Infor System i Workspace AnyWhere Feature Pack Release Notes

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About this guide

The purpose of this document is to describe new or changed functional and technical capabilities of this Infor System i Workspace AnyWhere Feature/Fix Packs, and previous Feature/Fix Packs.

Intended audience

This function brief describes new or changed functionality and is intended for users of the system, system administrators or professional services who install and configure the system.

Related documents

You can find the documents in the product documentation section of the Infor Support Portal, as described in "Contacting Infor" on page 7.

Contacting Infor

If you have questions about Infor products, go to Infor Concierge at https://concierge.infor.com/ and create a support incident.

The latest documentation is available from docs.infor.com or from the Infor Support Portal. To access documentation on the Infor Support Portal, select **Search > Browse Documentation**. We recommend that you check this portal periodically for updated documentation.

If you have comments about Infor documentation, contact documentation@infor.com.

Chapter 1 Overview

The purpose of this document is to describe the functional changes in this Infor System i Workspace AnyWhere Feature Pack and previous Feature/Fix Packs.

Supported Infor Applications

The following section shows all the Infor IBM i ERP applications that are supported under this release.

- Infor Anael Finance iSeries 8.0

- Infor Anael Paie iSeries 7.0

- Infor LX 8.3.5, 8.4.0, 8.4.1 and 8.4.2

- Infor System21 (Core and Style) 3.0 and 3.1

- Infor System21 (Core) 3.2

- Infor XA 9.1, 9.2 and 10.0

Dependencies

To implement On Premise Single Sign on, IBM EIM needs to be installed on the IBM i server. The license for EIM comes as part of the OS/400 entitlement, so there is no extra license cost involved.

Licensing & Installation

There are no licensing changes specifically for Infor System i Workspace AnyWhere. However, as the product integrates with other Infor IBM i-based applications it is important to consult the relevant product documentation for licensing requirements.

Language Support

This release supports the following Languages/Locales:

- UK English
- US English
- Chinese
- Dutch
- French
- German
- Italian
- Spanish
- Czech
- Polish
- Turkish
- Russian

Caution: Japanese and Korean are also supported, but only for customers who have specific agreements with Infor to allow System i Workspace to function in these languages.

Client Software Support

This release of Infor System i Workspace AnyWhere has been enhanced to support multiple web browsers, running on a desktop PC, regardless of the client platform(s) versions that that web browser supports. The supported web browsers are…

Browser	Client Platform Requirements
Google Chrome	https://support.google.com/chrome/a/answer/7100626?hl=en
Microsoft Edge	https://docs.microsoft.com/en-us/deployedge/microsoft-edge-supported-operating-systems
Apple Safari 15	Apple Mac OS Monterey

Caution: Due to the minimum screen resolution requirements, Infor System i Workspace AnyWhere is unsuitable for use with these browsers on mobile devices and most tablets.

Caution: Supported Applications, Languages and Client Software may be revised and updated during the product lifecycle. Please see Infor Xtreme for latest certified support.

Chapter 2   Functional and Technical Changes in this Release

Enhancements

ERS 105660: Add field data to Data Grid Export rows

Designers can now add additional columns of data into the exportable output from a Data Grid within the 5250 AnyWhere Emulator. The content of the column can come from either an input or output field on the current application screen, or from a Designer Variable. The additional column data is only processed when the user selects one of the Export menu options at run-time.

Additionally, the System Administrator can enable, per Workspace Profile, the ability for users to add their own additional columns of data into the exportable output from a Data Grid within the 5250 AnyWhere Emulator. When this feature is enabled, a new option is added to the Export Data dialog, once the screen processing of the export has completed, which the user can use to add their own columns of extra data, with any column changes saved within the Web Browser storage and re-used the next time the same Data Grid is exported. The content of the column can come from any available input or output field on the current screen.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide and the Infor System i Workspace AnyWhere Product Guide for more details.

Bug Fixes

Security

BT 0014370: The Infor System i Workspace AnyWhere Installation & Administration guide has been updated for IBM i installs to include steps to implement a hard-redirect to the default web context (usually `/systemi`)

BT 0014380: Update for Apache Commons FileUpload to resolve vulnerability CVE-2016-1000031

BT 0014381: Update for SLF4J (The Simple Logging Facade for Java) to resolve vulnerability CVE-2018-8088

BT 0014382: Update for OWASP ESAPI to resolve vulnerability CVE-2022-23457

BT 0014392: The Infor System i Workspace AnyWhere Installation & Administration guide has been updated for IBM i installs to include steps to disable the "X-Powered-By" HTTP Header

BT 0014393: Change to the "Strict-Transport-Security" HTTP Header to add the `includeSubDomains` property

BT 0014394: Corrected the Content-Security-Policy HTTP Header based on recommendations from UpGuard scan report

BT 0014421: Update for Xalan to resolve vulnerabilities CVE-2022-34169 and CVE-2014-0107

BT 0014422: Update for Apache Commons IO to resolve vulnerability CVE-2021-29425

BT 0014428: Minimum System i Manager version must now be at level 202

Other Changes

BT 0014379: Additional logging from ActionList internal class for support use

BT 0014391: Toolbar icon enabled states in "Edit Fields Used For Window Title" dialog now match the current list selection

BT 0014395: Performing a consecutive refresh for Action List results (with Company Authorization enabled) now returns correct Outstanding Actions counts

Chapter 3   Changes from Previous Releases

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Enhancements

ERS 97555: User-controlled column changes on 5250 AnyWhere Emulator Data Grids

Infor System i Workspace AnyWhere system administrators can now enable a new UI feature that will allow their users to modify the column layout of Data Grids (or Tables), added using Designer, within 5250 AnyWhere Emulator screens.

When this feature is enabled (against each Profile within Workspace Configuration), users will be able to change the order of the columns within the data grid to their own preference, or to hide columns if they contain data not relevant to their role. These changes are saved within the browser and will be re-applied on subsequent display of the same screen. These changes can also be removed by the user to restore the default layout of the Data Grid.

This new feature is disabled by default, and must be enabled by the system administrator.

See the Infor System i Workspace AnyWhere Installation and Administration Guide and the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 106236: Allow Feature Packs to be installed silently via command line

For customers deploying Infor System i Workspace AnyWhere Feature Packs to multiple installations on the same server, the Feature Pack installer can now be executed silently to allow automation of this process.

See the Feature Pack's *Read Me* file for more details.

Update to Infor Design System 4.92.1

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.92.1 (see https://design.infor.com/ for more details about IDS).

Customers that have utilised IDS in their Infor System i Workspace AnyWhere/5250 AnyWhere Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.89.0 version (released as part of Infor System i Workspace AnyWhere FP22).

Tomcat 9.0.87 Upgrade

The Apache Tomcat Upgrade Installer will upgrade Apache Tomcat to version 9.0.87, which includes support for "Partitioned Cookies" that Google Chrome has introduced (see KB 2327894).

Bug Fixes

5250 AnyWhere Emulator

BT 0014345: An error message will be shown to the user if the IBM 5250 Data Stream sends no data (e.g. an issue occurs during the TELNET/5250 connection process)

BT 0014347: The correct TELNET/5250 syntax for 0xFF values in the data stream is now sent

BT 0014352: IBM OS/400 PDM commands now show text without truncation

Task Processing

BT 0014124: Users will now not be able to run a 2nd 5250 AnyWhere Emulator task until the 1st task is complete

BT 0014336: Resolved issue with Virtual Device naming when over nine 5250 AnyWhere Emulator sessions already exist for a user

Other Changes

BT 0014325: The 'Import Existing Screen Design' option in the 5250 AnyWhere Emulator Designer's File menu is now working.

BT 0014328: The "No Data" icon is now displayed within the Classic UI mode in all Data Grids

BT 0014329: Creation of a new Action Tracker Query (via 40/WFIWMADM) is now working correctly

BT 0014337: Updated the version of the LX 8.4.2 Drillback file

BT 0014353: Updated translations for this release

BT 0014356: The Export facility in Manage Design Data option now encodes XML special characters in the output file, and supports the same characters on Import

BT 0014366: Removed session-based conditioning around `mingleURL` parameter sent to NetLink tasks

BT 0014354: Support for internal keyboard messaging from Infor/3rd Party Apps

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Enhancements

ERS 96927: Restore standard Numeric Plus key function

The Numeric pad Plus key on its own will now enter a "+" character into edit fields within the 5250 AnyWhere Emulator. The Shift key and Numeric pad Plus key combined will perform a 5250 Field Plus Exit. This is a change in data-entry behavior.

To restore the old behavior where the Numeric pad Plus key on its own performed a 5250 Field Plus Exit, `com.infor.5250anywhere.oldFieldPlusFN=1` can be added to the Infor System i Workspace AnyWhere (`systemi`) Web App's `system.properties` file. If this value is omitted (default) or set to any other value, then the Numeric pad Plus key on its own will enter a "+" into the edit field.

New multi-select options in Browse Favourites interface

The *Favourites Management - Browse Favourites* interface will now allow the My Favourites data from one user to be copied to multiple users and/or environments in a single action. The list of users and environments is now pre-populated into multi-select dropdown lists to simplify the selection.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Apply "Show Check Box When Field Is Missing" to a multiple selection of checkbox fields

The "Show Check Box When Field Is Missing" option, and the reverse "Hide Check Box When Field Is Missing" option, can now be applied to a multiple selection of checkbox fields within the 5250 AnyWhere Emulator Designer interface.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

Using asterisk as a valid checkbox value

The asterisk (*) symbol can now be used as a valid check box value with the 5250 AnyWhere Emulator Designer interface.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

Get Environments API

Support for a *Get Environments* API has been added to the list of APIs supported within Infor System i Workspace AnyWhere. This API is used by the Favourites Management interface to provide a list of the supported environments within the system of record.

A complementary API to provide this function has been developed within System i Manager.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

FAQs relating to the Keep Alive process

Due to a number of requests from customers about the "Keep Alive" processing capabilities for web and 5250 AnyWhere Emulator sessions within Infor System i Workspace AnyWhere, new FAQ sections have been added to explain this function.

See the Infor System i Workspace AnyWhere 5250 AnyWhere FAQ for more details.

Update to Infor Design System 4.89.0

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.89.0 (see https://design.infor.com/code/ids-enterprise/4.89.0 for more details about IDS 4.89.0).

Customers that have utilised IDS in their Infor System i Workspace AnyWhere/5250 AnyWhere Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.80.3 version (released as part of Infor System i Workspace AnyWhere FP20).

Bug Fixes

5250 AnyWhere Emulator

BT 0014211: Up/Down navigation keys in Infor ERP System21 3/ARA program will no longer stop working after a sequence of popup windows is displayed

BT 0014293: Table Body (monospaced) designer attribute will now show reversed image fields

BT 0014301: Default Emulator Preferences will be applied correctly to new users

Security

BT 0014289: Documented support for disabling the Kerberos pre-authentication option during SSO setup, which, when enabled, may be considered as a security vulnerability by some enterprises

BT 0014304: Changed the message presented to users in event of a CSRF attack

BT 0014305: Reduced the false positives from the CSRF protection when a web session becomes invalid

BT 0014308: Can now copy Design Data between Infor System i Workspace AnyWhere Servers that stopped working after applying FP21

Other Changes

BT 0014251: Popup Window sizes are now saved/restored inside Infor OS Portal

BT 0014268: When API usage is enabled, Designer Authorisation no longer uses cached SiM data in Role Processing Mode

BT 0014284: Corruption of Profile Descriptions with Unicode characters has been resolved

BT 0014296: Favourites Manager will update environment settings within tasks when migrating from one environment to another

BT 0014302: Removed unused data filter from Favourites Management results retrieval to improve performance

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ERS 97552: Launch a task/URL into a popup window

When designing a Task or URL action from a Button or Hyperlink, within the 5250 AnyWhere Emulator Designer, a new option has been added to instruct Infor System i Workspace AnyWhere to open the Task or URL within a popup window that is external to the main interface.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

ERS 97656: Improved Action List Dropdown field selection

All multi-select dropdown fields within Action List/Tracker queries now support the ability to select All/No entries within the options list via a checkbox field.

ERS 97757: My Spool Files/Jobs/Messages per-row checkbox selection field

A new optional checkbox column can now be displayed within the My Spool Files/Jobs/Messages service views that can be used to toggle the row selection. A corresponding checkbox appears in the column header to select all/none of the rows.

See the Infor System i Workspace AnyWhere Product Guide for more details.

