



Altair[®] Monarch Server[™] v2025.0 INSTALLATION GUIDE

TABLE OF CONTENTS

Monarch Server System — Server Installation	1
Software Requirements	1
Hardware Requirements	2
Recommended Software Versions	
Before You Begin	3
Distributable and Non-distributable Components	
Database Server Preparation	4
Installer Preparation	5
Monarch Server Installation	5
Single Server Installation	6
Distributed Installation	19
Server Post-Installation Actions	21
Configuring SSO	21
Setting User Session Timeout	25
Setting Administrator Password and E-mail Address	
Client Installation	26
Software Requirements	26
Installation Maintenance	27
Adding or Removing Components	27
Repairing a Damaged Installation	
Removing All System Components	
Upgrading Installation	
Upgrading Using Multi-installer	
Configuring Software to Work with Monarch Server	
Configuring Web Services	
Configuring Web Applications	44
Client	44
RMSClient	44
Admin	45
System Configuration	46

Starting Configurator	46
Connecting to Configurator	46
Backing Up CONFIG.XML	47
Configuring Instances	49
Creating an Instance	49
Creating a New Database	52
Updating Database	53
Managing Locations	54
Migrating Data	55
RMS Migration	57
Unlocking System Administrator	57
Configuring Servers	59
Managing Server Modules	64
Configurator Settings	67
Global Settings	68
Configuring Global License Settings	71
Configuring Modules	75



MONARCH SERVER SYSTEM — SERVER INSTALLATION

This document describes how to install Monarch Server system components on your servers.

SOFTWARE REQUIREMENTS

Server software:

- Interpretation Interpretatio Interpretation Interpretation Interpretation Inte
- SQL Server 2016/2017/2019/2022 (if the Monarch Server database is present on the local machine)

NOTE You have the option to deploy SQL Server Express 2019 and SQL Server Management Studio 18 (64-bit installation only).

SQL Server Express is only suitable for RMS or Automator; it is not viable for instances servicing Report Warehouse functionality.

If SQL Server is not installed on the Common Components server, then a basic installation of SQLClient and SQLCMD is required.

Operating systems:

- Windows Server 2016 (IIS 10.0)
- □ Windows Server 2019 (IIS 10.0)
- □ Windows Server 2022 (IIS 10.0)

NOTE Core versions of the above operating systems are NOT supported.

Additional system software components:

The following components are installed automatically by the installation program if they are not present on the machine. You may consider installing them at the most convenient time (for example, a scheduled maintenance window) as the installation may require system reboots.

- INET framework 4.8
- Microsoft Access 2013 Runtime
- Microsoft SQL Command Line Utilities 15 for SQL Server (if the Monarch Server database is not present on the local machine)
- Microsoft ODBC Driver 17 for SQL Server (if the Monarch Server database is not present on the local machine)

SQL 2019 Local DB

NOTE More information on SQL 2019 Local DB can be found here: <u>https://learn.microsoft.com/en-us/troubleshoot/sql/releases/sqlserver-2019/cumulativeupdate30</u>.

Client software:

- One of the following browsers:
 - Mozilla Firefox
 - Google Chrome
 - Microsoft Edge (Chromium)
 - NOTE Each release of Monarch Server is tested with the latest publicly available browser versions available at that time. Due to the frequency of browser version updates, Altair does not include specific browser version numbers in the system requirements. In case of changes in browser functionality affecting UI functionality, Altair will address the same as part of a subsequent patch release.

HARDWARE REQUIREMENTS

Processors:

Recommended: Multi-core or multi-processor Intel Xeon 2 GHz w/ 2 MB cache (or better)

Memory:

Recommended: 16 GB RAM or greater

Network Adapter:

Recommended: Ethernet 100 Mbps or higher (Gigabit recommended)

Hard drive:

- Recommended: 100 GB or more (depending on processing requirements, report sizes, number of active concurrent users, mining types). Disk performance has a significant influence on application scalability and viewing response.
 - NOTE Additional disk space may be required if leveraging Monarch Classic-based processes. The requirement depends on the number of concurrent processes and the data volumes being processed by each and subsequent configurations of the SDK Database. Altair Support can assist with identifying the space considerations in such instances.
 - Monarch Server is a distributed application. Typically, better functionality is obtained by deploying 1+ servers as opposed to increasing the resource of a single server. Altair Support can assist with advising on options to address aspects such as performance, failover, and high availability.

Monitor:

□ Recommended: Screen resolution of 1920 × 1080 (or 1366 × 768 for wide screens)

RECOMMENDED SOFTWARE VERSIONS

The following software versions are recommended for the Monarch Server System.

SOFTWARE	VERSION
Metadata database: MS SQL Server	2019
Application server: Operating System IIS NET Framework	 Windows Server 2019 10.0 4.8
For end users: Browser	Google Chrome

BEFORE YOU BEGIN

Before you begin the installation process, you should plan the setup of your Monarch Server System in a manner suited for your tasks.

