



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

Covering releases: July to October 2014

IBM i: 2014.279

Authority Swapper GUI: 2014.287

Advanced Job Scheduler GUI: 2014.239

NSS (DBCS): 2014.210

Publication Date: October 2014

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Publication Revision: October 2014

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Foreword

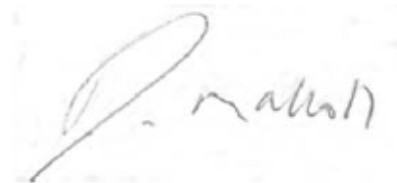
By Donnie MacColl, Technical Services Director

This update covers product enhancements and fixes between July and October 2014 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 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 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.

MQ Manager



Halcyon MQ Manager proactively monitors the performance and availability of the IBM WebSphere MQ application server. It raises alerts whenever a threshold is breached, detect “bottle necks” and identify any issues which could potentially prevent data from reaching its required destination.

Exit Point Manager



Halcyon Exit Point Manager is an intuitive rule-based security product for IBM i running on Power Systems that secures your system by managing key exit points in real-time. Each exit point has a variety of different operations that you can monitor and manage.

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

Enhancements and Fixes



IBM i Product Suite Enhancements

The following enhancements have been made to Halcyon IBM i Product Suites between July and October 2014, covering IBM i release: 2014.279, Authority Swapper GUI: 2014.287 and Advanced Job Scheduler GUI: 2014.239.

Common Library – Auto Upgrade System

Reference: CHG07FS A secondary failover system can now be specified on INSTALL

The Halcyon installer command, HALINST/INSTALL, now includes a new parameter for 'Backup system' (BACKUPSYS) which is shown below the existing parameter for 'Remote system' (RMTSYS).

If the 'Backup system' parameter is specified and the 'Remote system' either cannot be contacted or the installation library accessed, as specified within the 'Save file library' (LIB parameter), then the installer will attempt to use the 'Backup system' instead.

Common Library – Customized Environments

Reference: CHG07EO System21 – Customizations updated

The System21 Customizations have been updated.

Common Library – Job Log Monitor

Reference: CHG06XD Message data comparisons added to rule criteria

Job Log Rules now allow comparison data to be specified on page two of the selection criteria.

Common Library - Rules

Reference: CHG0576 Rules can now be renumbered

Work with Rules (WRKRULES) now includes the ability to renumber Rules. When you use option '2=Change' against a Rule the 'Rule number' parameter is now available for you to overtype with a new Rule number.

Advanced Job Scheduler

Reference: CHG06PP New Condition status of IMMIF (Immediate Fail) added

A new status of 'IMMF' (Immediate Fail) for Conditions has been introduced within 'Work with Schedule' (WRKSCH). This will apply to Jobs where the Conditions immediately fail - this was previously known shown as 'IMP' (Impossible).

An example is when JOB 'A' runs and completes normally. JOB 'B' is conditioned only to run if JOB 'A' fails and as JOB 'A' completed its Status is IMMF (Immediate Fail).

This new status is shown against the Condition within '12=Conditions' within 'Work with Schedule' (WRKSCH).

Reference: CHG07CA Captured job can now be selected on a *CMDLST *INT Job

Work with Groups (WRKGRP) now includes new function key 'F20=Captured jobs' within a *CMDLST *INT (Internal Job List) Job. This allows you to select a command from a previously captured job which was captured using 'Capture Mode' (STRCAPMODE / ENDCAPMODE).

Advanced Job Scheduler GUI

Reference: CHG0630 Colors used for Groups/Jobs can now be configured

The Advanced Job Scheduler GUI now includes a tool to allow you to configure the colors used for Groups/Jobs.

Audit Journal Manager

Reference: CHG0745 Journal sequence number now included in Alert

Audit Journal Manager Alerts now include the 'Journal sequence' number of the entry that caused the Alert. This number can be used in the 'Starting large sequence number' (FROMENTLRG) and/or 'Ending large sequence number' (TOENTLRG) parameters of the 'Display Journal' (DSPJRN) command.

Reference: CHG0747 Support added for IFS in Audit Journal Type OR

Audit Journal OR (Object restored) Rules now support use of an IFS Path as part of the criteria.

