

5+5	0.055	5+5	0.055	5+5	0.055
1132	504+	1132	504+	1132	504+
3232	0239	3232	0239	3232	0239
2440	211	2440	211	2440	211
53+32+	5+5	53+32+	5+5	53+32+	5+5
211.22	1132	211.22	1132	211.22	1132
1323	3232	1323	3232	1323	3232
0.055	2440	0.055	2440	0.055	2440
504+	53+32+	504+	53+32+	504+	53+32+
0239	211.22	0239	211.22	0239	211.22
211	1323	211	1323	211	1323
5+5	0.055	5+5	0.055	5+5	0.055
1132	504+	1132	504+	1132	504+
3232	0239	3232	0239	3232	0239
2440	211	2440	211	2440	211
53+32+	5+5	53+32+	5+5	53+32+	5+5
211.22	66	211.22	66	211.22	66



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# Monarch Server

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## Release Notes

v15.3

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# 1. Welcome

Welcome to Monarch Server minor release 15.3. This release is generally available on December 17, 2018, and it is the first minor release on version 15. No versions 15.1 and 15.2 will be released for Monarch Server, and the release number is now set to 15.3 to be aligned with Monarch Complete v15.3, which is released within the same time frame (December 2018).

This document provides an overview of the new features and enhancements provided by Monarch Server in the 15.3 release. For information on installation and upgrade procedures, as well as details on supported platforms and software requirements, see the separate installation guides that are provided with this release.

Datawatch highly recommends upgrading to the latest available release, in order to make use of the latest functionality and feature enhancements, improvements in performance and stability, and to be best prepared for the next release.

## 1.1. Release Overview

Monarch Server 15.3 continues the path to simplify the automation of data preparation based on Datawatch Monarch Workspaces and Models.

Enhancements in the general user experience are added to process definitions, and improvements are made for data connectivity and exports. The Server Library has new options for permissions, and the revisions of all types objects can now be restored. There are also a few additions in data connections following the additions in Monarch Complete 15.3.

An option to split large and complex files into defined components is added to the Visual Process Designer. This functionality is inherited from the legacy “Burster” functionality, previously available as a separate tool, which now is integrated in the Automator for more easy access and use.

Additionally, a few general enhancements are included in this release related to upgrades and for improved performance.

Finally, a code scan for vulnerability issues is run to ensures that no significant risks for security breaches are apparent.

## 2. Release Benefits

This document is divided into the major areas where improvements and additions of new features provide significant benefits to the users of Monarch Server 15.3. The following benefits are described in one section each:

- Usability in Visual Process Designer and general process definitions
- Integrated Burster functionality
- Data connectivity, export, and performance
- User permissions and Server Library management
- Installation and upgrade
- Enhancements for Content and RMS
- Low risk for security breaches

### 2.1. Visual Process Designer and Process Definitions

The definition of Automator processes is the core of Monarch Server, and new and enhanced features in the Visual Process Designer improve general usability and enable users to build and run processes faster and with better control. The enhancements in the API provide the users with new tools for better management of their processes.

### Features and Enhancements

A new option is added for monthly schedules. It is now possible to define a process to run on specific business days of the month, e.g. the first, tenth, and last business day of each month. (DST-1820)

Schedule
  Inputs monitoring
  Manifests monitoring
  Content System
  Disable Triggers