Distributable and Non-distributable Components

Monarch Server System is a *distributable* system. This means that different *components* of the system can be installed on different machines within a network. There are two types of components: distributable and non-distributable.

Each of the non-distributable components can be installed only once per Monarch Server system.

Distributable components can be installed several times on different computers to form a desired configuration of the Monarch Server system that is tailored to your requirements.

The system consists of five main components:

- Configuration Service
- Agent Service
- Services
- Web Applications (Admin, Client, and RMSClient)
- Repository

The **Configuration Service** is a non-distributable component. Install only one instance of the **Configuration Service** per sold copy.

The **Agent Service** is a distributable component. It should be installed on every server used for MS installation. All instances of **Agent Service** use one **Configuration Service**.

The Agent Service launches the following services:

- Datawatch.Config.ConfigServer.exe
- Datawatch.ModulesManagement.Agent.exe
- Datawatch.RemoteServices.AdminServicesHost.exe
- Datawatch.RemoteServices.ClientServicesHost.exe
- Datawatch.RemoteServices.FilingDispatcherServiceHost.exe
- Datawatch.RemoteServices.MaintenanceDispatcherServiceHost.exe
- Datawatch.RemoteServices.NotificationsDispatcherServiceHost.exe
- Datawatch.RemoteServices.VolumeServicesHost.exe
- Datawatch.RemoteServices.DataPumpDispatcherServiceHost
- Datawatch.RemoteServices.DataPumpServicesHost
- Datawatch.RemoteServices.DataPumpStorageServicesHost
- Datawatch.ModulesManagement.Agent.exe
- Datawatch.RemoteServices.RMSClientServicesHost.exe
- Datawatch.RemoteServices.RMSContentServiceHost.exe

These services can run on different servers.

The **Web Applications** is a distributable component. It can be installed several times on different computers according to the number of instances.

The **Repository** is a distributable component. It can be installed on different computers. In most cases, only one instance of **Repository** should be installed.

Database Server Preparation

When the Database Service component is chosen during the installation, the setup will create the Monarch Server database on the database server. You will need to have a special database user that will be used by the Monarch Server setup for database creation and under which Monarch Server will further connect to the database.

SQL Server

There are two levels of security that may be set for the Monarch Server database user in SQL Server. They differ in partitioning maintenance task support.

In a Monarch Server database, servicing Report Warehouse functionality, all report-related data are partitioned by date ranges, and each partition can be managed separately — backed up, removed, joined with another partition, etc. For Monarch Server to perform these operations automatically, partition maintenance tasks were designed.

For these tasks to function properly, the Monarch Server database user will require more rights. This requirement may be considered unsecure in some environments, particularly when the database server is used for several databases and not only for Monarch Server. In this case, these rights may be assigned temporarily as the partitioning maintenance task is performed. Another option is to perform partitioning maintenance operations manually.

For setup to create the Monarch Server database — and support the partitioning maintenance task functionality — you will need the **Database Creators** server role to be assigned to the user.

NOTE

This role will allow the user to destroy any database in the system (without reading data). Thus, it is recommended to assign this role only during the time of installation

and during partitioning maintenance task operations.

To create the user, login to the database server under System Administrator (sa) user, and execute the following commands:

exec sp_addlogin 'ES_LOGIN', 'ES_PASSWORD' exec sp_adduser 'ES_LOGIN', 'ES_USER' exec sp_addrolemember 'db_ddladmin', 'ES_USER' exec sp_addrolemember 'db_datareader', 'ES_USER' exec sp_addrolemember 'db_datawriter', 'ES_USER' exec sp_addsrvrolemember 'ES_LOGIN', 'dbcreator'

If you decide to disable the **Database Creator** role after the Monarch Server database is created (i.e., after installation is complete), you will need to issue the following command under System Administrator:

```
exec sp dropsrvrolemember 'ES LOGIN', 'dbcreator'
```

NOTE The db_owner role may be removed, and the db_executor role may be added. If the db_executor role does not exist, it may be created as follows:

```
CREATE ROLE db_executor
GRANT EXECUTE TO db_executor
EXEC sp_addrolemember 'db_executor','ES_USER'
```

Installer Preparation

Depending on a computer's local security policies and configuration, the execution of downloaded files might be blocked. In particular, when downloading a file through a Windows OS to an NTFS partition, the Windows OS considers this file as an attachment by default. As a result, the opening, unpacking, or execution of the file is "blocked," resulting in errors. To avoid the installer file of Monarch Server from being blocked, the following steps are recommended.

To unblock the installer file after download

- 1. Find the ZIP file of the Monarch Server installer.
- 2. Right-click on the ZIP file and select Properties in the context menu.
- 3. Navigate to the **Security** section of the **General** tab in the **Properties** window. Find the **Unblock** check box beside the text "This file came from another computer and might be blocked to help protect this computer."
- 4. Select the Unblock check box to activate it.
- 5. Click OK to apply the change.

