

# Release Notes & Test Report

CAIRS Version 4.0.14.21.204



# RELEASE NOTES – TEST REPORT

## CAIRS VERSION 4.0.14.21.204

### FEATURES/REFINEMENTS

#### Orders & Troubles

- FEATURE - When creating a report in Orders/Troubles --> Reports, you can now double click on any order or trouble ticket number and open the record from the report.
- FEATURE - Added functionality that will handle reports that are associated to fields that no longer exist in the database. It will report the fields that have changed and need to be removed when saving the record.
- REFINEMENT - Set the `ActiveRowScrollRegion.ScrollRowIntoView` on the treecontroller to `.Rows(0)` in order to force grid to always show the top row regardless of if the sorted value has a "blank". This would only be an issue if user selected a search parameter, not if they selected a
- specific view from menu.
- REFINEMENT - When you remove a component from a Work Order or Trouble Ticket using the drop component Ribbon Button it no longer stays visible in the components pane.
- REFINEMENT - Fixed complications caused when cancelling a Work Order without filling out all required fields. The Order now closes without confusion or being required to fill out fields.
- REFINEMENT - Fixed Organization Name view to only load the filtered records by the aggregate, they were all showing under each aggregated line.

#### Entire System

- REFINEMENT – when updating now you will only need to update the metadata
- FEATURE - When an invalid email address is entered into CAIRS, you will now receive a message that the address is not valid.
- REFINEMENT - All required fields on a record must be completed before you can save the record. If a required field is not complete a message appears asking to complete required fields before saving.
- FEATURE – Added Favorites to all menu items and views
- FEATURE – Added the ability to adjust the sort order of Favorite Reports and Views
- REFINEMENT – Removed the File Attachment Actions within a Profile, the notes and file attachments are now hardcoded and will be available to every user

#### SOLR

- SOLR has been removed from the system.

#### Configured Items

- FEATURE - Added Data Fill capability to the Cell Phone records
- FEATURE – Added Bulk Import Projects for Cell Phones and Hardware. This process can also be used to update existing records.
- FEATURE – CISCO Standard Sets

#### Global Reports

- FEATURE - Sometimes when CAIRS would update from version to version, there would be errors in the global reports because field names or locations were changed, the only way to resolve the errors was to delete the report and rebuild. Now, the report will load with a message about any errors that might be associated to the report.
- REFINEMENT -CAIRS remembers the size, position and visibility of columns.
- REFINEMENT - For menus that support global reports, the system will remember if a global report was last loaded and will initially load that report instead of the default view for that menu.

### **Accounting --> Official Accounts**

- FEATURE – In a Billing Run, we added rounding to the dynamic billing processes so report totals are more consistent.
- FEATURE – Added 5 custom date fields to Customer Codes
- FEATURE – Added 5 custom date fields to Subscribers

### **System Admin - Settings**

- FEATURE - There is a new system setting called "Note Default Font Size" - This setting should be 12 by default. Minimum value = 8, Maximum value = 40. Determines the default font size for all notes created in CAIRS.net. The system administrator can adjust this value, which applies to all users when creating notes.

### **System Admin - Custom Report Templates**

- FEATURE - Added functionality to map fields for the New Dynamic Billing Equipment and Services pricing options in Custom Report Templates

### **System Admin – CES**

- FEATURE - It is now possible to test the CEDC connection to the database from a client workstation. Before it was only possible to test the connection from the web server.

### **Directory/Organization > Organizations**

- REFINEMENT - Removed the capability to assign an Organization as its own parent. Now warning message shows upon trying to save the record letting you know the action cannot be completed.

### **Subscriber Portal**

- FEATURE - Configuration Settings were added to the Subscriber Portal Config page to allow the Operator Phone Book or the Switch Phone Book.
- FEATURE - The size of the Notes dialog box is now larger than one line of text! The size of the textbox will automatically resize as the user enters in information
- FEATURE - We have added 4 decimal places to the call details reports in Subscriber Portal
- REFINEMENT - Made the export process consistent throughout Subscriber Portal
- REFINEMENT - In Validate Bills, all previous Fiscal Years appear in the dropdown list

## **KNOWN ISSUES AND WORK AROUNDS**

**Orders/Troubles > Orders > All Active Orders:** In Dynamic, when creating a Work Order for EWSD set, the EWSD Set button disappears from the Data Components Ribbon Group if the user clicks the 'Create Work Order' before adding EWSD set.

*Work Around* - To avoid this, an EWSD component must be added before creating the work order.

---

**WORK FLOW:** Adding more than 50 custom fields to a work flow will generate an error in CAIRS. Programming is assigned to work a fix for this restriction.

*Work Around:* Do not use more than 50 custom fields in work flows until the restriction is fixed.

---

**VIEWING CAIRS AND MONITOR DISPLAYS:** If you are attempting to expand columns in CAIRS and are doing so while viewing CAIRS from a monitor that is not your primary desktop/laptop screen then the expand will not work and instead the column will minimize to where it almost seems hidden.

*Work Around:* This is not a CAIRS issue but rather a Windows issue that can't be fixed through programming in CAIRS. The Work Around is: if you are working in any form or display with columns that can be adjusted move the view to the monitor associated to your desktop/laptop and you will be able to make all necessary adjustments to columns size and placement.

---

**CONFIGURED ITEMS-DATA FILL:** When the pane is in edit mode the data fill option is NOT available.

*Work Around:* To get out of edit mode click on the scroll bar, any labels, the window header or somewhere else that isn't an editable cell.

## GOOD TO KNOW

**ACCOUNT CODE BULK CHANGE:** If you are using Dynamic Billing in CAIRS then you will no longer have the ability to bulk change Account Codes as Customer Codes are now being used as the billing master code.

**GENERAL WORK ORDERS: CLOSING ALL SERVICE REQUESTS:** Until all Sub-Service Requests/Sub-Work Orders associated to a General Work Order are in a Completed or Cancelled status the General Work Order will not complete and close automatically.

**CONFIGURATION PACKAGES:** When adding a Configuration Package, fields should never be duplicated within a package. For example, if you choose to add an Organization field (or any other field) twice, when the general order is opened in

**EXPORTING WORK ORDER AND TROUBLE TICKET DETAILS TO .TXT:** When exporting Work Order and Trouble Ticket details to .txt, you will be required to name the file and save it to a location on your computer. The .txt file does not auto-name the file like exports to PDF and Excel.

**ACCOUNTING: OFFICIAL ACCOUNTS: CUSTOMER CODE:** When opening a Customer Code using the "Account Funding View" you must open the record first and then click the "Show All" option in the Funding pane to populate the associated data.

**BASIC VIEW:** Basic View has been added to most application modules in CAIRS. This view should be used only if you are looking for a quick list of all of the items in a specific menu option. For example: Go to Configured Items>Set Management>Configured Sets>Views: Basic View and do a Show All query. You will get a list of every telephone number in the data base. This view was added to help several customers who just needed the identifying number or name of an item quickly. To avoid getting into this view choose a different view in that application module and do a Show All. Once you do that CAIRS remembers where you were last and when you open that application the new view (other than Basic) becomes your default view.

## Release Test Plan

A formal release test plan is used to guide QA engineers through the entire CAIRS software. The test plan provides a measurable and consistent series of test cases. Each test case contains detailed test steps to reach an end result.

## Testing Breakdown: Release 4.0.14.19.106 – 21.204

Completed Formal Tests: 50,000 +

### Release 4.0.14.21.204 Fixed Trouble Tickets/Bugs

Date	Fixed Version	Release Note
5/1/2019	20109	Removed the BilledAssignment association requirement for the Dynamic Call Detail report.
1/29/2020	20101	Fixed bug related to loading and creating 911 interfaces.
1/29/2020	20101	Fixed bug when logging out of CAIRS.net, when the user checks the "I never want to see this again" checkbox. The system used to throw an error trying to save this preference.
1/29/2020	20101	Fixed ambiguous GUID error that resulted from adding GUID field to association tables.
1/29/2020	20101	Display customization by profile now saves successfully.
1/29/2020	20101	Completed export code for standard directory form.
1/29/2020	20101	Added phone book to Standard Directory.
1/29/2020	20101	Added two new system settings related to connectivity. Connectivity Required determines whether or not connectivity must be filled out when there are no connectivity records related to a configured item. This allows the configured item to be saved and avoid the error "Building is required...". The other setting, Connectivity for Standard Sets, determines whether or not new connectivity can be added to standard directory, standard sets, or both. The default value is Both. This setting is useful if the CAIRS.net administrator wants to keep connectivity between standard sets and standard directory more organized by forcing all connectivity to one location or the other. Along with this functionality, connectivity for related sets and directory load from both standard directory and standard sets. This existing connectivity can be edited from either location.
1/31/2020	20102	Added link to Cisco and AS5300 phones in CallRecordLastCall view, which shows the last call associated with each assigned number.
1/31/2020	19107 and 20102	Fixed: When a user sorts by an aggregated field in a Global Report, a SQL error occurs because the field is not aggregated when the sort is built in the query.
2/13/2020	20105	Dynamic Billing - Call Type was not being included in the BillingPeriodImportedCharges table when using the Transfer table to summarize call detail.
2/26/2020	20106	Fixed the repair, "Update BilledAssignment delete_date." If the item type is not specified in the repair, the delete date will no longer be set for that item type automatically. This prevents an item type of "Number" from getting incorrectly marked as deleted and any new items types added since this repair was written. Also updated BilledAssignment delete_date repair to include new item types, including General Task, Hardware, Land Radio, Network Device, Standard Set, and Standard Set Import Project.

