



# Enhancements & Fixes for Halcyon IBM i Product Suites Network Server Suite and specialist products

**Covering releases: October to December 2013**

**IBM i: 2013.276 to 2013.343**

**Network Server Suite v8.1: 2013.308**

**Network Server Suite v9.0 (UNICODE): 2013.283 to 2013.309**

**Advanced Reporting Suite: 2013.283**

**Snapshot/TSC v11.5: 2013.339**

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## Foreword

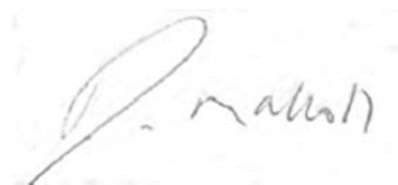
*By Donnie MacColl, Technical Services Director*

This update covers product enhancements and fixes between October and December 2013 for all Halcyon IBM i Software Suites, Network Server Suite and specialist products.

These update notifications are intended to provide customers with the technical release information of all the latest product enhancements and fixes of our software so you can decide if you need to, or wish to, upgrade from your current version of Halcyon Software to a newer version.

Information contained in these documents is aimed at technical analysts, administrators and operations staff responsible for the maintenance of our software on their own systems or their client's IBM i (iSeries) systems.

These release notes will also assist with change and version control by providing the information and reasons as to why an upgrade is required.



Donnie MacColl

### About Donnie MacColl



Prior to becoming Director of Technical Services at Halcyon Software Ltd, Donnie MacColl has worked for more than 20 years in the IT industry. He first specialized in the management of IBM i systems, (iSeries, AS400), in general manufacturing and logistics companies. Later on in his career Donnie was Network Manager for one of the largest telecommunications corporation in Europe.

He is regular speaker at international IBM events, including IBM Common in Europe and the USA, as well as the Interaction Conference in Australia.

Donnie specialises in advising companies on how to keep a tight control on the management of operations, critical processes, and core services across increasingly complex infrastructures and multi-platform environments.

He has worked with many industry sectors in his time at Halcyon Software to help improve cost efficiencies by implementing solutions in large European and US data centers in companies such as Computacenter, Parker Hannifin, Cap Gemini, Getronics, Logica, BGL Group (Budget Insurance), Arcadia and SunGard Public Sector.

## Halcyon IBM i Product Suites

The following product suites are covered within this document:

### Level 1 Message Management Suite



Our entry level suite for the IBM i. Closely monitor all your system messages, key applications and critical business processes.

#### Featuring:

- Message Monitoring
- FTP Monitoring
- TCP/IP Monitoring
- Job Log Monitoring
- Output Queue Monitoring
- Device Monitoring
- Job Queue Monitoring
- SLA Reporting

### Level 2 Systems Operations Suite



Monitor your IBM i system messages and automate the control of significant events.

#### All the features, of the Message Management Suite, plus:

- Object Monitoring
- Performance Monitoring
- Distribution Queue Monitoring
- User Profile Monitoring
- Inactivity Monitoring
- Audit Journal Monitoring
- Restricted Tasks Management

### Level 3 Advanced Automation Suite



This level enables you to optimize performance, disk space and spool file management on your IBM i.

#### All the features of the Systems Operations Suite, plus:

- Performance Management
- Performance Snapshots GUI
- Disk Space Management
- Disk Space Explorer GUI
- Spooled File Management

### Level 4 Operations Center Suite



Raise your operational control to the ultimate level. Contains all the functionality of the previous levels 1 to 3, plus the most advanced job scheduler available today.

#### Our flagship software suite contains all the features of the previous three suites, with the addition of:

- Advanced Job Scheduling

## Network Server Suite



Halcyon's Network Server Suite has been designed to provide a comprehensive monitoring solution to keep a close eye on all your critical servers, applications and devices across a multi-platform environment including Windows®, AIX® and Linux®.

## Advanced Reporting Suite



Halcyon's Advanced Reporting Suite eliminates the time-consuming, manual processes that are traditionally required to generate performance reports that prove adherence to Service Level Agreements (SLAs) and flag any issues so that they can be quickly resolved.

## Authority Swapper



Authority Swapper allows a user to temporarily swap to a different profile that typically has additional authorities so that they can complete a specific task. Record screens used during a swapped session for auditing purposes.

## Task Supervisor



Task Supervisor is a unique, simple and cost-effective solution that enables organizations to list, organize and view all essential tasks in one, centralized location, minimizing the risk of business disruption and human error.

## Snapshot/TSC



Snapshot TSC is an award winning performance and capability planning utility. The software monitors and notifies you of performance problems or application issues that could adversely affect the performance of your IBM i server.

## How to use this document:

This publication is split into two chapters:

- Product Enhancements
- Product Fixes

Each of these chapters is then split in the following order:

- **Common Library**

These are enhancements and fixes that affect all products suites from Level 1 (Message Management Suite) through to Level 4 (Operations Center Suite).

