

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



Monarch Server

Release Notes

v14.1

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In the United States:

Datawatch Corporation
4 Crosby Drive
Bedford, MA 01730
Fax: +1 978 275 8398
Phone: +1 978 441 2200

In Europe:

Siena Court
Broadway
Maidenhead
Berkshire SL6 1NJ
Fax: +44 (0) 845 362 3271
Phone: +44 (0) 0845 362 3270

0.055	244
504+	53
0239	21
211	13
5+5	0.0
1132	50
3232	02
2440	21
53+32+	5+
211.22	11
1323	32
0.055	24
504+	53
0239	21
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0239	211.22	0239	211.22	0239	211
211	1323	211	1323	211	1323
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1132	504+	1132	504+	1132	504+
3232	0239	3232	0239	3232	0239
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1. Welcome

Welcome to Monarch Server 14.1. This is the release generally available on April 12, 2017.

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.

This document provides an overview of the new features and enhancements provided by Monarch Server in the 14.1 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.

1.1. Release Overview

Monarch Server 14.1 continues the path to simplify the automation of data preparation based on Datawatch Monarch Workspaces and Models.

The major focus in this release is on enhancements in the general user experience, and additional options within the Automation Edition. One specific major enhancement is in the logs produced on Visual Process runs, where both the content and the presentation of the logs have been improved.

Additional support have been added for the products from the Microsoft 2016 suite, such as Windows Server 2016 and SQL Server 2016. Also, all features available in Models and Workspaces defined with Monarch Classic or Monarch Complete version 14.1 are supported.

Finally, a code scan for vulnerability issues was made, and fixes are included in order to limit the risk for certain security breaches.

2. Release Benefits

This section is divided into the major areas where improvements and additions of new features provide significant benefits to the users of Monarch Server 14.1. The following benefits are described in one sub-section each:

- Better overview of server status and improved logs for Visual Processes
- New and enhanced features in process definitions
- Dynamic initiation of processes and definition of schedules
- Miscellaneous minor enhancements (including RMS)
- Support for latest enhancements in Monarch 14.1 desktop applications
- Support for Microsoft 2016 products
- Reduced risk for security breaches

2.1. Server Status and Logs for Visual Processes

The enhancements in this area provide users with more information on processes running on the server and in the logs produced by Visual Processes. The information is easily accessible and it gives a better overview if any issues are present.

Features and Enhancements

The Server Status page in the Admin Client is enhanced with numbers on jobs currently executing, processes in queue, number of active jobs, etc. If the deployment is a distributed setup over multiple nodes the Server Status page also gives some of these numbers distributed per each host. (DST-560)

The screenshot shows the Admin Client interface with a sidebar on the left containing navigation options: My Home, Content System, Automator, and Visual Processes. The main content area displays the following information:

- Refresh Status:** Interval (in seconds) is set to 60. There is a 'Refresh Now' button and an 'Automatic' checkbox.
- Server Status:**
 - Custodian Status: Not running
 - Jobs Currently Executing: 10
 - Process Queue Entries: 0
 - Active Jobs: 148
 - Process Count: 7
 - Job Count: 149
- Dispatcher Status:** localhost Active, 10 jobs running, 138 in queue.
- Operations:** Job Processing Status is Enabled. There are 'Start' and 'Stop' buttons.

In Monarch Server v14.1 this Server Status page only provides information on Standard Processes, while information on Visual Processes will be included in v14.2.

In Monarch Server v14.1 the logs for Visual Processes has been made more dynamic allowing quicker access and with sections for various parts of the log information. (DST-986)

The new log view is available both from within the Visual Process Designer and from the list of Logs. In the Visual Process Designer, it has been moved from a left vertical panel to an expandable horizontal panel below the view of the process design. At the top of the log view is a section with a summary of the process timeline and the sequence of events.

The screenshot displays a log window titled 'Completed: 3/16/2017, 7:39:28 AM' with an 'Export Log' button. It is divided into two main sections: 'Process Events' and 'Process Items'.