2/28/2020	20106	Added Revision Number. Server Revision and Client Revision are available in the detailed version Message Box in the CAIRS.net about screen. If these numbers are different, it means that the server was updated separately from the client.
2/28/2020	20106	Standard Directory - Don't make user choose phone number twice. Also needed to add logic to carry the automatically filled Standard Directory Number over to the phone book.
2/28/2020	20106	Standard Directory - Account Management now has site and org auto-filled when added a new record. Equipment and Services now has site auto-filled as well for new records.
3/2/2020	20106	Configured set device view, used in Configured sets for editing the primary set information pane in Configured sets, was not loading the directory number for ISDN sets with a button channel that was not zero. This issue was resolved by a change to the ConfiguredSetDevice view in the CAIRS database.
3/2/2020	20106	<ul style="list-style-type: none"> <li>-Framework modifications for Avaya SMGR/SM API calls (xml serialization/deserialization fleshed out)</li> <li>-new api call for getting users</li> <li>-test call for getting new users in SwitchAPIConsole (currently not implemented in CAIRS sync yet)</li> <li>-Added AvayaPhone, AvayaButton, AvayaDirectory tables</li> </ul>
3/4/2020	20106	"Avaya SIP sync" ces process now adds records to AvayaUser and AvayaRegistration tables respectively based on api call.
3/4/2020	19107 and 20106	<ul style="list-style-type: none"> <li>-added ability to filter for avaya user lookup api call. Also added this api call option to the api console project</li> <li>-Refactored avaya sip sync to delete ALL registration records prior to sync (for specific switch) and then add all registration records from switch. AvayaUser records are NOT removed every sync.</li> </ul>
3/5/2020	19107 and 20106	Having an Account Status Change Configuration setting for Unofficial accounts would cause that setting to be applied regardless of the status that was specified for that configuration record. If a Work Flow is specified in the configuration, then a work order with that work flow would be generated any time an account status change occurred, regardless of which status that work order was meant for. Also, if the override option was turned on for the Account Status Change Configuration, it would prevent the system from performing the standard operations that are supposed to happen. When an account is closed, the Billing End Date values are supposed to be set for all related account management records. Any equipment and service records directly tied to that unofficial account should also have the delete date set, but that was not happening with the override option specified for the wrong status. Please note that this override should still occur if that status does match the new account status value.

3/5/2020	4.0.14.20106	Because of aggregate rounding used in different parts of the dynamic billing process, sometimes the amount verified against the account did not match the amount charged on the balance. If the amount charged ended up more than the amount verified, there could be potential to bring the available balance to a negative number. To solve the issue we needed to verify funds on account by the rounded two digit decimal value instead of the four digit decimal value.
3/10/2020	20107	Added wsdl file and models for cm api calls (systemmanagementservice avaya api)
3/11/2020	20107	<p>Summary Detail Popup</p> <ol style="list-style-type: none"> <li>1. Needs to be sped up. Mark said we could do this by adding a capability to Global Reports that would remove the need for the slow view that the report uses</li> <li>2. Needs a record count – total, by call type</li> <li>3. Make it possible to scroll to the right without scrolling down. If you have more than 5 records it is necessary to scroll to the bottom of the window to scroll to the right which you would then have to scroll up if you want to see the records on top</li> <li>4. If possible “freeze” the column header so when you scroll down you know what data you are looking at</li> <li>5. Compress the space the Summary of data takes up. Space is valuable, especially in the small window</li> <li>6. If possible, make the window expansion possible in a known way. It’s not clear that you need to grab the bottom left corner to expand to the right</li> <li>7. Add \$ to the cost column(s)</li> <li>8. Accept the format from the global report... i.e. if I set the column to be date or time only it only shows that value</li> <li>9. Fix export file name Currently Report.xlsx, should be FiscalYear_BillingMonth_Number_TodaysDATE.xlsx</li> </ol>
3/11/2020	20107	<p>Dynamic Billing SP Fixes</p> <p>Validate</p> <ol style="list-style-type: none"> <li>1. Add an “All” option to the “Billing Period” Dropdown</li> <li>2. Add Billing Period to the view of data in both sections (this needs to be the date of the Cost Transfer since it is potentially possible for charges for the same invoice to come in at a later billing period as result of ownership changes, these new charges need to be validated independently)</li> <li>3. Add Invoice Date to the view of data in both sections, Validated and Needs Validation</li> <li>4. Add a link to the Detail of the Charges that make up that total</li> <li>5. Add an export FiscalYear_BillingMonth_CustomerCode_ValidateTodaysDATE.xlsx</li> <li>6. The Billing Period dropdown does not refresh when you select a different Fiscal year from what was selected when you navigate to that tab within SP.</li> </ol>

3/11/2020	20107	<p>Dynamic Billing SP Fixes Usage tab – (Billed Usage)</p> <ol style="list-style-type: none"> <li>1. Add an All to the Billing Period dropdown so they can search the top charges for the year (when we do this change Monthly Reports to just Reports)</li> <li>2. The charge type tab is not looking at the right place to break out the calls by Call Type, it should be. Everything currently shows under blank.</li> <li>3. Fix Export currently BillingDataExport-DATE.xlsx, should be FiscalYear_BillingMonth_CustomerCode_BilledUsageTodaysDATE.xlsx</li> </ol>
3/11/2020	20107	<p>See attachments for a video of the changes. SP - Call Record fixes</p> <ol style="list-style-type: none"> <li>1: Includes Customer Code filter. The plan is not to put Customer Code into the CES process but to re-write these queries to get the data from a join instead. (Talk with Mark W...) This is also done. Queries on SP now will Historically select the correct Customer Code for the Call Record based on Call Record Date and Billing Start/End dates.</li> <li>2: Fixed the export to show extension and reportname_startdate_enddate. Also changed report file extension to xlsx.</li> </ol>
3/11/2020	20107	<p>Web page Path correction currently from SP/S8Billing/Default/ to SP/DynamicBilling/Default/</p>
3/11/2020	20107	<p>See Attached jpg requests from Darren's visit with customer.</p> <ol style="list-style-type: none"> <li>1. Change the hyperlink starting with welcome to say Config: Name instead of welcome name so it is clear that this can be clicked to get to the user config.</li> <li>2. Rename 'Summary' Tab to 'Billing Summary', 'Usage' tab to 'Billing Usage' and 'Validate' to 'Validate Bill'</li> <li>3. Rename 'Threshold' colors to 'Set Billing Range' and Move these color boxes to the center</li> <li>4. Remove whole lines and text of tab/titles of summary charges and billing summary report</li> <li>5. Search needs previous, next, beginning, last links</li> <li>6. Move search in current place of thresholds colors</li> <li>7. Remove the contains/less/greater than box and remove the red x</li> </ol>
3/11/2020	20107	<p>Fixed the export in dynamic billing summary to include billing month, fiscal year and Customer Code, currently S8BillingPeriodSummaryExport-DATE.xlsx. Should be FiscalYear_BillingMonth_CustomerCode_Expected(or Billed)SummaryTodaysDATE.xlsx</p>



3/11/2020	20107	<p>Added features mentioned in 2D SIG Subscriber Portal Billing/Usage and Validate Tabs 2003701</p> <p>Both the Usage and the validation tabs only show a drop-down selection for dates, which are for FY2020, even though you select the year 2018 or 2019. I have a screen shot attached.</p> <p>It's in a word doc, because the snipping tool would not show the pull-down box. In BOTH the usage screen and validate screens the issue is still there that the billing Periods in the drop down are all for F2020 (which is empty as there have been no cost transfers yet for 2020).</p> <p>Also, FYI, when clicking to the usage page, a brief message "loading" appears, but this issue is still there.</p> <p>This also is the case when choosing only one customer code.</p>
3/11/2020	20107	<p>See Attached jpg requests from Darren's visit with customer.</p> <p>1.DONE: Change the hyperlink starting with welcome to say Config: Name instead of welcome name so it is clear that this can be clicked to get to the user config.</p> <p>Removed the Welcome and just added the name. "Config" does not make sense. Most systems have your name in the top right corner where you can click and see your profile.</p> <p>2. DONE Rename 'Summary' Tab to 'Billing Summary', 'Usage' tab to 'Billing Usage' and 'Validate' to 'Validate Bill'</p> <p>3. PARTIAL: Rename 'Threshold' colors to 'Set Billing Range' and Move these color boxes to the center I don't like Setting Billing Range.... the colors fill in the cost for users. It does not set anything. Moved the colors to the center of the boxes.</p> <p>4. DONE Remove whole lines and text of tab/titles of summary charges and billing summary report</p> <p>5. DONE Search needs previous, next, beginning, last links - The links work now and have tool tips. The &gt; and &gt;&gt; are standard in almost all pagers. No need to make these words. Made the pager way smaller.</p> <p>6. DONE Move search in current place of thresholds colors Moved search and export to the top left of the grid instead of bunched together with the pager.</p> <p>7. DONE Remove the contains/less/greater than box and remove the red x The red x clears the search back to normal. I did not remove the ability to clear the search.</p> <p>Attached image is a recent screenshot of the new page.</p>
3/11/2020	20107	<p>This is finished and will be included in the 201xx release in 2020. See attachments for screen shot of changes.</p>