API-based replacement for the System i Manager cache

Infor System i Workspace AnyWhere uses System i Manager as its *System-Of-Record* for User, Menu, Task, Role etc. data and authorizations. For legacy performance issues, Infor System i Workspace AnyWhere creates a cache of the System i Manager data it uses, and for customers who have rarely changing menu/task/user data, they only need to update the cache occasionally, or by using one of the several automated updates Infor System i Workspace AnyWhere provides, to keep the data in-sync.

However, some customers have regular staff or menu/task/role changes within their enterprise, across multiple sites, needing responsive daily updates of the cached System i Manager data. For this scenario, Infor have introduced a new API-based solution into Infor System i Workspace AnyWhere as an alternative to the existing cache-based system.

The new API functionality in Infor System i Workspace AnyWhere currently supports IBM i Stored Procedure and REST Web Service Technologies to call any *System-Of-Record* that conforms to the API input and output standards defined by Infor System i Workspace AnyWhere.

When the API is enabled for a particular Infor System i Workspace AnyWhere Profile, any request for *System-Of-Record* data that would normally come from the System i Manager cache is instead retrieved via an API call.

To the end-user, the change to using an API for this data should be seamless, but for an administrator, it will mean they can make changes to menu/task/role authorisations within the *System-Of-Record* that have immediate effect the next time the API is called.

> **Caution:** User-profile information, is stored on the Web Session for performance, so, for example, if the user date format or email address was changed, the user would need to sign out of Infor System i Workspace AnyWhere and back in again to pick up the change.

> **Caution:** The lists of users and roles, and environment details, retrieved via API-calls, which change less frequently, are stored in memory on the Infor System i Workspace AnyWhere server, and refreshed on a user-defined timeout (defaulting to one hour).

To compliment this new feature, a set of Stored Procedure APIs have been developed within System i Manager for all the supported API calls from Infor System i Workspace AnyWhere. These new Stored Procedure APIs can be used by all Infor IBM i products that support Infor System i Workspace AnyWhere.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

> **Caution:** This new API feature within Infor System i Workspace AnyWhere has been classed as BETA functionality and should only be enabled under advice and instruction from your Infor representative.

> **Caution:** Even with the API enabled, and potentially calling a different *System-Of-Record*, an initial System i Manager cache build is still required, and System i Manager itself is still a pre-requisite of Infor System i Workspace AnyWhere.

Support for encrypted Apache Tomcat passwords

The Apache Tomcat Upgrade Installer will now preserve any existing manual encryption of passwords within the `tomcat-users.xml` file, used to password-protect pages within Infor System i Workspace AnyWhere. It will also apply password encryption to this file, if not already enabled, as part of the upgrade process.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Tomcat 9.0.80 Upgrade

The Apache Tomcat Upgrade Installer will upgrade Apache Tomcat to version 9.0.80.

Randomise the Web Session ID cookie name

To avoid the Apache Tomcat Web Session ID cookie name (usually defaulted as `JSESSIONID`) being shared with any other instances of Infor System i Workspace AnyWhere running on the same Microsoft Windows Server, using the same domain and context root, the Apache Tomcat Upgrade Installer will change the Session ID to a standard prefix plus a random GUID value.

CSRFGuard protection added to all HTTP POST requests

All HTTP POST requests between the Web Browser and Infor System i Workspace AnyWhere server will now include ESAPI CSRFGuard tokens that can be validated to prevent click-jacking or any other malicious intent.

Support Infor LX 8.4.2

Support for Infor LX version 8.4.2 has been added to this release.

Update to JTOpen 20.0.0

Infor System i Workspace AnyWhere will now utilize version 20.0.0 of the JTOpen Toolbox, which is a set of APIs used for interacting with the IBM i Operating System and Database through Java. This new JTOpen version supports IBM OS/400 V7R3 and above.

Customers that have utilized JTOpen in their Workspace/Emulator Extensions (e.g., for SQL database access) should review their code to ensure it has not been affected by any changes that have been made since the JTOpen 11.2 version that was previously utilized within Infor System i Workspace AnyWhere.

Display number of selected rows within Design Data Management

To improve the usability of the Design Data Management interface, the number of selected rows is now dynamically displayed in the grid header.

Bug Fixes

5250 AnyWhere Emulator

BT 0013875: Designer icon will now always show when displaying the first 5250 AnyWhere Emulator screen

BT 0014186: Export of a table when the name of the Table contains a forward slash is now working

Task Processing

BT 0014200: Safe Launch Override processing now correctly sets negative values within signed numeric fields

BT 0014237: Tasks opened in Popup Windows are now removed from My Active Popup Windows when closed using Infor System i Workspace AnyWhere over HTTP

Other Changes

BT 0014195: Kerberos Support options under Infor System i Workspace AnyWhere Administration Diagnostics is now hidden when Kerberos is not being used

BT 0014196: When inside a 5250 AnyWhere Emulator task, with Context Help open, newly opened widgets are no longer obscured

BT 0014197: All the Kerberos Diagnostics under Infor System i Workspace AnyWhere Administration will disable JTOpen trace settings after completion to avoid excessive logging within System Out files once used

BT 0014198: Field ID value parsing within the Infor Business Context Test Page is working again

BT 0014212: The HTTP Permissions-Policy Header `speaker-selection` has been withdrawn as it caused an unnecessary warning to be written to the Web Browser console for every page (JTOpen issue resolved by version 20.0.0)

BT 0014218: The "Password Expired" message is no longer displayed after successfully changing a password

BT 0014220: Updates to the LX 8.4.1 Drillback file

BT 0014232: In My Jobs, the *Spool Preview* icon in IDS "New" is no longer identical to the *Refresh* icon

Tomcat Upgrade Installer

BT 0014193: Tomcat Upgrade Installer is now working on a Microsoft Windows Server that has the French (France) regional date format applied

BT 0014194: Tomcat Upgrade Installer now adds a carriage return to the end of the `history.log` file

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ERS 96426 – System i Manager Audit for Type 6 Tasks

When a user launches a "Type 6" task (i.e. one that has an associated URL to open a web-based Infor Application) from a menu, favourite, shortcut or Drillback within Infor System i Workspace AnyWhere, it will now be recorded within the System i Manager audit tables so that usage of the task can be tracked and reported on.

> **Caution:** Infor System i Manager AM AG 0191 and 0192 PTFs are required for this feature. If these PTFs are not installed, Infor System i Workspace AnyWhere will function as normal but no audit logs will be recorded for type 6 tasks.

Support For Infor Design System "New" Styling

The Infor Design System (IDS) team have introduced a revised user interface styling, which they have branded as "New", with the existing user interface version, as used by previous releases of Infor System i Workspace AnyWhere, branded as "Classic".

Infor System i Workspace AnyWhere now supports the "New" IDS styling via the *Infor Design UI Version* setting within the *Workspace Configuration, Look & Feel* page.

By default, the *Infor Design UI Version* will be set to "Classic", so users will initially see no UI change when this Feature Pack is applied. It will be up to the System Administrator to as-and-when they apply the "New" styling to their Enterprise.

> **Caution:** Changing this setting will immediately affect all new pages loaded within Infor System i Workspace AnyWhere, so we would recommend that it is done when all your users are completely signed out of their Infor System i Workspace AnyWhere sessions or they may temporarily get a mixed user interface until they perform a complete sign out/sign in process.

> **Caution:** For customers that use the 5250 AnyWhere Emulator, the Infor System i Workspace AnyWhere FAQ contains additional configuration that is required to alter the font used in the display.

> **Caution:** Other Infor IBM i Applications that run inside Infor System i Workspace AnyWhere may not yet support the IDS "New" styling. Please consult with your Infor representative for details on the timescales for when these applications will be revised to support IDS "New".

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Documentation for creating/maintaining Drillback files

Within Infor System i Workspace AnyWhere, a "Drillback" is the terminology used for an external product calling into Infor System i Workspace AnyWhere with coded information to run a specific Infor IBM i task. This coded information contains a unique key to lookup the task, along with execution parameters to populate the task fields with data and perform actions.

The Drillback functionality is primarily used when an IDF-NetLink enquiry, running inside Infor System i Workspace AnyWhere, needs to launch a maintenance or other option within the Infor IBM i product that is hosted within Infor System i Workspace AnyWhere. This feature is primarily used by the Infor ERP System21 and LX products.

The process of creating Drillback files within customer deployments of Infor System i Workspace AnyWhere has been documented.

See the new Infor System i Workspace AnyWhere Drillback Guide for more details.

Support for InforSTS within Infor OS MT CE

The Infor OS Multi-Tenant Cloud Edition is transitioning the SAML SSO Identity Provider (IDP) from Ping Federate to InforSTS by October 2023.

Infor System i Workspace AnyWhere has been verified with Infor IBM i System21 to work with InforSTS as the IDP. A new set of SAML SSO metadata is required to switch over support to the new InforSTS IDP.

See the Infor System i Workspace AnyWhere InforOS Integration Guide for System21 for more details.

Support Scheduled Validation on a user-defined interval

Previously, the 5250 Server Session Scheduled Validation only supported a single execution at a fixed time during a 24-hour period. With this Feature Pack, you can now schedule the automatic validation of 5250 Server Sessions to run on a recurring interval (between 15 and 1439 minutes).

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Automation of the Controlled Sign Out process

The Controlled Sign Out of disconnected 5250 Server Sessions can now be automated on a schedule that either runs once per day, or at a user-defined interval (between 15 and 1439 minutes).

The automatic Controlled Sign Out process will attempt to gracefully end any 5250 Server Session job that is no longer connected to a client Web Browser (i.e. the WebSocket between the client and

the Infor System i Workspace AnyWhere has been closed or is unresponsive). If the Controlled Sign Out process fails, an option to force the 5250 Sever Session's TELNET connection to be ended abnormally is also supported.

This feature allows for automation of functionality that previously required manual processing by the System Administrator via the 5250 Server Sessions user interface.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Block Manual Sign On within Infor OS

If the Infor OS SAML SSO process fails, the System Administrator can now decide whether to display the Infor System i Workspace AnyWhere Sign On screen (which is the default behaviour) where the user can manually Sign On, or to display an alternative message screen that prevents manual Sign On (which is enabled by the `com.infor.siw.cloud.blockOnLogonError` system property).

Upgrade to the Infor OS Integration File

The latest release of the `infor-companyon-client.js` Infor OS integration file has been delivered with this release of Infor System i Workspace AnyWhere.

Added Support ID to Infor Business Context Messages

All Infor Business Context Messages that are constructed and published through Infor System i Workspace AnyWhere will now include a Support ID of 127057 which represents the "System i Common Components, System-i Common ICC - SiW, - System i Workspace" product within the Infor Support Portal.

> **Caution:** Other Infor products that run inside Infor System i Workspace AnyWhere, but publish their Infor Business Context message directly to Infor OS, may contain a different Support ID value.

Content Security Policy and other HTTP Headers

All pages and files that are served through Infor System i Workspace AnyWhere will now have `Content-Security-Policy`, `Cache-Control`, `X-XSS-Protection`, `Permissions-Policy`, `Referrer-Policy` and `Strict-Transport-Security` HTTP headers set to suitable values to prevent Clickjacking.

The now obsolete `X-FRAME-OPTIONS` HTTP headers have been removed as they are no longer supported by the Infor Tech-Stack Supported Web Browser policy, and also caused unnecessary and misleading error reporting within the Web Browser Console.

Update to Infor Design System 4.80.3

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.80.3 (see https://design.infor.com/code/ids-enterprise/4.80.3 for more details about IDS 4.80.3).

Customers that have utilised IDS in their Infor System i Workspace AnyWhere/5250 AnyWhere Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.70.0 version (released as part of Infor System i Workspace AnyWhere FP19).

Update to JTOpen 11.2

Infor System i Workspace AnyWhere will now utilize version 11.2 of the JTOpen Toolbox, which is a set of APIs used for interacting with the IBM i Operating System and Database through Java. This new JTOpen version supports IBM OS/400 V7R3 and above.

Customers that have utilized JTOpen in their Workspace/Emulator Extensions (e.g., for SQL database access) should review their code to ensure it has not been affected by any changes that have been made since the JTOpen 11.0 version that was previously utilized within Infor System i Workspace AnyWhere.

