

IRIS Secure Apps 4.14.0 Release Notes

Overview

This document contains information regarding the changes made in the latest release of IRIS Secure Apps 4. A history of previous releases is also included for reference.

Latest Release

IRIS Secure Apps 4.14.3 (4.14.3.17171)

New Features

- 48287: Added a "Start Management Call" action to the ISA API.
- 48345: Added a new "Estate Health" report that the status of Diallers. This is available in the VoP Reports app.
- 48480: Added "Get Serial Number" action to the ISA API.
- 48675: Added the ability to Export a list of Rejected Diallers to an excel document. This can be found in the System Analyser's Rejected Diallers tab.

Improvements & Fixes

- 45509: Fixed a minor bug that was causing re-use of an asynchronous socket operation whilst another operation was already in progress on a given SocketAsyncEventArgs instance.
- 47103: Fixed a minor bug causing a deserialization exception in the Polling Engine bulk Logger.
- 47815: Modified the default value of Notification_links.IsEnabled setting = "TRUE" to handle issues seen updating ISA 2012 to ISA v4 databases.
- 48391: Fix to API HealthCheck.
- 48448: Fixed issues with reporting anonymized usage metrics back to AddSecure.
- 50317: Fix Alarm State Machine not logging failed alarm calls correctly.

Previous Releases

IRIS Secure Apps 4.14.2 (4.14.2.5270)

New Features

- None

Improvements & Fixes

- 47082: Addressed an issue with un-sanitised connection strings being logged during database connection faults. All passwords are now scrubbed from the logged data.
 - 47171: Fixed an issue with the communications watchdog that caused an integer overflow after 49.8 days of continuous operation. This bug could cause Polling Engines to crash and has now been fixed.
 - 47194: Modifications to Dialler counts in Dialler Detective to improve clarity of the number of Diallers which are either: Healthy, fault, or inactive
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IRIS Secure Apps 4.14.1 (4.14.1.1103)

New Features

- Added Multiple ARC Destinations to the Multiple ARC Links feature
- Added 'Deliver System Alarms to this ARC' setting.

Improvements & Fixes

- 32714: Fixed log entries being sent to incorrect database by centralising the logging and adding a check when writing to log.
- 33105: Fix for incorrectly configured Windows Firewall during installation of standalone ISA web UI.
- 35048: Changed behaviour of retry attempts setting for ARC links to allow for a configurable number of attempts.
- 35133: Fix for handling invalid JSON DateTimes reported by Terminals.
- 35411: Fixed an issue that could cause the Polling Engine's TCP server to become locked up when operating in unstable environments.
- 37001: Fixed permissions for CLEANUP_Service_Status.
- 37327: Fixed issue causing the Service_Status Build Line to be removed, which in turn caused web interface login errors.
- 38270: Added validation to multiple ARC links and multiple destination feature toggles.
- 39068: Removed Accounts_Statistics_Polling_Totals table from the cleanup.
- 39083: Amend SP SECUREAPPS_PollingEngine_GetPollEnginePairLinks to accept longer link names.
- 39583: Amend SP REPORTING_Get_VOP to add a cursor to make use of linked servers when querying the pollingEngineLogYYYY-MM-DD databases.
- 40699: Fixed issue with displaying PE Pairs on Fresh System.
- 41046: Remove redundant items from Archive databases.
- 41467: Fixed issue where redundant rollback was causing unnecessary exceptions to be logged.
- 41546: Fixed System Monitoring on suspended backups and removed backups from fault counts when backups suspended.
- 41619: Added a configurable timeout for PollingEngineActivityTask.