3/11/2020	20107	<p>This is related to: 20009001-05</p> <p>Brett has worked with Mark to put all these 'Detail' reports into Global reports that are not based on Views. This needs to be extensively tested for Speed. It would be a great test to have the bench marks (attached to this ticket in XLSX) ran again against the same database.</p> <p>I am moving this ticket to DEV Build so we can test it against the San Diego database. Fixed in version 20106</p>
3/11/2020	20107	The billing charts have been removed in 20107. This caused the reports to load very fast.
3/11/2020	20107	<p>Changed the size of the dialog that shows when a New or Change order is selected. Made the text box re-sizable and changed the size of the comments box to be 100% of the screen width.</p> <p>Did NOT change the size of text box when the dialog is resized. BUT when a user types text into the notes area it will resize automatically.</p>
3/11/2020	20107	Empty not text is not allowed on work order notes anymore.
3/11/2020	20107	This was an GUID issue, like the rest of the CAIRS issues. It is now fixed and Organization dropdowns can be seen on the portal.
3/11/2020	20107	UCS Ticket 2005102 - Manage Default Profile for Automatic Subscriber Creation and Manage Default Site for Automatic Subscriber Creation - Fixed error adding to the SystemGUIDSetting table. The GUID field was added for CAIRS web compatibility. If these settings did not exist, and were added later, the guid would be empty, resulting in a duplicate key error.
3/11/2020	20107	<p>-added additional switch connection key "avaya cm" for provisioning the avaya SMS api (cm sat data)</p> <p>-stubs for avaya SMS api calls</p>
3/12/2020	20107	UCS Ticket 2003606 - Fixed: From the Resource Manager Menu in Subscribers, the Organization Selection Grid had no visible columns.
3/12/2020	20107	Fixed: 911 Interface. There was an issue with query dealing with standard directory records and ambiguous field definitions.
3/12/2020	20107	Fixed: From the Orders/Troubles>Reports>Equipment and Service By Category, users limited by site could not run any reports. Any attempt to show all or search for data would return an error.
3/12/2020	20107	Fixed issue with ticket where Add New Dedicated Plant button was throwing Object ref not set to inst. of object.
3/12/2020	20107	Fixed: Users with Sites view in System Admin>Security>Users-Windows fails if there are any users with more than one site assigned because the constraints were being added to the results and could not allow more than one user. This error is also fixed for the following views when duplicate users are in the results: Simple List, Users with Profiles, Users with Sites and Profiles, New Users, and Disabled Users.

3/12/2020	20107	Fixed: Cannot add a member to Office Hunt Group. When there were no scripts related to this action, and the user chose to send to switch, CAIRS.net would crash. This is fixed, and the user will instead get an error message explaining that there are no scripts associated with that action. The action would work without error if the user chose not to send the request to the switch.
3/13/2020	20107	Fixed - Permissions for some menu items were not carrying forward when converting from release 19107 to release 20100 and above. Anyone converting to the release 20107 or later should not be affected.
3/13/2020	20107	Feature: There is a new system setting called "Note Default Font Size" - This setting should be 12 by default. Minimum value = 8, Maximum value = 40. Determines the default font size for all notes created in CAIRS.net. The system administrator can adjust this value, which applies to all users when creating notes. Bug: Fixed a copy to clipboard bug in notes throughout CAIRS.net. When notes are copied and pasted into Microsoft Word or other rich text editors, the font size would shrink to 75% of the original font size. If the clipboard adjustment makes the font too large when pasted, this fix can be turned off at a system level by changing the following system setting to False: "Note Override Clipboard Fix Rich Text Font Size"
3/13/2020	20107	Fixed: Removing 60 character cap on CSV fields. Also custom value fields were not populating to 911 interface files. Fix was placed in where if there was no data returned for that field and there was no defaultValue for the associated field then we would use the custom value field that was entered into the interface.
3/16/2020	20107	Made Include_In_911 field in connectivity table optional. Also had to fix queries used in 911 interfaces that referenced the now optional Include_In_911 connectivity field.
3/16/2020	20107 / 19108	Fixed bug where Avaya syncs were failing with "object ref not set to instance..." error. This was due to the connectivity table not being in the dataset we were syncing from
3/19/2020	20108	Drop downs in SP now linking to Global reports based on respective system settings
3/20/2020	20108	Basic Avaya System Management Service (AES/CM) handling
3/24/2020	20108	-Avaya SMS StatusStation api call implementation -Avaya SMS ChangeStation api call implementation -reflection implementation for all avaya api calls -structure to handle single record returns -switchapiconsole project handling of all new Avaya SMS api calls
3/25/2020	20108	-Added Display Station handling for avaya sms api -Added capability to handle ArrayType fields and differentiating between list arrays and field arrays -adjusted list station call to use same column names as switch responds with, (so we can reflect through)
3/25/2020	20108	Account Management as well as Equipment and Services controls are now disabled until the data loads.

3/26/2020	20108	Fixed bug where a subscriber portal system setting was trying to be added twice.
3/26/2020	20108	CAIRSBDCreator can now generate and import other metadata. There is a checkbox for this.
3/26/2020	20108	Bug found in development branch. Never released into production. ConfiguredSetDevice view change on 3/2/2020 to allow directory number to load correctly for ISDN sets prevented directory number from loading for all sets.
3/27/2020	20108	Added paging abilities to Avaya SMS api calls
3/31/2020	20108	-Avaya SMS Api: Add station and Remove Station -Switch api console tool: add station, remove station, Bulk Add, bulk remove, bulk display
3/31/2020	20108	Complete overhaul of SP Inventory system. SP Inventory now uses Global Reports and contains reports for all components in CAIRS.net.
4/2/2020	20108	External report integration metadata is generated by default to "dynamic" billing
4/2/2020	20108	Fixed the Edit Pending Order in SP. Orders with Buildings were not being loaded correctly. They are now.
4/2/2020	20108	Standardized all exports across SP.
4/2/2020	20108	GUID field was not being set for new for Resource Manager Approval Association, which was added recently for future CAIRS web compatibility.
4/3/2020	20109	Fixed issue with asynchronous calls on avaya SMS api calls (switch api console).. Needed for testing on af stack
4/6/2020	20200	Commands <ul style="list-style-type: none"> <li>•Added the ability to Reset a Subscriber password from CAIRS Web using a Command called Subscriber Password Reset.</li> <li>•Added the following commands to Number Plan Main: CreateNumberPlanRange, UpdateNumberPlanRange, DeleteNumberPlanRange, CreateAlternateNumberPlanRange</li> </ul>
4/8/2020	20109	Added a few more avaya api sms calls (off pbx station and list configuration station) for testing with switch api console
4/14/2020	20109	-Fixed bug in avaya sip sync -added handle column to AvayaUser and it now syncs on it
4/14/2020	20200	Removed old Layout code.
4/14/2020	20200	Added refinements to the conversion process when converting between CAIRS.net and CAIRS Web notes.
4/14/2020	20200	-IronPython integration into SwitchAPIConsole, (run query action) -Standard Python Library import into SwitchAPIConsole, basic python script handling -Additional Avaya models for SMS api
4/16/2020	20109	When saving the Subscriber information from the SP Profile page the Customer Code association was causing a SQL error. This is now fixed.
4/16/2020	20109	Fixed bugs with how the voip switch sync responds to requests. Now does sync on switches where the request history guid is null, (hasn't been done yet).

4/16/2020	20200	Exporting a file from CAIRS Web will no longer save the file to the server first. It will be directly saved to the user's stream.
4/16/2020	20200	Commands <ul style="list-style-type: none"> <li>•Added the 'Copy Profile' command and corresponding server code.</li> <li>•Added the 'Add Subscriber' command to schema.</li> </ul>
4/20/2020	20200	-Regenerated DTOs -restructure of cisco tables syncs for standard sets/directory -Added CiscoDevicePool table sync -Added CiscoDevicePool.Name to schema table
4/21/2020	20200	-Fixed bug with max length in Cisco table sync tables. -Added DeviceInformation cisco tables (cisco) -Added DeviceInformation table syncs (cisco) -Added ProtocolSpecificInformation schema tables (cisco) -Added ProtocolSpecificInformation table syncs (cisco) -Regenerated DTOs
4/22/2020	20109	UCS Ticket 2011203 - Delete 4 old global report external integration metadata records that are no longer used by CAIRS.net, including Call Charge, Charges, Expected Call Charge and Expected Charges. These options have been replaced.
4/22/2020	20200	CAIRS Web DateTime columns can now be filtered by Last Week, Last Year, Today, and similar options.
4/22/2020	20200	Commands <ul style="list-style-type: none"> <li>•Added improvements to Command code.</li> <li>•Commands are now filtered by the user's permissions.</li> </ul>
4/22/2020	20200	-Added Certification authority proxy function information cisco tables (cisco) -Added Certification authority proxy function information table syncs (cisco) -Added MLPP info schema tables (cisco) -Added MLPP info table syncs (cisco) -Added DND info schema tables (cisco) -Added DND info table syncs (cisco) -Regenerated DTOs
4/23/2020	20200	Added a MaxLength property for CAIRS Web columns.
4/23/2020	20200	-Added CiscoDeviceInformationGroup table and modified all related foreign key schema tables to handle building the constraints -Added missing cisco table, CiscoServicesProvisioning -Added cisco tables syncs: ServicesProvisioning, KeySize, SoftKeyTemplate -Regenerated DTOs
4/27/2020	20109	See attached exported file.
4/27/2020	20109	Dynamic Billing will now resolve cost transfers from lowest cost to highest instead of highest to lowest.
4/30/2020	20109	The Fiscal Year GUID is no longer exporting with the Summary Export.
4/30/2020	20200	Unix Times <ul style="list-style-type: none"> <li>•Updated Report Distribution code to handle converting between Unix time and Datetime values.</li> <li>•Added a UnixEndDate property for Report Distribution.</li> </ul>