Bug Fixes

5250 AnyWhere Emulator

BT 0014152: The current Screen ID is now correctly set within the Infor Business Context message when using a user-input initiated publishing action

BT 0014155: The "Design This Screen" Context Menu option will be hidden if the user is not authorised to Designer

BT 0014163: Customers can now Import a Screen Design file into a Infor System i Workspace AnyWhere Profile that has no existing design changes

Task Processing

BT 0014135: Safe Launch Overrides now correctly handles issues where an alphanumeric value is passed into a numeric-only 5250 AnyWhere Emulator field

BT 0014136: Safe Launch Overrides now correctly handles input values that are shorter/longer in length that the length of the destination 5250 AnyWhere Emulator field

BT 0014151: Infor System i Workspace AnyWhere will now suppress the `sohoTheme` parameter on 3rd party web-site URLs

Other Changes

BT 0014130: Added a standard Sign On variant for French locale in the `recognition.xml` file

BT 0014142: Security Updates / Source Code review and mitigations

BT 0014167: Can now view a Spool File if the file name contains a '#' character

BT 0014171: Kerberos tests no longer fail when the Microsoft Windows user has "." in the username

BT 0014173: Added support for System i Manager 4-digit year dates in Drillback override syntax

BT 0014181: Drop-through processing to standard Drillback files now works correctly when a bespoke customer Drillback file is provided

BT 0014188: Added re-connection processing for when the JDBC connection used by the System i Manager Token API becomes disconnected due to a timeout, which was preventing SAML SSO from working

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ERS 79808 – Highlight Quick Launch field

Infor System i Workspace AnyWhere users can now change the text highlight behaviour of the Quick Launch field within the System i Home tab when the tab focus changes, via Workspace Settings.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 85445 – Safe-Launch Field Overrides

The Safe Launch task launching URL syntax now supports Field Overrides; e.g. you can construct a Safe Launch URL link in a 3rd party interface that can be used to open Infor System i Workspace AnyWhere, automatically run a task, and pass values into that task to override the default field content, as well as automatically pressing keys and hiding screens within 5250 AnyWhere Emulator tasks.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 86601 – View Server Sessions per profile selected

A new filter option has been provided within the Infor System i Workspace AnyWhere Administration > 5250 AnyWhere Emulator > View Server Sessions interface that will only display 5250 AnyWhere Server Sessions created within the current Workspace Profile.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Change the number of Widget Columns

Previously, the Widget Container within the System i Home tab was limited to showing only four single-width Widgets side-by-side. On larger screen resolution displays, this introduced unusable space on the left and right of the display. A new Workspace Setting has been added to allow the user to adjust the number of Widget Columns that are displayed to utilise this space when available.

See the Infor System i Workspace AnyWhere Product Guide for more details.

Alter Attributes/Width/Alignment of User-Defined Labels

In the 5250 AnyWhere Emulator Designer, User-Defined Labels can be added to the application display. The 5250 colour/reverse image/underline/other attributes, the width, and the alignment of these User-Defined Labels can now be altered in-line with other Label fields within the display.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

Display Original Job Number in View Server Sessions

The data grid within the Infor System i Workspace AnyWhere Administration > 5250 AnyWhere Emulator > View Server Sessions interface now shows the original IBM i Job Number as well as the Shared IBM i Job Number (against which all the Infor System i Workspace AnyWhere sessions within the same Web Browser instance are licensed against).

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Update to Infor Design System 4.70.0

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.70.0 (see https://design.infor.com/code/ids-enterprise/4.70.0 for more details about IDS 4.70.0).

Customers that have utilised IDS in their Infor System i Workspace AnyWhere/5250 AnyWhere Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.63.0 version (released as part of Infor System i Workspace AnyWhere FP16).

Bug Fixes

5250 AnyWhere Emulator

BT 0014099: Mouse Wheel now works on screens with the DDS keyword CHECK(ER)

Other Changes

BT 0014101: Tasks opened in Popup Window will now close on exit when a non-standard or non-English IBM i Sign On screen is enabled

BT 0014102: SAML Single Logout from Infor System i Workspace AnyWhere no longer causes a Web Browser console error and any Widget Layout and Recent Tasks changes are stored successfully

BT 0014107: JQuery UI has been upgraded to the latest stable release version

System i Workspace AnyWhere Fix Pack 18

Enhancements

ERS 89914 – Default Logical ID

A new Default Logical ID setting is available within the Infor System i Workspace AnyWhere Administration -> Workspace Configuration -> Profiles interface to set the Default Logical ID. This will be used when running Infor System i Workspace AnyWhere outside of Infor OS, and without the Infor ERP System21 YO application being installed or configured, where a Logical ID is required within Infor Business Context messages published from 5250 AnyWhere Emulator screens or to be supplied to applications running inside Infor System i Workspace AnyWhere.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Support for Microsoft Windows 8.1 Withdrawn

Due to Microsoft withdrawing support for Microsoft Windows 8.1 in January 2023, Infor System i Workspace AnyWhere will also no longer support this Operating System.

Support for Kerberos Constrained Delegation

Kerberos Single Sign-on within Infor System i Workspace AnyWhere will now work when Constrained Delegation is enabled for the Service Principal Name. This is only supported with Apache Tomcat/Microsoft Windows Server deployments of Infor System i Workspace AnyWhere.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Bug Fixes

5250 AnyWhere Emulator

BT 0014012: Prompt buttons and date fields are now correctly aligned in macOS Monterey 12.4/Safari 15.5

BT 0014047: Issues with TAB key input field focus, when multiple tables are defined on the screen, has been resolved

BT 0014050: Date control layout corrected when First Day of Week other than 'Default' is used

BT 0014070: Mouse Wheel on Table with Check Boxes now pages up/down without showing an error message

BT 0014081: Corrected Screen Validation issues with Numeric fields

BT 0014085: Double-click on a popup no longer activates labels on the screen beneath the popup

Other Changes

BT 0014049: Automated Widget close action now works consistently

BT 0014052: Additional JAR files delivered for error logging and diagnosing issues with Infor STS SSO

BT 0014060: Support for long passwords has been reviewed against IBM i V7R5

BT 0014068: Space bar key now working when renaming a Infor System i Workspace AnyWhere tab heading

BT 0014090: Scheduled Full Cache Refresh now updates existing Role and Menu caches in memory and on disk

System i Workspace AnyWhere Fix Pack 17

Enhancements

ERS 88901 – Trim trailing spaces when copying text

A new 5250 AnyWhere Emulator Preference has been added that allows the user to define whether they want to remove trailing spaces from text that is copied from within the current display.

The new Preference can be enabled individually by users, or via the Manage Emulator Preferences screen, within the Infor System i Workspace AnyWhere Administration interface.

See the Infor System i Workspace AnyWhere Product Guide and the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 88938 – Select All checkbox in Action List/Tracker

A checkbox has been added to the header of the Select column within Action List and Action Tracker Data Grids which allows the user to quickly select or unselect rows of data.

See the Infor System i Workspace AnyWhere Product Guide for more details.

Support for IBM i 7.5

Infor System i Workspace AnyWhere has now been certified for use with IBM i 7.5.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

Apple Monterey

Infor System i Workspace AnyWhere has been certified to run on the Apple Monterey Operating System within the supported set of web browsers, including Apple Safari 15.

Bug Fixes

5250 AnyWhere Emulator

BT 0013937: Input focus can now be changed using the tab key within a Data Grid input field that is part of a paired column

BT 0013981: Date fields now work in Screen Validation, for both 'Set Field' and 'Set Field from Variable' Actions

BT 0013982: Screen Validation 'Set Field 'and 'Set Field from Variable' Actions now work on Command Buttons

BT 0013983: Screen Validation 'Set Field 'and 'Set Field from Variable' Actions now work on Hidden fields

BT 0013984: Dropdown Fields are now shown in Designer field selection lists

BT 0013995: < (Less than) character no longer show as '<' inside a Data Grid input field

BT 0014000: Mouse scroll processing will now commit field changes to the IBM i before sending Page Up/Down command

BT 0014004: Screen Validation Actions now work against a field that has been moved from its original position

BT 0014007: Designer Screen Rule numeric Tests no longer fail if user's locale uses values that have comma as a decimal separator

BT 0014008: Edit field text cleared via a Field Exit key is now sent to the IBM i

BT 0014026: Keyboard navigation in input fields within a Data Grid now working

BT 0014042: Missing Date Control icons to change Month and Year have been restored

Other Changes

BT 0013985: If an Exception occurs when processing the Spool/Job/Message view, the Database Connection is now returned to the DB pool so it can be reused

BT 0013990: Updated translations within this release

System i Workspace AnyWhere Fix Pack 16

Enhancements

Apply Global Variables via a Screen Rule

The value of a Global Variable can now be applied to a 5250 AnyWhere Emulator field via the Set Field action within a Screen Rule. This allows the Screen Designer to programmatically decide under which conditions the Global Variable value is applied.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

Change Spool/Job/Message Data Grid Column order

The order of the columns of data within the My Spool Files, My Jobs and My Messages tables can now be altered by each user to their preference. The column order, along with other column modifications will be saved and re-applied on future use of Infor System i Workspace AnyWhere in the same web browser. A new Reset Columns option has been added to each widget's Context Menu to remove any changes made to the column layout or visibility for that widget.

See the Infor System i Workspace AnyWhere Product Guide for more details.

Support for TLSv1.2 encryption in Spool File Viewer Email

The Spool File Viewer can now be configured to use the TLS 1.2 encryption protocol when connecting to a mail server to send Spool File data via email.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 59952 – Changing the Message Dialog Icon for dynamic Error Message content

A previous enhancement allowed 5250 Error Messages to be displayed with a different Message Dialog Icon dependent on the message text, but this only worked by matching with a fixed message value and did not work with messages that contained dynamic content (such as an IBM i user profile name or object/library names). This has now been addressed so that the message text matching functionality now supports Regular Expressions to allow for flexible detection of message text with one or more dynamic elements.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 70315/83127 – Reorganize Module Tabs

The Module Tabs within the main Infor System i Workspace AnyWhere interface can now be dragged left or right to change their order.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 80947 – Support encryption for sensitive values in system.properties

For security, the IBM i database user and password, and the Spool File Viewer mail user and password within the system.properties file can now be encrypted. For ease-of-use, a new administrator interface has been provided to encrypt the property values.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Update to Infor Design System 4.63.0

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.63.0 (see https://design.infor.com/code/ids-enterprise/4.63.0 for more details about IDS 4.63.0).

Customers that have utilized IDS in their Workspace/Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.56.0 version (released as part of Infor System i Workspace AnyWhere FP14).

Update to JTOpen 11.0

Infor System i Workspace AnyWhere will now utilize version 11.0 of the JTOpen Toolbox, which is a set of APIs used for interacting with the IBM i Operating System and Database through Java. This new JTOpen version supports IBM OS/400 V7R3 and above.

Customers that have utilized JTOpen in their Workspace/Emulator Extensions (e.g., for SQL database access) should review their code to ensure it has not been affected by any changes that have been made since the JTOpen 9.4 version that was previously utilized within Infor System i Workspace AnyWhere.

Microsoft Windows Server 2022/Amazon Corretto 17 Support

The Microsoft Windows/Tomcat version of Infor System i Workspace AnyWhere can now be installed onto a server running the Microsoft Windows Server 2022 Operating System.

Microsoft Windows Server 2022 has been added to the certified and supported Operating Systems for Infor System i Workspace AnyWhere.

In addition, Infor System i Workspace AnyWhere now supports the Amazon Corretto 17 JDK on all supported Microsoft Windows Server platforms (Amazon Corretto 11 JDK is also still supported).

The Infor System i Workspace AnyWhere Silver Copy ISO image for Microsoft Windows/Tomcat on the Infor Download Center has been updated to include Microsoft Windows Server 2022 and Amazon Corretto 17 JDK support, along with an update of Tomcat to version 9.0.60 plus all Infor System i Workspace AnyWhere Feature Pack changes up to and including FP15.

Microsoft Windows 11

Infor System i Workspace AnyWhere has been certified to run on client PCs with the Microsoft Windows 11 Operating System within the supported set of web browsers.