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- 42300: Added a fix to ensure the Polling Engine doesn't ACK if MSMQ is unavailable and shows queuing faults in the UI.
 - 42383: Fixed a bug with View Activity Log timeout.
 - 42387: Added a better indicator for ARC link issues.
 - 42485: Improved validation on ARC links settings page.
 - 42530: Hidden "Camera", "Mains" and "Battery" status indicators on the Dialler Analyser.
 - 42568: Fixed a bug that prevented two Dialler Analyzer reports from being generated at the same time.
 - 42705: Removed option "None" from ARC connection options
 - 42741: Improved ARC Link fault Email Notifications when Multiple ARC Links are in use.
 - 42782: Update ISA User Manual with GSM and UTMS details.
 - 42886: Added missing permissions for PeriodicTaskServiceRole on Accounts_History_Faults tables.
 - 43119: Added Multiple ARC Links and Multiple ARC Destinations to the ISA User Manual
 - 43141: Fixed support for Archive_History_Alarm_Transmission_Times and Archive_History_Faults databases.
 - 43143: Fixed unused templates deletion.
 - 43292: Fixed the synchronisation SPs to drop rather than truncate tables.
 - 43515: Fixed layout of System Features Window.
 - 43592: Fixed an issue with display of selected ARC links in Multiple ARC link mode.
 - 43598: Added more descriptive warning messages to ARC Link deletion validation.
 - 43621: Modification to ensure that ARC Links that are disabled to show as warnings rather than failures.
 - 43643: Fixed Alarm send failure on disabled ARC Link.
 - 43644: Fixed an issue causing alarms to be handled by wrong polling engine.
 - 43674: Increased the height of the ARC settings form to display all controls.
 - 45320: Fix for an issue that incorrectly caused alarms to be queued for later delivery on ARCs that had been disabled.
 - 45606: Fixed an issue with inconsistent build numbers between the build pipeline, built applications, and installer application.
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IRIS Secure Apps 4.13.0 (LA) (4.13.0.60121)

New Features

- Created archive databases to store large history tables to reduce pressure due to 10gb database limit.

Improvements & Fixes

- 31765: Fixed IP validation when Synchronisation service is not on same server as ISA web interface.
- 32846: Correct the base API login password.
- 34579: Added dbUser to SUPPORT_Fix_Orphaned_Users.
 - Replaced reference to sp_Change_Users_login with Alter User as this is being deprecated.
 - Rearranged SQL statements into user order to aid readability.
 - Sorted results by name.
- 34629: Remove old SecureApps User Manuals from solution.
- 35673: Added "SELECT DISTINCT" statement to stored procedure [SECUREAPPS_Users_GetUsersWithSameOrSubsetOfRoles]. Doing so prevents a dictionary key violation that was causing unexpected errors in the ISA web UI.

- 36020: Fixed an issue with VOP report not presenting any data on the screen.
- 37714: Fix an issue where long dialler link names were preventing polling engine details being saved or preventing all dialler links being displayed.
- 37887: Added scripts to create ISA infrastructure.
- 38266: Fixed an issue when synchronising deletions from SA to PE when the temp table was truncated rather than dropped.
- 38510: Fixed calculations of numbers of diallers in each state in Dialler Detective.
- 38879: Replaced System.Net.Mail SmtplibClient which is now obsolete, with SmtplibClient in FluentMail library.
- 38921: Replaced sqloledb with msoledb in the ISA installer.
- 39565: Fix to Polling Engines, Forwarding Stations and ARC Links views to remove error messages which continued to be displayed after action cancelled and view returned to read only state.
- 40628: Created new script to verify SYNC'd tables.
- 41027: Fixed PeriodicTask polling_engine_id range checks.
- 41462: Increase cleanup timeout.
- 41469: Renamed COPYBACKUPMISSING to BACKUPMISSING as refers to last backup file missing not the copy backup file.
- 41587: Fixed permission on Archive_History_Faults and Archive_History_Faults_Reported table for ReportGeneratorService.
- 41741: Fixed dialler counts in Dialler Detective
- 41831: Fix to backups by renaming COPYBACKUPMISSING to BACKUPMISSING. Also moved check for suspended backups to the start of the backup process. Updates will now take place for each status that matches the required criteria for any db backup. This can result in more than one status update occurring within the backup process. For example: one db backup is successful but another fails, we will update the status for BACKUP and BACKUPFAILURE.