- **Specialist Products** (listed alphabetically)

These are enhancements and fixes that affect individual products which are contained as modules in one or more of Halcyon's Product Suites.

For example, an enhancement to Audit Journal Manager is only applicable to Level 2 (Systems Operations Suite), Level 3 (Advanced Automation Suite) and Level 4 (Operations Center Suite).

- **Individual Change Reference**

Each enhancement and fix is prefixed with a CHGxxxx reference, where xxxx represents a combination of numbers and letters. Within both the Common Library and Specialist Product sections, each enhancement or fix is then listed in numerical and then alphanumeric Change Reference order.

## Finding information in this PDF

From within Adobe® Acrobat® Reader®, use either the Search window (accessible from menu options: Edit | Search) or the Find toolbar (shown far right in the image below) to search document content.



Type the text that you wish to use for the basis of the search and press Enter.

We recommend using the CHG reference ID number (for example; CHG03RS), if known, within the Search or Find parameters as this text is unique within the document.

## Need to confirm which Halcyon Products you have installed?

If you are unsure which Halcyon products you have installed on your system, type the following command onto the command line within your Halcyon environment:

```
DSPPRDINF
```

Alternatively, from within the Halcyon product menu, select option 70=Technical Information Menu followed by option 1=Display Product Information.

If you are still unsure, please contact: [technicalservices@halcyonsoftware.com](mailto:technicalservices@halcyonsoftware.com)

# Enhancements and Fixes



## IBM i Product Suite Enhancements

The following enhancements have been made to Halcyon IBM i Product Suites between October and December 2013, covering IBM i releases: 2013.276 to 2013.343.

### Common Library – Admin Alert Criteria

**Reference: CHG06EJ    Message HAL1251 added to Admin Alert Criteria**

Work with Admin Alert Criteria (WRKADMALT) now includes the following message to cover import failures due to differing PTF levels:

HAL1251 - Import failed. Local and imported product PTF levels are different.

### Common Library - Customized Environments

**Reference: CHG0679    Vision Customizations available**

Vision Replication Monitoring customizations are now available.

**Reference: CHG06B1    Make Vision iTERA customizations available**

Vision iTERA Availability Monitoring customizations are now available.

### Common Library - Import Environments

**Reference: CHG06A1    Import Environment is refused if Environments are not at same PTF Level**

Import Environment (IMPENV) will refuse to import the data if the Source and Target Environments are not at the same PTF Level. This is to prevent issues where functionality has been introduced that requires configuration which does not exist or is different at other PTF Levels.

### Common Library – Job Log Monitor

**Reference: CHG0657    New Job Log Monitor available**

A new Halcyon Monitor; the Job Log Monitor, is now available.

This Monitor allows you to create Rules to select Jobs and Alert if the Job Log of matching Jobs contains the specified message(s).

The Job Log Monitor is a new addition to the Message Manager (HMM) Product.

## Common Library – Job Queue Rules

**Reference: CHG048W Ability to use generic\* and \*ALL values for Name and Library added**

Job Queue Monitor has been enhanced to allow specifying of a generic or \*ALL value for Job Queue Name and/or Job Queue Library. When checking rules the logic will select in the following priority:

- Whole Queue Name and whole library name (e.g. QBATCH QUSRSYS)
- Generic Queue Name and whole library name (e.g. Q\* QUSRSYS)
- Generic Queue Name and generic library name (e.g. Q\* Q\*)
- Generic Queue Name and \*ALL library name (e.g. Q\* \*ALL)
- \*ALL Queue Name and whole library name (e.g. \*ALL QUSRSYS)
- \*ALL Queue Name and generic library name (e.g. \*ALL Q\*)
- \*ALL Queue Name and \*ALL library name (e.g. \*ALL \*ALL)

## Common Library – Output Queue Rules

**Reference: CHG069F Output Queue Monitor can now alert based on spooled file age in minutes**

Output Queue Monitor now has the ability to alert based on spooled file 'Age in Minutes', as well as Hours and Days which were already available. Within a \*SPLF type rule, the 'Age' parameter now allows Minutes (M), Hours (H) or Days (D).

## Common Library – Performance Monitor

**Reference: CHG04DW Improve efficiency of Performance Monitor**

There have been efficiency improvements made to the Performance Monitor.

## Common Library – Remote Locations

**Reference: CHG066A Remote Locations can now be exported**

It is now possible to Export Remote Locations (EXPRMTLOC) via new option '13=Export' within Work with Remote Locations (WRKRMTLOC).

This exports the selected Remote Location to the specified System, Remote Location or Remote Location Group.

