



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

Covering releases: October to December 2011

(IBM i: 2011.287 to IBM i: 2011.348 inclusive)

(Network Server Suite 2011.305 to 2011.342 inclusive)

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The Experts in Multi-Platform Systems Management

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Foreword

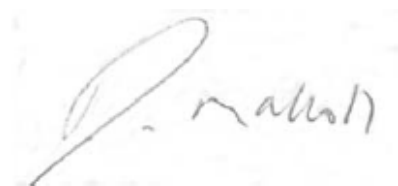
By Donnie MacColl, Technical Services Director

This update covers product enhancements and fixes between October and October 2011 for all Halcyon IBM i Software Suites and Network Server Suite.

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 October and December 2011, covering releases IBM i: 2011.287 to IBM i: 2011.348.

Common Library – FTP Monitoring

Reference: CHG042P Message now added to Message Log if FTP monitoring is not active

The Message Monitor now adds the following message to the Halcyon Message Log if FTP Monitoring within the environment is not active;

```
HMM0532 - FTP Activity Monitoring is not active.
```

This means you can use Halcyon Admin Alert Criteria (WRKADMALT or option 11 on the Halcyon Configuration Menu) to monitor for this and take the appropriate action if the message is received.

Common Library – Import Environment (IMPENV)

Reference: CHG0420 IMPENV no longer imports Authorization Codes

Import Environment (IMPENV) no longer imports Product Authorization codes as part of a *NONSYS import as it could have removed authorization from the target environment.

Common Library – Output Queue Rules

Reference: CHG03ZD Output Queue Rules allow up to 3 Report Titles

Output Queue Rules now allow up to 3 Report Titles to be checked. A second page has been added on the Output Queue Rule selection criteria allowing you to specify the details.

Reference: CHG040Z Output Queue Rules allow page numbers to be specified for Titles

Output Queue Rules now allow you to specify a Page Number for Title checks.

Reference: CHG042T Using F11=Expand against empty Rule Group now displays advisory message

When expanding an Output Queue Group that does not contain any rules, a message is displayed to advise that F11 cannot be used as there are no Rules to show.

Common Library – Work with Monitors

Reference: CHG03S4 Message displayed when subsystem is inactive and F15=Work with Subsystem jobs is used

Work with Monitors (WRKMON) now displays the following message when the subsystem is not active and F15=Work with Subsystem Jobs is used:

HAL1106 - Subsystem ZHALPROD in library HALPROD is not active.

Advanced Job Scheduler

Reference: CHG03X8 F4=Prompt now available for *RTGDTA RUNCMLCMD

Advanced Job Scheduler now allows the use of F4=Prompt for a *RTGDTA Job in order to prompt commands.

Reference: CHG044D Added ability to define CCSID at Group, Job and Environment level

When running Jobs for specific applications, CCSID overrides may be required. The CCSID was previously derived from the User Profile used. Where this was set to *SYSVAL and the IBM System Value was not necessarily correct, commands could fail with space offset errors.

Advanced Job Scheduler now includes the ability to define the CCSID at Group, Job and Environment level:

***DFT** Gets the value from the Group if defined in a Job. Gets the value from the Environment if defined in a Group. *DFT is not allowed at Environment level.

***SYSVAL** Uses the value from the IBM System Value QCCSID.

***USRPRF** Uses the CCSID set in the User Profile, which can also be *SYSVAL.

***HEX** This is the same as 65535 and means that no character conversion is performed.

Value Specify the CCSID to be used

Reference: CHG045D ADDGRP command has been enhanced

The Advanced Job Scheduler Add Group (ADDGRP) command now includes the following additional parameters:

Interval INTVL: The Interval for the Group.

End Time ENDTIME: The end time for the Group.

Record & Playback

Reference: CHG045B Example scripts provided for WebSphere MQ. CL Programs and Message File added

Record and Playback is now shipped with some WebSphere example scripts:

CHKMQM WebSphere MQ Manager Checking

CHKMQMCHL WebSphere MQ Channel Checking

CHKMQMCHLG WebSphere MQ Channel Checking
CHKMQMQ WebSphere MQ Queue Checking

To compliment the scripts the following CL Programs and Message File have been added:

SNDCHLSTS *PGM
SNDMGRSTS *PGM
SNDMQDEPTH *PGM
HRPALTMSGF *MSGF

Spooled File Manager

Reference: CHG03WT *REMAINDER Segments can now be produced

Spooled File Manager Bundles/Segments now includes the ability to produce a Segment that includes any pages that have not already been included in previous Segments.

To define a Segment that only includes pages that have not previously been in a Segment define a new Segment with the 'From page' parameter set to *REMAINDER.

Note:

You can only produce a *REMAINDER Segment if you do a complete run of the Bundle in which it is contained via Run Bundle (RUNBDL) or Run All Segments (RUNSEG *ALL).