IRIS Secure Apps 4.12.0 (4.12.0.43239)

New Features

- Release of ISA Polling Engine Pairs [Connect-1 only]

Improvements & Fixes

- EN50136-1 section 7.5.3.3 ATSN availability reporting
 - Added new availability report by ATSN Category and ATSN Group. Also added new time period selections of Week & Year.
 - Added number of accounts to ATS Category and ATSN Group reports.
 - Added button to VOP to create an excel report listing all the Account availability by ATS Category/Group
 - Fixed availability % to display filtered results not system availability when account, group or ATS Category/Group selected
- Fixed IrisAmgLink unit tests
- Updating accounts history faults with tombstoned value from accounts when fault end is null. This happens during periodic task of table cleanups.
- Fix Cannot construct data type datetime exception thrown in Reporting when invalid day given for month.
- Improvements to polling engine library exception handling
- Updated ImsKeyUpdateTerminalVersion to v4.19.7

- Removed ASTN Group from all Templates. ATSN Group now set by Dialler
 - Fixed UpdateIPRemote unit tests
 - Fixed inability to disable security keys
 - Fix debug that requires new user to change password twice
 - Fixed bug that was consuming memory while user generated Historical Report for Polling Status in Dialler Analysis app
 - Added limitation of the service status cleanup to last two versions
 - Updated REPORTING_Get_Dialler_Version_Summary to record DS models as gprs rather than wifi
 - Added new account status to the Reflasher App of 'Terminal Up to Date' for terminals that return a status of 'UpdatesNoneAvailable'.
Session Status set to
 - 1 - 'Completed' where all reflasher accounts in session have a status of 1 - 'Reflashed',
 - 4 - 'Unit Swapped'
 - 7 - 'Terminal Up To Date'
 - Fixed handshake between polling engine and terminal when repower of terminal coincides with a new key
 - Addition of UMTS fields (name and firmware)
 - DAL's models updated, db views generated
 - Polling engine logic implemented
 - Fields visible within Iris Secure Apps web interface
 - Fixed the validation for polling engine zero wait connections while adding via webAPI.
 - Amend webapi to allow retrieval of accounts with a description up to 512 characters long.
 - API_SaveDialler amended to allow the initial saving of descriptions of more than 100 characters.
 - Fixed to stop overriding the PE pair on a Dialler with the Template PE settings, when a Template is added.
 - Fix to prevent WebAPI.asmx method CheckDestinationCapacityExceeded() failing
 - Fix to prevent WebAPI allow to add account with different group than the PEs, when the pairs are in use
 - Fix for the terminals being excluded from some reports etc. because they weren't be polled for a time higher than retention policy.
 - Change accountID parameter in GetFaults to be Int32 instead Int16
 - Fix verification performance report error for custom date.
 - Fix to only call SECUREAPPS_Accounts_Settings_DestinationsSetDestination if pePairs are not in use or we are not a template.
 - Fixed System Analyser ARC message display to ensure most recent messages are always included.
 - Fix to API_SaveDialler to set template ATS report settings where dialler template is set.
 - Removed the validation of group numbers when saving templates.
Removed group number validation against PE's using 'Panel'.
Removed check for diallers using a polling engine when creating a new polling engine.
 - Updating Signing Certificates
 - Updated user manual
 - Fixed issue where under certain circumstances Polling Engine Pairs were unable to be added to a new installation.
 - Prevent templates being created with PE's using different group numbers.
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IRIS Secure Apps 4.11.1 (4.11.1.35586)

New Features

- None

Improvements & Fixes

- Fix for Description field length in ISA WebAPI (Connect-1 systems only in this release)
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IRIS Secure Apps 4.11.0 (4.11.0.34480)

New Feature

- Added additional communication fields to GetAccountStatus endpoint in the WebApi

Improvements & Fixes

- Updated excel reporting from .xls to .xlsx.
 - Fix to add Line Receiver details to faults
 - Added Max Rows To Select to Reporting tab in General Settings
 - Added warning message to reports where data truncated to the value defined in `Service_settings.'Reporting Max Rows To Select`
 - Improvements to CID message handling
 - Improvements to System Messages creation / editing
 - Global Settings screen amendments with System Messages now in a new Tab
 - Validation added to First Message
 - Security key updates sent during a persistent session will end the polling session.
 - Upgrading .NET Framework to 4.8 version in whole solution
 - Removed reference to System.Net.Http v4.2.0 from IrisSecureApps project as not compatible with .Net 4.8
 - Fixing bug when user has enabled groups and tries to add / edit dialler with PE that has different group or a panel PE
 - Added validation to the Polling Engine Network Location
 - Improvement to IrisConfiguration tool to create log in local directory
 - Improvement to Reflasher sessions to display start date in local time
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IRIS Secure Apps 4.10.2 (4.10.2.30941)