Process Events:

- 3/16/2017, 7:39:16 AM: Created.
- 3/16/2017, 7:39:16 AM: Will be processed on dts0003m.
- 3/16/2017, 7:39:25 AM: [DataPrep Export (1)] Cannot open file "C:\Users\davidson\OneDrive for Business\Desktop\Data.csv.txt"
- 3/16/2017, 7:39:28 AM: The execution of the process is completed. Duration of 00:00:12.1056000.

Process Items:

Filter: All Warnings Errors Sort: Default

- Workspace** (2 Events) Duration 2.01(s)
- Database Input** (0 Events) Duration 0.00(s)
- DataPrep Export (1)** (3 Events, 1 Error(s)) Duration 5.12(s)
 - 3/16/2017, 7:39:20 AM: Started.
 - 3/16/2017, 7:39:25 AM: Datawatch.Common.Exceptions.DatawatchDataPrepException: Cannot open file "C:\Users\davidson\OneDrive for Business\Desktop\Data.csv.txt" at Datawatch.Export.DatawatchDataPrep.Exporter.ProcessExport...
 - 3/16/2017, 7:39:25 AM: Failed. Duration of 00:00:05.11
- Workspace_Hub** (2 Events) Duration 2.20(s)

Below the items, there is a JSON snippet:

```
{
  "Workspace": "dor://dd5032e9-cc1b-418a-8bd9-f41e15f24042/ (Data_csv)",
  "Results": []
}
```

Below this summary there is a section with each process item and their specific events. The events can here be expanded to present more information, e.g. to detail an error that has occurred. The section with process items can be filtered to display only errors, warnings, or all events. The log can be exported to an XML-file, which can be used for further analyses and potentially be distributed for troubleshooting by Support.

2.2. Enhanced Features in Process Definitions

The definition of Automator processes is the core of Monarch Server and the new and enhanced features improve compatibility between Standard and Visual Processes. They simplify process management and enable users to build and run processes faster and with better control.

Features and Enhancements

The option to update existing rows with DataPrep Export is added in the same way as already available for Classic exports. (DST-887)

Two additional methods are added for scripts in Visual Processes: (DST-886)

- `Api.AddEvent(string text)` – to log an event for a particular Script Element.
- `GetEvents(string itemName)` – to get an event by name of the Script Element in the same context.

It is now possible to add password protected Workspaces to the Server Library for use in Visual Processes. (DST-935)

Classic processes can now read files and reports from within a zip archive (.zip/.gzip/.gz/.7z/.rar), and both individual files and zip archives can be read from an Amazon S3 Storage. This is enabled both for Standard and Visual Processes. (DST-696)

2.3. Dynamic Process Runs and Schedules

The enhancements in this area enable users to more flexibly define and configure scheduled or monitored processes. More dynamic setup is now possible to benefit general system operations.

Features and Enhancements

The initiation of a process by monitoring for a specific file is now possible also using a manifest xml-file to trigger the process. (DST-851)

This is possible in the setup of both Standard Processes and Visual Processes.

The screenshot displays the configuration interface for a process in Monarch Server. The 'Monitoring' tab is active, showing the following settings:

- Enable
- Monitoring type:
 - Inputs
 - Manifests
- Manifest File Specifications:
 - DTS0003M | C:\MonarchServer\Files\Manifest\Process Start.xml

Below the main configuration, the 'Process triggers' section is visible, showing:

- Schedule
- Inputs monitoring
- Manifests monitoring
- Disable Triggers
- Path: \\DTS0003M\C\$\MonarchServer\Files\Manifest\ProcessStart.xml
-

This makes the configuration options for Monarch Server processes even more dynamic. A manifest xml-file can hold dynamically generated parameter values for each process run, and it can potentially be created dependent on external pre-processing conditions.