Suspend

**Execution Frequency:**

OneTime
  Hourly
  Daily
  Weekly
  Monthly

Day

Business Day

The

of every  Month

January
  February
  March

April
  May
  June

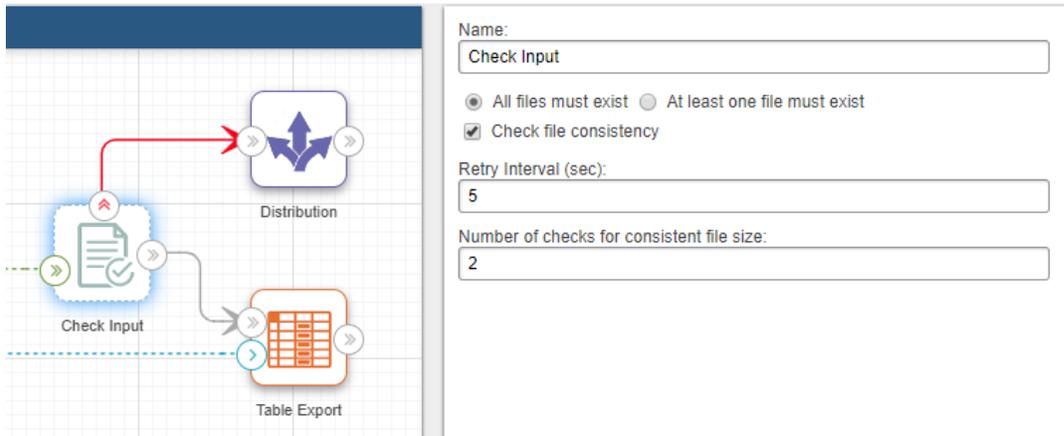
of selected months
  July
  August
  September

October
  November
  December

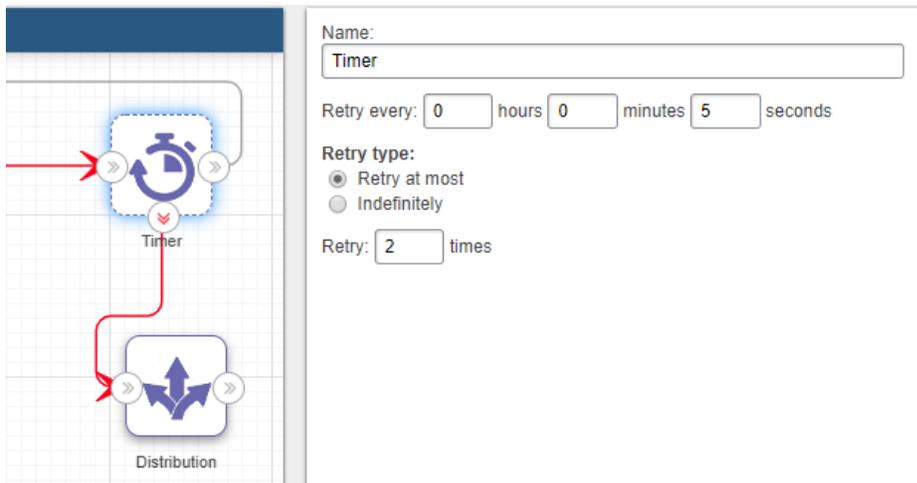
At

Monday to Friday are considered business days, but Exception Dates defined for “all day” will be excluded in the day count. Individual numbers and ranges can be defined, and negative numbers count backwards from the end of the previous month.

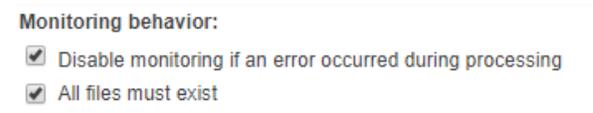
An option to check for file consistency is added to the Check Input element. It can be used to check input file size for Visual Processes in a similar way as for Standard Processes. This to ensure a file has completely transferred to the input location before the process is started. The time interval between checks and the number of checks can be defined. (DST-1712)



The Timer element is enhanced with an additional connector which is being used only if the retry count is exceeded. This can for example be used when a process runs beyond an expected number of iterations, and the new flow can then be defined to send an email to notify users. (DST-1538)



An option is added for the behavior when monitoring is based on multiple files. It can now be explicitly defined on the monitoring definition, for both Visual and Standard Processes, that all files must exist before the process gets triggered. (DST-1736)



In order to avoid potential duplication of alerts in the logs for Visual Processes when process specific and global alerts overlap, an option is added in the definition of the process specific alert, to ignore the global

alert. The availability of this option is governed by a general system setting. (DST-1531)

