



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

Covering releases: January to March 2012

(IBM i: 2012.006 to IBM i: 2012.090 inclusive)

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Foreword


By Donnie MacColl, Technical Services Director

This update covers product enhancements and fixes between January and March 2012 for all Halcyon IBM i Software Suites.

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
- 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

Halcyon 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®.

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 January and March 2012, covering releases IBM i: 2012.006 to IBM i: 2012.090.

Common Library – Import Environment

Reference: CHG04DO **Parameter added so object locks are ignored on target Environment**

The Import Environment (IMPENV) function includes a new parameter, CHKLOCKS. This defines whether files in the target environment are checked for locks before the IMPENV is performed;

***YES** Default setting. The target environment Libraries and Files are checked for locks. If locks are found the IMPENV is not performed.

***NO** No lock checking is performed on the target Environment and the IMPENV is performed regardless. If issues with copying the data occur, message HAL09442 (IMPENV command completed with warnings) is issued.

Common Library – Install

Reference: CHG049A **Language parameter has been added to the installer**

The Halcyon Installer (HALINST/INSTALL) now includes a 'Language option' parameter.

This has been introduced for future enhancement and is not used at present. Therefore you are unable to change the value from the default setting: *SAME (same language as is currently used for the chosen environment).

Reference: CHG049M **Enhancements made to installer in order to support DBCS languages**

The installer function now includes changes to support future enhancements to allow the installation of DBCS languages.

Common Library – Output Queue Rules

Reference: CHG04II **Blanks allowed for Output Queue Rule title criteria**

Output Queue Rules now support the use of quoted strings as part of the three 'Title' parameters on the second page of the criteria. This allows for the testing of specific blank areas and spacing.

Common Library – Performance Rules

Reference: CHG03L6 **JOB COUNT field increased to allow a value up to 9999**

A Performance *JOB JOB COUNT Rule now accepts up to 9999 for the Value parameter.

Common Library – System Defaults

Reference: CHG04AY System Default HEM/SPLADLIDXRETAIN defaults to 31 days

System default HEM/SPLADLIDXRETAIN (Additional days to retain indexes) now ships with /defaults to a value of 31 days.

Advanced Job Scheduler

Reference: CHG04CJ System Default added to control cursor position on entry to Work with Groups

New System Default HJS/WRKGRPCURSPOS has been added to control the cursor position on the initial entry to the Work with Groups display.

***STD** Default setting. The cursor is positioned to the first Group in the list.

***POSITION** The cursor is positioned to the 'Position to' field.

Authority Swapper

Reference: CHG043P QTEMP objects can be automatically shared upon Profile Swap

Authority Swapper now includes the ability to change the owner of objects in QTEMP to the Swap Profile whenever a Swap Session is started and to the Job User when the Swap Session ends. This prevents issues with the Swap Profile not being authorized to objects within QTEMP. This functionality is controlled by a new System Default HEM/ASWCHGQTEMPOWNER;

***NO** Objects in QTEMP are not changed.

***YES** Objects in QTEMP are changed to be owned by the Swap Profile when a Swap Session is started and changed to be owned by the Job User when a Swap Session ends.

Please Note

If an object is locked, it is not possible to change the owner or grant authorities. As such, any objects in QTEMP that are locked, do not have the owner changed.

Disk Space Manager

Reference: CHG04HW Multiple Disk Builds can now be migrated simultaneously

Multiple Disk Builds can be migrated at the same time.

Message Manager

Reference: CHG04CX System Default added to control the automatic holding of Message Queue on error

New system default HMM/MSGQERRACTION has been made added to define what action to take when the Message Monitor finds a Message Queue that is defined to be checked, does not actually exist;

***HOLD** As with previous functionality, the Message Queue Group is set to Held and message HMM0001 is added to the Halcyon Message Log.

***RETRY** Message HMM0001 is added to the Halcyon Message Log. The message queue is checked again next cycle.

Please Note

A value of *RETRY will result in message HMM0001 being added to the Halcyon Message Log every cycle if the message queue is locked or does not exist.

Spooled File Manager

Reference: CHG043K Log Run Bundle and Run Segment errors are now recorded in the Halcyon Message Log

When Run Bundle (RUNBDL) or Run Segment (RUNSEG) errors, they are now logged within the Halcyon Message Log. This enables you to use Admin Alert Criteria (option 11 from the Halcyon Configuration Menu) to alert to the error.

Reference: CHG049F Archived spooled files can be copied from one archive group to another
Halcyon Spooled File Manager now allows you to Copy an archived spooled file to a new archive group. Within Work with Archived Spooled Files, new option '3=Copy' has been made available for this purpose.