New Features

- Polling Engine Pairs (For Connect use only)

Improvements & Fixes

- None
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IRIS Secure Apps 4.10.1 (4.10.1.30007)

New Features

- None

Improvements & Fixes

- Synchronisation service updated to:
 - Perform a full table resync after receiving repeated FK exceptions
 - Perform a partial table resync if:
 - Row count at ISA is greater than that at PE
 - LastUpdate (if applicable) as ISA is more recent than that at PE
 - Improved reliability of reloading of parameters by moving the resetting of the reload flag to the acknowledgement phase of a given polling session
 - Improvements to the purging of old Security Keys in the Secure Apps database to reduce the amount of data necessary to re-synchronise
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IRIS Secure Apps 4.10.0 (4.10.0.28057)

New Features

- Default templates conforming to accepted ATS categories.
- Create new templates from the default ATS category templates
- Added option to switch off backup tasks for customers running their own backups

Improvements & Fixes

- Improvements to reflashing to use the feedback from the new Information Elements added in release 4.9.5
- Support for additional checking call parameters for 2nd and 3rd stations for 2N panels
- Added missing statuses and object types to LOG_read_statusSynchronisation stored procedure
- Line Receivers view to display Last Update and Last Signal
- Bugfix to backup failures when external backup software is also in use
- Added new timeout setting for clean up and purge tasks
- Improvements to tighten security and limit permissions
- Added link information and polling engine name to Arc link failure email
- Allow special foreign language characters in usernames and roles
- Improvements to user manual to correct an error in section 9.6
- Hardening of error handling in the Polling Engine's polling state machines
- Set secure flags on all cookies
- Modification to the handling of security keys to allow a Polling Engine to be set to operate in IMS mode or ISA 4 mode.
- JQuery updated to 3.6.0
- JQuery-ui updated to 1.13.2
- Fixed an issue when specifying the installation location of the SQL Server
- Improvements to the ISA 2012 to ISA 4 migration tool to ensure white space is handled correctly
- Extra logging and protection has been added to handling of Announce messages in the Polling Engine's alarm state machines

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- Fixed minor issues with permissions for new pending AT commands table and the Periodic Task Service
 - Added collation handling to daily view generation
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IRIS Secure Apps 4.9.6 (LA) (4.9.6.17042)

New Features

- None

Improvements & Fixes

- Fix to improve the synchronisation of AT commands between polling engines.

Additional Notes

- This release is a Limited Availability release (LA) for ISA-4 in Connect platforms only. The improvements to the synchronisation of AT commands will be made available for all ISA installations in the next General Availability (GA) release. In the meantime, ISA 4.9.5 remains as the latest (GA) release for all ISA customer installations.
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IRIS Secure Apps 4.9.5 (4.9.5.15627)

New Features

- Strict ARC Heartbeat mode a new option available in ARC settings allows for the heartbeat between Polling Engine and ARC automation to be set to a fixed regular interval

Improvements & Fixes

- Improved Reflash status reporting to the internal logs for Terminals of version V4.14 or higher.
 - Additional terminal information in Dialler Analyser (Advanced)
 - Updates to ISA User Manual to explain use of Regular Reports and Roles & Users
 - Fix to remove duplicates from the sample transmission times report
 - Script to tidy up missing ATS reporting links
 - Fix to prevent multiple sub groups from same groups being added to a role's dialler access
 - Fix to polling engine deletion to tidy up some related links
 - Fix to casing in JSON metadata appended to ISA alarm messages to match Terminals
 - Fix to consolidate all recurring reports to C:\Users\Public\Documents\IRIS Reports
 - Link ID added to PEARC status in System Detective.
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IRIS Secure Apps 4.9.4 (4.9.4.10162)

New Features

- New user views to enable end user querying of alarms, polls & poll-overdue tables and dialler status information.
- New periodic task PTUDV that recreates the user views each day

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- New API Client library.