Reference: CHG076V PRTAUDJRNE - (CP) Output to CSV now includes changed values

Print Audit Journal Entries (PRTAUDJRNE) for CP (User profile changed, created or restored) entries to *OUTSTMF now include data in the 'Auxiliary Data' columns to indicate what had changed.

Authority Swapper



Reference: CHG0763 HelpDesk/Change Reference can now be entered on start of Swap Session

Authority Swapper now supports the mandatory entry of an additional reference when starting a *SWAP or *ADOPT Session. New system default, HEM/REQREFNUM controls whether the new reference is required to be entered.

***NONE** Not required.

Other Provide the prompt/title of the required reference (Helpdesk ref. for example).

Reference: CHG0764 A Session Report can automatically be emailed when Session is complete

Authority Swapper now includes the ability to automatically email a Session Report, including Screen Captures for a *SWAP or *ADOPT Session, as soon as the Session finishes.

Reference: CHG0765 HelpDesk/Change Reference can be included on Print Swap Session Report

Authority Swapper now supports mandatory entry of an additional reference, such as a Helpdesk reference, when starting a *SWAP or *ADOPT Session.

The 'Print ASW Sessions' (PRTSWPSSN) report now includes this reference if you run the report with the 'Output' (OUTPUT) parameter set to *SUMMARY2.

Reference: CHG077N Screen Captures can be included on Print Swap Sessions Report

Print ASW Sessions (PRTSWPSSN) now has the ability to include Screen Captures for *SWAP and *ADOPT Sessions. The 'Output' (OUTPUT) parameter now supports new value *FULL for this purpose.

Reference: CHG077P HEM/ASWADMIN User Authority now allows change to HEM/ASWUSER permission

Work with User Authorities (WRKUSRAUT) now includes a new HEM (Event Manager) authority for ASWADMIN (Authority Swapper User Admin). A user that is granted *ALL to this authority will be able to change the value for the HEM/ASWUSER authority if they are swapped to an *ALLOBJ/*SECADM user.

Reference: CHG078Z Graphical PDF version of *FULL ASW Session Report can now be produced

Print ASW Sessions (PRTSWPSSN) now has the ability to output a graphic version which includes screen captures for *SWAP sessions. This new variant of the report outputs a page per screen capture with the screen capture showing the correct colors.

The graphic report can be run by setting 'PDF Formatted File Required' (PDF) parameter on the 'Print ASW Sessions' (PRTSWPSSN) command to *GRAPHIC.

Reference: CHG07AD The ability to archive/restore sessions has been added

Authority Swapper now includes the ability to archive and restore Sessions. This is controlled via the new system defaults:

- **HEM/ASWDFTARCLIB** Defines the library where archived sessions will be stored. If this has not been set then sessions cannot be archived. The library must exist.
- **HEM/SWPLOGCLRACTION** Defines whether sessions should be archived when the 'Clear Swap Sessions Log' (CLRSWPLOG) command is run. Select from:
 - *DELETE - The default value. This deletes the sessions.
 - *ARCHIVE - This archives the sessions being removed.

'Clear Swap Sessions Log' is run automatically daily to remove sessions over the age specified in system default HEM/SWPLOGLIFE.

Archive Swap Session (ARCSWPSSN)

This command provides the ability to archive sessions. You can specify any combination of:

- Session type
- From date
- To date
- Job user
- Profile
- Session ID

Restore Swap Session (RSTSWPSSN)

This command provides the ability to restore a previously archived session. This command relates to a specific session by Session ID.

Work with Archived Swap Sessions (WRKARCSWPS)

This command, also available as option 11 on the Utilities menu (11/HEMASWUTL) lists archived sessions and offers the following options:

- **4=Delete** - This deletes the archived session.
** WARNING - THE SESSION IS PERMANENTLY DELETED. ENSURE YOU HAVE A BACKUP OF THE ARCHIVE LIBRARY BEFORE USING THIS OPTION.
- **5=Display** - This shows the session exactly the same as if you had used 5=Display in 'Work with ASW Sessions'.
- **26=Restore** - This restores the session. The session is NOT removed from being archived, the archive remains.

Automatic Archiving of Sessions

By changing system default HEM/SWPLOGCLRACTION to *ARCHIVE and system default HEM/ASWDFTARCLIB it is possible to automatically purge and archive sessions.