Reference: CHG03XH File HEMIDX is now moved on an upgrade of Spooled File Manager

*****MAJOR CHANGE TO FUNCTIONALITY*****

An upgrade to Halcyon Spooled File Manager, which is part of Halcyon Event Manager (HEM), now moves file HEMIDX and its logical files to the newly upgraded library. An empty copy is kept in the R-HEM* library.

This is because this file can become very large as it contains the archived spooled file index values. This could cause issues in both disk space and time to upgrade if it was copied.

VERY IMPORTANT

If you wish to 'back out' an upgrade of Halcyon Event Manager (HEM), you MUST ensure you have moved the data for file HEMIDX back BEFORE you delete the upgraded library or you will lose the archived spooled file index values and have to rebuild all your indexes. You should also be aware that the upgraded environment may have archived spooled files of which the version within the R_* libraries is unaware. This may cause problems with re-using archive members that already exist and then not being able to view the newly archived spooled files.

Reference: CHG03XJ Run Segments allows production of Segments not already created

The Run Segments (RUNSEG) command now remembers which Segments have already been produced. The new value *ALLNEW has been made available on the RUNSEG command which will only produce Segments that have not already been produced.

Reference: CHG03XK Segment Description extended to 50 characters

The 'Description' parameter for a Spooled File Manager Segment has been extended to allow up to 50 characters.

Reference: CHG03XU Segment special instructions have been extended to 256 characters

The 'Special Instructions' parameter for a Spooled File Manager Segment has been extended to 256 characters.

Reference: CHG03XV 'Application' parameter added to Report Type

The Work with Report Types functionality now includes an "Application" field. This field allows free format mixed case text of up to 25 characters.

Work with Report Types also includes an F17=Subset function which allows you to subset based on Application. An F4=Prompt which lists Applications already specified on Report Types has also been added.

Print Report Types now allows you to specify an Application and only Report Types with that Application specified are included. To specify an Application you must first set the Report Type to *APP.

Reference: CHG03XY Segment Comparisons now allow the use of Tables

Spooled File Manager Bundles now allow Tables to be used within Segment Comparison tests. To define a test using a table you can use:

- ***TBL** The value is listed within the specified Table.
- ***NTBL** Where the value is not listed within the specified Table.

Examples:

*TBL COMMSRSC
*NTBL COMMSRSC

The values within the Tables can be maintained using option 7=Work with Tables on the Spooled File Manager Configuration Menu (HEMHSMCFG).

Reference: CHG03Y4 Generic Bundle Name can now be specified in Run Segments (RUNSEG)

Spooled File Manager Run Segments (RUNSEG) now allows a generic Bundle name to be entered.

Reference: CHG03Y5 New system default used to output message when no Segment data exists

New system default HEM/SPLBDLNOSEGTX has been made available. This defines the text to output when you produce a Bundle without Bundle and Segment Headers and no Segment data is produced.

The text within HEM/SPLBDLNOSEGTX is only used if no other output is to be produced by the Bundle.

Reference: CHG03YJ Segment comparisons have been extended to allow 8 tests

Spooled File Manager Segments, within Bundles, now allow up to 8 comparison tests.

Reference: CHG03YK Bundles/Segments now use Recipient Lists for distribution

Bundles and Segments now use Recipient Lists to determine how the resulting spooled files are distributed.

Reference: CHG03YL Maintenance of Recipients has been enhanced

Maintain Recipients functionality now includes the ability to maintain a Recipient on multiple Recipient Lists directly. This includes the ability to;

- Add a new Recipient and add to multiple Recipient Lists.
- Edit a Recipient List via look up from the Recipient.
- Remove a Recipient from a Recipient List via a look up from the Recipient.

Reference: CHG03YM Hard Copy Spooled File can be generated from Recipient Lists

Spooled File Manager Bundles and Segments now have the ability to produce a single combined spooled file containing all the copies required of the Segments and Bundles for distribution to Recipients via hard copy (i.e. printed out).

Within Spooled File Manager Recipient Lists a new parameter 'Hard copies' has been made available. If set to *YES you are allowed to specify how many copies the Recipient requires. You are also required to provide a RecipientID.

When the Bundle is run a spooled file is produced containing the required number of copies of the Segment/Bundle as defined for Hard Copies. In the header page of the Bundle/Segment, the Recipient details for that copy is shown. This spooled file has the 'User data' field set to HARDCOPY.

You can then release this spooled file to the printer and it prints the required number of copies together with the details of the Recipient in the headers.

Reference: CHG03YN The ability to archive to *HSM Library has been removed

The ARCHIVE Action and ARCSPLF/ARCOUQ commands no longer support the use of special value *HSM for Archive File Library.

This is because it is recommended you do not store your archived spooled files in Archives within the Halcyon Product Libraries as it extends the length of upgrades.

Reference: CHG03YY HAL/BANNERFOREGRD now ships as/defaults to '@'.