Improvements & Fixes

- JQuery library updated to 3.5.1.
 - JQuery-UI library updated to 1.12.1.
 - Transmission Times and PE Downtime Reports have been additional protection to prevent an exception in the event of erroneous data being received.
 - A HealthCheck method has been added to WEB API to return status of system components.
 - Improvements have been made to security of installation package.
 - A fix has been implemented to limit the number of accounts granted new Security Keys when new accounts are added.
 - The edition of SQL Server deployed with ISA has been updated to SQL Server 2019 Express.
 - Several minor security enhancements have been made.
 - A minor issue validating the number of permitted "Zero Wait" accounts has been corrected.
 - A minor issue with the display of SIM card details in the Dialler Analyser has been corrected.
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IRIS Secure Apps 4.9.2 (4.9.2.7833)

New Features

- User Defined Branding of the ISA Web UI.

Improvements & Fixes

- None
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IRIS Secure Apps 4.9.1 (4.9.1.7660)

New Features

- IRIS Polling Engines now support multiple Line Receiver inputs which can be configured via the Web Interface.
- Two new recurring reports have been added for producing a "Sample Transmission Time Report" and a "Weekly Polling Engine Downtime Report", both in CSV format.
- The Recurring report feature has been enhanced to allow for users greater control over their configuration.
- Web & SQL APIs extended with new calls allow for requesting a Terminal to be reflashed.

Improvements & Fixes

- CID protocol system messages have had a minor improvement to correct an issue that occurred when generating their checksums.
- The performance of the Web Interface has been improved significantly when modifying Templates that are in use by large numbers of Terminals.
- Additional protection to end any outstanding reflash sessions for accounts during deletion.

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- A minor correction has been made to the display of the Availability Reports to ensure consistency between different screens.
 - ATS reports are now rounded to 2 decimal places
 - Transparent emulation mode has been modified to prevent the stripping of CID protocol message checksums.
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IRIS Secure Apps 4.9.0 (4.9.0.5588)

New Features

- Polling Engine Internal task status display in the System Detective App.
- New API Calls for creation of Connect Intercom accounts and to allow reloading of account parameters.

Improvements & Fixes

- Improvements to accuracy and consistency of the Performance Availability Reporting feature of the Dialler Analyser.
 - Improvements to the Dialler Dialogue to address an issue that caused multiple accounts to have their status resent when trying to update a single account.
 - Modifications to the Installer package to address an issue with some Web Interface components not being upgraded.
 - Please note, because of this change the upgrade process will require running through the install options as though performing a first time install.
 - Fix to prevent erroneous details about internal PE tasks being displayed in the Help about page.
 - Fix for overdue count in ATS Reporting
 - Additional protection to end any outstanding reflash sessions for accounts during deletion.
 - Improved consistency of the results returned by the Dialler Smart Search feature.
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IRIS Secure Apps 4.8.0 (4.8.0.3810)

New Features

- New Verification of Performance reporting features added to the Dialler Analyser App.
- Transmission Time, Availability & Reporting Time analysis features added to performance reporting
- Recurring report feature extended to add a Year to Date Polling Engine fault report.
- Recurring report feature extended to add Transmission Time report for the previous month.

Improvements & Fixes

- New status indicators added to the Dialler Analyser for mains and battery faults.
- Minor fix for incorrect display of mains and battery voltage indication in Dialler Analyser.
- Improvements to display of SIM ICC number and SIM Phone number in IRIS Secure Apps Web interface.
- Improvements to ensure the Dialler Dialogue App displays Group Number when that feature is enabled..
- Minor fix for a Null data error when Backup completed but ISA was flagging failure.

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- Minor fix to ensure the RSA panel config for 'Texecom 168 serial' does not show TTL as default.
 - Improvement to automatically update the relay status indicators in the Dialler Dialogue App.
 - Improvements to display of group number for long account names.
 - Fix the issue where ARC links not correctly assigned when using multiple ARC links.
 - Introduction of a new configuration setting "LineReceiverInUse", to stop Line Receiver from starting by default in new installation.
 - Fix the issue detecting Line Receiver inactivity.
 - Added COM Port panel type configuration to RSA template screen.
 - Improvements to the accuracy of Line Receiver fault reporting.
 - Fix for conflicting information in dialler detective.
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IRIS Secure Apps 4.7.1 (4.7.1.2516)

Improvements & Fixes

Amendment to account creation from Web API.