Bug Fixes

5250 AnyWhere Emulator

BT 0013778: Window title no longer shows "undefined" when it contains a field that is no longer in the 5250-screen display

BT 0013847: Infor ERP System21 special dates are now fully supported by the Date Control with US locale

BT 0013856: When the input focus is placed on dropdown list, function keys will now work

BT 0013860: Changing the month in the Date Control's calendar no longer triggers double-click events in the main application page

BT 0013871: Ampersand symbols in a label field are no longer copied to the clipboard as HTML escaped values

BT 0013872: When the 'High Contrast' theme is applied, field text is now highlighted when reverse image attribute it set

BT 0013877: Changes to the Default Value options of a Designer Variables (that originate within SDT) are now correctly applied

BT 0013878: HTML element IDs for edit fields, prompt fields checkbox fields, that have not been moved using Designer, are now set with the correct row/column values and any special CSS selector characters at the start of the ID will be removed

BT 0013880: Corrected Infor ERP System21 1/PCM task inconsistency issue when navigating between screens and an error appears

BT 0013888: Applying the Required Field style to a Date Control no longer corrupts all icons within the display, when triggered

BT 0013890: Clicking checkboxes on the right of the screen no longer change value of checkboxes on the same row and on the left of the screen

BT 0013912: Export to Excel results dialog will no longer freeze and stay visible after export file has download to the client

BT 0013927: Typeahead processing no longer causes an error on screens with only a single input field

Administration

BT 0013812: Browse Favourites no longer results in an Out of Memory Exception for large numbers of users

BT 0013876: Adding a Designer Link for a Infor System i Workspace AnyWhere instance on the default port of 443 from another Infor System i Workspace AnyWhere instance on same server is now supported

BT 0013907: The path validator for the Temporary Files setting now works on a IBM i deployment

Other Changes

BT 0013897: My Spool Files/Jobs/Messages will now correctly connect if the IBM i user profile is only 2 characters in length

BT 0013896: Fixed display issue with "My Recent Tasks" when the entry was a task that opened in a popup window

BT 0013864: A parameter error within the Maintain Core Customer Order drillback has been resolved

BT 0013914: There have been changes and improvements to the Kerberos SSO diagnostics and documentation

System i Workspace AnyWhere Fix Pack 15

Enhancements

ERS 80975 - Delivery of Global Variables within SDT

Infor applications that use Infor System i Workspace AnyWhere's 5250 AnyWhere Emulator as their primary interface can now include a set of initial Global Variables within their Screen Design Template (SDT) deliveries. After installing the SDT pack, these Global Variables can then be extended or modified by customers, like the maintenance of Global Rules that are also shipped within Infor application SDT.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

Safe Launch

The Safe Launch interface within Infor System i Workspace AnyWhere provides a mechanism for 3rd party products running outside of Infor System i Workspace AnyWhere to initiate either tasks defined within System i Manager, or WFi Manual Activities, via a URL. It is primarily intended to allow tasks and links to be embedded as URLs within Infor WFi emails that can then be clicked to open and execute the required function within Infor System i Workspace AnyWhere.

Whilst this interface has been available in various System i Workspace versions for many years as an undocumented feature, due to browser technology changes, it no longer worked correctly within Infor System i Workspace AnyWhere.

Infor have re-written Safe Launch using modern browser technology function, along with adding judicious URL and parameter checking for added security, all of which is now fully documented.

For customers who do not wish to have this interface enabled, a new setting is available to disable Safe Launch within the Look & Feel tab of Workspace Configuration.

See Appendix A within the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Keyboard Shortcuts

All the keyboard shortcuts within Infor System i Workspace AnyWhere, particularly the context-sensitive ones within the Si Home tab, now function as documented. Some of the common "Switch To…" and navigation shortcuts have been extended into the Spool File, Action List and Manual Activity pages. When the Application Menu is opened using a shortcut, it can now be navigated using the keyboard, and a new shortcut has been added to close the Application Menu without using the mouse. See the Infor System i Workspace AnyWhere Product Guide for more details.

Bug Fixes

5250 AnyWhere Emulator

BT 0013752: Launching a 5250 AnyWhere Emulator task directly from an Action List no longer fails when the Business Object Reference has multiple sections

BT 0013823: Command Buttons that follow a Data Grid now send the correct cursor position to the IBM i application when pressed

BT 0013849: Editable and clickable fields within the 5250 AnyWhere Emulator display now have unique IDs to aid automated test tooling

5250 AnyWhere Emulator Designer

BT 0013749: Users will be prompted to save their design if they exit Designer after changing the display via the Show OK/Next Button option

Other Changes

BT 0013754: References to Infor System21 Style 3.2 have been removed as release of this product is no longer planned

BT 0013795: User name errors within the Single Sign-On diagnostics pages have been mitigated

BT 0013822: Sign In issues with Infor applications that use two-character System i Manager Environment codes has been resolved

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Support/Software Withdrawal

Removal of Internet Explorer Support

As of July 29, 2015, Microsoft ended support for Internet Explorer® (IE) browser IE11 (except for security patches) and recently announced the retirement of the product as of June 15, 2022. Please see the Microsoft Lifecycle Policy for more information.

Following Microsoft's announcement, Infor will no longer support IE with Infor System i Workspace AnyWhere as of this release.

While Microsoft recommends IE Mode within Microsoft Edge® as the default browser for all users moving forward with legacy software, Infor will not support System i Workspace and its associated applications running under IE Mode in Microsoft Edge and will instead concentrate on non-proprietary industry standard browser technologies.

A project has been underway at Infor for several years to remove the dependency on Microsoft IE and ActiveX® technologies. That work was completed with the release of Feature Pack (FP)12 for System i Workspace AnyWhere in July 2021. FP12 delivered a complete HTML replacement for the System i Emulator Designer application to work alongside the 5250 AnyWhere Emulator. As a result, both are now independent of the Microsoft IE and ActiveX technologies. Future Development efforts will be dedicated to HTML-based versions of the applications.

Removal of the System i Emulator and Update Manager

As part of the removal of support for Internet Explorer, the remaining certified web browsers supported by Infor System i Workspace AnyWhere do not support Microsoft ActiveX®-based plugins, therefore, both the System i Emulator, and its Update Manager, have now been removed and will no longer be supported with Infor System i Workspace AnyWhere.

After upgrading to this release, we recommend that customers who have existing deployments of the Infor System i Workspace AnyWhere version of the System i Emulator should uninstall it from their client PCs.

After upgrading to this release, we recommend that customers who have existing client deployments of the System i Emulator Update Manager should uninstall it from their client PCs if they are not utilizing it for any older versions of Infor System i Workspace (such as System i Workspace v2015).

The Infor System i Workspace AnyWhere documentation has been updated to reflect these changes, including the removal of the System i Workspace AnyWhere – Emulator Extensions Guide, which has been replaced by the new System i Workspace AnyWhere - 5250 AnyWhere Emulator Extensions Guide.

Any bespoke Screen Designs or Extensions written for the System i Emulator should be reviewed to ensure they are still compatible with the 5250 AnyWhere Emulator (see the System i Workspace AnyWhere - 5250 AnyWhere Emulator Designer Guide and System i Workspace AnyWhere - 5250 AnyWhere Emulator Extensions Guide for more information).

Enhancements

ERS 51771/57616 - Support Task Banner Images Within The 5250 AnyWhere Emulator

The "Task Banner Image" function, that was previously only available within the System i Emulator, has been implemented within the 5250 AnyWhere Emulator.

This function allows customers to define either a global task banner image URL, that will be added to the left of the Page Header of every 5250 AnyWhere Emulator task, or to define Company-specific task banner image URLs, so that when a user has launched a 5250 AnyWhere Emulator task within a particular System i Manager Company, the image defined for that company is shown within the Page Header.

Also, the Infor System i Workspace AnyWhere administrator may choose to show the global task banner mage within the Page Header of the System i Home module tab, via a new Workspace Configuration option.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 77200 – Change to F1 processing when there is no Screen ID

The 5250 AnyWhere Emulator has been changed so that if the current screen has no Screen ID (Magic Number) when F1 is pressed it will send the key to the IBM i rather than opening the Application Help (which was the old behaviour).

See the Infor System i Workspace AnyWhere 5250 AnyWhere Product Guide for more details.

Update to Infor Design System 4.56.0

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.56.0 (see https://design.infor.com/code/ids-enterprise/4.56.0 for more details about IDS 4.56.0).

Customers that have utilized IDS in their Workspace/Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.34.2 version (released as part of Infor System i Workspace AnyWhere FP10).

> **Caution:** Customers should pay particular attention to any pages that import IDS CSS files as the names of these files have changed since IDS 4.34.2.

Log4J Security Vulnerabilities

Potential security vulnerabilities were discovered in the Apache Log4J version 2.x product that is used within Infor System i Workspace AnyWhere. These are documented on https://cve.mitre.org and https://nvd.nist.gov under the IDs of CVE-2021-44228, CVE 2021-45046 and CVE-2021-45105.

To mitigate these vulnerabilities, we have upgraded Infor System i Workspace AnyWhere to use the latest Log4J 2.17.1 release.

Bug Fixes

5250 AnyWhere Emulator

BT 0013706: Prompt button now sends the correct cursor position to the IBM i when a prompt field is positioned at column zero

BT 0013726: Resolved keyboard input focus issue when there are read-only edit fields in tables

BT 0013743: Infor ERP System21 00/00/00 and 99/99/99 format dates are no longer highlighted red within modal windows on first display

5250 AnyWhere Emulator Designer

BT 0013604: The latest screen design is consistently applied when "Save & Exit" from Designer is used on a Infor System i Workspace AnyWhere IBM i deployment

BT 0013656: Correct Hyperlink translations are now applied in Designer's *Add Button* dialog

BT 0013659: Table heading on *Messages To Publish...* dialog is now correct

BT 0013660: Drag/Drop no longer allows a field to be moved to a position that has an existing design element that is not currently displayed

BT 0013661: If a Global Rule font has been defined, it will be used inside Designer instead of the user's default font preference (to match runtime behaviour)

BT 0013703: The co-ordinates within the Status Widget are now updated when a Dropdown list field is dragged to new position

BT 0013724: *Show As Dropdown List* option is no longer shown in the Field/Context Menu when the selected field is defined as a Hyperlink

BT 0013734: Label fields added within Designer are now selectable within the Screen Rules -> Actions dialog

5250 AnyWhere Emulator Extensions

BT 0013730: `GetFieldValue` function now returns the correct value for read-only input fields

Other Changes

BT 0013601: Tasks can now be dragged to My Favourites from the Task Search Results

BT 0013608: Added a new user setting to optionally prompt for confirmation when tasks are dropped onto My Favourites and the new task already exists

BT 0013646: AFPDS and IPDS files can now be sent from My Spool Files to another user

BT 0013686: Action Lists will now display correctly in French

BT 0013694: Time field within the Reschedule Selected Activities dialog no longer displays an invalid time in US and Chinese locales

BT 0013704: Updated version of the Infor ERP LX 8.4.1 drillback file delivered

BT 0013718: Enabled keep alive message system between the client and server for Infor System i Workspace AnyWhere Tomcat Installations

BT 0013720: Performed 6-monthly Security Scan and Mitigation Process

BT 0013746: WFi Manual Activities are successfully unlocked when closed using Chrome/Edge

System i Workspace AnyWhere Fix Pack 13

Enhancements

ERS 60225 - Printer Selection in My Spool Files

The user may now prompt for a list of available printers on the IBM i within the Change Spool File Properties dialog.

See the Infor System i Workspace AnyWhere Product and Installation and Administration Guides for more details.

ERS 67909 - Implement numpadDotToComma function in 5250 AnyWhere Emulator

The 5250 AnyWhere Emulator now allows the user to change the function of the decimal point symbol within the numeric pad on the keyboard so that it sends a comma instead of a decimal point. This is useful for fast data entry of numeric values in locales that use a comma as the decimal separator.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 69214 - Save Folder Open/Closed State in My Favourites

The open/closed state of any folder in My Favourites is now saved. On next Sign On, the folder state is re-applied

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 69644 - WFi Improvements

The following improvements have been made to the WFi interfaces within Infor System i Workspace AnyWhere…

- Activities may now be Rescheduled to a new date or time
- Activities may now be Assigned to another User or Role
- Activities may now be Cancelled
- The Manual Activity attachment interface has been improved when opening and adding new attachments

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 70002 - InforOS MT CE + Infor System i Workspace AnyWhere On-Premise

An on-premise installation of Infor System i Workspace AnyWhere (whether using Apache Tomcat or IBM WebSphere Application Server) can now be integrated with InforOS MT CE and use SAML-based Single Sign On.

See the Infor System i Workspace AnyWhere - InforOS Integration Guide for your Infor IBM i ERP for more details.