System default HAL/BANNERFOREGRD now ships as/defaults to a value of '@'.

Reference: CHG03Z5 'Position To' parameter added to list of users for Default Subset Template

Work with Subset Templates now includes a 'Position To' parameter within the list of users, if F16=Set User Default is used for the 'User Name' parameter.

Reference: CHG03Z8 Default description can now be entered for an Archive Group

Spooled File Manager Work with Archive Files has a new option; 13=Description. This allows you to define a default description for the Archive files within the group.

The actual Archive files have the description applied when the description is changed or a new Archive file is created for the Archive File Group.

Reference: CHG03ZE Report Types can be subsetted by name in Work with Report Types

Spooled File Manager Work with Report Types now includes the ability to subset by Report Type name when using F17=Subset.

Reference: CHG03ZF Report Type indexes can be modified if Segments exist

Work with Report Types now allow you to update the Report Type Indexes even if dependant Segments exist.

Reference: CHG03ZG Index *MASK now allows Non-Case Specific Alpha and Non-Blank test

Spooled File Manager Report Type Indexes for *MASK now support the use of the following additional characters within the Mask pattern:

- # Not blank.
- & Any letter, regardless of case.

This means the following characters can now be used in a *MASK pattern definition;

- X UPPER case letter.
- x lower case letter.
- & Any letter, regardless of case.
- N Numeric
- n Numeric
- # Not blank.
- ? Any character including blank.

Reference: CHG03ZH Linked Index Groups available for Indexed Archives

Spooled File Manager now supports "Linked Index Groups" for Indexed Archives.

A Linked Index Group defines how to join Indexes across multiple Report Types so you can provide a single Index value which returns matches against archived spooled files in multiple Report Types.

Work with Linked Index Groups

This new menu option within Spooled File Manager Configuration allows you to define a Linked Index Group. You start by giving the Group a name. You then select a 'Primary' Report Type which lists Indexes within that Report Type that exist in all Index Versions as the same name, data type and length. You can then select up to 4 of these Indexes.

Having selected the Primary Report Type and Indexes you can then 'Link' these Indexes to other Indexes on other Report Types if they match the data type and length.

You MUST define a link for each of the Primary Indexes defined within the same Report Type. For example, if you select 2 Indexes from the Primary Report Type you must select 2 matching Indexes from any other Report Type you wish to link to.

Work with Spooled File Indexes

Option 5 from the Spooled File Manager menu; Work with Spooled File Indexes now supports use of searching using Linked Index Groups as well as Report Types.

- **F16=User Options.** This new function key allows you to define whether you wish to use Report Types or Linked Index Groups when you first access Work with Spooled File Indexes.
- **F17=Change Index.** This now includes new function key F11 to allow you to switch between Report Types and Linked Index Groups.

When you provide Index Values for a Linked Index Group, the values are provided to each Report Type defined within the Group in turn and the matching archived spooled files listed. Each Report Type is shown individually with a dividing line indicating the matches for the Report Type.

For a Linked Index Group you are also able to specify a date range which restricts the results to archived spooled files with a spooled file date that falls within the specified date range.

For example;

Report Type: ORDERCONF

Index: ACCNO

Type/Len: *UCASE / 10

Report Type: SHIPDOC

Index: CUSTNBR

Type/Len: *UCASE / 10

Report Type: CUSTINV

Index: CUSTNO

Type/Len: *UCASE / 10

Linked Index Group: CUSTNO

+ - ORDERCONF / ACCNO

+ - SHIPDOC / CUSTNBR

+ - CUSTINV / CUSTNO

Within Work with Spooled File Indexes you could select Linked Index Group "CUSTNO", provide a single *UCASE 10 value and it would return matches to archived spooled files against Report Types ORDERCONF, SHIPDOC and CUSTINV.

Reference: CHG03ZJ Multiple Print Overlays supported and User Level Authorities can be applied

Spooled File Manager Work with Report Types now supports multiple 'Print Overlays' for use within the Web GUI. It also supports user level authority to use the Print Overlays via new authority: HEM/PRTOVL

Within a Report Type use new function F16=Print Overlays to work with the Overlays. You can create new Print Overlay names and assign user permissions for *ITEM level Users via option 10=Authority.

Reference: CHG03ZK *UCASE index matches a mixed case value in archived spooled file

Spooled File Manager Report Type *UCASE Indexes now match a value even if it is mixed case on the spooled file.

Reference: CHG03ZR Additional confirmation screen added when Deleting/Building Indexes in Work with Report Types

An additional warning screen has been added when you select 20=Build Indexes or 21=Delete Indexes from within Work with Report Types.

Reference: CHG03ZV Index values can be set as an offset from a *MASK pattern match

Spooled File Manager Report Type Indexes now support extracting values for Indexes as an offset from a *MASK pattern match.