MONARCH SERVER INSTALLATION

You need to start NetTcpPortSharing in Windows Services if the application uses TCP (by default).

1. Click Start, point to Administrative tools, and double-click Services.

- 2. Right-click on NetTcpPortSharing, and select Properties.
- 3. In the Startup type drop-down list, select Automatic, and click OK.

Next time you start Windows, the service will be started automatically.

It is recommended that you stop Internet Server Services before you begin the installation.

You must be logged on as a local administrator on the machine where you are going to install the Monarch Server system, or the UAC should be turned off during the installation process.

NOTE If some system files are to be replaced during the installation, you will see a message informing of a Windows restart requirement at the end of the installation.

Open the directory with the installation files, and check whether it contains the license file labeled as "ds.lic." If not, copy this file from the original Monarch Server installation media to the directory from which you are going to install Monarch Server.

NOTEIf the configuration machine name in the license file is not the same as the machine
name of installation, the warning message is displayed: "Config machine name in
license does not match current machine name. Config service will not start properly."
You can proceed with the installation.For the recent versions of Monarch Server, you can proceed with the installation
without a license. The licensing can be configured after completing the installation.
Details are available here.

Single Server Installation

1. In the directory with the installation files, double-click **MonarchServerv2025x64.msi** in case of 64-bit Windows to launch the Monarch Server Setup Wizard.



Click Next.

2. The End-User License Agreement dialog box appears.



If you agree to the license terms, select the check box below the text, and click Next.

3. The Custom Setup dialog box appears.

Custom Setup Select the way you want features to be installed.			
Click the icons in the tree below to change the	way features will be installed.		
Configuration Service			
	This feature requires 8KB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 798MB on your hard drive.		
L	Browse		
Re <u>s</u> et Disk <u>U</u> sage	Back Next Cancel		

You can select the following components to be installed:

- Configuration Service manages the system configuration and tracks license agreements. It can serve
 more than one instance. In most cases, only one instance of Configuration Service should be installed.
- Agent Service manages services (modules) on a particular server. It should be installed on every server used for MS installation.
- Repository is a folder containing module packages. A package is a 7-Zip archive containing all assemblies required by a module. In most cases, only one instance of Repository should be installed.

Click Next.

4. The **Destination Folder** dialog box appears.

Destination Folder Click Next to install to the default folde	r or click Change to choose another	
Install Monarch Server 2025.0 to:		
C:\Program Files\Datawatch\Datawatch S	Server\	
<u>C</u> hange		
	Back Next Cancel	I

Click Next to install Monarch Server in the default folder, or click Change to select another folder.

5. The **Config properties** dialog box appears.

Config properties Please enter Config properties	
Repository: C:\Program Files\Datawatch\Datawatch Server\Repository\	
Back Next	Cancel

Set the following properties:

• In the **Repository** field, specify the path to the folder where the **Repository** will be located.

Click Next.

6. The Agent properties dialog box appears.

Agent properties Please enter Agent properties	
Config Address (protocol://host:port):	
net.tcp://localhost	
✓ Start after installation	
	Back Next Cancel

Set the following properties:

- In the Config Address field, specify the address where the Configuration Service will run; 'localhost' should be replaced with the FQDN of your server (e.g., net.tcp//myserver.domain).
- Select the **Start after installation** check box if you want the **Agent Service** to start immediately after the installation.

Click Next.

7. The **Service account** dialog box appears.

Service account			
Please enter service account details.			
Specify the logon account for MS services.			
Use "Local System Account"			
Account name (Example: domain\user or user@	domain):		
NT AUTHORITY\SYSTEM			
Password:			
	<u>B</u> ack	<u>N</u> ext	Cancel

Select the Use "Local System Account" check box if you want to use a local system account.

Otherwise, clear the check box and specify a custom user in the Account name box.

NOTE In case of a <u>distributed installation</u>, if you specify a custom user in the **Account name** field, **NTLM** authentification is applied.

8. The Export Properties dialog box appears.

Export properties	
Please enter export storage settings.	
Specify the export storage settings.	
Use LocalDB	
	Back Next Cancel

Specify the export storage settings:

- Select the **Use local DB** option if you want to use a local database as an export storage.
- Select the Use custom database option if you want to use a custom database as an export storage, and then specify its parameters:
 - Server name
 - Authentication credentials: user name and SQL password. If you want to use Windows authentication, select the corresponding check box.

NOTE Using a custom database means Monarch Server will need to be able to create/destroy work databases dynamically. Contact Altair Support for further information and guidance if required.

Click Next.

9. The following dialog box appears.

Ready to install Monarch Serve	r 2025.0
Click Install to begin the installation. C installation settings. Click Cancel to ex	lick Back to review or change any of your kit the wizard.
[Back Install Cancel

Click **Install** to begin the installation.