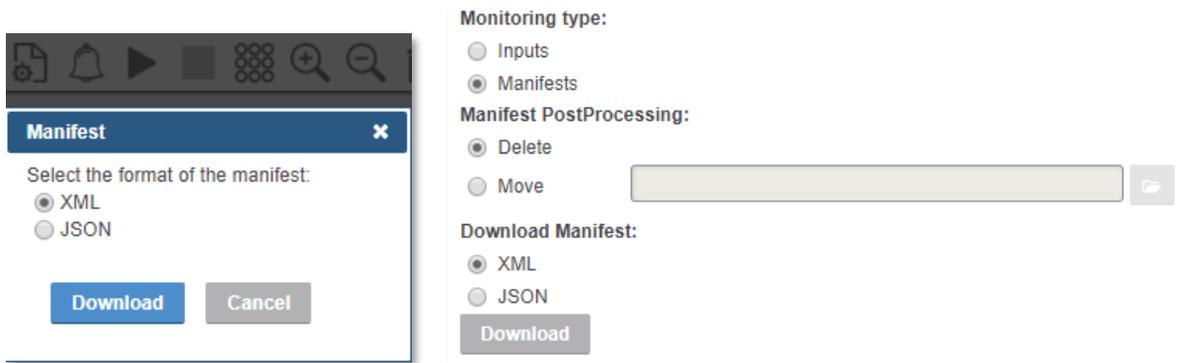


A few basic messages are improved in the logs for Visual Processes. (DST-1555 & DST-1755)

The system report for Audit Entity Action is improved to not just display the entity's id, but when available also its name. This is added for all entity types. (DST-1642)

The API to initiate processes with a manifest file does now also support files in JSON format, next to previously supported XML format, both for Visual and Standard Processes. (DST-1654)

To simplify the creation of a manifest file an option is available to generate the file from an existing process, . The generated file can be used right away to initiate process runs, or be used as a "template" for potential modifications of the parameters. (DST-1612)



The Monarch Server API is extended with methods to retrieve more information about a running job. The improvements are related to the methods get process status, process log, and item log. (DST-1802)

The method API for scripts has two new functions added with methods to retrieve the table names and number of records exported, GetOutputTableNames and GetOutputRowCount. Both these can be used for Report, Table, Summary, and DataPrep elements in Visual Processes. (DST-1628)

## 2.2. Integrated Burster

The specific use case for separation of large input files, e.g. from mortgage systems, previously supported with the separate "ESBurster" tool, is now supported as part of Monarch Server.

## Features and Enhancements

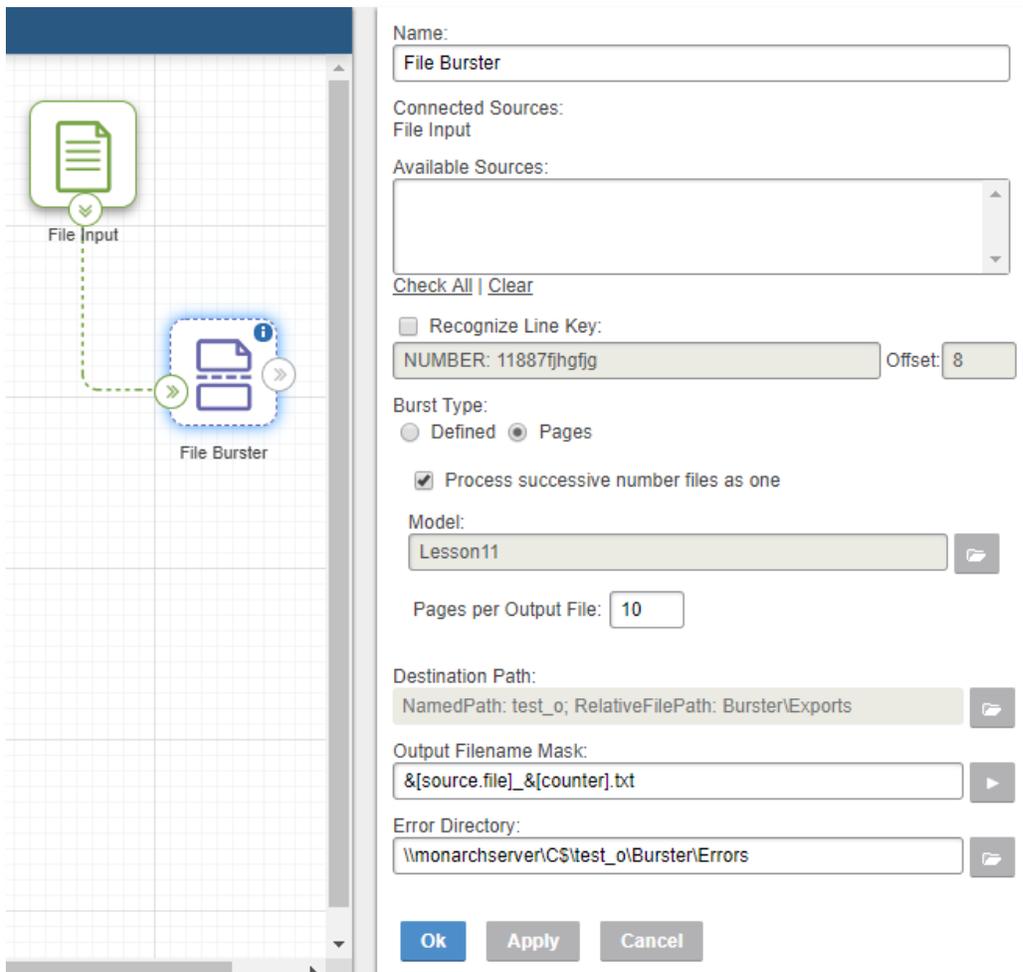
A new "File Burster" element is included in the Visual Process Designer, which integrates parts of the legacy ESBurster (which was a separate tool) functionality. The Burster element makes it possible to take use of additional features in the Automator, such as the definition of input files, scheduling and monitoring, alerts, and distribution of files, logs, etc. (DST-1737)