ERS 73857 - User-defined ON/OFF values for Checkbox fields

Within the 5250 AnyWhere Emulator Designer, the values that are applied to an edit field, converted to a checkbox, when it is checked and unchecked, can now be defined. These values will then be applied at runtime by the 5250 AnyWhere Emulator.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

ERS 74685 - *AFPDS Spool File Support

Spool Files that have been created using the *AFPDS format can now be displayed within the Spool File Viewer, via the IBM i PDF driver, to display the graphic and text elements.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 74990 - Added Support for Infor STS

Infor System i Workspace AnyWhere has been certified for use within Infor OS on-premise along with the Infor Security Token Service (STS) module. Infor STS enables Single Sign-On integration within Infor OS for Infor Applications with multiple 3rd party Identity Providers, not just with Microsoft ADFS.

See the Infor System i Workspace AnyWhere - InforOS Integration Guide for your Infor IBM i ERP for more details.

Other New Features

- Infor System i Workspace AnyWhere can now dynamically pass its URL into System Manager URL tasks so they can be securely initiated from different instances of Infor System i Workspace AnyWhere.

  See the Infor System i Workspace AnyWhere Product Guide for more details.

- Selected Screen Designs can be Exported to an XML file, and then Imported back into another Infor System i Workspace AnyWhere instance. Customers can use this export feature to supply Infor with any bespoke changes they may have made to standard Infor screen designs as part of a Support Incident.

  See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

- Infor XA 10.0 is now selectable as an Infor Application within a Infor System i Workspace AnyWhere Profile

- Infor System i Workspace AnyWhere has been certified for use on Apple Mac OS Big Sur

Bug Fixes

Browser Support

BT 0013576: Fixed issue in some browsers where Spool File Viewer PDF documents went blank after switching back and forth from another module tab

BT 0013640: Infor System i Workspace AnyWhere no longer uses browser cookies for client-side user settings (set via JavaScript). Local Storage within the browser is used instead

> **Caution:** Due to the BT 0013640 cookie change, after applying this Feature Pack, users will lose any previously selected Theme, Colour, and Spool File View Mode/Type settings. The default Theme, Colour, and Spool File View Mode/Type will be applied. Once the Theme, Colour, and Spool File View Mode/Type are re-selected, the user's choice will be then be maintained and re-applied from within the browser storage (unless manually cleared).

5250 AnyWhere Emulator Designer

BT 0013567: Label attribute with 5250 White attribute text can now be changed to 5250 Green attribute text

BT 0013588: It is now possible to create a Global Widget in a screen where no design exists

BT 0013590: Error message no longer shown on exit of Designer when the Pass over a screen, Hide Screen option is selected

BT 0013603: Screen Rule Action for Show Widget is no longer selectable if no Widgets are defined

BT 0013638: Corrected translation for "System Manager Locale using 4-digit year (without separators)" date format

5250 AnyWhere Emulator

BT 0013575: Sign on screen no longer displays for disconnected jobs closed by the IBM i system when the client browser was also disconnected

BT 0013587: Sub-section processing code is now applied to Designer Variables

BT 0013591: Message Publishing - Message Parameters that use Global Variables are now correctly populated with the variable content

BT 0013594: Default values of a Designer Variables no longer cause runtime errors

BT 0013616: After selecting Preferences -> Reset option, sending data to the IBM i and accessing context menu no longer fail

BT 0013620: It is now possible to alter the button text on the Popup Window border in Designer and see the changes applied at runtime

BT 0013624: The '(u2018) and '(u2019) Unicode character values are now supported when pasted into the 5250 AnyWhere Emulator, and converted to a standard EBCDIC single quote.

Other Changes

BT 0013440: Resolved SSO error while accessing Infor System i Workspace AnyWhere from InforOS in conjunction with using the IDF Context Viewer widgets

BT 0013569: Dropdown button icon is no longer missing in Change Spool File Properties when displayed within a System i Emulator task

BT 0013602: Looping messages no longer occur when NetLink SSL Proxy is used

BT 0013611: Adding duplicate shortcuts into My Favourites now works as documented

System i Workspace AnyWhere Fix Pack 12

Enhancements

ERS 59710 – Import Existing Screen Design Positioning/Filtering

Within the 5250 AnyWhere Emulator Designer, the list of existing screen designs within the *Import An Existing Screen Design* function is now displayed within a Data Grid, with extensive filter capability, to make it easier to use and locate the existing screen to import.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

ERS 60228 – Add "Print On Both Sides" Options

The *Change Spool File Properties* dialog within the *My Spool Files* widget will now allow the *Print On Both Sides* setting of the Spool File to be altered to support duplex printing.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 69642 – User-defined Action List Max Rows Limit

The upper limit for the value within the Maximum Rows dropdown list to control the amount of data that can be displayed within an Action list or Action Tracker Data Grid can now be defined by the System Administrator against each of their WFi environments.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 70211 – 5250 AnyWhere Emulator Designer

This release of Infor System i Workspace AnyWhere contains a complete re-write of the Screen Designer specifically for the 5250 AnyWhere Emulator, using the Infor Design System UI to give a consistent look & feel with the rest of Infor System i Workspace AnyWhere, and implementing most of the functionality of the old System i Emulator Designer. The 5250 AnyWhere Emulator Designer provides a more consistent WYSIWYG display when designing 5250 AnyWhere Emulator screens.

The 5250 AnyWhere Emulator Designer uses web-technology and W3C standards to be able to run in any modern browser supported by Infor System i Workspace, with no browser/client-side plugins, extensions or add-ons required. Therefore, it does not support Internet Explorer 11.

The 5250 AnyWhere Emulator Designer uses the same XML design data as the System i Emulator Designer, so existing Infor and customer bespoke designs can be changed using the new Designer, so the 5250 AnyWhere Emulator Designer is intended to supersede the System i Emulator Designer for all future Infor and customer bespoke screen design.

See the Infor System i Workspace AnyWhere 5250 AnyWhere Emulator Designer Guide for more details.

ERS 70520 – Support for IBM i 5250 "End of Job" and Disconnected sessions

The 5250 AnyWhere Emulator will now automatically detect the IBM i "End Of Job" screen, which can be generated when the QINACTIV timeout setting is configured or triggered using `WRKACTJOB`'s *End* option, to correctly close and disconnect both the IBM i TELNET session and the client's 5250 AnyWhere Emulator session (if active), and prevent blank sessions within the user's display on next Sign In that previously required manual intervention by the System Administrator to close.

The 5250 AnyWhere Emulator will now also automatically detect the IBM i CPI1131 Disconnected Session message on the Sign On screen to correctly close and disconnect both the IBM i TELNET session and the client's 5250 AnyWhere Emulator session (if active), and prevent blank sessions within the user's display on next Sign In. This automation may be disabled by a System Administrator.

The *Controlled Sign Out* option within the *View AnyWhere Sessions* UI of the Workspace Administration interface will now end the server session if already at the IBM i Sign On screen.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Bug Fixes

5250 AnyWhere Emulator

BT 0013098: Designer Window/Tab Title changes are now displayed consistently when no Infor Application is set for the current Profile

BT 0013279: Group boxes without a title can now be changed within the 5250 AnyWhere Emulator Designer

BT 0013423: Data Grids will no longer overlap labels on row 22 of the display

BT 0013445: Stopped non-standard System21 start/end date values from being classed as an error by the Infor Design System Date control

BT 0013465: Corrected a syntax error when calling the `SetFieldValueByIndex` extension function

BT 0013513: Added explanation of the Command Button "More Detail" icon to the Product Guide

BT 0013534: `showEmul(true)` extension function no longer hides all but the first popup window

BT 0013535: Hidden Edit Field values overridden in Designer are no longer ignored when data is sent back to the IBM i

BT 0013538: The " and • Unicode characters are now converted to suitable EBCDIC values when pasted into an Edit Field from Microsoft Word/Windows

BT 0013551: A Global Variable set against an Edit Field will not change its 5250 modified data tag if the variable's content matches the existing Edit Field text (which may prevent further progress in some IBM i RPG applications)

Module Tab Display & Navigation

BT 0013550: Corrected the display of hidden tab content when non-focused tabs containing either an Action List or a URL task are closed

WFi

BT 0013444: Custom WFi Manual or XML Activities content that contain the HTML tag in uppercase are now correctly displayed within Infor System i Workspace AnyWhere

Other Changes

BT 0013448: Within Infor System i Workspace AnyWhere's Workspace Administration Interface, Spinbox components now allow more than one digit to be entered via the keyboard

BT 0013457: Across multiple interfaces within Infor System i Workspace AnyWhere, that contain Data Grids, changes to the Records per page are now saved and restored

BT 0013460: The Disable Browser Close Button settings for the System i Emulator now work as documented

System i Workspace AnyWhere Fix Pack 11

Enhancements

ERS 60670/61412 – Field navigation using cursor up/down keys

A new preference option has been added to the 5250 AnyWhere Emulator that, when enabled, will allow the user to change the input focus to a field above/below the current focused input field by pressing the cursor (or arrow) up/down keys, similar to the behaviour of older "Green-on-Black" 5250 Terminal Emulators.

This setting can be also be pushed out to some/all users via the Manage Emulator Preferences option within the Infor System i Workspace AnyWhere Administration interface.

See the Infor System i Workspace AnyWhere Product and Installation and Administration Guides for more details.

ERS 63836 – UI Improvements to View AnyWhere Server Sessions

The View AnyWhere Server Sessions option within the Infor System i Workspace AnyWhere Administration interface has been improved…

- Added sort capability on the Session Status icon column
- Added per-column filters (for columns containing text values)
- Filter, Page Size, Column Sort and Records Per Page setting are now saved and restored on next use (saved per Infor System i Workspace AnyWhere Profile, per Browser)
- If Controlled Session Close, Validate Sessions, Clear Sessions options are selected, the current page will be re-shown when the action completes (unless the page number no longer exists due to removal of sessions then it will change back to the first page). The Refresh icon always reverts back to 1st page of the table

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 65985/65994 - Support for IPDS Spool Files

Some Infor IBM i ERP and 3rd Party Products create Spool Files containing Bar Codes, Graphics and Over-Printing in a format called IPDS. On the IBM i, these IPDS Spool Files can be viewed using the WRKSPLF command as text-only, with any graphic elements omitted.

The Infor System i Workspace AnyWhere now supports the display of IPDS format Spool Files in the same manner as the WRKSPLF command, text-only, with graphic elements omitted. The Spool File Viewer will also now block any unsupported Spool File types with a notification message.

See the Infor System i Workspace AnyWhere Product and Installation and Administration Guides for more details.

Removal of Mozilla FireFox support

Support for the Mozilla FireFox web browser has been removed from Infor System i Workspace AnyWhere, for both Microsoft Windows and Apple MacOS, to conform with Infor's standard supported web browser policy.

Customers should ensure their users use one of the web browsers supported by Infor System i Workspace AnyWhere, as defined in the Client Software Support section.

Bug Fixes

5250 AnyWhere Emulator

BT 0013370: Screen Validation actions now work as expected in modal windows

BT 0013373: A colon is now added at the end of the text when a hyperlink is applied to a field that also has the Field Header attribute

BT 0013389: SetFieldValue and SetFieldValueByIndex extension methods in 5250 AnyWhere Emulator now behave the same as their Si Emulator counterparts

BT 0013409: When text containing the '–' (EN Dash symbol) character is pasted from Microsoft Word into a 5250 AnyWhere Emulator field, it will automatically be converted back to a minus symbol to avoid IBM i database corruption

BT 0013420: Mandatory/Required fields icons are now displayed on modal windows

BT 0013426: The modal window button layout no longer shrinks on repeat display of the same screen

Module Tab Display & Navigation

BT 0012893: Close button on options within the Module Tab Overflow Menu now works

BT 0013328: First task in Module Tab Overflow Menu is no longer loaded with a blank name

BT 0013329: Outstanding Actions tasks in Module Tab Overflow Menu can now be closed

Other Changes

BT 0013352: Maximum Rows Dropdown list is now available within pre-defined Action Tracker tasks

BT 0013359: Favourites can now be copied between user profiles when one- or two-character Environment Codes are configured in the Infor System i Workspace AnyWhere Profile

BT 0013390: After Sign In to Infor System i Workspace AnyWhere and using either a Home URL, or restoring 5250 AnyWhere Emulator sessions, then switching to the Si Home Module Tab will now re-order the widgets to the current browser window dimensions

BT 0013415: Support added for future Infor ERP System21 releases

System i Workspace AnyWhere Fix Pack 10

Enhancements

ERS 57648 - Hyperlink alignment and attributes

Hyperlinks within the 5250 AnyWhere Emulator now support all Designer Field Alignment settings and some Field Attribute settings.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 58461 – Relative path support for Screen Replacement URL

The Screen Replacement URL value within Designer will now allow a relative URL path to be entered (both `./` and `../` relative path syntax).