This is achieved by defining a *MASK Index in the normal way to define the pattern to search for within the 'Control line start', 'Control line end', 'Control column start' and 'Control column end' restrictions. You then set values for the 'Index line relative' and 'Index column relative' parameters which define how to position from the END of the pattern match to extract the Index value.

Reference: CHG03ZW 'Effective start date' and 'Position To' parameters added to Report Type Indexes

Spooled File Manager Report Type Indexes now support use of 'Effective Start Date' and 'Position To' parameters. The 'Effective Start Date' is the date at which the indexes become effective and the 'Position To' parameter can be used to find which Version of the Indexes is effective on the date entered.

You can move through the various Versions of the Indexes using F7=Previous or F8=Next.

You can also use F16=New Version to add a new Version of the Indexes which, when used, copies the version of Indexes that you currently have displayed to a new version for you to maintain. As part of this process, you are prompted for the Effective Start Date of the new Indexes.

You can use F23=Delete to delete the Version of Indexes you currently have displayed.

Reference: CHG03ZX Spooled File Index data can now be previewed

Display Archived Spooled File now includes function F13=Page Indexes to preview the indexed data for a page within the spooled file. This allows you to quickly view the kind of values required for use in the Indexes when searching.

Reference: CHG0438 ARCHIVE Action defaults to *RPTTYP for Archive File Group

The ARCHIVE Action now defaults a value of *RPTTYP for the 'Archive File Group' parameter. This means that if you are using Report Types, the details from the Report Type define where to archive the spooled file. If you are not using Report Types, the system default values are used (as before).

Reference: CHG0463 Report Type added to the Message Log message when spooled file is archived

Message HEM7006 which is added to the Halcyon Message Log when a spooled file is archived, now includes the Report Type selected.

Reference: CHG0468 Spooled file name override now included within message HEM7006

Message HEM7006, which is added to the Halcyon Message Log when a spooled file is archived, now includes the Override Spooled File Name.

Reference: CHG0471 Indexes can now be purged following expiration of retention period

Archived spooled file indexes can now be purged after the retention period expires:

New System Defaults

HEM/DFTIDXRETAIN Defines the default value for the number of days to retain the archived spooled file indexes.

HEM/SPLADLIDXRETAIN Defines the number of days to retain the archived spooled file indexes based on the date the indexes were last used in either Display Archived Spooled File or as part of producing a Bundle.

Work with Report Types

- A new parameter 'Days to retain indexes' has been added. This defines how many days to retain archived spooled file indexes that match the Report Type:

***NOMAX** Never automatically purge archived spooled file indexes

***DFT** Use the value from new system default HEM/DFTIDXRETAIN

value A numeric value specifying the number of days to retain the archived spooled file indexes before they are automatically purged

Purge Archived Spooled File Indexes Command (PRGINDEX)

- New command PRGINDEX has been made available that purges archived spooled file indexes beyond the retention limits on the relevant Report Type.
- The Spooled File Manager Utilities Menu has been modified to include the PRGINDEX command as option 16 (i.e. 16/HEMHSUTL).

Purge Logic

The purge indexes process applies the following logic when deciding if the archived spooled file indexes are to be deleted:

- If the 'Days to retain indexes' parameter is *NOMAX then do NOT remove the indexes.
else;
- Determine the number of days to retain the indexes based on the value in 'Days to retain indexes' parameter on the Report Type.
- If today's date is LESS than the ARCHIVE DATE of the archived spooled file + number of days to retain then do NOT remove the indexes.
else;
- If today's date is LESS than the "Date indexes last used" + number of additional days to retain (System default: HEM/SPLADLIDXRETAIN) then do NOT remove the indexes.
- If today's date is greater than the dates calculated for both scenarios above, delete the archived spooled file indexes.

In summary, the archived spooled file indexes are purged by the new PRGINDEX command if today's date is beyond both:

- Archived date + 'Days to retain indexes'
- 'Indexes last used date' + days specified in System default: HEM/SPLADLIDXRETAIN

After purging, it is possible to manually rebuild the indexes using option 20=Build Indexes within Work with Archived Spooled Files. However, the next PRGINDEX run removes them again if a search using the indexes is not performed within Display Archived Spooled File or the archived spooled file is not used as part of running a Bundle.

Reference: CHG0472 Archived Spooled File retention can be defined by Archive File Group

It is now possible to override the default retention levels for archived spooled files within Work with Report Types via use of F15=Retention overrides.

Use of this function displays a list that you can use to populate the name and library of various Archive Groups and the overriding values for Retention Days and Retention Generations. You can also specify whether the Archive Group is to be excluded from purging. This is achieved via the use of a new 'Hold' flag.

When the Delete Archived Spooled Files (DLTARCSPLF) command is run it checks the overrides on the Report Type and, if found, uses those values instead of the values entered directly on the Report Type. If the 'Hold' flag is set to 'Y' then the Archive Group is not purged of archived spooled files for that Report Type.