The main case supported is for files having an “index table” embedded in the large file, which describes the different sections contained in the file using special markers for identification and values for the number of lines in each section. This is defined in the Burster element setting the Burst Type option to “Defined”.

The screenshot displays the Monarch Server configuration interface. On the left, a workflow diagram shows a 'File Input' element connected to a 'File Burster' element, which is then connected to two 'Distribution' elements labeled 'Distribution OK' and 'Distribution error'. The 'File Burster' element is highlighted with a blue dashed border and a red arrow pointing to the 'Distribution error' element.

On the right, the configuration panel for the 'File Burster' element is shown. The 'Name' field is set to 'File Burster'. Under 'Connected Sources', 'File Input' is listed. The 'Available Sources' list is empty. The 'Check All | Clear' button is visible. The 'Recognize Line Key' checkbox is checked, with the 'Line Key' set to 'O9601-RDR' and an 'Offset' of 1. The 'Trim leading characters' checkbox is also checked, with a value of 1. The 'Burst Type' is set to 'Defined'. The 'Index Table Start Marker' is 'RDR' with an offset of 6. The 'Line Validator' is '---' with an offset of 0. The 'Line Field Offset' is 62 and the 'Line Field Length' is 1. The 'ID Field Offset' is 4 and the 'ID Field Length' is 10. The 'Index Table End Marker' is 'REPORT SET 900 TOTALS' with an offset of 0. The 'Content Start Marker' is 'E9601-AA1' with an offset of 0. The 'Destination Path' is 'test\_o; RelativeFilePath: Burster\Exports\Defined'. The 'Output Filename Mask' is '&[process]\_Defined\_&[counter]\_&[reportid].txt'. The 'Header Output Mask' checkbox is checked, with the mask 'Header\_Output\_Mask&[counter].txt'. The 'Error Directory' is 'test\_o; RelativeFilePath: Burster\Errors\Defined'. At the bottom, there are 'Ok', 'Apply', and 'Cancel' buttons.

The alternative Burster Type is named “Pages”, and this provides the options to split a large file into new files each having a set number of pages. The parsing of the large file is based on a Model, and it can be defined to combine input files as one file if they include a sequence number as suffix of their names, and the numbers are successive.



The performance for the integrated Burster is tested and confirmed to be up to twice as fast as the old ESBurster. (DST-1901)

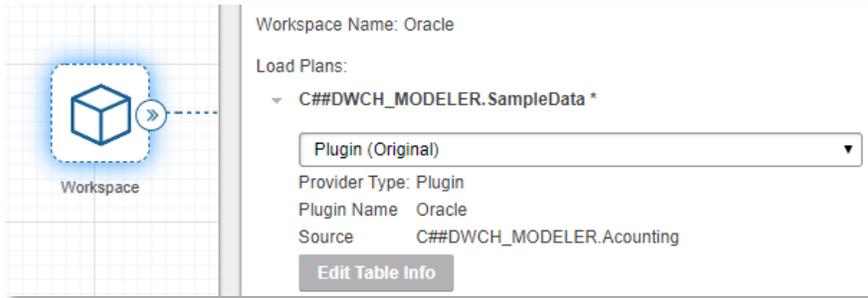
## 2.3. Data Connectivity Export and Performance

The additions and improvements in this area include access and configuration options for connections to source data, options for exports to databases and Access files, and significantly improved performance for specific file exports.