4/30/2020	20200	Updated NumberPlanMain commands to have the correct keys.
5/1/2020	20109	Fixed the Order required fields issues in SP/Orders
5/4/2020	20109	Fixed help pageFile attachment errors. Can now attach a file without a Category and a new category called 'Help' is created. File attachments on home page will only show File Names not paths. Rearranged the Login screen so it is vertical instead of horizontal. The Login screen uses the logo file uploaded by the Admin if it exists (it didn't do this before), if there is no logo uploaded it will default to the SP logo.
5/4/2020	20109	Fixed Files attachment required exploit. Now file attachments will be forced required, even if the user cancels the request, then try again.
5/4/2020	20109	Removed all Note Size change code. Service Request notes are all just 150px. Works on IE and in Chrome.
5/4/2020	20109	Moved Registration download files, added the right cursor, tool tips and ensured that only the Filename will get saved/displayed to the end user.
5/4/2020	20109	Removed Reset Profile on the Profile/Manage page.
5/4/2020	20109	Changed Welcome Name (Username) to Profile: Name (Username) on top right side of all Portal Pages.
5/4/2020	20200	Fixed an issue where the CiscoDevicePool field 'Enabled' was renamed to 'IncludeinSync'.
5/4/2020	20200	Merged all changes from 20109 to 20200 (Master) 5pm
5/4/2020	20200	Merged all changes from 20109 to 20200 (Master) 10am
5/5/2020	20109	Fixed - Dynamic Billing - Cost transfer would fail if the original billing data predated the Funded Program Account Association cost tracking change. Also the cost transfer would also fail if the imported Charge Date and Time had no value.
5/5/2020	20200	Multiple checkin's throughout the past few days. For Cisco: -Reworked the server side code for Cisco Phones retrieval and Cisco Device Pools (pulling from db and checking to see if any of them are set to include in sync = false) -New tables: CiscoMlppAndConfidentialAccessLevelInformationGroup, CiscoProductSpecificConfigurationLayoutGroup, CiscoDoNotDisturbGroup -More enum values for specific cisco static dropdowns
5/6/2020	20109	Fixed Copy Profile action in System Admin > Security > Profile. (fixed before release)
5/6/2020	20109	Added a Schema relationship between CustomerCodeExpectedChargeSummary and CellPhoneMain
5/6/2020	20109	Added ability for CAIRS Admins to check CEDC database connection by navigating to CEDC and using the new Database Connection Check page.
5/6/2020	20200	-added CiscoCertificationAuthorityProxyFunctionInformationGroup table -regenerated dtos -code clean up in cisco sync area
5/7/2020	20110	CAIRS status bar now shows which server managed the last request. Additional status bar cleanup to prevent the text in the status bar from getting wiped out.

5/11/2020	20110	Switches > VoIP Switch Sync > Sync History - Form was not initializing correctly, resulting in an error.
5/12/2020	20110	SP - Add Save Finished notification on Configuration Page
5/12/2020	20200	cisco developments: - basic framework for building new sets in new sync based off switch record - new helper classes (dd lists, queues, etc) for new sync - Queuing implementation for new sync - small bug fixes from previous sync process and few bug fixes in new table sync processes - expansion on table syncs
5/13/2020	20200	Server Cache <ul style="list-style-type: none"> <li>• Added a Server Cache for metadata.</li> <li>• Remmed out server cache code due to slow loading speed.</li> <li>• Improved the server cache loading speed significantly.</li> <li>• Multiple calls to the database to get reports, schema, and charts have been replaced with code that uses server cache instead.</li> </ul>
5/18/2020	20200	Added FetchTranslationBySchemaKey endpoint.
5/19/2020	20110	FB60 and FV50 views in a Billing Run no longer show zero cost data after aggregation.
5/19/2020	20110	Fixed issue which could allow negative funded account balance after running a cost transfer, due to a rounding issue in the process that reimburses the call charges from the default account and transfers those charges to the account associated to the related extension. Also implemented a counter that runs during this part of the billing process and additional logging.
5/19/2020	20110	Internal change - Disconnected queries that update the database through CoreDAO now start and commit a transaction internally. This makes use of the RecoveryManager possible with disconnected queries that update the database.
5/19/2020	20200	- new cisco sync -- basic cp, cb, cd, ss, ssass, sd, sdass and sb sets/tables are building. - code organization - stubs for adding to group detail tables
5/19/2020	20200	Added a FetchDropdownReports endpoint to the ReportController.
5/21/2020	20200	Fixed an issue with loading default values for columns when a report loads.
5/21/2020	20200	Fixed an issue where a dictionary needed to use a TryGetValue because it would try to get an item that did not exist.

5/26/2020	20110	<p>Lots and Lots of changes in SP. Specifically these tickets: 1914101  2013203  2013500  20009001-06  20009001-07  2013502  2013510  2013500  20009001-06  20009001-07  2013502  2013510</p> <p>Also I hid the Forms login controls if the IIS Authentication is set to Windows or None. Hid the CAC Login button the IIS Authentication is set to Forms.</p>
5/26/2020	20200	cisco syncs adding all missing detailed information to records
5/26/2020	20200	<p>Caching</p> <ul style="list-style-type: none"> <li>-Reports are now sorted by caption when retrieved cache.</li> <li>-Added refinements to getting dropdown reports and translations from the cache.</li> <li>-Refactored more server code to use the cache.</li> </ul>
5/27/2020	20200	Refactored server code that handles charts.
5/28/2020	20202	<ul style="list-style-type: none"> <li>-Renamed many cisco table fields</li> <li>-Bug fix in dbcreator not displaying error messages when failure happens early</li> <li>-few small bugs in cisco sync process</li> <li>-regenerated DTOs</li> </ul>
5/29/2020	20203	Renamed two properties in the schema metadata.
5/29/2020	20203	Added code to schema for dropdown reports.
6/1/2020	20111	Fixed error saving SP configuration when there is no custom Logo on the SP/Configuration page.
6/1/2020	20111	Changed the default sort position of SPSubMenuManagement data.
6/1/2020	20202	Fixed - When opening a record from a global report, then saving from the edit form, the edit form would go behind the menu form.
6/1/2020	20203	Updated database calls on the server to use the metadata cache instead.
6/2/2020	20202	Added User_Main CustomRelationship to RecordLocking table in OpenRecordManagement
6/2/2020	20202	Added RecordLocking as PrimaryTableSchemaKey in OpenRecordManagement menu
6/2/2020	20202	Added CustomRelationship from User to Site, User to Org and UserActivityLog to UserMain
6/2/2020	20202	Removed most of the asp.net web stuff from CAIRS server project. JQuery, CSS classes, etc. We don't use them. Also removed WebPages from the web.config because it was interfering with CEDC and SP
6/2/2020	20202	Cisco new sync: When loading a CAIRS record for the sync, ALL records that make up the cisco CAIRS record are marked as "existing" or "new".



6/3/2020	20111	Defaulted the SP Inventory ExternalReportIteration Metadata to Classic, as per Jared's request.
6/4/2020	20203	CAIRS Web: Fixed an issue with recent records.
6/8/2020	20202	-Cisco New Sync: baseline architecture for existing records sync -Existing CAIRS cisco records query for details (needs constants still)
6/9/2020	20203	Added additional checks when loading the metadata cache.
6/9/2020	20203	CAIRS Web: Added code to check relationships between fields on a field change. Such as Site and Building in WorkOrderMain.
6/9/2020	20203	Added a Circuit Connection Control to metadata.
6/9/2020	20203	CAIRS Web: Fixed a method reference.
6/9/2020	20203	CAIRS Web: Fixed an issue where a report would not load in a sub record.
6/10/2020	20203	CAIRS Web: Added a check for the MetaChange Datatype property on a record edit.
6/10/2020	20203	Added a DatabaseCalls class with some common calls to the database using npoco.
6/10/2020	20203	cisco sync now adds new appearances (line records only). It also syncs existing appearances.
6/11/2020	20203	Updated code using the FieldsNeededBySync property to SyncInfo.FieldsNeededBySync.
6/12/2020	20203	Updated CAIRS Web Postman json files
6/12/2020	20203	CAIRS Web: Cleaned and updated server code due to postman testing.
6/12/2020	20203	-Changed the way we cache/lookup standarddirectory records for the cisco sync. Query now includes records that match the switch guid if it's provided through the numberplanlisting or the sdCiscoAssoc record OR if the Npl is NULL. -no longer syncs the SS.Set_Device_Identifier field on Existing records (still syncs on new records)
6/15/2020	20203	Changed the way that Standard Sets loads changes for the Sync button in the ribbon. The new code uses metadata to find change history through historical associations between records.
6/15/2020	20204	Bug fix related to adding new standardset records in cisco sync where the set_Device_identifier field was null
6/16/2020	20204	Standard Set and NEC Sync - Sync Changes from Standard Sets now loads properly immediately after save. All changes made related to sets seem to load correctly. Status bar shows how many pending changesets there are. NEC sync correctly manages adding and removing numbers from a set or removing users from a number. Still need to manage the history for removing a user from a number from the Standard Set UI.
6/17/2020	20111	Added conversion, Delete Old Assignment Schema-Bound Views. This deletes the 4 schema-bound views that used to be in the Assignment table that were removed to allow for multiple cross connects to be assigned.
6/17/2020	20204	CAIRS Web: Added two new endpoints to help speed up record loading in CAIRS web.
6/18/2020	20204	CAIRS Web: Adjusted how the server detects a dropdown change in.
6/18/2020	20204	Updated some LoadDBSchema calls to use the Metadata Cache instead.