WARNING

The Retention Overrides take immediate effect over all archived spooled files that match the Report Type. As such, changing the values in overrides changes the retention against all existing archived spooled files for that Report Type regardless of the values previously set against the spooled file when it was archived.

Reference: CHG0474 Requirement to press Enter to get Index Effective Date has been removed

Work with Spooled File Indexes and Display Archived Spooled File no longer requires you to press Enter to retrieve the relevant Index Version date within F17=Change Index.

Reference: CHG040K Sort functionality added to Work with Bundles

Work with Bundles now includes F15=Sort. This function alternately sorts the list of Bundles by Bundle Name and Bundle Description.

Reference: CHG0400 Recipient Stream File Path can use new Substitution Variables

New Substitution Variables have been made available for use in Spooled File Manager Recipient Lists for Stream File Path:

&BUNDLE	Returns the name of the Bundle
&SEGMENT	Returns the Sequence Number of the Segment being processed
&BDLSTMF	Returns &BUNDLE underscore &SEGMENT (i.e. BUNDLE1_10)
&BDLDOC	Returns the first 8 characters of the Bundle Name. This is mainly for use when outputting to QDLS which has a restriction of 8.3 format names.

Examples;

```
/QDLS/HALPROD/&BDLDOC
/Halcyon/HALPROD/&BDLSTMF
```


Reference: CHG040T 'Position To' parameter added to Work with Tables data list

Work with Tables now includes a 'Position To' parameter within the Table data.

Note

This change also limits the Table to a maximum of 9,999 entries.

Reference: CHG041B Commands added to allow for the maintenance of Table entries

Spooled File Manager now includes the following commands to allow the maintenance of Tables:

CRTTBL Create Table
DLTTBL Delete Table
ADDTBLE Add Table Entry
RMVTBLE Remove Table Entry

Reference: CHG041C Recipient List entries can now be viewed from within Work with Bundles

Work with Bundles now includes options to view and, if authorized, maintain the Recipient List defined on the Bundle and/or Segments. This can be achieved by:

- Using new function F13=Recipient List
- On the summary list of Segments you can use new option 7=Recipient List against a Segment.

Reference: CHG041E Work with Spooled Files now sorted by Output Priority

Halcyon Work with Spooled Files has been changed to sort the list of spooled files using the same method as IBM Work with Spooled Files; Status > Output Priority > Date

Reference: CHG041L Spooled File scripting now includes a 'FIND' function

Spooled File scripting now has a FIND function. The FIND function searches a spooled file for the specified text in the following ways:

- It is possible to limit the search by a page range.
- It is possible to limit the search by a line range.
- It is possible to limit the search by a column range.
- It is possible to use a generic value in the search parameters.

On successful match the next READ will read the line with the found match

Reference: CHG041M Spooled File Owner parameter added to Work with Recipients and used as a default when added to a Recipient List

Work with Recipients now includes a default value for the Spooled File Owner. Once entered, this value is used as a default when the Recipient is added to a Recipient List.

Reference: CHG041N 'Position To' parameter extended

The 'Position To' parameter within Spooled File Manager and throughout Halcyon Event Manager products has been extended to allow more accurate positioning.

Reference: CHG041O *REMAINDER Segment forces the 'Required Segment' parameter to *NO

A *REMAINDER Segment can no longer be set to be a Required Segment.

Reference: CHG041T Building/Deleting Indexes now requests a Start Date

Spooled File Manager Build Indexes (RBDINDEX) and Delete Indexes (DLTINDEX) now allow entry of a From Date. Only archived spooled files matching the Report Type that have a spooled file date greater than or equal to the 'From Date' parameter entry have their indexes altered.

Reference: CHG041W Report Types can now be sequenced within Work with Report Types

Work with Report Types now has the Sequence Number field as input capable on the main Report Types list, allowing you to re-sequence the Report Types.

Reference: CHG041X Extend Table description

The Table Description parameter has been extended.

Reference: CHG041Y Validity checks now undertaken against index defined length and comparison

Segment Comparisons now ensure the value you enter to be compared against is not longer than the Index length.

Note:

The lengths of values within Tables are not verified.

Reference: CHG041Z Recipient List column header changes

To aid clarity, Work with Recipient Lists has had the full Description included in the main list of Recipient Lists. To ensure this fits on the display, the 'Status' column title has been changed to 'Sts' and a held Recipient List now shows as status 'HLD'.

Reference: CHG042C Recipient Packages can now be produced

Spooled File Manager now supports use of Recipient Packages. This is a collection of Segments from archived spooled files in to a single spooled file known as a Recipient Package. The Recipient Package does not have to be pre-defined and a Package can be created 'on the fly' based upon data contained within the archived spooled files - for example, by use of a 'Truck Number' or a 'Depot'.

The Recipient Package simply accumulates segments until it is 'Run'. Then the segments are combined in to a single spooled file and the data cleared.