10. After the installation is complete, the following dialog box appears.

	Completed the Monarch Server 2025.0 Setup Wizard Click the Finish button to exit the Setup Wizard.
🛆 ALTAIR	Launch Configurator

Select the Launch Configurator check box to run the Configurator immediately. Click Finish to exit the Setup Wizard.

Now you can access the following options via the **Start** menu, under **All Programs**, **Monarch Server**, **Monarch Server**,

- Run Agent Service in console mode
- Run Configuration Service in console mode
- Run Configurator
- Uninstall

Creating Instances

You can create instances using the Configurator tool.

The Configurator will launch immediately after installation if you select the corresponding check box.

NOTE You can run it manually by selecting the **Run Configurator** option on the **Start** menu.

To create an instance

1. From the drop-down list in the top right corner in the **Monarch Server Configurator** window, select the domain server name and port where the **Configuration Service** runs, and click **Connect**.

Altair® Monarch® Server	net.tcp://localhost	▼ Connect
Dashboard Configurator Settings		Success
MonServ13-5 Modules: 14 / 14	CPU cores available to the system 1.	View Ut
		lization
	[Collect Logs
Ready		

NOTE The default service URI can be net.tcp://localhost. However, the **Configuration Service** can be launched on any computer. In this case, the URI should contain the domain server name.

2. Select the **Configurator** tab, and click the **Instances** tab.

Altair® Monarch® Ser	ver	•	net.tcp://localhost	▼ Conn
Dashboard Configurator Settings				Suc
Servers Instances Modules Global Set	tings			
Add new Instance	- Global Settings -			
Instance	Server name:	localhost	User:	
DefaultInstance	Database name	MS135	Password:	
	Encrypt Cor	nnection String	✓ Integrated Set	ecurity
			Test	Connection Database operation
	Instance Priority	0		
	-Instance Licens	e Settings		
	Instance Licens	e:		Browse
	- Encryption			
	Enabled			
				Browse
	Symmetric:	C:\Program Files\Datawat	ch\Datawatch Server\Config\priv	/ate_SHA1.key Browse
	Asymmetric:	C:\Program Files\Datawat	ch\Datawatch Server\Config\pub	blic_DSA_xml.key Browse
	RMS Symmetri	c: C:\Program Files\Da	tawatch\Datawatch Server\Confi	g\private_SHA1.key Browse
	RMS Asymmet	ric: C:\Program Files\Da	tawatch\Datawatch Server\Confi	g\public_DSA_xml.ke Browse
	Use All Serve	ers		
Backup Config File				Clear Apply
Ready				

3. Under **Global Settings**, specify the connection string parameters: server name, database name, user, and password. Click **Test Connection**. You will be prompted to update the database.

NOTE Select the **Integrated Security** check box if you want to access SQL Server via Windows Authentication. This option is based on the context of the user running the Configurator application and NOT the Config Service.

If there is no database with the specified name, a message will appear asking if you want to create a new database.

Note that you need to configure a valid license to make any database operations.

- 4. Under **Instance License**, specify the path to the license file.
- 5. Click Apply.
- 6. If you want to create several instances, each using its own database, click the **Add new Instance** button, type the new instance name, and specify the parameters described in Step 2.

NOTE For additional information about setting instance parameters, click <u>here</u>.

Installation of Web Applications

You need to install the Admin and Client applications for each instance.

- 1. Go to the directory with the installation files and double-click **Web.Installer.exe**.
- 2. In the **Monarch Server Web Installer** dialog box, type the instance name (or leave the field empty if you plan to install only one instance), and click **Install**.

Welcome t Installer	Welcome to the Monarch Server Web Installer		
Instance Name:	DefaultInstance		
	MonarchServerWebv2025x64.msi		
	Install Cancel		

NOTE If you install only one instance, double-click **MonarchServerWebv2025x86.msi** (or **MonarchServerWebv2025x64.msi** in case of 64-bit Windows) to launch the Monarch Server Web Setup Wizard.

3. The Setup Wizard dialog box appears. To proceed, click Next.

	Welcome to the Monarch Server Web 2025.0 - Instance 1 Setup Wizard		
	The Setup Wizard will install Monarch Server Web 2025.0 - Instance 1 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.		
🛆 ALTAIR			
	Back Next Cancel		

4. The End-User License Agreement dialog box appears.

Datawatch Corpo Conditions	oration Enterprise Li	cense Order Ag	greement Terms	and ^
Datawatch Corpo Enterprise Licens "Licensee") agree	oration ("Datawatch e Order Agreement e as follows:	") and the party (the	y identified on t	his
1 LICENSE GRA	NT: Pursuant to this	Enterprise Lic	ense Order Agr	reement
Terms and Condi ("Datawatch") gr	tions (the "License ants Licensee the fo	Agreement''), I Mowing non-ex	clusive, non-as	signable,

If you agree to the license terms, select the check box, and click Next.