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 59043 - New Test values added to Screen/Validation Rules

The System Manager Application Code, Release Code and Task Code of the current IBM i application can now be used within Tests inside Screen and Validation Rules created in Designer.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 60401 - Right-align blank/zero fill behaviour

A new setting has been added to the 5250 AnyWhere Emulator that will change the behaviour of IBM i application fields that have been defined to use the IBM RPG right-align blank/zero format. When the new setting is enabled (it is off by default), the right-align blank/zero processing for the field will only be applied if any Field Exit key is pressed when the field has focus.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

ERS 63427 – Control Sign Off behaviour for active sessions

A new option has been added to the Look & Feel tab of the Infor System i Workspace AnyWhere Administration interface that will stop users from signing out when they have active 5250 AnyWhere Emulator sessions. The default setting is to allow Sign Out to proceed in this scenario, which is the current behaviour.

See the Infor System i Workspace AnyWhere Installation and Administration Guide for more details.

Update to Infor Design System 4.34.2

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.34.2 (see https://design.infor.com/code/ids-enterprise/4.34.2 for more details about IDS 4.34.2).

Customers that have utilized IDS in their Workspace/Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.26.2 version (released as part of Infor System i Workspace AnyWhere FP8).

Bug Fixes

5250 AnyWhere Emulator

BT 0013270: An auto-complete text field no longer appears in the top left of the display when a Drop-down List is displayed inside a Data Grid

BT 0013272: Pressing the ESC key now closes a Message window when it is displayed over a Modal window

BT 0013273: Double-clicking on a Label field containing a URL will now open the URL in a new Infor System i Workspace AnyWhere tab

BT 0013275: Double-clicking on a Check Box will no longer send an Enter key press to the IBM i application

BT 0013280: CSV, XML and Clipboard Export options now work as expected

BT 0013281: Export To Excel option no longer corrupts non-ANSI characters

BT 0013283: The "required" field error text of Prompt fields is no longer duplicated after changing the tab focus

BT 0013284: The "required" field error text position no longer changes if a tab gains focus from the closure of another task

BT 0013316: The "None" option for the Prompt Value in Designer no longer clears the existing field content when the prompt button is activated

BT 0013322: 'Pass Over a Screen' Designer function is now working when using a Previous Screen ID of Any

Infor OS Integration

BT 0013298: Logical ID is now correctly recorded in Infor System i Workspace AnyWhere after Infor OS 2020-06 fix pack is applied

BT 0013331: Added extra JAR files required to report Identity Provider setup errors within a Infor System i Workspace AnyWhere SAML SSO deployment

BT 0013332: Updates to InforOS Integration Guide for SSO SAML integration

Other Changes

BT 0013053: Documentation changes relating to IBM i user profile setup for expired passwords in a Kerberos SSO deployment

BT 0013274: Description for a new custom locale will no longer be blank in Language dropdown in Sign In screen

System i Workspace AnyWhere Fix Pack 9

Enhancements

ERS 45362 – SAML-based Single Sign On for "on-premise" installations

A standard, "on-premise" installation of Infor System i Workspace AnyWhere, running inside Infor OS, now supports SAML-based Single Sign On (SSO). This SSO solution uses the user identity defined in Infor OS/Microsoft ADFS to securely sign in to Infor System i Workspace AnyWhere, without the need for additional IBM Enterprise Identity Management/Kerberos setup.

See the Infor System i Workspace AnyWhere Infor OS Integration Guide for your Infor IBM i ERP for more details.

ERS 56133 - Enter key support to close pop-up error messages

5250 AnyWhere Emulator users can now also press the Enter key to close a Host Message Dialog (activating the Reset option within the dialog). This functionality was already available within the System i Emulator and has been replicated to aid users moving to the new 5250 AnyWhere Emulator from older product releases.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 56514 - Group Box Improvements

The style of Group Boxes within the 5250 AnyWhere Emulator has been changed to use a different Infor Design System control that has an underlined heading, like the one already used by the System i Emulator.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 56517 - Allow the user to control button sizing

The 5250 AnyWhere Emulator now supports a new "compact" button size. This can be set either by the user (via their Preferences) or for multiple users via the Infor System i Workspace AnyWhere Administration interface.

See the Infor System i Workspace AnyWhere Product and Installation and Administration Guides for more details.

ERS 58003 - Double-click onto screen to send Enter key to IBM i

5250 AnyWhere Emulator users can now to double-click on the background of the 5250 AnyWhere Emulator to send an Enter key press to the IBM i application. This functionality was already available within the System i Emulator and has been replicated to aid users moving to the new 5250 AnyWhere Emulator from older product releases.

See the Infor System i Workspace AnyWhere Product Guide for more details.

Bug Fixes

5250 AnyWhere Emulator

BT 12948: Run Period (F8) button in 6/CS no longer prevents the application from proceeding

BT 13222: 'Required Field' alert text no longer overlaps its edit field when the tab focus changes

BT 13241: 5250 AnyWhere Emulator session no longer hangs when the initial cursor column position is 128 or greater

BT 13240: Export button is no longer displayed when all columns in a table definition are defined as non-exportable

BT 13238: Greater Than characters at the end of a label are no longer changed to Ampersands inside a table

BT 13192: Displaying Screen Details dialog over a Modal window no longer causes an unexpected error on next user action

BT 12683: Support added for non-English language button recognition (Enter, Roll and Print keys)

BT 12692: Button conversion issue for Spanish users in 12/APYSP resolved

BT 13143: Modified text of OK/Next buttons added using Designer no longer duplicates the button within the display

BT 13146: Label fields added using Designer are now clipped if inside Clip Top/Bottom ranges

BT 13150: Designer Variables are now updated when a table is paged up or down

Designer

BT 13151: Added new System Manager date formats to the Date control to support IBM i applications that use a four-digit year

Other Changes

BT 13155: `%theme` and `%personalisation` substitution parameters are now correctly substituted into System Manager URL tasks launched inside Infor System i Workspace AnyWhere

BT 13202: Content Security Policy HTTP headers added to IDF Context Viewer page

System i Workspace AnyWhere Fix Pack 8

Enhancements

ERS 46932 – Add Field Exit Support to 5250 AnyWhere Emulator

Your keyboard's Numeric Pad + (plus) key can now be used to simulate the IBM i 5250 Terminal Field Exit key in the 5250 AnyWhere Emulator.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 42543 – Ability to set a different Time Zone

By default, the Time Zone of the Infor System i Workspace AnyWhere server matches the Time Zone of the Microsoft Windows/IBM i platform it is deployed on. For customers who deploy their Infor System i Workspace AnyWhere server on a Microsoft Windows Server that runs in a different Time Zone/location to their IBM i server, they can now adjust the Time Zone of an individual Infor System i Workspace AnyWhere instance to one of a pre-defined list of Time Zones, or add their own Time Zone. This is particularly useful for WFi users that use "future" dates on activities within their Business Processes.

See the Infor System i Workspace AnyWhere Installation & Admin Guide for more details.

ERS 47199 – Change Service Viewer Date Format

The format of date columns in the Service Viewer widgets can now be altered from the default long date format (e.g. Fri, 5 Jun 2020 22:48:19) to a locale specific short date format (e.g. 5/6/2020 22:48:19). The option is available on each Service widget (i.e. My Spool Files, My Jobs, My Messages) and is saved when the user signs out of Infor System i Workspace AnyWhere and re-applied on next Sign In.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 51042 – Allow Dropdown option to be applied to output-only fields in Designer

In many Infor IBM i applications, the data in an enquiry or summary page is written as a read-only input field, which does support the application of a Dropdown list to it. However, there are other Infor IBM i or bespoke applications where the data is entered via a descriptive Dropdown list option, but when the enquiry/summary is displayed, it is written as plain output text as an internal code value, so the Dropdown cannot be applied to map the value to a description. Inexperienced users may not understand the mapping between the internal code value to the Dropdown list description.

Designer now allows a Dropdown list to be applied to output fields so that Designers can correct this discrepancy.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 53984 – Change Icons on 5250 Host Error Messages

The IBM i 5250 Host Error command is usually sent to inform the user of a problem within their IBM i application. However, this 5250 Host Error command is also sometimes used for messages that are either warnings or just informational. As these are displayed in an Error Message dialog by the 5250 AnyWhere Emulator, end-users may get confused and contact their administrator when it is unnecessary.

The 5250 AnyWhere Emulator now allows the mapping to different dialogs for Warning and Informational messages.

See the Infor System i Workspace AnyWhere Installation & Admin and Product Guides for more details.

Update to Infor Design System 4.26.2

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.26.2 (see https://design.infor.com/code/ids-enterprise/4.26.2 for more details about IDS 4.26.2).

Customers that have utilized IDS in their Workspace/Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.24 version (released as part of Infor System i Workspace AnyWhere FP7).

Bug Fixes

5250 AnyWhere Emulator

BT 13038: SetFieldValue extension method now extends the length of label fields

BT 13041: System21 16/PYM application now longer locks up while accessing 12th screen

BT 13051: SendKey extension method now works outside the CustomScreenChanged Event

BT 13056: Screen Rule Tests corrected to work with Designer Variables

BT 13058: Support for F1 on non-Infor Application screens and via CustomProcessHelpKey extension

BT 13061: IBM i Print function in now sends changed Edit field values to the IBM i

BT 13063: The values in a Dropdown List are now sorted in alphanumeric order

BT 13064: Documentation clarification regarding Group Boxes

BT 13065: Screen Rule that excludes Group Boxes during whitespace compression is now working

BT 13104: Hidden field values are no longer ignored when passed via a Custom Button

BT 13121: SiM Decimal Separator setting in the LDA is now processed correctly

BT 13124: Screen Replacement feature now correctly passes values to the supplied URL

BT 13142: Screens within System21 7/RD option no longer take a long time to display

Administration

BT 13035: Locked Design Screens that have no saved bespoke data can now be unlocked

BT 13132: A new-line character in the WS Configuration Update Description Field no longer breaks the UI

WFi

BT 12429: Action List filters now update table immediately on change

System i Emulator

BT 13055: A Field Format applied to a read-only Edit field no longer stops application progress

BT 13097: Initial Personalization Colour set in admin.html is now applied within the ActiveX emulator

Designer

BT 13089: Hyperlinks can now be applied to read-only Edit fields in Designer

Other Changes

BT 12861: Updated drillbacks for Infor LX 8.4.1

BT 13023: Colour of icons in read-only controls is now consistent

BT 13052: Show correct IBM i error message if change of password fails for security reasons

BT 13138: Documentation update for Update Manager AD script to use HTTPS

System i Workspace AnyWhere Fix Pack 7

Enhancements

ERS 46067 - Add System Manager data to page/tab headings

Two new Global Rule Actions have been added within Designer that allow for System Manager data (such as Company Code, Company Description, Environment Code, Environment Description and Task Details) to be prepended to either the Page Header title, the Tab title, or both. Being Global Rules, they can be added either conditionally to selected tasks, or unconditionally to all tasks. This feature works with both the 5250 AnyWhere Emulator and the System i Emulator.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 47038 - Allow the opacity behind a modal window to be altered

A new option has been added to the 5250 AnyWhere Emulator Preference dialog that will allow the user to change the opacity level of the overlay that appears behind an application modal window. Changing the opacity of this overlay makes the application screen behind the modal window either more or less visible to the user.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 47578 - Use an existing Infor/Bespoke screen design to create a new design

A new option has been added to Designer to allow you to import an existing screen design into your current screen. This is targeted at customers that develop bespoke versions of Infor IBM i applications and allows them to import an existing Infor Application SDT screen as a basis for their own screen design.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 48901 - Select elements from Global Screens during Manage Design Data copy process

When copying Designer data for some Global Screens (Global Lists, Global Hyperlinks, Global Field Formats, Global Variables, Global Widgets), a new option has been added that will allow individual elements of these Global Screens can be selected and copied to a destination local profile or remote server/profile.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 49362 - Set the default Theme and/or Personalisation for all users

The initial Theme or Personalisation setting for all users can now be assigned by an administrator via the Workspace Configuration, Look & Feel interface.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 43184 - Add support for Latin 5 and Cyrillic to the Infor System i Workspace AnyWhere Installer

The Infor System i Workspace AnyWhere Installer now allows Latin 5 and Cyrillic to be selected as System Manager language options, checking and setting the appropriate Job Descriptions when these new options are selected.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

Support for Microsoft Windows Server 2019

Infor System i Workspace AnyWhere has now been certified for use with Microsoft Windows Server 2019. New "Silver Copies" of the Infor System i Workspace AnyWhere Installer have been produced to support Microsoft Windows Server 2019.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

Update to Infor Design System 4.24.0

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.24.0 (see https://design.infor.com/code/ids-enterprise/4.24.0 for more details about IDS 4.24.0).