The only way to define and populate a Recipient Package is via use of Spooled File Manager Scripting across Archived Spooled Files.

Spooled File Manager Scripting: SEGOUT

To create a Recipient Package and/or Segment, you use the new SEGOUT statement. Parameters on SEGOUT indicate the 'Recipient Package Name' and 'Package Group Name'. SEGOUT creates the segment and also the Package and Package Group if they do not already exist.

Work with Packages

This new option allows you to work with Recipient Packages which currently contain data. It shows the Package Group, how many packages (Segments) are currently contained within the Package, the date when data was last added to the Package and the Package Status.

NEW The data contained within the Package is new and has not been 'Run' to produce the Package spooled file.

OLD The data contained within the Package has been output via 'Run' to a Package spooled file. Next time data is sent to the Package, the existing Package segments contained within will be cleared and the new data accumulated.

Reference: CHG042D Work with Report Type Indexes Date display changes

The dates within Work with Report Type Indexes have been changed to clarify their function.

Effective Start Date This is the date the Indexes become effective. The spooled file creation date is compared to this date to determine which version of the Indexes to use.

Position To This date allows you to position to the version of the Indexes effective on the date entered.

Reference: CHG042H Building/Deleting Indexes now requests an End Date

The building and deleting of spooled file indexes now allows an End Date to be specified.

Reference: CHG042N *REMAINDER Segments for the same Report Type must have same Age Tolerance setting

Work with Bundles now enforces the following within Segments:

- All the Segments for the Report Type specified in a *REMAINDER Segment must have the same Age Tolerance.
- When you add a new Segment for a Report Type which has a *REMAINDER Segment, the Age Tolerance defaults to the value from the *REMAINDER Segment.
- Changing the Age Tolerance on a Segment where a *REMAINDER Segment exists for the Report Type, alters ALL the Segments for that Report Type to the same Age Tolerance.
- You are only allowed to add a *REMAINDER Segment for Report Types which already exist in the Bundle that are not *REMAINDER.

Also, F4=Prompt for Report Type only lists existing Report Types within the Bundle if you specify a *REMAINDER Segment.

Reference: CHG043B Reset Archive updated for Index Versions

The Reset Archive (RESETARC) command has been updated to incorporate Index Versions.

Reference: CHG043H 'Output Format' parameters have been clarified in Recipient Lists

Within Work with Recipient Lists, the 'Output format' parameters have been changed to improve clarification. You can now select from:

- Email output format
- Stream file output format

Reference: CHG043J Option 8=Where Used added to Work with Tables display

Work with Tables (Option 7 from within the Spooled File Manager Configuration menu) now includes the option 8=Where Used.

Reference: CHG045K ARCHIVE Action enhanced to enable a script to be run

The ARCHIVE Action now includes a parameter to allow you to run a Spooled File Manager Script against the spooled file once the Archive Action is complete.

Reference: CHG045M Spooled file name can now be overridden when Archived

Archiving a spooled file via the ARCHIVE Action and ARCSPLF command now allows you to override the spooled file name once archived. The spooled file is then identified as the new name in all aspects within Spooled File Manager including comparing to Report Identification Elements within Report Types and when retrieved.

Reference: CHG045O Output Queue added to Report Type identification elements

Spooled File Manager Report Types now includes Output Queue and Output Queue Library as part of the Report Identification Elements. This allows you to define multiple Report Types for the same spooled file but define different Archives and/or Indexes.

Reference: CHG045W Recipient is now shown where held in a Recipient List

Work with Recipient Lists now indicates when a Recipient on the List is Held, and therefore does not receive the distributions defined on the Recipient List.

Reference: CHG045X ARCHIVE Action includes F13-Work with Script

ARCHIVE Action now allows the use of the F13 key to enable working with the spooled file script, if specified.

Reference: CHG046V Indexes can be automatically built when the spooled file is archived

Spooled File Manager now allows you to define whether spooled file Indexes are to be built automatically when a spooled file is archived.

Within Work with Report Types, a new parameter 'Auto create indexes' has been added on page 2 of the definition. When a spooled file that matches the Report Identification Elements on the Report Type is archived, the value in this parameter determines if the Indexes are automatically built.

If set to *NO you can manually use option 20=Build Indexes against the archived spooled file to build the Indexes when required.

Reference: CHG0479 PKGTST and PROCSPPLIT scripts included within the default shipped HEM scripts

Spoiled File Manager now includes 2 new example spoiled file scripts for use with Spoiled File Packages:

PKGTST This script outputs packages with Segments based on a distribution centre and truck reference. The output values are hard-coded.

PROCSPPLIT This script creates Packages with Segments based on an RPGILE compiler listing. It splits the called procedures into Segments within the Package.

Reference: CHG047D '*' can now be used within name parameter of a Recipient List

Recipient Lists now allow the use of the asterisk (*) character as part of the Recipient List name.