Reference: CHG07DJ Description can now be specified on Permits

Work with ASW Permits (WRKSWPPMT) now allows you to specify a description for each Permit. By default, the description is set to *USRPRF which means it is taken from the IBM User Profile. However, if a different description is specified, that is used within 'Work with ASW Permits' (WRKASWPPMT) and on the 'Print ASW Permits' (PRTSWPPMT) Report.

Reference: CHG07EC Ability to create one-off Permit for *FTP/*ODBC profiles when released

Authority Swapper now allows you to create a one-off Permit for *FTP/*ODBC Profiles when you release them for use. This is to allow extended and multiple use of the Profile without the need for a permanent Permit.

Authority Swapper GUI

Reference: CHG0776 Support added for 'Helpdesk Ref' parameter

Authority Swapper GUI now supports mandatory entry of an additional reference when starting a *SWAP or *ADOPT Session. New system default HEM/REQREFNUM controls whether the new reference is required to be entered:

- ***NONE** Not required.
- **Other** Provide the prompt/title of the required reference (Helpdesk ref. for example).

Reference: CHG07BO Helpdesk Ref is now shown in both Sessions list and details

The Authority Swapper GUI now lists the 'Helpdesk Ref' (if applicable) in the list of ASW Sessions and also within the details of a Session.

Reference: CHG07ED One-off Permit can be created when releasing an *FTP/*ODBC Profile

Authority Swapper now allows you to create a one-off Permit for *FTP/*ODBC Profiles when you release them for use. This is to allow extended and multiple use of the Profile without the need for a permanent Permit.

Reference: CHG07EE A description can now be specified on Permits

The Authority Swapper GUI now allows you to specify a description against Permits.

Reference: CHG07GF Dropdown lists added for Message System and Message Device

The Authority Swapper GUI now includes drop-down lists for 'Message System' and 'Message Device' on Permits.

Disk Space Manager

Reference: CHG07EB The calculation for deleted records disk space used has been changed

The calculation for the size of deleted records has been changed to:

$(Deleted_records / (Current_recs + Deleted_recs)) * Member_size$

Document Management System

Reference: CHG07AZ Indexed archives are now listed in descending date order

Work with Indexed Spooled Files (WRKIDXSPLF) now lists archived spooled files by descending date created order.

Exit Point Manager

**Reference: CHG078Q Multi-select option added to User Lists**

Work with User Lists (WRKXPMUSRL) now includes a multi-select option when F4=Prompt is used for the 'User' parameter.

Reference: CHG07CE Rules allow inclusion/exclusion by *FTP/*ODBC users in Authority Swapper

Exit Point Manager Rules now allow use of new special values within criteria to relate to *FTP and *ODBC Profiles within Authority Swapper.

- **%ASWFTP** - *FTP Profiles within Authority Swapper
- **%ASWODBC** - *ODBC Profiles within Authority Swapper

These special values can be used in the 'Value' column when you are checking field "USERPRF" - for example:

Rel	Field	Comp	Value
IF	USERPRF	NOTIN	%ASWODBC

Message Manager

Reference: CHG06YK &MSGDATE and &MSGTIME Substitution Variables added

Message Manager now has Substitution Variables available as follows:

- **&MSGDATE** - The date the message arrived on the queue
- **&MSGTIME** - The time the message arrived on the queue

Reference: CHG07FQ SNDTSTMSG can now send messages to remote systems

Send Test Message (SNDTSTMSG) now includes the ability to send the message to a Remote Location or a Remote Location Group.



MQ Manager

Reference: CHG0729 Function keys have been added to turn MQ Monitoring on and off

Work with Collector Options (WRKCOLOPT) now includes two new function keys to change the collection options, within 2=Change against an MQ Queue:

- **F7=All *NO**
- **F8=All *YES**

Reference: CHG074C Ability to monitor *RMT queues added

MQ Manager now includes the ability to monitor remote (*RMT) queues.

Reference: CHG07A0 Support added for MQ v8

MQ Manager now supports IBM MQ Version 8.

Performance Analyzer

Reference: CHG07C4 DB I/O Count has been added at *SYSTEM level

Performance Analyzer now has Statistic 'DB I/O Count' available at *SYSTEM level.