Customers that have utilized IDS in their Workspace/Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.23 version (released as part of Infor System i Workspace AnyWhere FP6).

.NET Framework upgraded for TLSV1.2 and TLSV1.3 support

The System i Emulator and Update Manager programs have been updated to support .NET Framework 4.8 to enable them to both support the TLSV1.2 and TLSV1.3 SSL protocols (used to encrypt and secure data between client and server when using the HTTPS protocol).

The current versions of these programs used an earlier .NET Framework release which only supported the TLSV1.0 and TLSV1.1 SSL protocols. Support for TLSV1.0 and TLSV1.1 SSL protocols will be withdrawn from most major browsers and operating systems during 2020.

Support for new Infor IBM i Application Versions

Infor System i Workspace AnyWhere now supports the following Infor IBM i application versions…

- Infor Anael Finance 8.0
- Infor Anael Paie 7.0
- Infor ERP LX 8.4.1
- Infor ERP XA 9.2

Bug Fixes

5250 AnyWhere Emulator

BT 12971: The Global Field Format feature is now applied correctly within the 5250 AnyWhere Emulator

BT 12991: Reply to a Spool File message, when My Spool Files is opened from the Utilities Menu, is no longer blocked

BT 12993: Preferences can now be applied/reset within popup 5250 AnyWhere Emulator windows

BT 13028: Right-Click within a table now opens the 5250 AnyWhere Emulator Context Menu instead of the web browser's native context menu

Administration

BT 12990: The show/hide of Load Balancing instances within Workspace Configuration now works as expected

BT 13016: Selecting a blank Default Locale is no longer allowed within the Look & Feel tab within Workspace Configuration as this could corrupt setup data and prevent access to the product

BT 13020: Copying Screen Designs from a non-SSO instance to an SSO enabled instances no longer fails with CORS HTTP header errors

WFi

BT 12947: Manual Activities can now only be closed using the provided completion buttons, to prevent locked tasks in some web browsers

BT 12986: Details for Action Agents and other transaction controls are now displayed when the drilldown option is selected from Action Tracker

iViewer

BT 12975: The My Jobs data grid now displays job data when the user has submitted a job that has the "Scheduled" status

Other Changes

BT 12300: A `temp` directory folder is now created during an Apache Tomcat installation

BT 12994: The "System i Emulator is not installed" message has been changed for non-IE11 browsers. The previous message was misleading

BT 13032: The Update Manager correctly processes the HTTPS flag when Update Manager settings are published to clients from the Update Manager administration UI within `admin.html`

System i Workspace AnyWhere Fix Pack 6

Enhancements

ERS 06413 - Changes to the backup and recovery of Workspace Configuration

Within Workspace Configuration, the Update and Restore options have been moved into the Page Header for easier access. An administrator can now enter a note against each Workspace Configuration update. When restoring updates, the note, plus the date and time of the update can be reviewed before applying the backup. There is also a new Export option to allow customers to save all their configuration data to an external file that can be restored later, if required.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 11733 - Additional columns within My Spool Files

The columns of data displayed within the My Spool Files widget can now be configured by Infor System i Workspace AnyWhere users, including three new columns; Job Name, Queue and User Data.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 16493 - View users signed into Workspace

An administrator can now view a list of all validated (signed in) System i Workspace AnyWhere sessions within their Infor System i Workspace AnyWhere Web Server instance.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 20343 - Filter My Spool Files display

An administrator is now able to filter the Spool Files that are displayed in the My Spool Files widget within the System i Home tab and Utilities Menu (e.g. filter out all Job Logs or other IBM i "system" Spool Files so that users only see Spool Files from their Infor IBM i ERP application).

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 24286 - Answer questions raised by the IBM i in My Spool Files

A user may now answer inquiry messages (generated by the IBM i) defined against Spool Files listed within the My Spool Files widget (e.g. when a Spool File needs to be printed onto special stationary and the system uses an inquiry message to pause the print process until the stationary has been setup on the printer).

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 45614 - Graceful shutdown of active 5250 AnyWhere sessions by an administrator

A new Controlled Sign Out option, within View Anywhere Server Sessions interface, allows an Administrator to attempt the graceful end 5250 AnyWhere Sessions that have been left active or disconnected by their users.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 45617 – Apply changes to "allowed domains" without restarting the Web Server

If the administrator changes the `com.infor.domains.allowed` white-list setting within the Infor System i Workspace AnyWhere System Properties file, the client will now use the updated white-list each time a URL is launched, without needing to restart the Infor System i Workspace AnyWhere Web Server.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 45619 - Option to show "This site uses Cookies..." message in the Sign In page

An administrator can now enable Cookie Notification messages on the Infor System i Workspace AnyWhere Sign In page and define their own Cookie Notification message text.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

Support for IBM i V7R4

Infor System i Workspace AnyWhere has now been certified for use with IBM i V7R4.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

Update to Infor Design System 4.23.0

This release of Infor System i Workspace AnyWhere now utilizes the Infor Design System (IDS) version 4.23.0 (see https://design.infor.com/code/ids-enterprise/4.23.0 for more details about IDS 4.23.0). Customers that have utilized IDS in their Workspace/Emulator Extensions should review their code to ensure it has not been affected by any changes that have been made since the IDS 4.14 version (released as part of Infor System i Workspace AnyWhere FP2).

Bug Fixes

5250 AnyWhere Emulator

BT 12898: Manage WebSocket sessions that don't have a corresponding IBM i 5250 session

BT 12899: Drillback field overrides on screens containing a popup window are now processed

BT 12901: Text colour in System21 Cash Allocation now changes when selected

BT 12906: Popup Windows working correctly with named IBM i devices

BT 12911: Holding page-down key at the end of a subfile will no longer generate multiple messages

BT 12913: Screen Validation Rule no longer blocks input fields after displaying a message

BT 12921: Output data that contains multiple period characters is no longer altered by Remove Stops Global Rule

BT 12922: Set Field screen rule correctly updates the edit field to ensure data is sent to the IBM i

BT 12933: Numeric data now exports correctly for non-English locales

BT 12936: Java exception no longer displayed to client if `com.infor.siw.loc` property is not set

BT 12941: System21 Item Master Prompt popup window no longer contains data in fields that should be empty

Administration

BT 12871: Favourite Management confirmation message dialogs now show the correct action (Update or Delete)

BT 12919: Database Connection's validate option no longer disables account if the password contains a dollar character then

Other Changes

BT 12891: Security validator in the ActiveX Emulator page no longer fails if it receives empty parameters from a Drillback (e.g. from CRMi)

BT 12896: IDF tasks launched from the Favourites widget in either Emulator page now display

BT 12924: Translation updates for Czech locale

BT 12928: Added additional keyboard support within the Spool File Viewer

System i Workspace AnyWhere Fix Pack 5

Enhancements

ERS 16490 - Delete Active Clients in Configure Update Manager

The Active Client Details user-interface, within the Configure Update Manager section of Infor System i Workspace AnyWhere Administration, now supports the ability to remove Client entries (i.e. for PCs/users that are no longer active in your Enterprise).

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 32703 - Add Delete option to Favourites Manager

New delete options have been added to the *Browse Favourites* and *URL Find and Replace* (now rename *URL Replace and Delete*) user-interfaces so that an administrator can delete unwanted entries from user's favourites.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 32710 - Change table column order in Designer

Within the Designer Table Wizard's *Column Layout* screen, a Screen Designer may now change the order in which the columns will appear within the 5250 AnyWhere Emulator.

See the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 34996 - Hide Task Search widget in System i Home page

The System Administrator may now choose to hide the Task Search widget from the System i Home page to prevent their users from searching through task/menu/role data. This can be set on a per-Profile basis.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 35578 - Open NetLink sessions in multiple windows

It is now possible to configure Infor System i Workspace AnyWhere to allow users to open NetLink tasks inside popup windows that are external to the main Infor System i Workspace AnyWhere user interface. These windows can be independently sized or moved to other display devices to allow you

to view multiple tasks side-by-side. The current list of active popup windows are displayed within the Application Menu.

The NetLink Popup window facility is enabled per-profile, under control of the administrator, and will be set as disabled for new and existing profiles.

See the Infor System i Workspace AnyWhere Product and the Installation and Admin Guides for more details.

ERS 37381 - Validate 5250 AnyWhere Server sessions

Customers running over VPN, MPLS or other remote networks may experience problems if the network between the client and the Infor System i Workspace AnyWhere server disconnects abnormally, which then leaves the WebSocket protocol used by the 5250 AnyWhere Emulator in a state where the socket is "half-open" (i.e. the server does not know the client has disconnected). When the 5250 AnyWhere Emulator session is in this state, it cannot be recovered by the user on next Sign In. This enhancement resolves this issue by checking all active 5250 AnyWhere Emulator sessions are still accessible. The session validation process can be executed manually or configured to execute on a schedule.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 37877 - Schedule a full Application Manager cache refresh

Previously, to refresh the entire Application Manager cache, including all menu, role, user and authority updates, the System Administrator had to manually use the Application Manager interface within Infor System i Workspace AnyWhere Administration for each Database Connection to their IBM i. This process can now be automated to a daily or weekly update at user-defined time of day.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 38762 – Allow Administrator to change 5250 AnyWhere Emulator Preferences

The *Manage Emulator Preferences* user-interface within the System i Emulator section of Infor System i Workspace AnyWhere Administration has been expanded to allow an administrator to change 5250 AnyWhere Emulator Preferences and apply them to selected user profiles. The administrator can still also change Preferences for the System i Emulator, via a multi-tabbed display, and several new options on how the Preference changes are updated and applied have been included.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

ERS 40389 - Save/Restore Widget Order

The order of widgets within the System i Home page will now be saved when users sign out of Infor System i Workspace AnyWhere and restored when users sign back in with the same profile.

See the Infor System i Workspace AnyWhere Product Guide for more details.

ERS 43625 – New Manage Design Data UI

The functionality that was previously provided by the *Manage Design Data*, *Search Design Data*, *Manage Locked Design Screens* and *Show Report* user-interfaces within the System i Emulator section of Infor System i Workspace AnyWhere Administration have been merged into a single user-interface that is easier to use and provides additional functionality, such as the ability to apply changes to multiple items. The new user interface uses a paged Infor Design System Data Grid that allows the user to select one, multiple or all screen designs and apply Copy, Copy to Server, Unlock or Delete actions against their selections, along with both column and keyword search filtering and export to a Microsoft Excel compatible file.

See the Infor System i Workspace AnyWhere Installation & Administration Guide for more details.

Bug Fixes

5250 AnyWhere Emulator

BT 12703: Right-aligned labels are now correctly positioned

BT 12704: XML text data is now rendered in labels

BT 12794: 5250 key masking no longer blocks F9 – F24 keys

BT 12845: F2 key now works as expected when focus is inside a Datagrid

BT 12859: Ampersand (&) signs will now work inside a Datagrid

System i Home Page

BT 12701: Tasks within Favourites widget will no longer change to folders during Sign In

BT 12783: Launching a menu with a "\" character no longer opens a session that cannot be closed

Documentation

BT 12670: Documented additional authority required by Database User in relation to Spool File actions

BT 12796: New FAQ question relating to System Manager version

WFi

BT 12706: Final column in WFi Manual Activity Table no longer spans entire remaining display width

Administration

BT 12649: Display the Java JDK provider and version in the Version Information page

BT 12781: Company code field in Profiles will no longer clip wider code values (e.g. WW)

System i Workspace AnyWhere Fix Pack 4

Enhancements

The following new features have been added to Infor System i Workspace AnyWhere since the release of Fix Pack 3.

ERS 10939 – Disable "Remember Me" option on Sign In screen

This enhancement allows an administrator to disable the "Remember Me" option on the Sign In page. When this option is disabled, the last user name will not be populated in the User field when users navigate to the Sign In page (note, the browser may still populate this field if the user has chosen to save their user/password using the browser's form-save functionality). By default, after applying Fix Pack 4, the setting will remain set to Yes (current behaviour).