Reference: CHG047S Run Bundle builds indexes if selected archived spoiled file is not already indexed

When Run Bundle selects an archived spoiled file that does not have indexes built, it automatically builds them. If there are no indexes defined against the Report Type then an error is shown.



Network Server Suite Enhancements

The following enhancements have been made to Halcyon Network Server Suite between October and December 2011, covering releases 2011.305 to 2011.342.

Reference: CHG02MA Ability to verify dates added to Web Application Monitor

Web Application Monitor now has the ability to check Dates and Times.

This is achieved by use of the Value parameter plus three new parameters:

Value(s) Specify the comparison date or time value. This can be a literal value or you can use substitution variables to compare to current date/time.

For example:

01/31/2011 (i.e. Jan 31st, 2011)
 &DD-&MMM-&YYYY (i.e. Current Date)
 &HH:&NN (i.e. Current Time)

Compare Dates Tick this checkbox if the value is to be treated as a Date or time comparison.

Format String Enter a pattern/mask to define the format of the Date or Time entered for Value and as per the web page to be checked.

For example:

DD-MMM-YYYYY
 HH:NN

Date Offset Use this to define a comparison range compared to the value specified.

For example:

1 Day(s)
 3 Month(s)

Important

Verification of Dates/Times only works if ALL rows for the column to be checked have values in the format specified.

For example, the 'Date' column in the following example can be checked;

Date	Price
01-Jan-2011	11.95
01-Feb-2011	12.95

but the 'Value' column in the following example cannot be checked as some of the values within the column are not dates:

Element	Value
Description	My Item Description
Date Entered	01/02/2011

Reference: CHG02Z5 'Only send between times' parameter added for Instant Alert phone settings

Instant Alert now includes the ability to define a time range for a phone within which it is acceptable to send SMS messages. Instant Alert SMS messages requested outside of the allowed time range are 'queued' until the defined 'Start time' is reached and then sent.

Reference: CHG03OW Retry option added for Messages That Had An Error While Sending

Instant Alert now includes Retry options for a GSM/NetGSM interface which allow you to define how frequently to retry if an error occurs .

Reference: CHG03QR Generic option has been added to the Services Monitor

The Windows Service Monitor now supports the use of generic values for name of the Service to be monitored.

Reference: CHG0451 'Basic' Templates have been renamed to 'Standard' Templates

The AIX and Linux 'Basic' templates have been renamed 'Standard' templates.

Product Suite Fixes

The following fixes have been made to Halcyon IBM i Product Suites between October 2011 and December 2011, covering releases IBM i: 2011.287 to IBM i: 2011.348 and Network Server Suite 2011.305 to 2011.342 inclusive.



IBM i Product Fixes

Common Library - Actions

Reference: CHG044T Copy to Stream File Action no longer fails for HTML and TXT to QNTC file system

A Copy to Stream File (CPYTOSTMF) Action would fail if the destination was a QNTC file system because it attempted to set authorities after the copy. This has been fixed.

Reference: CHG046C Action Schedule with SNDTXT Action on remote system sets correct condition

An Action Schedule with a SNDTXT Action to be sent via a remote system would incorrectly set the Action to completed successfully when the Action had been passed to the Remote System rather than waiting for the actual outcome of the SMS on the remote system. This has been fixed.

Note:

A SNDTXT Action is considered successful if the SMS message is sent, regardless of whether the phone was answered if 'Tones' were specified. Therefore, a SNDTXT is a success if the phone was not answered but the SMS was sent.

Reference: CHG047U Workaround applied to prevent the SYSLOG Action (SNDSYSLOG command) from not releasing locks

Due to an IBM API issue, the SYSLOG Action (SNDSYSLOG command) was not releasing locks which could result in error CPI1466 (Job holds large number of locks) being raised. A workaround has been applied to prevent this.

Common Library – Menu Accessibility

Reference: CHG040M Limited Capability Users can now use Halcyon menu options

Limited Capability Users now have access to the complete range of Halcyon menu options.

Common Library - Rules

Reference: CHG042W Rules are now held if an Output Queue no longer exists

The Output Queue Monitor would incorrectly process Rules if an Output Queue was physically deleted without the Output Queue Rule Group being held or removed first.

Now, if the Output Queue Monitor finds an Output Queue no longer exists, either because it has been deleted or is not authorized, it holds the Output Queue Group.

Reference: CHG044G *JOB JOBCOUNT Rule now displays maximum allowed values

A Performance *JOB JOBCOUNT Rule now displays the valid values if you set Subsystem to *ALL or a generic* value.

Reference: CHG044I *JOB JOBCOUNT Rule now displays all input boxes on an *IN comparison

A Performance *JOB JOBCOUNT Rule now displays all of the required input boxes for an *IN comparison.