5. The **Custom Setup** dialog box appears.

Custom Setup Select the way you want features to be installe	ed.
Click the icons in the tree below to change the w	vay features will be installed.
Administrator Content Client RMS Client	This feature requires 8KB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 87MB on your hard drive.
	B <u>r</u> owse
Re <u>s</u> et Disk <u>U</u> sage	Back Next Cancel

Select the components to be installed. For single server installation, install all the components. Click Next.

6. The Web Applications properties dialog box appears.

Veb Applications Please enter Web /	properties Applications properties
Site:	
Default Web Site	
Virtual Folders:	
Administrator:	MSAdmin
Content Client:	MSClient
RMS Client:	RMSClient
Port:	Pool:
80	ASP.NET v4.0
	Back Next Cancel

In the **Site** field, specify the site name where the Web applications will be installed.

NOTE Select this site name from those listed in the Internet Information Services (IIS).

Under Virtual Folders, specify the names of the virtual folders for Administrator, Client, and RMS Client.



In the **Port** field, specify the port where the IIS runs.

In the **Pool** field, specify the name of the application pool to be used by the Web applications.

Click Next.

7. The **Config properties** dialog box appears.

Config properties Please enter Config properties
Admin Config Address (protocol://host:port)
net.tcp://localhost
Client Config Address (protocol://host:port)
net.tcp://localhost
RMS Client Config Address (protocol://host:port)
net.tcp://localhost
Back Next Cancel

In the **Admin Config Address** field, specify the address where the Configuration Service runs for the Admin application.

In the **Client Config Address** field, specify the address where the Configuration Service runs for the Client application.

In the **RMS Client Config Address** field, specify the address where the Configuration Service runs for the RMS Client application.

Click Next.

8. The following dialog box appears.

Ready to install Monarch Server Web 2025.0 - Instance 1				
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.				
Back Install Cancel				

Click Install to begin the installation of the chosen applications.

9. After the installation is complete, the following dialog box appears.

	Completed the Monarch Server Web 2025.0 - Instance 1 Setup Wizard Click the Finish button to exit the Setup Wizard.			
🛆 ALTAIR				
	Back Einish Cancel			

Click Finish to exit the Setup Wizard.

Changing the Account

To change the account

- 1. Click Start, select Control Panel, and point to Administrative Tools.
- 2. Double-click Services.
- 3. Double-click Monarch Server Agent Service.
- 4. Select the Log On tab and specify account properties.



5. Click **OK** to save the changes and start the service.

Distributed Installation

All installation steps for single server installation are valid for distributed installation with the following remarks:

In Step 7, in the Service account dialog box, you specify the logon account for MS services. If you specify a custom user in the Account name field, NTLM authentification is applied.

The following table provides details on the interaction of services in case of distributed installation.

Server Client	Local User	Local System	Domain User	Domain Machine
Local User	NTLM	NTLM	NTLM	NTLM
Local System	Anonymous NTLM	Anonymous NTLM	Anonymous NTLM	Anonymous NTLM
Domain User	NTLM	NTLM	Kerberos	Kerberos
Domain Machine	NTLM	NTLM	Kerberos	Kerberos

- □ You may install **Client**, **Admin**, and **RMS Client** applications together or separately on any server allowed by your license.
 - Install Agent on each server.
 - Configure the list of services that should run on each server.

NOTE LOAD BALANCING

Every server tries to execute a task locally (with the tasks sorted according to execution time). It then checks the count of threads in the thread pool.

- If the thread count in the thread pool is the same across all servers, CPU utilization is >95% (check the Configuration Dashboard for the specific server for a given parameter or logs similar to "Server server_name utilization is percentage% processor time").
- If the thread pool lacks free threads (see logs similar to "Server server_name pump thread pool used used_number of pool_count (percentage%)"), the task being executed is forwarded to another server with low utilization.

To configure the list of services

1. Select the Run Configurator option from the Start menu.

The **Configurator** will be launched.

Altair® Monarch® Serve	er 🗙 net.tcp://localhost	Connect
Dashboard Configurator Settings		Success
Servers Instances Modules Global Settin	qs	
MonServ13-5	Add	new server
Modules Path:	В	rowse
Add new server module	Application Settings:	
ServerModule		
Web Admin	x	^
Web Client	x	
Web RMS Client	x	
Admin Host	x	
Client Host	x	
Volume Host	x	
Filing Dispatcher Host	x	
Maintenance Dispatcher Host	x	
Notifications Dispatcher Host	X	
Automator Host	x	
Automator Dispatcher Host	x	
Automator Storage Host	x	
RMS Host	x	
RMS Content Host	X	
		\sim
	Log Path:	
	В	lrowse
	Max Threader	
	Max Tilleaus,	
	0	
Backup Config File	Clear	Apply
Ready		

- 2. From the drop-down list in the top right corner in the **Monarch Server Configurator** window, select the domain server name and port where the **Configuration Service** runs, and click **Connect**.
- 3. Under the **Configurator** tab, select **Servers**, and configure the list of services that should run on each server.