IRIS Secure Apps 4.7.0 (4.7.0.2403)

New Features

- Functionality of the IP Line receiver added to the polling engine for the Iris AMG Link service
- Status of the line receiver displayed in System Detective
- Option to be notified by email in case Line receiver faults

Improvements & Fixes

- Relay status changed from On/Off to Open /Close
 - Data migration now correctly handles IP addresses that contain leading zeros
 - Data migration now initialises the priority field for links settings
 - The size of the of the payload between the PE and the terminal is now protected against overload
 - Fix to activate relays to function correctly when terminal is polling to PE's other than PE1
 - Fix issue where old DB's were not being removed from the PE's
 - Change default values for SA and PE maintenance task so that they are not running at the same time
 - The terminal IMEI and serial number are now shown in Dialler Analyser
 - Logging of ISA configuration changes now shows more details regarding the data that was amended
 - Terminal setting for single / dual path can now be configured from ISA and Connect provisioning
 - Relay nomenclature has been made more consistent across the applications and now shows the physical state of the relay i.e. Open or Closed
 - PE station fifo archive now includes all signal in final state
 - Dialler Dialogue now allows resending of status for a range of diallers
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IRIS Secure Apps 4.6.0 (4.6.0.1221)

New Features

- Support for Ext3 board and 3 additional relays
- Enhanced security options on user passwords, limiting number of repeating characters and ability to force a change of password on a regular (days) period.

Improvements & Fixes

- Replace Server time with UTC time at the top of the Iris Secure Apps form
 - Visual verification is no longer offered and has been removed
 - Correction to provisioning of elevator audio gain
 - Correction to default setting of IrisAmgLink
 - Correction to backup task to ensure full backup exists
 - PE ARC connections restart on failure
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IRIS Secure Apps 4.5.1

New Feature

- Provisioning of Elevator terminals

Improvements & Fixes

- Correction to provisioning of volume controls
 - System Analyser displays only what the user / role has visibility of
 - Time zone enhancements to Dialler Detective Historic Reports to display in local time
 - Changes to Authoriser to allow finer control of access to Allocator options
 - Changes to Allocator to allow / deny access to the individual menu items base on the Role permissions
 - Changes to Authoriser and Allocator to allow a user to only edit the description field of a dialler
 - Under certain circumstances AT commands actioned by a PE were not being sent to other PE's
 - Display local time of SA server at the top of the Iris Secure Apps form
 - After disabling dialler hardware, ISA4 now correctly reports that dialler is not polling
 - If an alarm is not able to be sent after 10 retries, ensure that it is logged in the DB
 - Additional error handling around connections between PE and ARC
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IRIS Secure Apps 4.4.0

Improvements & Fixes

- Changes to retry mechanism for dropped connection between PE and ARC
 - System Analyser includes hyperlinks to allow viewing of pictures
 - System Detective displays more useful messages
 - CID message support for System Messages
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IRIS Secure Apps 4.3.0

New Feature

- Support for the AddSecure Connect managed service
- New API to allow remote provisioning of terminals including SIP parameters and Elevator settings.
- Additional message metadata in SIA and CID alarms to allow recording and reporting of transmission time for Analytics within AddSecure Connect.
- IRIS AMG Link for AddSecure Connect
- Support for CID protocol Q (10 digit account codes)

Improvements & Fixes

- Number of persistent terminal connections limit raised to 5000
 - Speed improvements to the ISA GUI.
 - Extended the housekeeping routines to clear out aged settings and statistics.
 - The Synchronisation service will always synchronise to PE's that have a DBVersion matching that of ISA.
 - The installer no longer duplicates firewall entries.
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IRIS Secure Apps 4.2.2

New Feature

- Multiple ARC Links, supporting the ability for each Polling Engine in a single Secure Apps System to report to multiple ARCs

Improvements & Fixes

- Fix to remove the reliance on the system model database when generating reports. This fix only affects systems that have the Iris Secure Apps database on a different server to the management services' logging database
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IRIS Secure Apps 4.2.1