Reference: CHG044N Page Down works correctly when displaying Output Queue *SPLF Rules

Previously, if you displayed a *SPLF type Output Queue Rule from Within Work with Rules you were unable to page down to display the list of Titles on the criteria. This has been fixed.

Reference: CHG046X Displaying an Output Queue Rule now shows correct Page Number

Displaying an Output Queue Rule now show the page number for the Page Titles on the select criteria as a number rather than '0J'.

Reference: CHG047H Expanding Rules no longer fails if more than 99,999 Rules are defined

Work with Rules no longer fails if you use F11=Expand and you have more than 99,999 Rules defined across all Products.

Common Library – User Authorities

Reference: CHG0422 Export User Authorities now updates *PUBLIC authorities

Export User Authorities (EXPUSRAUT) now updates *PUBLIC Authorities.

Common Library - Work with Monitors/Alert Log

Reference: CHG03Y9 Audit Journal Monitor no longer fails if QAUDJRN is locked

The Audit Journal Monitor no longer fails if QAUDJRN is locked, by a backup for example.

Reference: CHG045L Messages are now processed when the message file is on an Independent ASP

Message Monitor would error when attempting to process a message from a message queue that had been sent using a message file on an Independent ASP. Work with Alert Log would fail for the same reason. This is because the Monitor /Alert Log do not have the IASP Library in their library lists.

The Monitor and Work with Alert Log have been fixed and no longer fail in this scenario but will have errors.

To deal with these errors:

1. Change Job Description STRMON to have the Initial ASP set to the IASP library, 'INDASP1' for example. This means the Monitor has access to the IASP.
2. Do the same for the description of the interactive session. This means the Alert Log display also has access to the IASP.

Reference: CHG047V Performance Monitor no longer fails if IBM API returns invalid response

The Performance Monitor would fail if the IBM API returned an invalid response. This has been fixed.

Advanced Job Scheduler

Reference: CHG042M Locked Group no longer run immediately by another Group with Conditions

Within Advanced Job Scheduler if you had a Locked Group set to run on Conditions based on another Group completing successfully, the Group would run immediately when released if the Group within the Conditions had completed successfully while it was in a Locked status. This has been fixed.

Disk Space Manager

Reference: CHG0458 Correct Date now set on Halcyon Job Scheduler Job when using Quick Setup

Disk Space Manager Quick Setup was incorrectly setting the Job Date within Advanced Job Scheduler if you requested the ANZDSK to be scheduled. Within Advanced Job Scheduler this resulted in the Job Date showing as *ERROR. This has been fixed.

Message Communicator

Reference: CHG03YT Utility Menu options for Send Text Message no longer fail

The Halcyon Utility Menu and Message Communicator Utility Menu options to send a text message no longer fail.

Reference: CHG041I HMC file HMCICFI always included as part of an upgrade

Occasionally, an upgrade would not include file HMCICFI within Message Communicator. This has been fixed.

Performance Analyzer

Reference: CHG043V Correct Response Time Values now displayed

Performance Analyzer now displays the correct values for Response Times.

Spooled File Manager

Reference: CHG03YI Export Spooled File now searches for available Member

If a Spooled File Manager Export Spooled File work file hits the maximum number of members (32,767), it would not allow Exporting until all the members had been processed by the Spooled File Manager GUI and the work file cleared. This could prove difficult due to continued exporting.

To alleviate this issue Export Spooled File now searches for an available Member within the Export Work file and only prevents Exporting if all the members are used.

Reference: CHG03Z7 Work with Spooled Files in *ASYNCR mode no longer lists duplicate spooled files

Work with Spooled Files in *ASYNCR mode (System default HEM/SPLRTOPTION) would list the same spooled file multiple times under certain circumstances. This has been fixed.

Reference: CHG0439 Compressed column displays 'A' for *INDEXED archived spooled files

Work with Archived Spooled Files now shows "A" in the Compressed column against archived spooled files within an *INDEXED Archive to indicate that compression is controlled automatically.

Reference: CHG040P *HSM library default removed when *RPTTYP is used in an ARCHIVE action

An ARCHIVE Action would incorrectly default *HSM in to Archive File Group Library when Archive File Group was set to *RPTTYP. This has been fixed.

Reference: CHG0424 Verify Spooled File Script no longer fails

The Spooled File Manager Verify Spooled File Script command (VFYSPLSCR) no longer fails.

Reference: CHG043I Help text clarified for Segment comparison field

The help text for Segment Comparisons has been changed for clarification.

Reference: CHG043T Work with Archived Spooled Files now displays Generation Retention if no Indexes exist

Work with Archived Spooled Files now displays the 'Generations to keep' parameter value if the Report Type does not have any Indexes defined.

Reference: CHG045U Newly added Recipient List now shown when F5=Refresh is used

A newly created Recipient List was not being shown within Work with Recipient Lists when you used F5=Refresh. It was only listed if you exited and re-opened Work with Recipient Lists. This has been fixed.

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