6/18/2020	20204	CAIRS Web: Fixed an issue introduced by combining some api calls.
6/18/2020	20204	NEC Config file now exports Data Entries.
6/19/2020	20204	NEC Sync - Better error handling for data change history logging. Fixed bug related to transferring GUID from history to DTO. Fixed sync issues related to standard button address association. Address and User sync improvements.
6/19/2020	20205	-New cisco sync --Now syncs all detail group tables, existing and new. Also, records deleted from the switch are now marked as removed in the respective CiscoPhone.Sync_Status field
6/22/2020	20111	Customer Code can no longer be deleted if that customer code is linked to an account.
6/22/2020	20205	CAIRS Web: Refactored some queries for loading the profile actions control in CAIRS web. All record reports that should be available will show now - updated cache code.
6/22/2020	20205	Standard Sets - Fixed saving of account management data. Also, if an error occurs while saving equipment and services or any other data fails to save after clicking save and close, an error will now prevent the form from closing.
6/25/2020	20206	Cisco - Standard Sets - Working on being able to add new Cisco records from Standard Sets. Added metadata for Data Rules between Cisco Phone and Standard Set tables to keep the data matching.
6/25/2020	20206	CAIRS Web: Fixed some issues with Dropdown relationship filtering. Fixed an issue where Undoing a pending change did not show the correct value if the field had been changed multiple times.
6/25/2020	20206	CAIRS Web: Fixed an issue with where selecting a different Switch in a dropdown would not save.
6/26/2020	20206	-CTI Route Points sync for cisco: new table CiscoCtiPhones, CiscoPhoneGuid is now optional field in standardsetciscoassociation table and CTIPhoneGuid field was added, (also nullable)
6/29/2020	20206	-CTI devices are now being synced as their own phone type (CiscoCtiPhone) -The StandardSetCiscoAssociation table now tracks CiscoPhoneGuid, CiscoCtiGuid, CiscoGatewayGuid, CiscoMobilityProfileGuid... all of which are now nullable -CiscoPhone records are now the only phone types that have a ciscobutton record... (currently working to phase this table out... all phone types and switch types will utilize the StandardButton table for this purpose instead)
6/30/2020	20206	-Confidential Access Level api calls for cisco -Confidential Access Mode enum list now syncs -Regenerated DTOs
7/1/2020	20206	Commented out some server code to get master to compile.
7/1/2020	20206	Standard Set - Cisco - Standard Set Templates work for Phone and CTI Device Installation Types. Template will automatically select Installation Type. Added data rules for filling Device Name from MAC Address and keeping Device Name in sync between Cisco Phone and Device Information.
7/1/2020	20206	Fixed custom name for calling search space and MOH fields that reference the same dropdown table
7/2/2020	20207	Cisco sync: CTI Ports are now syncing as CiscoPhone records not CTI devices

7/7/2020	20112	<p>Inventory – Service Request Changes</p> <ul style="list-style-type: none"> <li>• Fixed related field help. We now show field help on inventory service request fields.</li> <li>• We now show the type of device and how many are ready to be saved.</li> <li>• Now when saving the service request, if there are other requests with missing fields a message will display showing the component name where the required fields are missing.</li> <li>• Added the Paste from previous functionality but named it 'Paste from first' because it will copy what every you put into the first request and that data can be pasted to all remaining requests.</li> <li>• File attachments now work the same in Service Requests and Inventory Service Requests.</li> <li>• Show a message after closing the Modal window that shows the components that were saved and a link to each of them.</li> </ul>
7/8/2020	20207	<ul style="list-style-type: none"> <li>• Added more Postman Tests</li> <li>• Added server code for dropdown changes to affect related fields.</li> </ul>
7/9/2020	20207	Added refinements to drop down server code.
7/10/2020	20207	Refactored server code for better readability
7/13/2020	20207	Exclude charts when looking for a reports total record count.
7/14/2020	20207	<ul style="list-style-type: none"> <li>• Fixed a CAIRS Web bug when checking data rules.</li> <li>• Added code to undo related field changes.</li> </ul>
7/14/2020	20207	Added a new menu, Record Reference History under System Admin > Security. Working on data change management for Cisco Standard Sets.
7/15/2020	20111	Fixed CAIRS API for SQL SELECT Queries.
7/15/2020	20207	<ul style="list-style-type: none"> <li>• Updated Postman tests and fixed a subfolder issue that caused some tests to not run correctly.</li> <li>• Changed reference to 'sch' from 'schDrop' that was a keeping the server from compiling.</li> <li>• Fixed a query that was failing to run. Found from postman tests.</li> <li>• Removed postman tests related to file attachments.</li> </ul>
7/16/2020	20207	<ul style="list-style-type: none"> <li>• Reverted a previous change so that the client can read pending changes correctly.</li> <li>• Pending change coordinates are returned to the client when opening a record and fetching menu data</li> </ul>
7/20/2020	20207	Db Tool now ignores non-'dbo' schema table/views. These tables/views will not be touched during update. Nor will they cause a problem during a database update.
7/20/2020	20207	Cisco Sync now removes unused line appearances on cisco sets.
7/21/2020	20111	No longer going to the RIS api when opening up a cisco phone record. The registration sync handles all of the IP address, registration data
7/21/2020	20207	<ul style="list-style-type: none"> <li>• Fixed an issue where CAIRS Web notes were not updating after a Note Category was removed</li> <li>• Added missing schema for Call Accounting tables</li> <li>• Added Custom Commands for Run Process Now and Cancel Process</li> </ul>
7/21/2020	20207	cisco sync: now gateway devices won't include the Certification Authority Proxy information and Do Not Disturb groups.

7/22/2020	20111	Fixed an error in CES, which could cause CES to shut down with an invalid operation exception if both the "Dynamic Billing Manager" CES process and the "Vendor Media Import Manager" CES process try to run in the same timeframe.
7/22/2020	20207	-Added Gateway table sync -gateway guid on ciscophone table now -sync now associates ciscophone records to gateways
7/22/2020	20207	Cisco sync - sync status and status date fields are now updated to "in sync" and current time when a record is included in the sync. Regardless of if it's found out of sync or not. On a full sync, all records will update these 2 fields. On a changes only sync ONLY the records that show changes will be updated. Previously these fields would only be updated if the main ciscophone record was found out of sync... now it updates with any table change on the record.
7/22/2020	20207	Db Tool no longer throws precheck error if VersionStamp column is added to table without specifying a default value, (and the table has data).
7/23/2020	20111	Fixed object error issue with AliTransferData CES service,
7/23/2020	20207	Added a refinement to the CAIRS Web delete code.
7/23/2020	20207	-Removed CiscoGatewayGuid from STandradSetCiscoPhoneAssoc table. -regenerated dtos -removed old references to CiscoGatewayGuid
7/24/2020	20204	RelatedColumns error handling when user clicks 'show all' before grid is loaded.
7/24/2020	20207	<ul style="list-style-type: none"> <li>•Updated Postman Tests</li> <li>•Added FieldCustomization to server cache</li> <li>•Regenerated DTOs</li> <li>•Added Dial_Code_Description field to UCE_DigitsToAdd and a VersionStamp field to FieldCustomization</li> <li>•Added a GetArchiveDatabase endpoint.</li> </ul>
7/28/2020	20207	•Commented out some code until a compile error was fixed.
7/29/2020	20207	<ul style="list-style-type: none"> <li>•When a new report is saved, LastReportByUser is updated so the report will show afterwards.</li> <li>•Added an optional parameter to MergeStorage to update the Metadata cache.</li> <li>•Fixed a cache issue.</li> </ul>
7/30/2020	20111	DB Tool now ignores encrypted views
7/30/2020	20207	<ul style="list-style-type: none"> <li>•Only Menu Report will get saved to the LastReportByUser table.</li> <li>•Added a CanEdit property to schema that will determine which fields in a table are editable.</li> </ul>
7/31/2020	20207	•Merged in Mark M's Postman tests.
7/31/2020	20207	-new cisco sync incorporates mislinked record fixes -new cisco sync leverages old code that links number plan listings to legacy cisco tables
8/3/2020	20111	The password fields in network devices, which are not used by CAIRS.net, have been hidden, and will be made visible and encrypted in a future release when functionality is added that allows for communication with devices on the network.