NOTE If you use the **Active Directory** security provider:

- □ Launch the Admin Host using an account that has the permission to receive the Active Directory (AD) users list.
- Launch the Client Host using an account that has access to the AD.

SERVER POST-INSTALLATION ACTIONS

CONFIGURING SSO

To use SSO

1. Open Administrator.

NOTE In Monarch Server that is upgraded from previous versions (e.g., v13.2), the virtual folders could still be labeled as "DSAdmin" (or "DSClient"). In this case, use "DSAdmin" (or "DSClient") instead of "MSAdmin" (or "MSClient") to open the Admin (or Client) page.

- 2. Under the Navigation Tree, click Show Advanced Options.
- 3. Click on Rights and Privileges, and then choose Security Provider.
- 4. Under Security Providers, select Active Directory, and then select Show SSO.

Home > Security Provider		
My Home	Security Provider	
Report Warehouse	Parentin Devidence	
Automator	Security providers. (@ Active Directory	
RMS	O Default	
 Portlets 	Storap password provider	
Server Library	Enable Active Directory Group Lookup	
 Rights and Privileges 		
Security Provider	Sive Clear Cancel	
Roles		
User Groups		
Users		
Document State Groups		
 System Settings 		
News		
 System Reports 		
tiide advance		
NOTE	Mapping/aliasing of at least one administrator user is required. If there are no users mapped (MS and AD users are the same), the MS application is inaccessible without direct database modification of the Configuration table to the default state. To add an administrator user account, choose Users under Rights and Privileges in the Navigation Tree. In the <i>User</i> window, click on "+" to add a new user.	

In the User window, provide the necessary details. To check if the user account you are creating already exists, click on **Check User**. Do not forget to click **Save**.

Home > Users					
My Home <	User				
Report Warehouse					
Automator	Username:				
RMS	Full name:				
Server Library	Password:				
	Comm Password:				
 Rights and Privileges 	User Class:	Persistent			
Roles		Locked			
User Groups	Privileges:				
Users	Common privileges	Report Warehouse privileges	Automator privileges	RMS privileges	
System Settings	Administrator	Document search	Automator Administrator	RMS User	
Show advanced options	SubAdmin Rentlate	Save search Report search	Automator User Con Edit Seriets	RMS Administrator	
	C) Torbes	Delete document	Automator Light User		
		Download Original Report	Can Edit Schedules		
		Concatenate Original Reports			
		Create notification			
		See trustee list on save Annotation			
		See trustee list on save Search Add attachments to Annotations			
		Create Annotations for all users			
		Edit and delete Annotations			
		 See Annotations 			
	Members of				
	Save Clear	Save/Edit Cancel Copy Profil	e		

5. Modify the file **web.config** of the Administrator and Client applications (the paths are *C:Vinetpub\wwwroot\MSAdmin* and *C:Vinetpub\wwwroot\MSClient*, respectively).

NOTE This step is crucial. One simple mistake can result in serious application issues. To avoid potential problems, make a backup of the **web.config** file before making any changes.

a. Disable the following code:

```
<authentication mode="Forms">
    <forms loginUrl="~/Login/LoginRedirect" defaultUrl="~/Login/LoginIndex"
    cookieless="UseCookies" timeout="15" name=".ASPXFORMSAUTH"
    slidingExpiration="true"/>
    </authentication>
```

b. Enable the following code:

```
<authentication mode= "Windows" />
<authorization>
  <deny users="?" />
  </authorization>
```

- 6. Make sure that **Windows**, **ASP.NET Impersonation** authentication on IIS for the Administrator and Client applications is disabled.
 - a. Go to Start > All apps > Windows Administrative Tools > Internet Information Services (IIS) Manager.



- c. Go to MSAdmin > Authentication, and disable ASP.NET Impersonation status.
- d. Go to MSClient > Authentication, and disable ASP.NET Impersonation status.
- 7. Restart the Monarch Server Config and Monarch Server Agent Services, IIS.
- 8. On the login page of the Administrator and Client applications, click the SSO button.

- NOTE If you fail to define at least one administrator user and cannot login to the Administrator page, edit the Configuration table, and set the OptionValue of SecurityProvider to DEFAULT. The steps are as follows:

 - a. Open Microsoft SQL Server Management Studio.b. In the **Object Explorer** panel, click **Databases**, and choose the database you are using. (You may check the database name using the Monarch Server Configurator. Under Configurator, click the Instances tab. The Database Name is shown in the Global Settings window. Refer to the image below.)

rvers Instances Modules Global	Settings			
Add new Instance	- Global Setting	s		
istance	Server name:	localhost	User:	
efaultInstance	Database nar	me: MS135	Password:	
	Encrypt C	onnection String	 Integrated Security 	
			Test Connec	tion Database operation
	Instance Prior	ty 0		
	-Instance Lice	nse Settings		
	Instance Lice	nse:		Browse
	- Encryption -			
	Enabled			
				Browse
	Symmetric:	C:\Program Files\Data	awatch\Datawatch Server\Config\private_SH	A1.key Browse
	Asymmetric:	C:\Program Files\Data	awatch\Datawatch Server\Config\public_DS	A_xml.key Browse
	RMS Symme	tric: C:\Program Files	Datawatch\Datawatch Server\Config\priva	te_SHA1.key Browse
	RMS Asymm	etric: C:\Program Files	\Datawatch\Datawatch Server\Config\publi	c_DSA_xml.ke Browse
	✓ Use All Set	vers		

- Under Tables, right-click on dbo.configuration, and then choose Edit Top c. 200 Rows.
- Look for the OptionId "SecurityProvider," and then change its OptionValue d. to DEFAULT (case sensitive).