Performance Monitor

Reference: CHG06YC Ability to use Job list of up to 200 Jobs added for Performance *JOB Rules

Event Manager now includes the ability to specify up to 200 Job name select/omit criteria as part of a 'Job List' (WRKJOBLST).

Performance *JOB Rules have been enhanced to allow use of a single Job List by specifying, for the first Job name, a criteria type of 'L' (List) and then a JobList name. You are also able maintain Job Lists using new function key 'F18=Edit job list' from within a Performance *JOB Rule.

Reference: CHG070H Support added for Temporary Storage statistics in V7R2

Performance *JOB Rules now include the following additional Statistics for V7R2:

- **PEAKSTG** - The maximum amount of temporary storage used by a Job.
- **QTEMPSIZE** - The current size of temporary storage used by a Job.

Record & Playback

Reference: CHG0760 Substitution Variables added to return Playback Session Job No./User/Name

Record & Playback now includes new Substitution Variables:

- **&PBJOBNBR** - The Job Number for the current playback session.
- **&PBJOBUSER** - The Job User for the current playback session.
- **&PBJOBNAME** - The Job Name for current playback session.

These variables can then be used in scripts as part of a %SBSVAR function to fill in the correct job information.

Restricted Tasks Manager

Reference: CHG074Y Console state can now be monitored and forced to stand-by mode

The Restricted Tasks Manager Console now has the ability to time-out the command window and password request window and return to Console stand-by mode.

Command Window Time-Out

New system default HRT /CONSMGRCMDTIME controls whether to time-out an inactive command window. This system default allows you to specify the amount of time, in minutes, that the command window in the Console can remain open without a command being issued. The default/shipped value is *OFF.

When the time-out expires, a window is displayed on the Console which requires the user to press Enter within one minute. If user presses Enter the time-out is reset and the command window remains open. If Enter is not pressed the command window is closed and the Console returns to stand-by mode.

This new time-out feature requires the Action Monitor(s) to be running.

Password Check Time-Out

The window that prompts to check the user password now has an in-built time-out of 30 seconds. If the window is still open after 30 seconds it will exit, thus returning the Console to stand-by mode.

Spoiled File Manager

Reference: CHG07H0 Ability to mass retrieve archived spooled files has been added

New command 'Retrieve Archive' (RTVARCHIVE) has been made available to mass retrieve archived spooled files to an output queue or stream file. The command accepts parameters for the 'Archive Group' and 'From/To Dates' and then retrieves all archived spooled files matching the criteria.

You are able to specify for the retrieve to output:

- ***OUTQ** - Retrieve on to an output queue.
- ***PDF** - Retrieve directly to PDF documents in the IFS.
- ***HTML** - Retrieve directly to HTML documents in the IFS.
- ***TXT** - Retrieve directly to text (TXT) documents in the IFS.

For retrieval to *PDF/*HTML/*TXT you can specify a path which can include Substitution Variables relating to archived spooled files.



Network Server Suite Enhancements

The following enhancements have been made to Halcyon Network Server Product Suite between July and October 2014, encompassing NSS (DBCS) 2014.210

Central Configuration Manager

Reference: CHG06LL Template added to handle Windows Updates

New 'Windows Update' Templates are now available which include Rules for the following:

- Fatal Errors
- Pending Reboot
- Pending Updates

Please Note:

The new templates will only be available on new/clean install, not on upgrade.

Reference: CHG071M Service Monitor now allows omission of services from generic selection

Service Monitor now allows you to specify Services that should be excluded from the check. The new 'Excluded Services' field is shown at the bottom of the criteria and supports wildcards.

Reference: CHG071Y Rule description now shows when multiple criteria are defined

Previously the rules list would only show the first criteria on a rule. This could be misleading if the rule had multiple criteria. This has been changed. Now, when a rule has multiple criteria the description is shown followed by '(Multiple Criteria Defined)'.

Reference: CHG0743 Services Startup type now set to 'Automatic (Delayed Start)'

The various NSS Services, except Halcyon Network Manager, are set to 'Startup type' of 'Automatic (Delayed Start)'. This is applied on install or upgrade.

Windows Agent

Reference: CHG0734 Ability to monitor 'All disks' has been added

The ability to specify 'All drives (*)' has been added to Disk Rules within the CPU, Disk and Memory Monitor.