### Features and Enhancements

It is now possible to edit the definition of an Oracle connection for a Workspace, as it was defined in Monarch Complete. The Edit Table Info button in the Workspace element opens a dialog with the same content as in

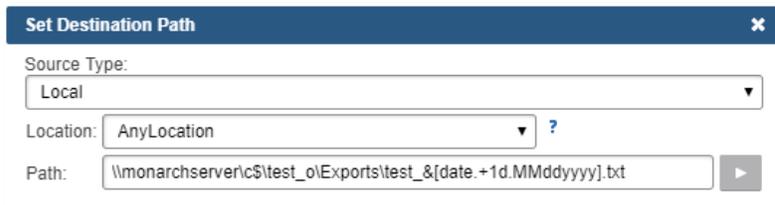
the desktop. (DST-1596)



Support for new plugin connectors is added for sources now supported in Monarch Complete. Among these are MS Active Directory, Cloudera CDH, Cassandra, Google BigQuery, Google Drive, Google Sheets, and Apache Spark SQL. (DST-1918 & DST-1985)

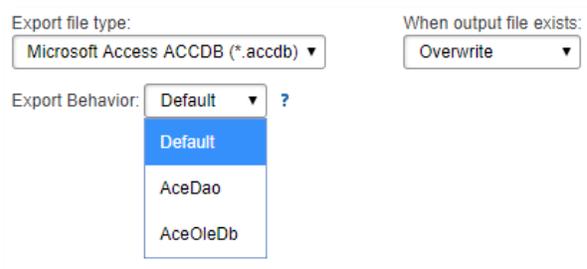
For exports, the performance is significantly improved if defined to a file destination on a UNC path. Now these kinds of exports on average run in half the time compared with previous release. (DST-1848)

The icon for the option to “Insert Macro” is updated to be the same across all places it is used. (DST-1547)

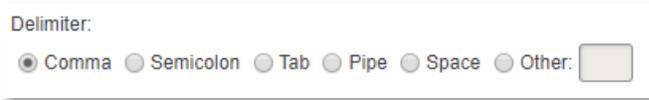


A new macro “Date Format” is added, which can be used to format the date in the output file name, but also to increase or decrease the date. The macro is added as `&[date.<increment>.<output format>]`, where the increment can be a positive or negative number of days, months or years (or +0d for no change), and the output format is defined using Microsoft format strings for custom formatting of date and time values. For example, a macro `&[date.+1y.yyyy-MM-dd]` would use current date but adjust it one year and present it in European CEN date format. (DST-1530)

The options ACE DAO or OleDb for selection of the behavior when exporting to an Access database are added for Visual Processes (this was added for Standard Processes in v15.0). DAO is recommended for large datasets as it has generally better performance, although it cannot be run in parallel mode. Therefore, ACE OleDb is recommended for multiple smaller exports, which then can run in parallel. The selection is made with a drop-down on the export elements, and the default behavior can be defined in the config.xml. (DST-1693)

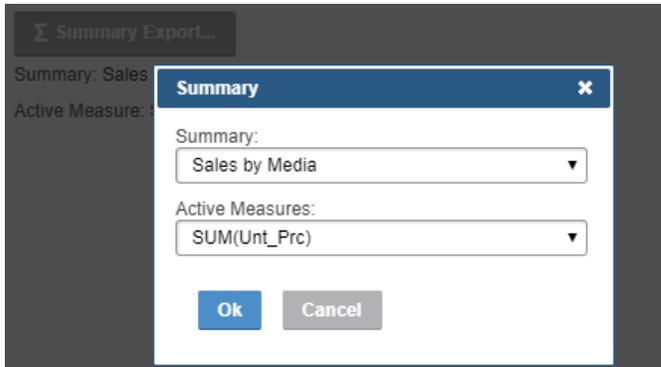


DataPrep Exports can now be defined to delimited files using the tab delimiter. This is possible in the redesigned display of available options. (DST-1760)