An option is added for triggered Visual Processes, to define if the process gets disabled or not upon an error. This is implemented in a similar way as already possible for Standard Processes. (DST-878)

Process triggers

Schedule Inputs monitoring

- Browse
- Process inputs
- ▾ Options

Disable monitoring:

Always

Do not disable

The definition of Exception Dates has been enhanced so that parts of a day or selected weekdays can be excluded from schedules of chosen process types. This can be useful in order to exclude specific hours or days from when schedules are run, for example during regularly occurring system maintenance. (DST-916)

Exception Date

Name:

Description:

Suspended

Choose affected processes:

Custodian Processes

Filing Processes

Maintenance Processes

Notifications

Offline Processes

Standard Processes

Visual Processes

Execution Frequency:

OneTime Daily Weekly Monthly

Every day(s)

All Day

From: To:

Additionally, Filing Tasks is also included as a process type in the definition of Exception Dates. (DST-997)

2.4. Miscellaneous Minor Enhancements (including RMS)

The following minor enhancements provide additional general benefits to the uses of the Monarch Server.

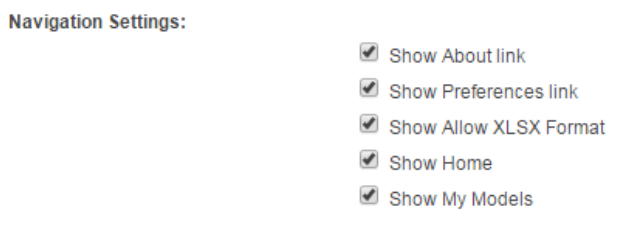
Features and Enhancements

The server license is now validated before a new Monarch Server installation can be performed. (DST-897)

As a general display option, for all lists in the web clients, has the option to select 500 for Items Per Page been added. (DST-962)



The navigation settings for the RMS Client now includes options to hide the "My models" and "Home" tabs. (DST-1001)



Some general improvements have been made on the RMS Test API page. (DST-873)

Additionally, a series of performance improvements have been made for RMS in the following areas. Pagination added in lists with assigned controls; on Annotations, Saved Search, etc. (DST-965) Changes in cache logic for opening of views and pdf exports. (DST-969) Query improvements for the Storage Volume data grid. (DST-978)

2.5. Support for Latest Enhancements in Monarch 14.1

Users combining the Monarch Server 14.1 with latest available release of Monarch Complete, version 14.1, will benefit from all the latest features in Monarch Workspaces and Models also on the server.

Features and Enhancements

Among all the additions in Monarch desktop products the following are a few examples on what now is supported also in Monarch Server. For Workspaces: support for Classic Model nodes, enhancements in duplicate transformations and in merge of columns, file meta-data for other file types than pdf. For Classic Models: enhanced options in EBCDIC support.

2.6. Support for Microsoft 2016 Products

The continuous updates in supported platforms ensure a resilient system, which can be safely used today and also be supported in times ahead.

Features and Enhancements

Monarch Server v14.1 now supports all the relevant products from the Microsoft 2016 version. The server can safely be deployed on Windows Server 2016, the application can be deployed using SQL Server 2016 as the database, and Excel and Access files saved with Microsoft Office 2016 can be read on the server. (DST-808, DST-862, DST-426)

However, the database version distributed with the installers is still SQL Server 2014.

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 v14.1, 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