**Please Note: Export is only allowed between Environments at the same PTF Level.**

## Common Library – Web Logs

**Reference: CHG0654 Print Web Log (PRTWEBLOG) functionality added**

The ability to print the Web Log has been added via the new 'Print Web Agent Data Log' (PRTWEBLOG) command. This command has also been added to the relevant Reports menus.



## Advanced Job Scheduler

### Reference: CHG05VW 'Application' mode added to Groups and Schedule

Advanced Job Scheduler now supports two Application Modes.

#### System Default: HJS/APPMODE

Application Mode is controlled by new system default HJS /APPMODE:

- \*BASIC** This is the current/original method. This is the default value.
- \*ADVANCED** This is a new method that completely changes the way Advanced Job Scheduler manages inheritance of \*DFT values and the view within Work with Groups (WRKGRP) and Work with Schedule (WRKSCH).

#### Mode: \*BASIC

In summary:

- \*DFT value Inheritance: **Job > Group > Job Environment**
- \*ITEM level user authority: Enforced using Group Partitions

#### Mode: \*ADVANCED

In summary:

- \*DFT value Inheritance: **Job > Group > Application**
- \*ITEM level user authority: Enforced using Application

### Reference: CHG0644 \*REF job has new 'Group inheritance' parameter

An Advanced Job Scheduler \*REF Job would inherit \*DFT settings from the local Group/Environment rather than the referenced Group/Environment.

To provide flexibility, a \*REF Job now includes new parameter 'Group inheritance' which allows you to define whether the Job should inherit \*DFT settings from the current Group/Environment or the Group/Environment of the referenced Job.

### Reference: CHG064U Ability to specify \*NEXT for 'Date' parameter on ADDSCH added

'Add Schedule' (ADDSCH) now allows additional values for the 'Start Date' (DATE) parameter as follows:

- \*TOMORROW** Adds the Group to the Schedule for tomorrow's date.
- \*NEXTOCC** Uses the 'Start time' (TIME) to determine whether to add the Group to the Schedule for today or tomorrow. If the time is later than the current time the Group is added to the Schedule to be run today but if the current time is later than the time to be run the Group is added to the Schedule for tomorrow.

**Reference: CHG06DK    New Summary Status version of Print Schedule report added**

Advanced Job Scheduler now includes a new variant of the 'Print Schedule' Report (PRTSCH) called the 'Summary Status'.

The first page of the report lists a count of 'Groups Run', 'Jobs Run', 'Groups OK', 'Jobs OK', 'Groups Failed' and 'Jobs Failed'.

The second page onwards lists the Groups/Jobs that failed.

**Authority Swapper****Reference: CHG05CP    Ability to define and use Swap Permit for Group Profiles added**

Authority Swapper now supports the use of a Swap Permit at Group Profile or Supplemental Group Profile level. The search for an available Swap Permit is now performed in the following priority:

- Swap Permit for the Job User
- Swap Permit for the Group Profile of the Job User
- Swap Permit for a Supplemental Group Profile of the Job User.

If a valid Swap Permit is found for any of the scenarios above then the Swap will be allowed.

**Reference: CHG0635    Subset by status functionality added within Work with Swap Sessions**

Work with Swap Sessions (WRKSWPSSN) now has the ability to subset by Status.

**Reference: CHG0636    Monitor automatically deletes expired Swap Permits**

The Authority Swapper Monitor will now automatically delete expired Swap Permits just after midnight and when it is started.

**Reference: CHG066X    Authority Swapper supports management of FTP connections**

Authority Swapper now supports the management of connections via FTP.

**Reference: CHG06CT    Multiple users are now allowed to use the same Swap Permit**

Authority Swapper now has the ability to allow multiple users to use the same Swap Permit rather than having to have a Swap Permit per Job user. This is achieved by new 'User Lists' functionality.

**Work with User Lists (WRKUSRLST)**

Work with User Lists has been made available for maintenance of User Lists. A User List contains a list of Job Users.

**Work with Swap Permits (WRKSWPPMT)**

Work with Swap Permits now allows you to specify a User List for the 'Job user' on a Swap Permit. The Swap Permit is then available for use by any of the users specified on the User List.

## Document Management System

### Reference: CHG05WT Optional Segments that do not have output can now be totally suppressed

Document Management System (DMS) now allows you to completely suppress output if a Bundle does not include any data. Previously you would always get a Bundle header page detailing the selected Archived Spooled Files and that no data was found to be included.

It is now possible to suppress this within Work with Recipient Lists (WRKRCPL) by setting all the following values:

- Bundle headers \*NO
- Bundle segment headers \*NO
- Segment \*NO
- Segment output on no data \*NO

### Reference: CHG0618 Bundle/Segment headers enhanced to allow \*ALWAYS/\*YES/\*NO

Document Management System (DMS) Recipient Lists (WRKRCPL) now allow additional values in regards to Segment and Bundle output. The output for Segments and Bundles has been changed accordingly.