DataPrep Export is improved to support column mapping when exporting to databases (OLE DB/ODBC). (DST-1837)

Visual Processes are now compatible with Summaries in Workspaces from Monarch Complete, and these can be defined in the DataPrep Export element by using the Summary Export button. (DST-1819)



## 2.4. User Permissions and Server Library Management

The enhancement in this area provides better control over the permissions granted in the Automator, specifically the Rights setup is added for Folders and Named Paths. Server Library management is improved to allow revisions of all object types to be restored.

### Features and Enhancements

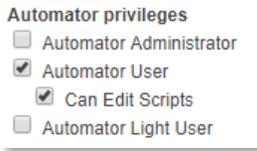
The ability to assign permissions (Rights) does now also include Folders and Named Paths in the Server Library. This can for example be used to provide different User Groups different folder locations for their objects. (DST-1557 & DST-1768) Additionally, all the sections are by default collapsed when opening the Rights menu, for all types of objects. This to avoid unintended setup by having one section expanded (previously Users). (DST-1813)



For paths there is also a new System Setting (under Application Settings) to “allow manual path selection”. This is available for Automator deployments and it is by default allowed, but if deselected it will only allow

users to select defined Named Paths they have access to, and the option to browse for a local path is not available. (DST-1768)

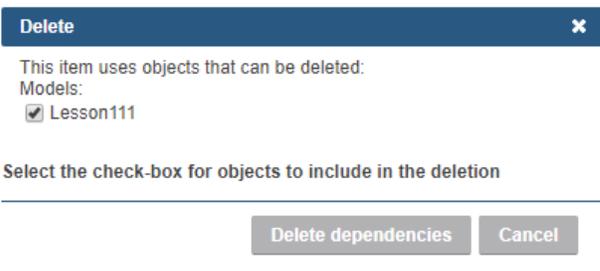
An new option is added to Automator user privileges, to define if the user should get access to edit scripts or now. On an upgrade this will by default be given to all Automator Users, but can it can be deselected manually as needed. A user not given this privilege will not see any related objects or menus. (DST-1532)



It is now possible to restore a selected model revision for all types of objects in the Server Library, and previous revisions can also be deleted from the library. (DST-1552 & DST-1728)

View 1 - 3 of 3				
COMMIT DATE	USER NAME	COMMENT	RESTORE	DELETE
10/04/2018 8:48:43 PM	admin		↶	✖
06/21/2018 6:55:33 PM	admin		↶	✖
06/21/2018 6:36:30 PM	admin		↶	✖

Deletion of Models and Projects is improved with information about dependencies with other objects (e.g. a Process), and when possible it also gives an option to delete related objects provided these are not used in any other object. (DST-1645)



The Bulk Edit feature is extended to include an option for editing of XSL Templates used in RMS and Content deployments. (DST-1821)

## 2.5. Installation and Upgrade

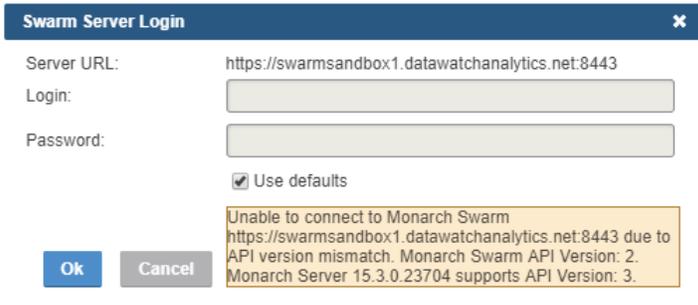
The following enhancements are related to the operation and maintenance of Monarch Server. In this release the upgrade procedure for an Advanced installation and the integration with Monarch Swarm are improved.