- It's impossible to connect Credentials item to Database input item (DST-753)
- Macro button doesn't have a tooltip throughout application (DST-809)
- The "Add data" value is available for "When output file exists" option in Tableau (.tde) and Qlik export types (DST-813)
- The validation message doesn't appear if the "Export to delimited text file" field is empty (DST-816)
- Bulk Edit, the parent item is selected after deselecting a child item (DST-853)
- The input file check is not performed for Visual Process, which is migrated from Standard process (with Retry option) (DST-881)
- Intermittent, not definitive error occurs with jobs generated by PumpCmd (DST-981)
- Bulk Edit, checking visual process check box does not look for other enable/checked bulked edit objects; only visual process results returned (DST-988)
- Automator Exception Date typo (DST-990)
- Automator: remove obsolete ODBC Mode on DB Input element (DST-993)
- "Test Connection" fails for a valid Connection definition (DST-994)
- Cannot create Standard Process with Project, which contains apostrophe symbol in name (DST-999)
- External Lookup linking fields does not show if there are multiple linking fields (DST-1002)
- VPD: the connections between the items aren't displayed after collapse of the group item (DST-1007)
- VPD: there is script error after inserting visual process of a certain type as group (DST-1008)
- VPD: it's impossible to select monitoring file using Browse section (DST-1009)
- PDF to CSV Export Does Not Complete (DST-1012)
- Query running against large Visual Process log tab causing spikes and lockup with large CPU consumption: up to 100% (DST-1032)
- The Workspace is not added to Server Library with replaced input after changing the existing name (DST-1033)
- VPD: it's impossible to open specific visual process in IE (DST-1035)
- The Content field of imported Server Library items is empty (DST-1036)
- VPD: the table name doesn't display in the properties of database input after the input file was changed and the process was performed again (DST-1038)
- Unable to open specific process after loading (DST-1041)
- Node execution error in Monarch Server 14 (DST-1047)
- Add ability to import/export Visual Process with Visual/Standard Processes items (DST-1048)
- Accessing Visual Process Causes Browser to "hang" (DST-1049)
- Process run repeats itself within seconds without any retries configured in its setup (DST-1050)
- Classic Model node in Workspace cannot be edited in Automator (DST-1051)
- Specific script with email distribution attaching same email twice (DST-1056)
- It is impossible to upload input file to Workspace (DST-1063)

- Schedules turning to "Yearly" after upgrade to 13.5.X patch releases (DST-1066)
- The Web model is returned inconsistently (DST-1067)
- There is an exception after editing table info for Workspace (DST-1072)
- VPD: The extra information is displayed on the Process Triggers form (DST-1073)
- VPD: Some connections are not fully visible (DST-1082)
-

3.2. Content and Report Mining Editions

- Error in the Log file after opening views with report which has 0k size in RMS Client (DST-866)
- Update of PostEdge (Broadridge) security interface to be compatible with 5.2 interface (DST-996)
- Several annotations are created if pressing Save button several times (DST-1003)
- The models are deleted upon RMS session expiration (integrated with CMOD\ICN) (DST-1006)
- Document Search with list larger than can be displayed on screen, scrolling to bottom and selecting doc results in the list jumping back to the top (DST-1045)
- The sort order by document name is not retained when results of max number of records returned are limited by user preferences in MS Admin configuration (DST-1058)
- Hyperlinks to HELP/About/Preferences is unclickable when window is resized or zoomed out (DST-1094)
- The News section on the Client My home tab does not display with wrapped text (DST-1098)
- Unable to select Save button on User Preferences (MSClient) when using low resolution (DST-1101)

3.3. General

- Installer fail to complete Config Service startup running out of default startup timeout (DST-871)
- DataPump Host "Datawatch SDK Settings" Change Doesn't Save (DST-984)
- Not possible to add Location to list in the Configurator on a new database (DST-1079)

4. Known Issues

The following known issues will be fixed in the next patch on Monarch Server, 14.1.1.

- The option (magnifying glass icon) for full text search is disabled in Document Search if the Monarch Server license has Redaction feature enabled (DST-1114, DST-1141)
- Document Search runs in error when search returns excessive numbers of documents (DST-1106)
- Application is not validating its input for syntax and length, as required by Secure Architecture and Coding Standard (DST-1119)
- Issue retrieving non-consecutive documents using shift-select option in a document list (DST-1149)
- Specific content in Workspace causes Chrome to "run out of memory" in Visual Process (DST-1154)
- Performance Issue on First Startup of Automator (DST-1165)

The 14.1.1 patch is targeted to be available by end of May 2017.

The following known issues are planned to be fixed in the next release of Monarch Server, version 14.2.

- The value of Next Execution is incorrect if selecting Daily as Execution Frequency (DST-514)
- Incorrect setup of log path during installation (DST-750)
- Distribution search feature does not work in Automator (DST-791)
- System Reports: Excel error when try to open an exported report (DST-1096)
- RMS: "Datawatch SDK export storage is unavailable" error on Dynamic and Data View (DST-1156)
- Processing multiple files in Visual Process with verification step using file input processing "individually" is not different from "group" processing (DST-1089)
- Problem with weekly process schedule (DST-1090)

Monarch Server v14.2 is target to be available in September 2017.