#### Bundles

The following settings only apply to Bundle output:

##### Bundle Headers:

- \*ALWAYS** The Bundle always includes a Bundle header and footer.
- \*YES** The Bundle only includes a header and footer if there is Segment output to be included in the Bundle. If no Segments provide output then no Bundle header or footer is output.
- \*NO** The Bundle header and footer is never output.

##### Bundle segment headers:

- \*ALWAYS** The Bundle always adds a header for each Segment regardless whether the Segment produced output or not.
- \*YES** The Bundle only adds a header for the Segment if the Segment produces output to be included in the Bundle. For Segments that do not produce output for the Bundle no Segment header is added to the Bundle.
- \*NO** The Bundle never adds a header for the included Segments.

#### Segments

The following settings only apply to Segment output:

##### Segment headers:

- \*YES** The Segment only adds a header if there is output. If there is no output for the Segment, taking in to account the setting for 'Segment output on no data', then no Segment header is added.
- \*NO** A header is never added for the Segment.

Segment output on no data;

- \*YES** If no data is output for the Segment the text defined in System Default HEM/SPLBDLNNOSEGTEXT is output in large 8x8 characters instead. This means the Segment always has output.
- \*NO** No output is produced if there is no data for the Segment.

**General Information**

- With these changes it is possible to run a Segment and/or Bundle and get no output.
- Note that the setting for 'Segment output on no data' only affects Segments, not Bundles. If a Bundle includes a Segment which does not output data then the Segment is suppressed within the Bundle regardless of the value for 'Segment output on no data'.

**Reference: CHG0620 Display Archived Spooled File automatically builds Indexes if needed**

Display Archived Spooled File (DSPARCSPLF) and the DMS GUI API for Display Archived Spooled File will now automatically build/rebuild the indexes if required.

**Reference: CHG062Y New Index rebuild tool available for use after MIMIX replication of archived spooled files**

Document Management System (DMS) now has the Check Spooled File Indexes (CHKINDEX) command available which can be used to automatically build Indexes on archived spooled files that are missing.

CHKINDEX checks for archived spooled files in \*INDEXED Archives that have an Index indicator but for which the Indexes are missing. When found, the Indexes are rebuilt.

CHKINDEX has the following parameters:

- **RANGE:**
  - \*ALL** Check all Archived Spooled Files and rebuild Indexes where required.
  - \*PRV** Check Archived Spooled Files that have been archived since the last check and rebuild Indexes where required.
  - 1-1440** Checked Archived Spooled Files archived in the last x minutes where x is the value specified.
- **SBMBLD:**
  - \*YES** Submit the Index rebuilds to batch to the job queue specified in system default HEM/SPLJOBQ
  - \*NO** Run the Index rebuilds immediately, do not submit to batch.

The intention of the CHKINDEX command is to allow automatic Index rebuilding after MIMIX replication of the spooled file Archives. An IMPENV \*NONSYS can be used to pull across the Halcyon data but this, by design, does not include the archived spooled file Indexes as the files can be very large. In this scenario the CHKINDEX command can be used to build the missing Indexes.

**Reference: CHG065W Options added to Hold/Save on F22=Print in Display Archived Spooled File**

Document Management System now includes the ability to set whether to Hold and/or Save when printing from within Display Archived Spooled File via the 'F22=Print' button.

New system defaults have been added to control the default values:

**HEM/SPLARCPRTHLD**

\*YES/\*NO Defaults to \*NO. Controls whether the print should be Held or not.

**HEM/SPLARCPRTSAV**

\*YES/\*NO Defaults to \*NO. Controls whether the print should be Saved or not.

**Reference: CHG06EL Ability to hold/release a Bundle now added**

Document Management System now includes the ability to Hold and Release a Bundle within Work with Bundles (WRKBDL) via new options '6=Release' and '7=Hold'. A held Bundle shows a status of \*HELD and is not included when 'Run Bundle' (RUNBDL) or 'Run Segments' (RUNSEG) is used - even if the Bundle is specified directly.

## Record & Playback

**Reference: CHG061L Recorded screens can now be verified on playback using Screen Templates**

Record & Playback now has the ability to verify screens on Playback via use of new 'Screen Templates'. Screen Templates are a textual copy of a screen stored as members within a source file against which the screens encountered as part of running the script are compared to check for differences.

**Reference: CHG065O Notes can now be added to a Playback Session**

Record & Playback now has the ability to add Notes against a Playback Session.