### Features and Enhancements

Performing an upgrade of a deployment where the Advanced installation has been used is now possible without first uninstalling previous version. This is supported for upgrade from Monarch Server 13.5 or later. (DST-1523)

Monarch Server v15.3 is compatible with Monarch Swarm version 2.2. (DST-1853)

Attempts to integrate with previous versions of Monarch Swarm does not work, and a message will be prompted in the definition of Swarm server or wherever it is used. (DST-1947)



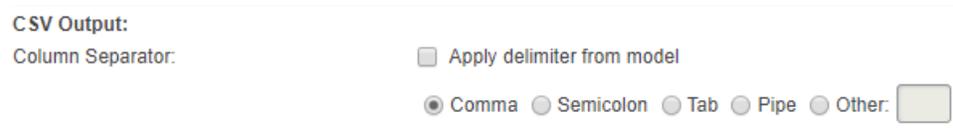
Integration with Monarch Swarm is now also supported for Swarm servers installed on Linux. (DST-1735)

## 2.6. Enhancements for Content and RMS

The following enhancements are related to deployments of the Content and RMS editions of Monarch Server.

### Features and Enhancements

Additional options are added so users can choose which delimiter to use when exporting to csv from the RMS or Content Client, the options are found under Preferences. (DST-1647)



An improvement is made in the definition of Filing Tasks. Both Last Write Time and Document Date are now available to use as index values, to avoid that the same files get picked up multiple times. (DST-1774)

## 2.7. Reduced Risk for Security Breaches

Regular review of the software eliminates the risk to have vulnerabilities exposed. The code scans performed on Monarch Server permit deployments to more easily comply with the major regulatory requirements and industry standards.

### Features and Enhancements

A vulnerability code scan is performed on Monarch Server v15.3, using Veracode Static Scan, which is considered one of the most effective ways to eliminate software flaws. Datawatch complies to Veracode Level 4, and all issues found and classified as high or medium are fixed. (DST-683)

## 3. Bug Fixes

### 3.1. Automation Edition

- Scheduled Process Kicked Off After Exception Date Ended (DST-1528)
- Standard Processes error if trying to change export path for connection strings (DST-1677)
- Server Library icons are missing for search (DST-1707)
- Connection definition user credential information in clear text (DST-1710)
- Unable to execute processes "There is not enough space on the disk" (DST-1713)
- Macros with dots are corrupted after change Export Type (DST-1720)
- Automator Light User shouldn't go to process details from jobs/logs (DST-1724)
- Automator Light User shouldn't be able Import/Export/Migration Visual Processes (DST-1725)
- Visual Process exports 0 records when input is pdf-file with password (DST-1753)
- List all details in the log about multiple Projects & Models included in Job (DST-1754)
- All properties should be the same as in Original process after Insert Processed as Group (DST-1762)
- Fetch Database button in Workspace's Edit Table Info returns incorrect results (DST-1784)
- Endless load when Automator User tries to cancel saving of process with existing name (DST-1790)
- Script item: It's impossible see full Insert Macro drop down list in Chrome only (DST-1800)
- It is possible export 300+ processes in one file but it's not possible import it back (DST-1801)
- Designer Mode is closed without saving after trying to duplicate Swarm Input item (DST-1816)
- Export failed when Microsoft Access database engine 2016 is installed (DST-1818)
- It is possible to specify Verify Model/Verify Workspace in Available Sources for Distribution item, but data file wasn't send (DST-1838)
- Endless loading if opening existing or saving new Visual Process with Database Input (DST-1840)
- With one input file for standard monitored process is delivered with delay monitoring job would not start when files become available (DST-1842)
- It is required to enter password for Workspace with Swarm connector on every edit (DST-1845)
- Full list of processes should be available after each open "Insert Process as Group" (DST-1857)
- Error (The given path's format is not supported) when using &joblog in Input Distribution (DST-1860)
- It's impossible to edit table info in workspace with SQL/Oracle/OleDB plugin (DST-1871)
- Column mapping is not available for the nested load plan (DST-1872)
- Input from Workspace isn't used after disconnecting a File Input item used in Workspace (DST-1873)
- Warning about incorrect or missing values is absent if replacing input in the Workspace with Monarch Swarm Provider Type (DST-1879)
- Project gets an empty name and model, when uploaded second time with same name (DST-1886)
- Location of monitored paths is not migrated from Standard to Visual Processes (DST-1894)
- Standard Processes: it's not possible change project in distribution installation when one Agent was stopped (DST-1895)
- Add button "+" shouldn't be available for input monitoring if file input wasn't specified (DST-1900)