Improvements & Fixes

- Improvements to the RSA Service, increasing uptime and enhancing stability
 - Simplified the synchronisation service and improved synchronisation performance between servers
 - Extended logging and in-field diagnostic capability of synchronisation
 - Simplified the Installer
 - Implemented structural changes in preparation for Visual Verification
 - Further security enhancements to address recommendations from penetration testing
 - Re-branded Secure Apps to ISA-4 by AddSecure
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IRIS Secure Apps 4.0.8

Improvements & Fixes

- Improvements to alarm signal handling for Alarm Forwarding
 - Improved configuration options for StationAttemptCountLimit
 - Improvements to Alarm Forwarding to retry forever using a ratcheted retry strategy
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IRIS Secure Apps 4.0.7

Improvements & Fixes

- Added a new function to the Web API for setting the RSA Template of a Dialler
 - Added extended logging to Alarm Forwarding to assist in diagnosing issues on customer networks
 - Added a configuration file entry, for Alarm Forwarding, to allow manipulation of the number of attempts made to forward an alarm before generating a failure
 - Fixed an issue with Alarm Forwarding in which alarms which had been successfully forwarded were reported as failed
 - Fixed an issue with Alarm Forwarding in which alarms may be inadvertently sent to both main and backup stations in some circumstances
 - Temporarily removed the option to generate Verification of Performance reports while issues in the Dialler's calculation of alarm transmission times are investigated
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IRIS Secure Apps 4.0.6

Improvements & Fixes

- Improved configuration options for email notifications
 - Internal enhancements to improve the responsiveness of the Secure Apps Web UI after reports of reduced performance on some systems
 - Added migration of ARC Messages to the 2012->V4 Migration Tool
 - Various other minor Migration Tool enhancements
 - Fixed issue related to Connect Diallers which would sometimes poll excessively when an Ethernet trouble timer was configured for their account
 - Resolved a bug in the API_SaveDialler function so that it can now be used successfully to modify an account
 - Fixed an issue in which the Polling Engine could stop when an ARC link was disrupted
 - Resolved a bug in the Alarm Forwarding filter setup interface which prevented the first filter from functioning correctly
 - Enforced a minimum Dialler link soft start period of 30 seconds after a system, that had previously been upgraded from ISA 2012, generated false overdue alarms during an upgrade with this setting at 0
 - Resolved a bug in the API_SetRelayState function so that it is now able to successfully set the state of a relay that hasn't been previously set from the Web UI
 - Fixed an issue whereby it was possible for a Dialler to be locked out of the system when its Security Key was being automatically updated
 - Improved the synchronisation of status information between Polling Engines and Secure Apps, resolving an issue which could cause false Polling Engine failures to be reported in some circumstances
 - Incorporated a minor fix to the Verification of Performance report so that Diallers that are tombstoned for the entirety of the report period are no longer included
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IRIS Secure Apps 4.0.4

Improvements & Fixes

- Improved handling of Dialler firmware version strings for VOP reporting
- Minor enhancements to VOP report format

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- Improved handling of Security Key exchange for zero wait connections
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IRIS Secure Apps 4.0.3

Improvements & Fixes

- Fixed an issue affecting systems using zero wait in which Dialler settings may not be sent to the Dialler correctly
 - Fixed a bug affecting French language browsers in which spurious errors may appear in the AppBar
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IRIS Secure Apps 4.0.2

Improvements & Fixes

- Enhanced the 2012->V4 Migration Tool to allow for variations in 2012 data
 - Fixed Installer issues affected non-standard installations
 - Rebranded user manual for IRIS Secure Apps 4
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IRIS Secure Apps 4.0.1

Improvements & Fixes

- Optimised storage of historical data to reduce duplication and improve report generation times
- Enhanced the performance of real-time synchronisation between Polling Engines and Secure Apps to support the increasing load requirements of our biggest customers
- Improved the database backup procedures
- Incorporated minor web improvements following extensive 3rd party Penetration Testing
- Improved the ARC link reconnection with AMS software on re-start of polling engine
- Improved the overall experience of Polling Engine restarts in order to address the demands of Windows Server 2016's Windows Update process
- Reinforced the resilience of the Remote Service Server against connection dropouts and incorrect use of the Remote Service Client
- Added support for Groups in RSA client
- Rebranded as IRIS Secure Apps 4 (Previously IRIS Secure Apps 2016)
- Many other build changes and bug fixes