8/3/2020	20207	<ul style="list-style-type: none"> <li>•Removed the SystemMetadataUserRecordLayout table from schema.</li> <li>•Regenerated DTOs after removing SystemMetadataUserRecordLayout.</li> <li>•Cleaned server code due to removing the SystemMetadataUserRecordLayout table.</li> </ul>
8/5/2020	20111	Dedicated Plant no longer defaults to Dedicated with Port. For new connectivity, this is now controlled by a system setting, with a default value of Not Dedicated.
8/5/2020	20207	<ul style="list-style-type: none"> <li>•Added schema properties to more fields that will not be editable in CAIRSweb.</li> <li>•Regenerated DTOs</li> <li>•Updated the hidden property on columns.</li> <li>•Partial check-in of CAIRS web import code.</li> </ul>
8/5/2020	20207	Cisco Phones now show all unassociated assigned line data. This shows in the old ciscophones area and is needed for the new sync
8/6/2020	20207	Modified how buttons are parsed and loaded from the cisco api. Fixed bugs where unassigned associated items were not showing up. Fixed indexing issues during parsing of BLF's. Got rid of the unnecessary api calls to the same GetPhones method for each button.
8/10/2020	20207	<ul style="list-style-type: none"> <li>•Added ExportLayout endpoint and related code.</li> <li>•Fixed an issue in the ReportLibrary file.</li> <li>•Added refinements to CAIRS Web importing.</li> <li>•Added a fix to CAIRS Web importing and connectivity tests.</li> <li>•Updated postman tests.</li> <li>•Updated more CAIRS web import code.</li> </ul>
8/12/2020	20207	<ul style="list-style-type: none"> <li>•Changed the data returned by a CAIRS web import.</li> <li>•Refactored CAIRS web Copy Profile command to increase speed.</li> </ul>
8/13/2020	20207	<ul style="list-style-type: none"> <li>•Fixed some report builder filtering issues with contains, begins with, and ends with</li> <li>•Fixed an issue with adding filters to reports for dropdown fields with contains.</li> </ul>
8/13/2020	20207	<p>Cisco syncs:</p> <ul style="list-style-type: none"> <li>-new architecture for syncing other button types, (speed dials, intercom, etc)</li> <li>-new table CiscoSpeedDial and syncing capabilities of speed dials</li> <li>-DTO regeneration</li> <li>-new settypebutton button types for new cisco button types (cisco intercom, cisco unassigned intercom, cisco speed dial, etc)</li> </ul>
8/14/2020	20111	<ul style="list-style-type: none"> <li>•Fixed some report builder filtering issues with 'contains', 'begins with', and 'ends with'</li> <li>•Fixed an issue with adding filters to reports for dropdown fields with 'contains'.</li> </ul>
8/17/2020	20207	Added code for Compatibility of Report Date Filters between CAIRS.net and CAIRS Web.

8/20/2020	20111	Fixed issue in 201XX and Master build. -911 data not showing up for CISCO sets has to do with the field in CrossConnect "Include in 911" -To fix this before getting code update, just make sure the field in crossconnect is filled out to "default" or "always". This can be done individually or through a SQL query
8/20/2020	20207	-progress logging in cisco sync -added ciscobutton.unassigned field -regenerated dtos
8/20/2020	20207	Cisco sync now handles: intercom, speedialblf and blfdirectedcallpark buttons. All added to their respective table.
8/21/2020	20207	-Cisco Sync now syncs Unassigned Associated regular lines correctly
8/25/2020	20207	-Sync now adds basic StandardSet/StandardDirectory records for legacy cisco sets, (ciscophone records missing a respective StandardSetCiscoAssociation record). This is done PRIOR to the actual sync.
9/4/2020	20111	NEC Sync - Fixed Device Sync to use the MAC Address for the ID instead of the Name.
9/4/2020	20208	-cisco sync now brings in device profiles (extension mobility) as CiscoPhone records -sync bug fixes and code cleansing -new CiscoDeviceProfileInformationGroup table -DeviceProfileInformationGroup data now added to respective cisco table for extension mobility profile records -added additional name look up for dndOption records (table sync) -adjusted the way we lookup device classes to prevent additional incoming formats being set to the wrong device class (bug fix here also) -regenerated DTOs
9/9/2020	20209	Updated DoD warning message in CAIRS.net, CEDC, and SP to meet latest JITC requirement.
9/11/2020	20208	Added billing reports that are shared between the customer code and billing period records when dynamic billing is turned on. This option allows for reports to be grouped together and excel spreadsheets generated from those reports.
9/17/2020	20113	Not released bug fixed - Stackoverflow would occur when opening a global report with multiple levels of search.
9/23/2020	20209	-Bug fix in multi-threading operation for cisco sync - sync much faster and not prone to hang up -Cisco Registration Sync modifications -CiscoOwnerId.CucmGuid changed to string to handle non-MS guid formats -Fixed bug in query locking SQL -> (StandardButton insert was locking CiscoIntercom insert when in a transaction)
9/24/2020	20209	Updated DeserializeJSON method to handle JsonCustom.
9/24/2020	20209	Fixed bug where SetButtonFeautres.Switch_Feature_Text column wasn't large enough for data being imported.
9/24/2020	20209	Cisco registration sync now syncs logged in Extension Mobility profiles.

9/25/2020	20210	Fixed how we determine the correct version of AXL objects to use. API calls will fail if a switch version is 2 ahead of what we currently support, not only 1 ahead. (e.g. switch version = 11 > axl objects of version 12 can be used, NOT version 13).
9/30/2020	20210	fixed issue in cisco sync where records weren't being marked for removal when changes only consist of removed records.
10/2/2020	20113	Bug fix: Global Reporting. Dynamic billing reports for billing period and customer code would fail under some conditions when files completed report files were being transferred from the server back to the CAIRS.net client. (This bug was not released)
10/5/2020	20210	Global report builder - Allow report configuration to load even if a related table or view is missing.
10/6/2020	20210	-registration sync now includes cti remote points -Extension mobility sync no longer deletes all em logins first. It syncs existing em logins to prevent unnecessary inserts
10/7/2020	20210	Fixed bugs where changes only sync wouldn't mark gateway devices or cti route points as removed correctly
10/9/2020	20114	Bug Fix: Issue getting 911 data from CES if CUCM records exist in DB. <ul style="list-style-type: none"> <li>• Allows 911 automated files to run if they have CUCM records in database regardless of if they actually want to output those records in a 911 interface.</li> <li>• Allows users to use the "Include all numbers" options in the 911 template to allow or disallow multiple listings of same number for CUCM (Even if duplicates are also on button 1)</li> <li>• Cleans up the old issue of blank rows in NENA export</li> </ul>
10/13/2020	20210	Reworked how Cisco gateways are saved. Now Cisco phone links to a gateway member which then links to a gateway domain. Added calls to get the gateway endpoint: Slot, subunit and port. Port information is now being saved on sync.
10/13/2020	20210	Removed MenuItem Search criteria for Subscribers.Disabled and User.Disabled fields.
10/14/2020	20210	Added more concatenation delimiter choices to Report Builder (-,_,/,\\, etc) Now report cast non-strings to VARCHAR if they are being concatenated
10/15/2020	20210	Added CiscoExtensionMobilityLoginInformation and CiscoGatewayEndpointAndDomain views for the CAIRS.net client to display extension mobility and gateway information inside of the record itself. regenerated dtos
10/16/2020	20114	Changed way Remedy interface debug logs to file.
10/19/2020	20210	cisco sync - all SQL transactions are called inside of one method that's wrapped inside of a single recoverymanager execution method.
10/20/2020	20211	Cisco Sync Fixed bug due to wrapping transactions into single recoverymanager.execution method. (Dictionary passed byref)
10/21/2020	20211	-Fixed NEC and Cisco Syncs to NOT clear the service log if syncing additional switches

10/21/2020	20211	-Fixed issue in a cisco switch where the Sync Now button was syncing all switches. -All cisco sync processes now default to use the new sync, (standard set option = use switch default)
10/22/2020	20114	#201022 Organized common code used for filtering SQL WHERE clause for 911 interface. Selected NNX had filter issues for records other than configured sets. Also fixed bug object error on modifying prefix for AS5300 and CUCM .
10/27/2020	20211	Switches > Feature Management: Added SwitchFeatureSection table, which allows features to be grouped into sections.
10/27/2020	20211	-Fixed bug in cisco sync where gateway members were being updated outside of transaction -Removed SOLR reindexing on ces services
10/29/2020	20111 and 20114	Cisco Phones - Fixed object reference error when loading a phone from the cache that needs to be updated from the switch.
11/2/2020	20111 and 20114	Cisco phone records no longer blank out phone config section when adding new line appearance to set
11/4/2020	20212	-Added CiscoGatewayUnitData table to track Cisco gateway slot, subunit and port information -New table sync to track gateway unit data -Special metadata properties on CiscoGatewayMember to link slot, subunit, port and gateway back to CiscoGatewayUnitData -Fixed loop in global reporting JoinManager to not miss last join element in array
11/5/2020	20213	-Added new SwitchSettingsCisco table -Repair to convert Switch.Sync_Changes_Only value to new SwitchSettingsCisco.Sync_By_Changes_Only -Removed Switch.Sync_Change_Only column moved references to new table SwitchSettingsCisco -regenerated DTOs -Now cisco registration sync portions utilize SwitchSettingsCisco settings to determine if they'll run or not.
11/5/2020	20213	Cisco registration sync no longer clears service log on each switch (only clears on first instance)
11/17/2020	20214	Standard Sets - Feature Management - Completed update of feature management and added the ability to create and add sections.
11/17/2020	20214	-Added base architecture for Vendor Config data in the cisco. -Commented out Product Specific Configuration Group comparison data since it'll no longer be utilized. -NEW Vendor config records are being added. <u>-Still need to work on Comparison of existing records.</u>
11/18/2020	20214	Standard Sets - Feature Management - Database Change - Removed Display Text and Position from StandardButtonFeatureParameter table. These values are loaded from the feature definition data and are not needed.
11/19/2020	20214	Organization - Fixed - GUID column was visible in Related Account pane.