See the Infor System i Workspace AnyWhere Installation and Admin Guide for more details.

ERS 37382 – Improve 5250 AnyWhere Emulator usability on unstable networks

The 5250 AnyWhere Emulator uses the W3C WebSocket Protocol to communicate between your users Client (web-browser) and the Server (Infor System i Workspace AnyWhere). This communication protocol has good fault tolerance, but it can be interrupted if running over an unstable Wide Area Network (WAN) or Internet Service Provider (ISP) connection.

Should such a network interruption occur to a user, they may experience a "hung" session, where the animated progress icon is displayed, but no response or screen update occurs in response to their action.

To mitigate the problems of an unstable WAN/ISP, you can enable additional function within the 5250 AnyWhere Emulator that verifies all client requests are received by the Infor System i Workspace AnyWhere server and displays suitable warning/error messages should any communication problems occur.

See the Infor System i Workspace AnyWhere Installation and Admin Guide for more details.

Load Balancing

Infor System i Workspace AnyWhere now supports Load Balancing across multiple Microsoft Windows Server deployments.

See the new Infor System i Workspace AnyWhere – Load Balancing Guide for more details.

Bug Fixes

5250 AnyWhere Emulator

BT 12661: Documented how an extension can tell if running inside 5250 AnyWhere Emulator or System i Emulator

BT 12684: Global/Screen Font Adjustment decimal input now supports localization

BT 12675: Recovered Popup Windows are no longer blank in IE11/MS Edge

BT 12678: List of 5250 AnyWhere Emulator sessions no longer fails if a session property is null

BT 12674: 5250 AnyWhere Emulator no longer displays line 24/47 messages in a host message dialog for non-Infor programs

BT 12671: Export on some popups no longer fails to process past first screen

Other Changes

BT 12654: Email Tooltip in Spool File Viewer corrected

BT 12676: Updates for LX Drillback files

BT 12641: Translation Updates

System i Workspace AnyWhere Fix Pack 3

Enhancements

The following new features have been added to Infor System i Workspace AnyWhere since the release of Fix Pack 2.

ERS 15545 - Popup Windows

It is now possible to configure Infor System i Workspace AnyWhere to allow users to open 5250 AnyWhere and URL tasks inside popup windows that are external to the main Infor System i Workspace AnyWhere user interface. These windows can be independently sized or moved to other display devices to allow you to view multiple tasks side-by-side. The current list of active popup windows are displayed within the Application Menu.

The Popup window facility is enabled per-profile, under control of the administrator, and will be set as disabled for new and existing profiles.

See the Infor System i Workspace AnyWhere Product and the Installation and Admin Guides for more details.

ERS 15660 - Spool File Attributes

The attributes of one or more Spool Files can now be changed from the My Spool Files widget. This will allow you to perform changes to the Spool File that would normally require command access.

See the Infor System i Workspace AnyWhere Product Guide for more details.

Other Enhancements

- ERS 32701 - New option to reset the Widget Container back to default layout
- Screen Designer can now adjust the horizontal cell width in 5250 AnyWhere Emulator layout
- ERS 36501 - Added support for Turkish language

Bug Fixes

5250 AnyWhere Emulator

BT 12566: Fixed usability problems when a drop-down list is applied to an Auto-Enter field

BT 12567: Required field on a drop-down list is no longer positioned in the wrong location

BT 12569: DDMMYYYY date output format no longer sends incorrect information to the server

BT 12570: Popup title and buttons now recognized when a 5250 non-reverse image border is used for the window frame

BT 12597: `SetVariable` extension now returns a value instead of `null`

BT 12606: `GetFieldValue` now works as expected on popup windows

BT 12624: Added keep-alive mechanism to prevent IBM WebSphere Application Server disconnecting WebSockets after 15 minutes in Chrome/Firefox

Multi-Language Support

BT 12642: Using Russian language option no longer requires a special agreement with Infor

Documentation

BT 12607: Added SSO Must Gather & Troubleshooting Guide for Infor System i Workspace AnyWhere

System i Workspace AnyWhere Fix Pack 2

Enhancements

The following new features have been added to Infor System i Workspace AnyWhere since the release of Fix Pack 1.

ERS 19320 - Application Menu

Users can now manage their Recent Tasks list within the Application Menu. Individual tasks can be removed, or the entire Recent Tasks list can be cleared via a new Context Menu option.

ERS 23068 - Design Data Administration

Administrators now have the ability to delete the results of a search via the System i Emulator – Search Design Data option within Infor System i Workspace AnyWhere Administration interface.

ERS 07951 - 5250 AnyWhere Emulator

Users now have the ability to configure the first day of the week displayed in the Calendar drop-down from a Date control. The first day of the week is configured within the 5250 AnyWhere Emulator Preferences.

Bug Fixes

5250 AnyWhere Emulator

BT 12551: Blank options are no longer missing from drop down list controls

BT 12552: Fixed missing URL button parameters

BT 12553: Any text added using "Add Field" option in Designer is now displayed

BT 12550: Using "Locale With/Without Separators" options no longer causes blank dates

BT 08106: Show additional information to aid Designers/Support in identifying changes

BT 12544: Use of *HIVAL(x'FF') in 1/STDRF no longer causes session to hang

BT 12496: Extended Screen should not be applied if less than current screen width/height

BT 12458: Unexpected extra bytes in SNA Header no longer block screen processing

Multi-Language Support

BT 12484: Korean users can now launch 5250 AnyWhere Emulator tasks

BT 12482: Japanese users can now log on to System i Workspace AnyWhere

System i Emulator

BT 12457: Magic Number is now correctly updated when popup screen changes

Installer

BT 12540: The Fix Pack Installer will now pause after showing the Fix Pack Header information

Workspace Configuration

BT 12497: Dates are now correctly sorted in Internet Explorer for 'View Anywhere server session' UI

BT 12485: Active Clients can now be moved to new group in Configure Update Manager UI

Documentation

BT 12466: Procedure for changing password for default DB user has been documented

System i Workspace AnyWhere Fix Pack 1

Enhancements

The following new features have been added to Infor System i Workspace AnyWhere since the gold-copy release.

Middleware Changes

- Added support for IBM WebSphere Application Server 9.0 for deployment
- Added and documented support for KERBEROS-based Single Sign On for IBM WebSphere Application Server 9.0 for deployment

Designer Changes

ERS 15660 - Checkboxes Applied To Read-only Fields

In the previous released versions of the Infor System i Workspace AnyWhere Emulators, a check box would show unchecked if the corresponding field value was empty, blank or 0, and would only show checked if the field value was equal to "1". This behaviour meant that it could not be used in Infor ERP System21 tables where a "*" character is used to show a particular function is set (e.g. Text for an Order Line, Item is part of a Kit, Item is reserved in a Stockroom).

In this Fix Pack, we have changed the behaviour in both Emulators so that if the field value is empty, blank (space) or 0, it still shows as unchecked, but for any other field value, it shows as checked

ERS 32714 - Change Attributes/Alignment of Edit Fields

Screen Designers can now change the Alignment or Attributes of Edit Fields. This feature was previously restricted to Label Fields.

See the new *Changing the Attributes of a Edit Field* and *Changing the Alignment of a Edit Field* sections in Chapter 3 of the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 32713 - Designer Background Colour Setting

To differentiate between run-time and design modes, Screen Designers can now change the background colour of the System i Emulator display inside Designer.

See the *Tools Menu* section in Chapter 3 of the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 32711 - Allow Table Column Width Override in Table Wizard

Screen Designers can now set the display width for columns within 5250 AnyWhere Emulator Tables. This new feature can be found within step three (*Column Format*) of the *Define Table Properties* wizard.

An example usage for this new feature is where a IBM i application's sub-file column only spans one or two screen characters, but the column heading is currently abbreviated, or there is not even enough room on the IBM i application screen to show a column heading. By changing the display width of the column, a more verbose heading can be provided, or this feature can simply be used to give improved column spacing within complex tables.

See the *Define a Table for Export* section in Chapter 4 and also the *Adjust Table Column Widths* section in Appendix A of the Infor System i Workspace AnyWhere Designer Guide for more details.

ERS 32702 - Prompt User before Performing Table Column Re-analysis

To aid re-design of existing Table Definitions within Designer, the behaviour of the *Define Table Properties* wizard has been modified.

As in the existing release, if the columns within the *Column Layout* screen are structurally re-defined (i.e. columns are fully re-analysed via the first screen of the wizard, or columns are individually added/removed), any modifications within the *Column Format* screen will be lost.

However, if existing columns within the *Column Layout* screen are changed (i.e. just the start or end positions are adjusted), then when you move to the *Column Format* screen, you will be prompted whether you want to re-analyse the Column Formats, and selecting *No* will leave the existing *Column Format* properties as previously defined.

See the *Define a Table for Export* section in Chapter 4 of the Infor System i Workspace AnyWhere Designer Guide for more details.

5250 AnyWhere Emulator Changes

- "Screen Replacement" Extension Functionality is now supported within the 5250 AnyWhere Emulator (see the updated Infor System i Workspace AnyWhere Extensions Guide for more details)
- Added ability to override or add new 5250 AnyWhere Emulator locales (see Chapter 11 of the Infor System i Workspace AnyWhere Installation & Admin Guide for more details)

Documentation

- Added new Infor System i Workspace AnyWhere Frequently Asked Questions (FAQ) Guide to documentation set
- Updated the Infor System i Workspace AnyWhere Product Guide to show new SoHo Xi Application Help styles

Bug Fixes

5250 AnyWhere Emulator

BT12391: A change to IBM 5250 Message Wait state no longer causes next keypress in the first 5250 session to hang

BT12444: Screen Insert Cursor Position is now honoured if field is moved using Designer

BT12441: Designer "Change Width" setting now changes the visible width, not the field length

BT12426: Edit fields on line 22 are no longer overwritten if button compression is enabled

BT12421: Single field values, pasted into edit fields, are now sent to the server in IE11

BT12356: Programs that use the cursor position to determine the correct prompt now work in IE11

BT12351: Improved Popup sizing and reduce need to use scrollbars to access fields

BT12350: Fields moved below a table using Designer are now displayed

BT12331: Improved 5250 Save/Restore processing

BT12346: Tables without a header will no longer clip fields beneath the table

BT12345: Space beneath folded tables is now consistent

BT12340: Labels after Tables with Paired rows are no longer clipped

BT12299: Improved Popup recognition

BT12333: Table Column fields are no longer placed in the wrong position

BT12330: Fields that span two 5250 lines are now correctly displayed

BT12310: Export data dialog Personalisation now works as documented

BT12268: Corrected error dialog size

BT12307: Popup Buttons are now correctly split onto multiple rows in popup windows

BT12291: Display of a popup window over hidden screen using `customHideEmul` extension method no longer causes the hidden emulator screen to appear

BT12301: Informational Messages on line 24 are now displayed

System i Emulator

BT12238: Fixed the toolbar for the My Spool Files and My Jobs widgets so the Refresh icons no longer overlap the title text

BT12332: Screen shot viewer icons no longer overlap the title text.

BT12329: My Recent Task - Tasks in the list now launch when selected

iViewer

BT12422: My Spools now supports viewing the spool file in PDF type for IBM i version

BT12287: User "Records Per Page" option now displayed

BT12389: # symbol in Job/Spool Name no longer prevents Spool file display

Favourites Management

BT12400: Favourites Browse Favourites page splitter initial position is now correct

BT12395: Favourites URL Find and Replace now displays results

WFi

BT12360: WFi Escalation Table now shows enabled rules

BT12335: Single Quote in Description no longer prevents activity from opening

BT12309: User can now complete all types of WFi Activities

System i Home Page

BT12305: My Favourites Widget now hides shortcut info

BT12304: Widget "is ready" message no longer fails in IE11

Other Changes

BT12317: Updated Drillback File for LX 8.4.0 release

BT12405: Fixed JavaScript error when performing validation for invalid server and static URLs in Workspace Configuration page

BT12394: Fixed Verification and Login Errors when using 1- or 2-Character Environment codes or 1 character company codes

BT12372: WebTop and NetLink URLs no longer need to be added to the whitelist

BT12362: Date sorting in SoHo Xi Grids improved across the admin pages

BT12437: Installer now accepts and validates Wildcard Certificates