New system defaults have been added to control where the Notes are stored:

**HRP/NOTESDIR**

This is the IFS folder used to store the Notes, if HRP/NOTESTYPE is set to \*STMF

**HRP/NOTESFILE**

The source physical file to use to store the Notes, if HRP/NOTESTYPE is set to \*FILE

**HRP/NOTESTYPE**

Whether to store Notes within the text stream files in the folder defined in HRP/NOTESDIR or within members within the source physical file defined in HRP/NOTESFILE

Having set the system defaults accordingly you are then able to use option '14=Notes' against a Playback Session within 'Work with Playback Sessions' (WRKPLBSSN). The relevant files will be created if they do not already exist.

Playback Sessions with Notes entered are displayed with an asterisk (\*) against them on the far right side of the list of Sessions within 'Work with Playback Sessions' (WRKPLBSSN).

**Reference: CHG065P    Work with Playback Sessions now include function to show Description**

Work with Playback Sessions (WRKPLBSSN) has new function key 'F11=View 2' which replaces the 'Start Date', 'Start Time', 'Playback Job' and 'Playback User' parameters with the script Description.

**Reference: CHG06AO    Underscore allowed in variable names**

Record & Playback now allows the use of underscore ( \_ ) in variable names. It cannot be used for the first character of the name, only subsequent characters.

**Reference: CHG06AR    Substitution Variable mapping can now be defined from old to new Variables**

Import Record & Playback (HRPIMPORT) now includes parameters to allow you to define to replace existing Variable names with new Names and also to replace specific characters in Variable names:

**RPLVARNAME**    Specify up to 64 'old to new' variable name pairs.

**RPLVARCHR**    Specify up to 8 'old to new' individual character replacement pairs for variable names.

For example:

```
HRPIMPORT RPLVARNAME((COMPLETED FINISHED)) RPLVARCHR((# 1))
```

- This will replace all occurrences of variable COMPLETED with FINISHED.
- This will replace all occurrences of # in a variable name with 1.

**Reference: CHG06AS    Verify script now warns if brackets are missing from known Function**

Verify HRP Script (VFYHRPSCR) now generates warnings if it finds what appears to be a HRP Function that is missing the brackets. For example; &SCRPTNAM = %SCRIPT which should be; &SCRPTNAM = %SCRIPT()

**Reference: CHG06AU    Run HRP Script now supports Substitution Variables for Password**

Run HRP Script (RUNHRPSCR) now allows you to specify a Substitution Variable for the Password parameter. The Substitution Variable must exist in the same Environment as HRP, the name must be enclosed in single quotes and prefixed with ampersand. As an example: PASSWORD('&PWD').

**Reference: CHG06B3    Highlight screen differences to Template**

Work with Playback Sessions (WRKPLBSSN) will now show a marker against a Screen Template, within '10=Screen', to show the first mis-matched character compared to the actual screen captured.

The marker is shown as three greater than (>>>) or less than (<<<) symbols which point to the character that does not match the screen captured. The marker can be hidden/viewed by using F11.

**Reference: CHG06BA    Add Functions for Script name, source file/library + description**

Record & Playback now includes new functions as follows:

- %SRCFILE() - Returns the source file the script is from (e.g. QSCRIPTS)
- %SRCLIBR() - Returns the source file library (e.g. HRPPROD)
- %SCRIPT() - Returns the name of the script/member in the source file.
- %SRCTEXT() - Returns the description against the script/member.

**Reference: CHG06BK    Add F17=Top and F18=Bottom within 10=Screens in Work with Playback Sessions**

Work with Playback Sessions (WRKPLBSSN) now has 'F17=Top' and 'F18=Bottom' available within '10=Screens' and '5=Display' against a Screen Capture.

**Reference: CHG06BO    Add ability to define allowed User for script playback on Record HRP Script**

Record HRP Script (RCDHRP) now includes parameter 'Playback user' (PLYBCKUSER) to define which user is set in the script for 'DefUser' - the user allowed to run the script;

**\*SAME**    The User set in parameter 'User' (USER) is set as the only user allowed to run the script via 'DefUser' in the script. The 'DefInIPgm', 'DefInIMnu' and 'DefCurLib' values in the script are set to the values specified for 'Initial program', 'Initial menu' and 'Current library' parameters. This is as previous functionality. This is the default value.

**\*ANY**    Any user is set to be able to run the script via 'DefUser' in the script. The 'DefInIPgm', 'DefInIMnu' and 'DefCurLib' values within the script are set to the actual values from the User used to record the script to ensure any user running the script starts at the same place as the user that recorded the script.

**Reference: CHG06BX    Add ability to get command line in playback session in Debug Mode**

Run HRP Script (RUNHRPSCR) now has the ability for you to inject/run HRP script statements manually as part of running a script in debug mode.

Whilst in debug mode you can now use new function key F14 which opens a command window which accepts HRP script statements and run them immediately.

For example; you can run a command to look at objects within QTEMP before the script proceeds with the next statement.