Reference: CHG049G Support added for AFPDS spooled files

Halcyon Document Management System now supports the basic archiving and display of AFPDS spooled files. AFPDS spooled files can only be archived to *STD type Archives, displayed (in a converted format), compressed and de-compressed.

Reference: CHG04A3 'User Data' is enforced to a value when an archived spooled file is retrieved

Spooled File Manager now allows you to enforce specific User Data to be set against spooled files retrieved from Archives. A new system default; HEM/SPLRTVUSRDTA, has been made available for this purpose.

***NONE** Do not change the User Data field on a spooled file when retrieved from an Archive.
value Specify the value to set the User Data to when a spooled file is retrieved from an Archive.

Reference: CHG04A9 A 'Spooled file owner' can now be specified for Hard Copies

The Document Management System now allows you to specify the Owner for the Hard Copy spooled file generated within a Bundle.

Reference: CHG04AL HARDCOPY spooled file is now produced per Bundle

Document Management System used to produce a single HARDCOPY spooled file containing all the copies for Recipients of Hard Copies across all run Bundles/Segments. This has been changed so that now a HARDCOPY spooled file is produced per Bundle.

Reference: CHG04BE Report Types can be copied

Work with Report Types now includes the ability to copy a Report Type via the use of new option 3=Copy.

Reference: CHG04BJ Form Types are now as per IBM values

Document Management System now supports Form Type values as per IBM (for example '9 ½ x 11').

Reference: CHG04IS 'User data' is no longer case sensitive in Work with Archived Spooled Files

When using F17=Subset within Halcyon Work with Archived Spooled Files, 'User Data' is no longer treated as case sensitive.

Reference: CHG04FK Date and time created and amended now shown on Archived Spooled File Notes

Line Notes and Sticky Notes within an Archived Spooled File now register the date/time at which the Note was created and last modified.

Reference: CHG04HU Support added for AFPDS large print spooled files within PDF conversions

Document Management System now supports converting AFPDS spooled files with large print to PDF. The Copy to PDF (CPYTOPDF), Send Email Message (SNDEMLMSG) and Send Text Message (SNDTXTMSG) commands now include the following parameters to define how to handle the AFPDS conversion to PDF;

AFDS page definition:

Size Name The name of a pre-defined format for the page size. Examples are LETTER, CONT132 and A4.

Orientation *PORTRAIT or *LANDSCAPE

Reference: CHG04IT Large print AFPDS Spooled Files can now be archived to *INDEXED Archive

Halcyon's Document Management System now supports the archiving of an AFPDS spooled file that includes large print to an *INDEXED Archive. This means you are able to define a Report Type and Indexes to enable index searching.

Reference: CHG04J9 Large print AFPDS spooled files can now be emailed

Option 15=Email from within the Halcyon Work with Spooled Files display, now includes the following parameters to support emailing of large print AFPDS spooled files;

Page size A4, A3, CONT132 etc. The default value is *DEFAULT

Page orientation *PORTRAIT or *LANDSCAPE



Network Server Suite Enhancements

No enhancements have been made to Halcyon Network Server Suite between January and March 2012.



Product Suite Fixes

The following fixes have been made to Halcyon IBM i Product Suites between January 2012 and March 2012, covering releases IBM i: 2012.006 to IBM i: 2012.090.

IBM i Product Fixes

Common Library – Job Queue Actions

Reference: CHG04BD MOVEJOBS no longer holds jobs when active

In certain situations, the MOVEJOBS Command/Action was not checking for error CPF1378 when holding a job to then move it to the other Job Queue. As a result it would hold the job, receive error CPF1378, and then error the Alert, leaving the Job held. This has been fixed.

Common Library – Message Queue Rules

Reference: CHG049K Monitoring of QHST no longer produces locks against QHST files

In certain scenarios Message Monitor was holding a large number of locks against QHST files. This has been fixed.

Common Library – Output Queue Rules

Reference: CHG04BR Non -CCSID 37 systems no longer convert characters to 37 equivalent in PDF

Spooled Files under CCSID 285 (UK) were being converted to PDF under CCSID 37 resulting in £ (Pound) becoming \$ (Dollar). This has been fixed.

Please Note

Spooled Files only store the CCSID information if the Job is set to CHRIDCTL(*JOBCCSID). As such the conversion to PDF only includes the correct characters for the CCSID if this parameter is set on the Job. If this parameter is set to *DEVD, then the CCSID is defaulted to 37 (USA) and then the conversion performed.