Jeee capitor en anna anna anna anna anna anna anna	WON	SERV 13-3.DVVC00.	configuration ×		
onnect * 🛃 🛃 🗏 🍸 💽 🏑		OptionId	OptionType	OptionValue	^
MONSERV13-5 (SQL Styver 12.0.2000 - N 🔨		PDFSplittingPa	0	5	
🖃 🚞 Databases 👘 🗒		ReportSizeLimit	2	10000	
System Databases		ReportSizeLimit	2	10000	
DWCHAutomator DWCHMonarchServer	•	SecurityProvider	0	DEFAULT	
🗉 🚞 Database Diagrams		ShowAnnotation	0	1	
🖃 🧰 Tables		SuspendMonit	2	0	
System Tables		Version	0	14.0	
File Lables Build Installed Indate		ViewDocument	0	20	
E dbo.AnnotationAttachme		ViewReportList	0	20	
dbo.Annottions dbo.Annottions dbo.Annottions dbo.Client/sinfes dbo.Client/sinfes dbo.Client/sinfes dbo.ContentRecognitionf dbo.ContentRecognitionf dbo.ContentRecognitionf dbo.ContentRecognitionf dbo.ContentRecognitionf dbo.ContentRecognitionf dbo.ContentRecognitionf dbo.ContentSystemInput dbo.ContentSystemInpu		ViewReportPages	0	5	
		ViewStructRows	0	20	
		ViewSummaryR	0	20	
		ViewTableRows	0	20	
		VisibleRowCount	2	25	=
		WebStartPage	0	NAV_A_MYHO	
	*	NULL	NULL	NULL	
	N.	4 55 of 66	b b (ii)		

SETTING USER SESSION TIMEOUT

The server provides two parameters that allow setting up a timeout period, after which user sessions within the application expire and need to be renewed. These parameters are stored in the file **web.config**, the path to which is:

C:\inetpub\wwwroot\MSAdmin(MSClient or RMSClient)

One parameter is located in the Session State mode **In Proc**; this parameter checks when the last request was sent. Session timeout period is the amount of time from the last request.

In the Monarch Server applications, the parameter used by the system is the one with the smaller value.

NOTE The following parameter is valid only for MSAdmin and MSClient.

The other parameter is located in the authentication mode **Forms**; this parameter checks the time of the last request from the user when half of the time defined in the parameter passes (for example, if the specified time is 10 minutes, the check will be performed after 5 minutes).

SETTING ADMINISTRATOR PASSWORD AND E-MAIL ADDRESS

Before you use the Monarch Server system, you should set the password and e-mail address for the administrator account.

- 1. Open a browser and type the MSAdmin address in the Address bar (for example, http://localhost/MSAdmin).
- 2. Log in using the default administrator account (the login name is "admin," the password is "password").
- 3. On the Navigation Tree, double-click Rights and Privileges, and select Users.
- 4. Click admin.
- 5. Type a password in the Password and Confirm Password boxes, and then click Save.
- 6. Click Save on the User page to save the changes.
- 7. On the Navigation Tree, double-click **System Settings**, and select the **Application Settings** tab on top of the page.
- 8. Enter a valid e-mail address in the Administrator E-mail Address field.
- 9. Click Save.

CLIENT INSTALLATION

No special client installation is required. The user needs the following:

- One of the following browsers:
 - Mozilla Firefox
 - Google Chrome
 - Microsoft Edge

NOTE Each release of Monarch Server is tested with the latest publicly available browser versions available at that time. Due to the frequency of browser version updates, Altair does not include specific browser version numbers in the system requirements. In case of changes in browser functionality affecting UI functionality, Altair will address the same as part of a subsequent patch release.

SOFTWARE REQUIREMENTS

Monarch Server was tested with the following client browsers and operating systems:

SOFTWARE	VERSION
Operating System:	
Windows	Windows Server 2016 (IIS 10.0 v1709)
	Windows Server 2019 (IIS 10.0 v1809) + Core Edition
Browsers: Google Chrome Mozilla Firefox Microsoft Edge	NOTE : Each release of Monarch Server is tested with the latest publicly available browser versions available at that time. Due to the frequency of browser version updates, Altair does not include specific browser version numbers in the system requirements. In case of changes in browser functionality affecting UI functionality, Altair will address the same as part of a subsequent patch release.