**Reference: CHG06CN    Run HRP Script now supports longer scripts**

Record & Playback now supports running a script of up to 8,220 executable lines excluding comment lines.

**Reference: CHG06D1    Screen Templates can now be created during Run HRP Script**

Run HRP Script (RUNHRPSCR) now allows you to capture the Screen Templates for comparison on future runs. New parameter 'Save screen templates' (SAVETEMPL), default \*NO, has been made available for this purpose.

## Message Communicator

**Reference: CHG06DQ    Communications Log is now encrypted so passwords are not exposed**

The Message Communicator Communications Log, file HMCCMN, now encrypts the request data so as not to easily expose sensitive information such as passwords.

**Reference: CHG06EQ    New statement added to stop modem response being out of sync**

Message Communicator now includes a new SYNCH statement for use in scripts. The SYNCH statement causes a delay to allow the GSM/Modem time to respond. The statement is followed by the number of seconds for which the delay is set. For example; SYNCH 5 would wait 5 seconds.

## Message Manager

**Reference: CHG0678    Alert Log and Message Console can now handle messages containing hex characters**

Work with Alert Log (WRKALTLOG) and Halcyon Message Console (DSPMSGCON) have been enhanced to handle non-displayable hex characters within the Alert text.

**Reference: CHG060Q    Efficiency of Message Monitor IBM PTF check improved**

The starting of the Message Monitor has been made more efficient.

## Restricted Tasks Manager

**Reference: CHG06D4    A user defined REPLY can now be used rather than \*DFT REPLY**

Restricted Tasks Manager would always reply to Inquiry messages on QSYSOPR with the default reply. You are now able to switch HRT to use Rule defined REPLY Actions instead by use of new system default HRT/ INQMSGRPY which has the following options:

- \*DFTRPY**    All inquiry messages are given the default reply. REPLY Actions do not work. This is the default value and behaves as previously.
- \*USRCTL**    Inquiry messages sent to QSYSOPR may be replied to using a REPLY Action. If a message sent to QSYSOPR is not replied to, it is given the default reply.

## Performance Analyzer

**Reference: CHG0656    SLA % Achieved parameter added to Display Performance Data**

Performance Analyzer now records, as a percentage, the level of SLA achievement. The new 'SLA performance%' parameter is calculated as;

(No. of SLA Rules within SLA / No. of SLA Rules) \* 100

The new 'SLA performance%' parameter is displayed below the existing 'SLA was achieved' parameter within Display Performance Data (DSPPFMDTA).



## Spooled File Manager

### Reference: CHG06BM    **New functions added to Spooled File Scripting**

Spooled File Manager Scripting now includes new functions as follows:

#### **%SRCFILE()**

Returns the source file the script is from (ie. QSCRIPTS)

#### **%SRCLIBR()**

Returns the source file library (ie. HEMPROD)

#### **%SCRIPT()**

Returns the name of the script/member in the source file.

#### **%SRCTEXT()**

Returns the description against the script/member.

### Reference: CHG06DA    **Scripting - underscore (\_) allowed in variable names**

Spooled File Manager Scripting now allows the use of underscore (\_) in variable names. It cannot be used for the first character of the name, only subsequent characters.

### Reference: CHG06DR    **Delete Spooled Files (DLTSPLFG) limit increased**

Delete Spooled Files (DLTSPLFG) had a limit of 99,999 spooled files that could be deleted. This limit has been increased to 9,999,999 spooled files.

## Network Server Suite Enhancements



The following enhancements have been made to Halcyon Network Server Suite between October and December 2013, covering v9.0 Unicode releases 2013.283 to 2013.309 and v8.1 release 2013.308.

### Network Server Suite (v9.0 Unicode)

**Reference: CHG05YD    Improvements made to Enterprise Console when handling thousands of Event Log entries**

Improvements have been made to the Enterprise Console for the handling of situations where there are many thousands of Event Log entries.

**Reference: CHG064P    M3 Grid Monitoring template added to Central Configuration Manager**

New M3 Grid Monitoring Templates are now available for CCM.

**Please Note: The new templates are only available on new/clean install, not on upgrade.**

**Reference: CHG0689    Enterprise Console updated to support IBM i MQ Monitor**

Enterprise Console has been updated to support the new IBM i WebSphere MQ Monitor.

**Reference: CHG0698    Enterprise Console updated to support for IBM i Job Log Monitor**

Enterprise Console has been updated to support the new Halcyon IBM i Job Log Monitoring.

**Reference: CHG06BH    Enterprise Console now highlights when Network Manager/IBM i Monitors are not online**

Enterprise Server now has the ability to check if the remote system Agent or IBM i Monitors are responding and Alert if they are not. This enables you to check if the Halcyon software is not active on the remote system.