Common Library – Performance Monitor

Reference: CHG0498 Performance Monitor no longer fails when IBM API returns invalid values

Under some circumstances the IBM API returned an invalid value to the Performance Monitor for the number of transactions which resulted in the Monitor failing. This has been fixed.

Reference: CHG04AZ Correct handling of corrupt API data

The IBM API used by the Performance Monitor would on occasions return corrupt data. This is now handled correctly.

Advanced Job Scheduler

Reference: CHG04BA &SCHTIME substitution variable can now be converted to *CHAR

*CHAR Substitution Variables with a source of a time (*TIMEFMT) no longer fail when used.

Reference: CHG04HT Group set to Interval over days is now scheduled correctly for leap years

A Group which was set to an Interval for a period of Days was not scheduled correctly if it was a leap year as the additional day in February was not taken into account. This has now been fixed.

Reference: CHG04IQ Initializer, Custom Condition & Custom Event checker use correct User

When running the Initializer program, Custom condition checker program and Custom event checker programs, Advanced Job Scheduler Jobs now use the User specified on the Job rather than *the default user*.

Important

This change means that any Jobs which have an Initializer program, Custom condition checker program and/or Custom event checker program specified will be affected as the program will be called as the User specified on the Job which may not have the required authority.

Disk Space Manager

Reference: CHG04GF Disk Build date/time now set correctly after using HDMIMPORT

HALIMPORT (HDMIMPORT) was setting the Build Data/Time on imported Builds to the date/time when the import was run rather than the actual date/time of the build. This has been fixed.

Message Communicator

Reference: CHG04A7 Monitors no longer fail if a catastrophic failure occurs with a GSM that is directly attached

The Message Communicator Monitor(s) no longer fail should, while being used, a catastrophic failure such as power loss, occur with a GSM that is directly attached to the IBM i.

Reference: CHG04B Scripts now send Admin Messages before Error Messages

The Halcyon supplied Message Communicator scripts had the 'Error Message' statements before the 'Admin Message' statement. As 'Error Messages' terminate the script, the 'Admin Message' statement was never actioned. This has been fixed.

Important

This change provides new copies of all the Halcyon supplied Scripts;

```
ACCURA56K  INTMODSMS  O2MOBILE  TC35RTV  TC35SND
VODAPAGE   VODASMS    VODATC35
```

Existing versions of these scripts within the HMCPROD/QSCRIPTS file will be renamed to include an underscore suffix (ie. TC35SND_) and the new version installed. If you have modified any scripts you must manually re-apply your changes to the newly installed version(s).

Reference: CHG04CH Non -displayable characters can now be sent by SMS

Attempts to send an SMS which included non-displayable characters would fail with an error that the string was too long. This has been fixed.

Reference: CHG04CT Option 8=Where used in Broadcast Groups now returns the correct result
Option 8=Where Used from within Work with Broadcast Groups now displays Escalation Lists which included the Broadcast Group.

Message Manager**Reference: CHG041P Auxiliary Action Monitors no longer produce QPDSPLLOG spooled files**

When system default; HMM/QHSTOPTION was set to *ASYNCR, meaning the Action Monitors actioned a DSPLOG rather than the Message Monitor, spooled file QPDSPLLOG would be left behind if the DSPLOG command was run by an Auxiliary Action Monitor. This has been fixed.

Restricted Tasks Manager**Reference: CHG049P Error handling improved for restricted saves**

In certain situations Restricted Tasks Manager was not recovering from restricted state if an error occurred and the Product Library on the library list had been changed by the Task being run at the time. This has been fixed.

Spooled File Manager**Reference: CHG040G System default added to define search behaviour when 'Containing text' specified with Subset of Archived Spooled Files**

New System Default HEM/SPLARCSCANOPT has been added to define the search behaviour within Work with Archived Spooled Files when "Containing text" is specified within F17=Subset;

***SINGLE** Default. When containing text is specified within F17=Subset, the search of archived spooled files continues until the next match is found, then control is returned to the user. The user can then press <Page Down> to search for the next match.

***PAGE** When containing text is specified within F17=Subset, the search of archived spooled files continues until a page full of matches is found, then control is returned to the user. <Page Down> searches for the next page full of matching archived spooled files.

*SINGLE offers significant performance improvement over large archives as control is returned to the user after each matching archived spooled file. *PAGE can take a very long time to find enough matching archived spooled files to fill a page of results.

Reference: CHG04B9 Run Bundle or Segment now accepts *KEY Comparisons longer than 6 characters

Attempting to run a Bundle or Segment with a *KEY Comparison in excess of 6 characters no longer causes a failure.

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