11/24/2020	20211	#201124 911 CSV files were having issue with new code put in to deal with duplicate numbers if user unchecked "Include all numbers"
11/24/2020	20214	-Fixed bugs in matching numbers on cisco sync with no cucm guid. -Fixed bug in feature management in regards to cisco product specific config layout -Cisco sync logging adjustments
11/30/2020	20115	Global Report Builder - Changed the breadcrumb so that it shows the path in parenthesis, with the current source before the grouping. This makes it visually more clear which data source is currently selected.
11/30/2020	20115	Global Reporting - Customer Code and Billing Period reports - Fixed unhandled exception deleting a report group.
12/1/2020	20115	Global Reporting - Report Export Groups - Refinement - If there is a report group with no reports, then that report will be removed automatically when the record is saved, and no error will occur. This reduces confusion and prevents illogical groups (with no reports) from being saved with the other valid groups.
12/1/2020	20115	Global Reporting - Added metadata needed to link work orders / troubles to existing configured items for report building purposes.
12/1/2020	20115	Excel Export - Worksheet title - Automatically replace the following invalid characters with a dash (-)... /, \, ?, *, ], [, :
12/1/2020	20214	Global Reporting - Report Export Groups - Refinement - Improved the error message that occurs when a report that is part of a report group has been deleted and a user tries to generate that report group file.
12/1/2020	20214	Standard Sets - Switch Sync / Data Changes - Added support and metadata to allow changes to records in specific tables that need to provide additional information to switch syncs to log those additional details. This additional metadata could also be used in any case in which additional data needs to be logged related to a change, if needed.
12/1/2020	20214	Adjusted all the core data import/exports to handle the new SwitchFeatureSection table and the cisco sync automatically editing the tables regarding switch features
12/2/2020	21101	Added server code to limit the number of logon sessions per user.
12/4/2020	20116	Global Report Export Groups - Fixed the way that cells were formatting. Previously formatted as text only. Now the format is based on formatting rules used elsewhere in CAIRS.
12/4/2020	20116	Customer Code - Global Reporting - Fixed "The report has already been added to this group error that occurs when adding a report to a group, then changing the Fiscal Year or Billing Period.
12/4/2020	21101	-Added Registration Status to cisco phone display class. -Changed order of ciscophone fields
12/8/2020	20117	Global Report Export Groups - Additional fix related to the way that cells were formatting. Fixed new issues with formatting quantity and date values. Date/Time fields now use the format specified in a global report, if specified for that field.

12/8/2020	21101	Global Report Export Groups - Fixed the way that cells were formatting. Previously formatted as text only. Now the format is based on formatting rules used elsewhere in CAIRS. Fixed issues with formatting quantity and date values. Date/Time fields now use the format specified in a global report, if specified for that field.
12/10/2020	21101	CAIRS Server Installer - Removed all components and references to Solr.
12/11/2020	21101	Cisco syncs now log to the Script History area ... once again.
12/14/2020	21101	Cisco Registration sync logging for clarity
12/14/2020	21101	Cisco changes only sync now does a full sync if CAIRS's next change id is less than the first change id in the cisco, (CAIRS is too out of sync for changes only sync).
12/15/2020	21101	Added code for CAIRS.net to use the session checking code.
12/15/2020	21101	Switch api console now handles looping listChange api call for testing change frequency in CUCM for cisco sync by cycle time
12/16/2020	21101	Caching special fields for cisco device information instead of looking up in switch for every record.... speed increase on cisco switch sync
12/17/2020	21101	Added a HideTechnicalDetailsInErrors setting and updated exception handling code to use it.
12/17/2020	21101	UCS 2013505 - Created ResolveExtension() to get the extension value and open the Reject Calls View.
12/18/2020	21101	Cisco sync: Fixed logging to run on both threads. Added filter to Old records conversion, (only runs as necessary now).
12/18/2020	21101	Bug fix in cisco switch sync when syncing phone model and phone button template fields
12/22/2020	21101	Updated logging messages for JITC tickets.
1/5/2021	21101	Cisco special numbers no longer have ciscobutton, ciscodirectory, standarddirectory or standarddirectoryciscoassociation records. (Speed dials, BLF speed dials, intercoms, directory call park)
1/6/2021	21102	-New cisco switch setting, Sync Product Specific Configuration Layout. Sync now utilizes this setting and will sync this section of a set during the regular cisco switch sync if this box is checked otherwise, this section will be skipped. -regenerated dto's
1/22/2021	21103	-Fixed bug in assigning set types to standard set records when phone model on existing ciscophone record is null. -Not converting records that have been marked as removed to standard sets
1/25/2021	20117	Empty rows will no longer be added to NENA 911 file. ie. when default standard records are all set to NONE
1/25/2021	21103	#210125 UCS 2028300 Option in CSV file to get rid of quotes.
1/25/2021	21103	fixed bug with cisco sync trying to import ciscobutton records that already exist.
1/27/2021	21103	Closing CAIRS.net now ends the user's session.
1/27/2021	21103	Standard Sets - If any changes need to be synced, and updates from CAIRS to the switch are enabled in the system, then the sync form shows on Save.

1/28/2021	21104	NEC Sync - CAIRS to NEC - Fixed delete in cases where the Station Name does not match the Device Name. Fixed Add as well, which had a bug that was never released.
1/28/2021	21104	Now in cisco sync, if button needs to be recreated the CiscoButton is deleted first if exists.
2/1/2021	21104	Fixed small bugs related to gathering directory number on Cisco CTI route points when the NPL is associated to 2 switches.
2/2/2021	20111	Fixed issue with multiple listings where the primary record was on a set that did not have location data. Location for appearances were being included in 911 file which could be incorrect and cause adding and deleting every time a "C" interface was run. If 911 is not "Include All Numbers" then we need to exclude anything that is not a primary listing (ie. DirectoryLine.PrimaryDirectoryLineListingGUID = null)
2/2/2021	21104	AS5300 - If the "Connectivity Required" system setting is false, the AS5300 form was still requiring connectivity.
2/12/2021	21104	Cisco Sync - Initial release of CAIRS to Cisco sync ready for testing. Fixed issue that was sometimes preventing any errors that occurred during the sync from loading in the standard set record after the sync completed.
2/18/2021	21104	Added Customer Code Site Assoc to allow for multiple sites to be related to a customer code. Updated related views. Removed the Site directly on the Customer Code record. Conversion during database update transfers the site data to the new association table.
2/24/2021	21104	-removed solr reindexing after syncs -adjustments to avaya switch report parser to handle duplication issue with 'data sets' in a regular display station
2/25/2021	20111	Fixed issue in Avaya sync parser to account for no spaces AFTER the button number
2/25/2021	20111	Cisco - Fixed error loading single phone from Cisco Phones menu. Updated RIS Proxy to handle unexpected results from SelectCmDevice method of RIS API. This is meant to prevent an "Index was outside the bounds of the array." error.
2/25/2021	21104	Updated the PortalDynamicCallDetail view for SD Portal Validate Bill by Vendor. Removed references in the view to BillingPeriodImportedCalls.  The SP/Billing/Validate Billing tab will not have correct details until Mark W finished the data conversion to move all data from the BillingPeriodImportedCalls table.
2/25/2021	20111/20116	Removed CAIRS.net client field validation for Cisco phone template and phone model
2/26/2021	21104	In an order or trouble, when the user clicks "Contact Info" in the ribbon, the system would show an error when either a TCO or subscriber had not been selected. Now the message says that there is no TCO/subscriber currently selected.
3/2/2021	21104	Added the TCOGuid field to the GetChanges function of the OrgData table. This field was removed years ago, but never added here, so older databases still had the field which would cause a problem in CAIRS Web with the archive database.

3/4/2021	21104	Updated postman tests
3/4/2021	21104	Cisco sync service no longer fails when a single record from the CAIRS to switch update fails.
3/5/2021	21104	Removed DTO references and made database calls more generic
3/9/2021	21104	Rewrote the Cisco Device Pool form in switches.
3/9/2021	21104	Added data rules for billing updates
3/9/2021	21104	Fixed issue where if a process that's dependent on another process is running, other processes would be prevented from running
3/9/2021	21104	New CES Service - Cisco Changes Only Switch Sync - this will NOT run a full sync. Cisco Switch Sync service will only run a full sync.
3/10/2021	21104	Cleaned and combined data rule code.
3/10/2021	21104	Dynamic Billing - Removed Calls tab from billing run record form. All billing detail is in the Charge tab.
3/12/2021	21104	Added billing data rules for each configured item.
3/12/2021	21104	Syncing single standard set record now syncs through CEDC. For Cisco it now forces the sync on the single record instead of only if it's in the changes set
3/15/2021	21104	<ul style="list-style-type: none"> <li>Deleted the Circuit Connection Control and renamed the Cross Connect Control to Circuit Connectivity.</li> <li>Fixed an issue with the default column size when adding a new field in CAIRS web.</li> </ul>
3/15/2021	21104	Fixed bug in db updater where failures would persist through db update iterations... even when it was finally successful.
3/16/2021	21104	Separated CAIRS to cisco and cisco to CAIRS syncs. Single Standard Set recs sync through CEDC, not through CES. CAIRS to cisco deletes updates and adds are now done through
3/17/2021	21104	Updated and fixed issues with the billing data rules for segments and cellphones
3/18/2021	21104	SwitchAPIConsole now serializes data from the cisco switch and saves to file... the beginnings of a cisco sync from file option.
3/18/2021	21104	<ul style="list-style-type: none"> <li>Updated permission check code on server side for accessing reports.</li> <li>Added an endpoint to retrieve a single db schema item.</li> </ul>
3/19/2021	21104	<ul style="list-style-type: none"> <li>Renamed a property for clarity.</li> <li>Added a LoadTableRelationshipList endpoint for the report builder. Updated Postman.</li> </ul>
3/19/2021	21104	When a CES process runs from CEDC through the generic async code, it was not logging to failure properly, so if the UI was still monitoring, it continued to show the status as "In Process" even though the process had failed.
3/22/2021	21104	Save and New throughout CAIRS.net would not unlock the previous record before reloading the form for adding a new record.
3/23/2021	21104	Imported CAIRS web reports now get checked for required fields.
3/23/2021	21104	Removed CAIRS.net client side field validation for Cisco phone model & phone template
3/24/2021	21104	Added logging to call repricing CES process to make it easier to understand the reason why a call does not get repriced. Each reason is only logged once.