### Network Server Suite v8.1

**Reference: CHG0640    M3 Grid Monitoring template added to Central Configuration Manager**

New M3 Grid Monitoring Templates are now available for CCM.

**Please Note: The new templates are only available on new/clean install, not on upgrade.**

**Reference: CHG0688    Enterprise Console updated to support IBM i MQ Monitor**

Enterprise Console has been updated to support the new IBM i WebSphere MQ Monitor.

**Reference: CHG0697    Enterprise Console updated to support for IBM i Job Log Monitor**

Enterprise Console has been updated to support the new Halcyon IBM i Job Log Monitoring.

## Advanced Reporting Suite Enhancements



The following enhancements have been made to Halcyon Advanced Reporting Suite between October and December 2013, covering release 2013.283.



### Advanced Reporting Suite

**Reference: CHG06CG    Product security is now managed using Roles**

Advanced Reporting Suite now supports the use of 'Roles' for users.

## Product Suite Fixes



### IBM i Product Fixes

The following fixes have been made to Halcyon IBM i Product Suites between October and December 2013, covering IBM i releases: 2013.276 to 2013.343.

#### Common Library – Export Rules

**Reference: CHG068H    Export Rule now displays error if Remote Environment unknown**

Export Rule (EXPRULE) would not show an error when you attempted to Export to a Remote Location that had not had its Environment code 'discovered' by normal communication via the Network Monitors. This has been fixed and a message is now shown stating 'Remote location could not be resolved.'

#### Common Library - Install

**Reference: CHG06EO    IFS and DLO authorities now correct if command defaults changed**

The IFS and DLO folders would have incorrect authority after a new install if the command defaults on the MKDIR command had been changed. This has been fixed.

#### Common Library – Object Rules

**Reference: CHG067M    Object no longer incorrectly alerts for size comparisons**

The Object Monitor was incorrectly alerting for Rules with an 'Object size' comparison specified. This has been fixed.

#### Common Library – Performance Monitor

**Reference: CHG06A9    Held Rule now releases after a specified period**

In certain situations a Performance Monitor Rule which had an Auto-Release Hold for a specified duration would not automatically release. This has been fixed.

**Reference: CHG06B4    Closing an Alert in Error status now sends close to remote CONSOLE**

Closing a Performance Alert which was in ERROR status would not send the Close to any Enterprise Consoles. This has been fixed.

#### Advanced Job Scheduler

**Reference: CHG06EA    Groups set to be held when overdue are no longer run**

Advanced Job Scheduler, under certain circumstances, would incorrectly run a Group that was overdue when the Monitors were started and the Group was set to be held if overdue. This has been fixed.

## Audit Journal Manager

**Reference: CHG062B** Path now includes /QDLS/ in path for \*DOC Alerts

Audit Journal Manager was not returning the /QDLS/ prefix in Alerts for DLO objects meaning that an attempt to add Omit criteria, using '11=Omit' within Work with Alert Log (WRKALTLOG), would not work. This has been fixed.

### Important

In order to correctly process DLO objects Audit Journal Manager now uses the full IFS equivalent path for DLO objects, meaning you **MUST** prefix the 'Path' with /QDLS/ within the following Audit Journal Entry Types:

- AD - Auditing changes
- AF - Authority failure
- CA - Authority changes
- CO - Create object
- DO - Delete object
- LD - Link, unlink or look up directory entry
- YC - DLO object accessed (change)
- YR - DLO object accessed (read)
- ZC - Object accessed (change)
- ZR - Object accessed (read)

### Upgrades

- Any existing Rules for AD/AF/CA/CO/DO/LD/ZC/ZR Audit Journal Entry Types will have the 'Path' automatically adjusted on upgrade to include the /QDLS/ prefix **IF** they have an 'Object Type' of \*DOC or \*FLR.
- All Rules for Audit Journal Entry Types YC/YR will have the 'Path' automatically adjusted to include the /QDLS/ prefix on upgrade.

You must **MANUALLY** adjust the 'Path' for Audit Journal Entry Types AD/AF/CA/CO/DO/LD/ZC/ZR that do not have an 'Object Type' of \*DOC or \*FLR.

## Document Management System

**Reference: CHG063B** RUNBDL \*LASTRUN now processes all matching bundles

Run Bundle (RUNBDL) was not running all possible Bundles when set to include Partial Bundles. This has been fixed.

**Reference: CHG063H** Correct spooled files now returned when Index Date is specified in GUI

The Document Management System GUI API was not returning archived spooled files matching an Index search for the correct Index Version selected in the GUI. This has been fixed.

### Important

This change will prevent use of the DMS GUI unless you also install the fix for the DMS GUI under CHG063I (See overleaf).

**Reference: CHG063I    Conducting an Indexed Files search in the DMS GUI now passes date parameter**

The DMS GUI was not passing the Index Date when a search was performed against the indexed archived spooled files. This resulted in incorrect matches being returned. This has been fixed.