- Standard Process is not completed if run via manifest file having settings of web input (DST-1904)
- When exporting to SyBase Automator gives error that column doesn't allow NULL values (DST-1907)
- Upgrade from pre-DOR to current mislabels XMOD models as DMOD (DST-1909)
- Unable to retrieve model information if it contains unresolved external lookup (DST-1917)
- Process with missing named path hangs and gives no visible error why (DST-1922)
- Custom numbers from DPS rounded up/down when exported to SQL table in Automator (DST-1927)
- Check cmd object has too short timeout 600 ms (0.6 sec) (DST-1930)
- Process with Dataprep Export to Microsoft Access isn't completed if mapping is used (DST-1938)
- Endless loading when opening imported process having Visual Process item included (DST-1940)
- It is not possible to replace Input path for Workspace through Bulk Edit (DST-1943)
- User is navigated to Home page when trying to open DataPrep Export Properties (DST-1957)
- Angoss export files are not attached to email during process distribution (DST-1959)
- Search does not work for Run Script form in Standard Process (DST-1962)
- Process migrated from Standard to Visual gets notification messages from multiple exports merged into one email (DST-1964)
- The File Input element isn't available in the Workspace options if Named Path is used (DST-1965)
- Error occurred during migration process with Export Distributions in Chrome (DST-1967)
- Alert in Visual Process SystemAlertProcessElementFailed: it's not possible delete Element Type values (DST-1976)

## 3.2. Content and Report Mining Editions

- Receiving an error when using transfer export feature (DST-1759)
- Dynamic View does not display data receiving uncaught exception from processing specific model/report (DST-1779)
- Document types values are duplicated for Content System Input/Output items (DST-1792)
- Server Library: it's impossible to delete template if it was used in deleted document type (DST-1803)
- It is not possible to open Data View for reports with size more than 150MB (DST-1850)
- Text download in a Report View fails with the network error (DST-1856)
- Using pre-mining maintenance task with count of report files condition specified from 999999999 to 999999999 duplicate records created in DTA tables (DST-1868)
- Ingestion time increases over time in large Filing Processes with many Filing Tasks (DST-1884)
- Date Index LOV validates all dates expecting M/D/Y values and fails to render when dates do not comply with same (DST-1890)
- Advanced document search does not return results for multiple document types if "Allow searches by document dates" enabled (DST-1911)
- Concatenation of Original Reports only works having Report Search enabled (DST-1936)
- Incorrect using same Naming Macros for Filing Tasks (DST-1950)
- Selecting blank value from Dynamic filter results in no matches (DST-1961)
- New Model does not get Global Rights if uploaded using My Models tab when System Option "All users will have access to resources" is selected (DST-1963)

- French RMS hangs in Dynamic view when Filtering for decimal values (DST-1971)
- The created Search Notification isn't displayed on the list of search notifications (DST-1986)
- The created Offline Task isn't displayed on the list of offline tasks (DST-1989)

### 3.3. General

- Automator upgrades break SSO and web.config configuration items are not retained (DST-1529)
- Database Upgrade, issue with password encryption (DST-1714)
- Automator (Agent Service suddenly stops) (DST-1785)
- Cannot add System Notifications to Users and User Groups (DST-1861)
- System Report Audit Entity Actions displays connection definition password as plain text (DST-1916)
- Web apps not updated by Agent (DST-1919)
- Redundant config files in Agent, Config, Configurator folders after installation (DST-1920)
- System Report Audit Entity Actions is missing old value after edit of connection definition password (DST-1937)

## 4. Known Issues

The following known issues will be fixed in a patch on Monarch Server, 15.3.

- Message "Unable to open channel" when accessing MSAdmin after removing Automator Modules from the configuration (DST-1973)
- List of processes becomes inaccessible if a process has a single quote character in the name (DST-1997)

The 15.3.1 patch is targeted to be available in February 2019.

The following known issue is planned to be fixed in the next release of Monarch Server, version 15.4.

- DataPumpDispatcherServiceHost module sometimes gets terminated unexpectedly during the canceling of Visual Process (DST-1956)

Monarch Server v15.4 is targeted to be available in April 2019.