3/25/2021	21200	Removed the option to update a database using the old update method. Only the metadata update is available now.
3/31/2021	20111	Avaya api calls now rely on the Switches > switch connection > security protocol setting when creating http request. (sandia testing maybe)
3/31/2021	21105	Avaya api calls now rely on the Switches > switch connection > security protocol setting when creating http request.
3/31/2021	21105	-Building a cisco all phones data file in switchapiconsole no longer saved the raw query record to Complete record (data savings) -switchapiconsole (v9.3) saved basic record list before complete record list -Switchapiconsole (v9.4) also now saves records differently by saving/serializing single records first then serializing one file at the end -Cisco sync now accounts for missing rawdataquery records, (gateways mostly)
4/5/2021	21105	Bug fix - switchguid now included when inserting missing device pools in Cisco switch
4/5/2021	21105	Global Reporting - CAIRS.net client - Date / Time columns only showed hours and minutes for times. Now the system uses the Windows "long time" format, which should also include the seconds.
4/5/2021	21105	Sync from file option is now available for Cisco. Minor improvements to switch api console all phone data dump action (v9.5)
4/6/2021	21105	Removed Standard 911 file and changes. Integrating Standard 911 changes directly into existing 911 interface
4/6/2021	21105	Increased default ciscophone.protocol field length
4/6/2021	21105	Added metadata relationships for global reporting for the following fields in BillingPeriodImportedCharges: BillingFundedProgramGUID, CurrencyExchangeRateDetailGUID, CurrencyExchangeRateMainGUID, ExchangeRateTypeGUID, FundedAccountAssocGUID
4/6/2021	21105	SP - Updated code that resolves the Windows user name to honor the config file setting, "UseAltUsername" which is used for debugging in IIS Express.
4/6/2021	21106	Quick edit mode disabled by default switchapiconsole(v9.6)
4/7/2021	21106	avaya api calls now handle a null security profile type in the CAIRS switch connection
4/7/2021	21200	Added "Cleanup Old Logs" CES process. Currently, this process cleans up the Service Exception Log (General Error Log) and deletes records older than 1 year (up to 10,000 records).
4/8/2021	21106	-Switch api console (v9.6): -now logs on demand -switch api console new action to run cisco sync from file- setting for file sync location -More logging  -Optional logging to external application in switch instance base
4/8/2021	21106	Standard 911 output integrated into 911 Interface
4/12/2021	21106	version update on switchapiconsole now preventing duplication on cisco switch dump
4/13/2021	21106	Fix in 911 interface SQL query relating to the Switch for CUCM StandardSets

4/13/2021	21106	In vendor invoices, when trying to upload attached invoice files, if there are failed files, the message, "Please select a file to import" was incorrect and confusing. Replaced this message with "There are no files that are ready to import. Please roll back any failed imports, and attach any additional files if needed."
4/13/2021	21106	-better caching when syncing cisco from file -small bug fixes related to specific type of cisco records
4/13/2021	21200	911 API refined to allow optional number/site/switch filters. Number search will return one record. Site/Switch or no filters may return multiple records.
4/13/2021	21200	(merge from 211XX) -better caching when syncing cisco from file -small bug fixes related to specific type of cisco records
4/19/2021	21200	Changed the Code field in the UCE_DialCodes table to default to 8 characters instead of 6.
4/23/2021	21106	CEDC was using wrong setting to check if technical error details should be hidden.
4/28/2021	21200	Converted file attachments and notes to the CAIRS web format. Added the ability to save attachments to notes.
4/30/2021	21106	Fixed issue with order by for 911 Query. User also able to define FunctionCode now. For creating an initial file of all records with a "C" to update records. For updating all data through Allison for VESTA.
4/30/2021	21106	Fixed conversion for CrossConnects. Really old DBs that do not have Include_In_911 field will now skip repair
5/4/2021	21107	-switchapiconsole issues with not showing all actions -Small Cisco sync bug vendor config sync was triggered by the extension mobility checkbox, (not the product config switch checkbox)
5/6/2021	21200	Added connectivity diagram to network devices. Changed the diagram to be interactive by allowing users to click on ports, which highlights the related connections and associated ports.
5/11/2021	21107	Multiple changes: Standard Set now refreshes after sync is complete. In Global Report builder, display and sort can now be reordered with drag and drop. In the menu, Standard Directory is now first in its group. The pending changes sync form no longer shows the change details right away, but instead shows a link to allow users to see the changes if desired, which makes that form easier to understand.
5/12/2021	21200	CAIRS.net menu system. For menus that support global reports, the system will remember if a global report was last loaded and will initially load that report instead of the default view for that menu.
5/14/2021	21200	tables for Avaya implementation in Standard Sets/Directory
5/18/2021	21108	Floor field in CAIRS crossconnect is a string, should never have tried to convert to int. Caused error for CEDC API phone location update
5/18/2021	21200	Avaya standard set sync stubs. Avaya basic switch file parser. Slight code restructure, (renames/moves) to aid in Avaya standard sets implementation
5/19/2021	21108	Fixed bug when saving cisco records with no button templates (ie gateway analogs). Server side no longer looks for phone button template when saving. Also, accounts for resizing btn array based on this fact.

5/19/2021	21200	Fixed: After a subscriber gets saved, if the Authorized or Disabled fields were originally null, the user would get a 'System.InvalidCastException: Conversion from type 'DBNull' to type 'Boolean' is not valid.' error. This would prevent the system from sending a new portal registration email to the subscriber, but the record would actually still save successfully.
5/20/2021	21109	CEDC Phone Location Update API. Cleaned up successful location update logging messages.
5/21/2021	21109	Auto generate new building when running Update Phone Location API
5/21/2021	21109	Fixed issue where cisco sip profile was being blanked out when updating a set.
5/26/2021	21109	fixed issue where cisco syncs would fail if there was a discrepancy in a table sync
6/3/2021	21109	911 Bug with non -defined custom Function Code causing I or C to not appear.
6/7/2021	21109	Valid AF email with number at beginning of string would be incorrectly invalid
6/22/2021	21110	Users Limited by Site get ambiguous field error when trying to load Ports in a Switch record.
6/23/2021	21110	Added 5 custom date fields to Customer Code.
6/24/2021	21110	Added 5 custom date fields to Subscriber.
7/13/2021	21111	Once maximum session count is reached, previous sessions will now continue to work. Refined the error message at system startup when too many sessions are open. Also, any timers running from the menu, such as Instant Messenger, count orders and count troubles, don't run if the user does not have permission to perform those related actions.
7/13/2021	21111	Fixed bug in SL100/cs2100 parser where LTIDs with longer than usual names were being stripped.
7/13/2021	21111	-Fixed issue in cisco switch sync where single synced records were being marked as removed. -Fixed Cisco sync pending changes WPF text to not overlap button text
7/16/2021	21202	CAIRS.net now remembers the size, position, and visibility of columns in a global report.
7/16/2021	21202	Replaced Standard Set Import Project with Bulk Import Project. Bulk imports completed for Cell Phone and Hardware. Existing records can now be updated through the bulk update process. Import data from files can be deleted by deleting the related import file from the bulk project. Matching import data is combined when imported.
7/19/2021	21203	Global Report Column Customization - Updated metadata cache when resizing fields so CAIRS.net will correctly remember column widths when resizing, hiding, or showing columns in a global report. (further updates were needed to the feature in 21202 build to manage caching).
7/20/2021	21203	Global Report Server Cache fix - Was not caching saved reports to server, which was causing any changes to report to disappear when navigating away and back to the related menu.

7/20/2021	21203	Standard Set Sync - Fixed sync option to include update both CAIRS and switch when the changes are all set as ready to sync. This was previously only allowing an overwrite CAIRS data option.
7/21/2021	21203	Standard Sets - Cisco - Fixed update existing phone in CAIRS to Switch sync.
7/26/2021	21204	fixed bug in pre-update repair - CustomerCodeBilledAssignmentAssoc - to build table if not exists before running repair.
7/26/2021	21204	fixed bug in pre-update repair - CustomerCodeBilledAssignmentAssoc - to build table if not exists before running repair.
7/27/2021	21204	Fixed bug where cisco single sync would do full syncs on other switches NOT where the record resides.
7/27/2021	21204	Fixed bug where cisco 8 switches would do full sync during changes only sync
7/27/2021	21204	RelatedColumns error handling when user clicks 'show all' before grid is loaded.
7/29/2021	21204	<ul style="list-style-type: none"> <li>-Removed conversion from legacy cisco phones to standard set/directory records</li> <li>-Created repair with conversion from legacy to standard set (cisco). Repair slated for v. 4.0.14.21111.</li> <li>-Removed the process of deleting StandardSetCiscoAssoc records when appearances are deleted</li> <li>-Fix for Marks TryLoadNPoco when looking for standard directory records. Uncommented Matts old code that pulls this in successfully.</li> </ul>