**Reference: CHG063J    Printed spooled file now owned by user profile performing print**

The DMS GUI API would incorrectly process any print requests as the user running the Web Agent rather than the user performing the print meaning the resulting spooled file was owned by the incorrect user profile. This has been fixed.

**Reference: CHG0643    Archived Spooled File without Indexes no longer displayed as requiring indexes rebuilt**

An Archived Spooled File using a Report Type with Indexes defined but for which the Indexes had not been built was incorrectly showing as needing rebuilding (R) instead of showing as no indexes (\*). This has been fixed.

**Reference: CHG064C    Archiving a spooled file now correctly archives the content**

Archive Spooled File (ARCSPLF) was not correctly archiving the content in some circumstances. This has been fixed.

**Reference: CHG064D    Index search now highlights matched value when displaying an archived spooled file**

Display Archived Spooled File was not always highlighting a match to an Index search. This has been fixed.

**Reference: CHG064E    Linked Index search for Group with multiple Indexes now returns all matches**

Work with Spooled File Indexes (WRKIDXSPLF) was not returning all matches for a Linked Index Group in some circumstances. This has been fixed.

**Reference: CHG06BT    Original data format no longer lost during AFPDS conversion**

Retrieving an AFPDS archived spooled file from a \*STD (Standard) Archive would lose some of the original formatting due to an error with the calculation for page width. This has been fixed.

**Reference: CHG0691    Work with Indexed Spooled Files still allows you to change view if index date changed**

Work with Spooled File Indexes (WRKIDXSPLF) would not let you switch between Report Type and Linked Index Group if you changed a date relating to the Indexes. This has been fixed.

**Reference: CHG069W    Merge DMS Environment command now imports Archive data**

Merge DMS Environments (MRGDMSENV) was not importing Archive data. This has been fixed.

## Message Manager

**Reference: CHG065R** Long generic value starting with '\*' no longer causes monitor to fail

In certain situations the Message Monitor would fail if a Rule had a long generic value specified in the Select criteria. This has been fixed.

## Record & Playback

**Reference: CHG067O** Scripts can now be run if system uses long passwords

Record & Playback would not let you run a HRP script if your IBM system was set to use a long password (e.g. up to 128 characters). This has been fixed.

**Reference: CHG06AP** HRPIMPORT: Space no longer added on removal of period (.) after variable name

Import Record & Playback (HRPIMPORT) was incorrectly replacing the period (.) at the end of a variable name with a space instead of completely removing it. This has been fixed.

**Reference: CHG06AQ** HRPIMPORT: Line comments prefix now changed to ';'

Import Record & Playback (HRPIMPORT) was not changing comments to be prefixed with semi-colon (;) resulting in invalid scripts after import. This has been fixed.

## Snapshot/TSC



**Reference: CHG0533** Disk Used value now correct following disk hardware modification

Snapshot was showing an incorrect figure for disk space used % if the disk hardware had been modified (e.g. disks added or removed). This has been fixed.

## Spooled File Manager

**Reference: CHG063C** Delete Archived Spooled Files now purges \*STD archives

Delete Archived Spooled Files (DLTARCSPLF) was not purging from \*STD archives, only \*INDEXED archives. This has been fixed.

**Reference: CHG06F4** CPYTOCSV action now populates '&STMF' variable for EMAILSTMF

An Output Queue Rule with an Action to copy the spooled file to a CSV file then email it would fail as the &STMF Substitution Variable required by the EMAILSTMF Action was not being set by the copy to CSV Action. This has been fixed.



## Network Server Suite Fixes

The following fixes have been made to Network Server Suite between October and December 2013, covering v9.0 Unicode releases 2013.283 to 2013.309 and v8.1 release 2013.308.

### Network Server Suite (v9.0 Unicode)

#### **Reference: CHG06A6    New Alerts now processed if SQL Server connection fails and re-connects**

In certain situations the Enterprise Console would stop processing new Alerts if there was a problem with the connection to the SQL Server. This has been fixed by making the Enterprise Server Service retry the connection to the SQL Server after a short period of time.

### Network Server Suite v8.1

#### **Reference: CHG05YC    Event Log Monitor no longer sends very large Alerts to Enterprise Console**

The Event Log Monitor in remote Windows Agent was sending very large Alerts to the Enterprise Console which caused issues. This has been fixed.

#### **Reference: CHG06A5    New Alerts now processed if SQL Server connection fails and re-connects**

In certain situations the Enterprise Console would stop processing new Alerts if there was a problem with the connection to the SQL Server. This has been fixed by making the Enterprise Server Service retry the connection to the SQL Server after a short period of time.

\*\*\*\*\*REPORT ENDS\*\*\*\*\*