unity SIP Integration feature.
- **EKB-6758: Move Subscriber - Allow Provider Lvl Subscribers to be moved.** Fixes an issue where Provider Level Subscribers cannot be moved to Site with Move Subscriber or QAS.
- **EKB-6868: Adding a Site Level administrator is adding a CUCM user when Auto Push to CUCM is enabled on the Site.** This fixes an issue where an Admin User (User Type = 'Admin') is pushed to the CUCM if the Site Settings have Auto-Push to CUCM set.
- **EKB-6895: Add Reseller to Overbuild RuleModelHierarchyTypes.** Adds Reseller to the allowed list of hierarchies for running Overbuild.
- **EKB-7026: Rename workflow HcsAddCucmUserDs\_PWF back to GS\_HcsAddCucmUserDs\_PWF and macro HcsUserDeleteTriggersDeletePhone\_MCR to GS\_HcsUserDeleteTriggersDeletePhone\_MCR.** The workflow HcsAddCucmUserDs\_PWF has been renamed back to GS\_HcsAddCucmUserDs\_PWF which is the original name for this workflow which was introduced by the "LDAP Sync Additions" Adaptation. The macro which is utilized by the related delete workflow, GS\_HcsDeleteCucmUserDs\_PWF, has also been renamed from HcsUserDeleteTriggersDeletePhone\_MCR back to its original name of GS\_HcsUserDeleteTriggersDeletePhone\_MCR as part of this change.
- **EKB-7078: Generic DialPlan: Add DialPlan MultiCluster push Support - Second Server PT Failing.** Fixes an issue where Dial Push to secondary Cluster failed due to Partitions being skipped.
- **EKB-7086: Generic DialPlan: Multicluster Dial Plan push fails with "Resource Not Found" error.** Fixes any issue where Dial Plan push fails if Unified CM has been added without an IPV4 address.
- **EKB-7163: Move Subscriber - Add ability to select Feature Template once the Phone Config or Line Config Profile has been selected.** This fixes an issue where Phone Feature Template or Line Templates cannot be set in Move Subscriber Configurations.
- **EKB-7422: Convert CUCM-LDAP to Local does not remove all LDAP fields from CUC User.** Fixes an issue where LDAP specific fields are not removed when CUC user is converted from LDAP Integrated to Local.
- **EKB-7791: Site Delete MTL needs device/cucm/FacInfo added.** Fixes an issue where Forced Authorization Codes are not deleted from Unified CM when a hierarchy node is deleted.
- **EKB-7859: Updating Webex Teams User fails: Failed to save device/spark/User: Failed to create people. Free Webex licenses are implicitly assigned and cannot be removed.** Fixes an issue where updating a Webex Teams user fails with an error regarding implicitly assigned free licenses.

## 6.6 Business Admin Portal

- **EKB-3237: Voicemail Caller Input - After adding a Caller input setting, there is duplication in the dropdown.** Fixes an issue where some dropdowns on the Voicemail feature were showing duplicate options in the Business Admin Portal.
- **EKB-3891: Contact Center skills list view is not spaced correctly.** The selection column for generic list tables will be a fixed width, with grouping removed. Last column in tables without scrolling will be oversized occasionally.
- **EKB-4314: Missing the option to clone a subscriber profile.** Provides the ability for admins to clone an existing Subscriber Profile in the Business Admin Portal.



- **EKB-4327: Can't differentiate between transaction and sub-transaction in new admin portal transaction list.** Fixes an issue in the Transaction list where there was no visible difference between a transaction and subtransaction. Subtransaction IDs are now indented to distinguish them from parent transactions.
- **EKB-4360: Clear filter action always showing regardless if a filter is set or not (transaction list).** Fixes an issue where the Clear Filter action was always showing on a transaction list in the Admin Portal. Moved the button from the action bar to the top of the transaction log list in the Admin Portal.
- **EKB-4525: Line reorder in BAP does not work.** Fixes an issue where changing the line order on the phone edit page in the Business Admin Portal had no effect.
- **EKB-5030: Specific page quick actions should only be available when applicable.** Login User and Login / Logout Phone quick actions are only shown for relevant phones and subscriber that have extension mobility configured.
- **EKB-5170: Incorrect titles on voicemail add/modify pages for Alternate Extension and other services.** Adds field overrides in the Field Display Policy for Alternate Extension, Email Notification Device, Pager Notification Device, HTML Notification Device, Phone Notification Device and SMS Notification Device.
- **EKB-5778: Display Welcome text on landing page.** Welcome header text added to dashboards for BA and Admin mode
- **EKB-6250: Missing GUI rule on Add Phone.** Fixes an issue where Display field is not autopopulated in Business Admin Port on a Line when adding a Phone for a User
- **EKB-6385: Cannot Modify ATA Devices from BAP.** Password pattern checking will now correctly evaluate.
- **EKB-6710: Counts on Subscriber page are not correctly counting Subscribers for LDAP and Local.** Local Users and LDAP Synced counters will now accurately show the number of respective Subscribers on a given system.
- **EKB-6749: Toast Messages do not give detail on Required Fields.** Fixes an issue of insufficient Toast message detail by adding more detail to the message received on which fields are invalid and required for a successful form save or update.
- **EKB-6959: Not able to add any type of Jabber device via BAP for Quick Add Subscriber.** Fixes an issue where Jabber / Dual-Mode Device names are not validated correctly when Quick Add Subscriber is exposed in Business Admin Portal as a Custom Feature.