Reference: CHG078V TCP Monitors - A master rule per group can now be defined

TCP Monitors now allow you to define a master rule per rule group. The master rule is checked first and if it is NOT triggered then all the other rules in the group are checked.

To switch on a master rule, right-click on it in the list of rules and select 'Set As Master Rule' from the pop-up menu. To switch off a master rule, either switch on another rule as the master rule or right click on the existing master rule and select 'Clear Master Rule' from the menu.

Web Application Monitor**Reference: CHG079E A master rule per group can now be defined**

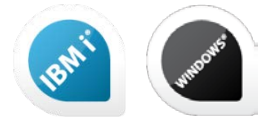
Web Application Monitor now allows you to define a master rule per rule group. The master rule is checked first and if it is NOT triggered then all the other rules in the group are checked.

To switch on a master rule, right-click on it in the list of rules and select 'Set As Master Rule' from the pop-up menu. To switch off a master rule, either switch on another rule as the master rule or right click on the existing master rule and select 'Clear Master Rule' from the menu.

Note that you can only have one Master Rule per Group.

Advanced Reporting Suite Enhancements

No enhancements have been made to Halcyon Advanced Reporting Suite between July and October 2014.





Product Suite Fixes

IBM i Product Fixes

The following fixes have been made to Halcyon IBM i Product Suites between July and October 2014, covering IBM i release: 2014.279 and Advanced Job Scheduler GUI: 2014.239.

Common Library - Alerts

Reference: CHG078C **Close Alert now closes pending Console network log entries**

On occasions, closing an alert with outstanding actions to send to an Enterprise Console would close the action but not the corresponding Network Log request. This resulted in the alert being raised in the Enterprise Console even though it was closed. This has been fixed.

Common Library – Output Rules

Reference: CHG0781 **Support added for HA-MX (MIMIX), MQ Manager and Exit Point rules**

The Output Rules (OUTRULES) function now supports HA-MX, WebSphere MQ and Exit Point Rules.

Common Library – TCP/IP Rules

Reference: CHG07AE **TCP/IP Monitor no longer fails after IPL**

Under certain circumstances the TCPIP Monitor could fail after IPL. This has been fixed.

Advanced Job Scheduler

Reference: CHG074N **Future forecast of Interval Group spanning multiple days now correct**

Advanced Job Scheduler was incorrectly forecasting a Group that spanned multiple days. This has been fixed.

Advanced Job Scheduler GUI

Reference: CHG079U **Improvements made to performance to help reduce time-outs**

Performance improvements have been made to the Advanced Job Scheduler GUI.

Document Management System

Reference: CHG07B7 **Bundle header page now includes Recipient info on same page in portrait mode**

Bundles would incorrectly place the details of the included Segments on a new page if the Bundle was output in portrait. This has been fixed.

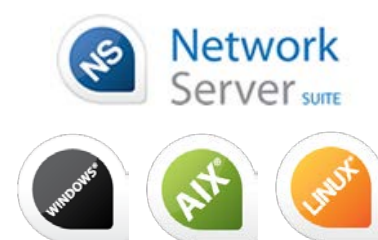
Reference: CHG07B9 Partial Bundles can now be processed

Run Bundles (RUNBDL) would not process partial Bundles. This has been fixed.

Message Manager**Reference: CHG07HN Message Watch now working correctly when 'Watch' spans midnight**

Message Manager 'Watch' functionality did not work correctly if the 'Watch' crossed midnight. This has been fixed.

Network Server Suite Fixes



The following fixes have been made to Halcyon Network Server Product Suite between July and October 2014, encompassing NSS (DBCS) 2014.210.

Central Configuration Manager

Reference: CHG072V Log File Criteria browse functionality now works correctly

In certain circumstances, the browse functionality within Log File criteria was not listing all the entries. This has been fixed.

Reference: CHG0737 Save settings progress now reports progress correctly

Improvements have been made when saving settings in the CCM.

Enterprise Console

Reference: CHG0770 Audio now displays error if selected voice is not installed

Enterprise Console, within Audio Options, was not showing an error if you selected a voice that was not installed. This then gave the impression that audio was not working. This has been fixed.

Advanced Reporting Suite Fixes

No fixes have been made to Halcyon Advanced Reporting Suite between July and October 2014.



*****REPORT ENDS*****