INSTALLATION MAINTENANCE

This section describes how to add/remove Monarch Server components on a computer and how to repair a damaged installation.

NOTE

You must shut down Monarch Server application and the Web application engine before you attempt to do any of the tasks below.

ADDING OR REMOVING COMPONENTS

NOTE

Adding/removing components via **Add/Remove Programs** will not work in the multiinstance mode. In this case, perform this operation manually.

1. Run the **MonarchServerv2025x86.msi** file from your installation media (**MonarchServerv2025x64.msi** in case of 64-bit Windows), or use **Add/Remove Programs** in the system's **Control Panel**. The Monarch Server Setup Wizard is launched.

Welcome to the Monarch Server 2025.0 Setup Wizard
The Setup Wizard allows you to change the way Monarch Server 2025.0 features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back Next Cancel

Click Next.

2. A dialog box appears with the following options.

Change, repair, or remove installation Select the operation you wish to perform.
Change Lets you change the way features are installed.
Repair Repairs errors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries.
Remove Monarch Server 2025.0 from your computer.
<u>B</u> ack <u>N</u> ext Cancel

Click the Change button.

3. The **Custom Setup** dialog box appears.

Custom Setup Select the way you want features to be installe	d.
Click the icons in the tree below to change the w	ay features will be installed.
Agent Service	This feature requires 0KB on your hard drive. It has 0 of 3 subfeatures selected. The
	subfeatures require 0KB on your hard drive.
Reget Disk Usage	Back Next Cancel

Select the components you want to install, or deselect the components you want to remove. Click Next.

4. The **Destination Folder** dialog box appears.

Destination Folder Click Next to install to the default folder or click Change to choose another
Install Monarch Server 2025.0 to:
C:\Program Files\Datawatch\Datawatch Server\
Change
Back Next Cancel

Click Next to install Monarch Server to the default folder, or click Change to select another folder.

5. The following dialog box appears.

Ready to change Monarch Server 2025.0
Click Change to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
Back Change Cancel

Click **Change** to change the way features are installed.

6. When the maintenance is complete, the following dialog box appears.

	Completed the Monarch Server 2025.0 Setup Wizard
	Click the Finish button to exit the Setup Wizard.
ALTAID	Launch Configurator
	Back Einish Cancel

Click Finish to exit the Setup Wizard.

REPAIRING A DAMAGED INSTALLATION

The Repair function of the Setup Wizard repeats the last installation to replace missing or damaged files of the Monarch Server System. Use this option if you accidentally deleted some Monarch Server System files or if the Monarch Server System becomes unworkable due to damaged files.

NOTE	The Repair function removes all changes you made in property files or registry settings. Therefore, before beginning a repair, backup all property files and registry keys first.
	Do not try to work with the system registry if you are unfamiliar with it. Incorrect actions can render your system unusable.

To repair a damaged installation

- 1. Run the **MonarchServerv2025x86.msi** file from your installation media (**MonarchServerv2025x64.msi** in case of 64-bit Windows), or use the **Add/Remove Programs** shortcut in the system's **Control Panel**. The Monarch Server Setup Wizard is launched.
- 2. Click **Next** and select the **Repair** option. Follow the instructions on the screen. When the repair is complete, the corresponding message will appear.
- 3. Click Finish to exit the Setup Wizard.

REMOVING ALL SYSTEM COMPONENTS

This function removes all Monarch Server components and files installed on the computer.

To remove all system components

- 1. Run the **MonarchServerv2025x86.msi** file from your installation media (**MonarchServerv2025x64.msi** in case of 64-bit Windows), or use the **Add/Remove Programs** shortcut in the system's **Control Panel**. The Monarch Server Setup Wizard is launched.
- 2. Click **Next** and select the **Remove** option. Follow the instructions on the screen. When the operation is complete, the corresponding message will appear.
- 3. Click **Finish** to exit the Setup Wizard.

UPGRADING INSTALLATION

If you have the Monarch Server application v13.0/v12.5 installed on your computer, you need to remove the previous version of the application before installing Monarch Server v2025.0.

NOTE Before uninstalling the previous version, ensure that you are able to restore the original environment, either wholly (e.g., full server/resource backups) or at minimum; the backups of the Monarch Server database; and all file-based resources dependent on the RMS, Automator, and Report Warehouse functionalities being utilized.

To remove the previous version of Monarch Server

- 1. Run the **MonarchServerv13x86.msi** file from your installation media (**MonarchServerv13x86.msi** in case of 64bit Windows), or use the **Add/Remove Programs** shortcut in the system's **Control Panel**. The Monarch Server v13.0/v12.5 Setup Wizard is launched.
- 2. Click **Next** and select the **Remove** option. Follow the instructions on the screen. When the operation is complete, the corresponding message will appear.
- 3. Click Finish to exit the Setup Wizard.

You also need to remove the previous version of Web Installation.

To remove the previous version of Web Installation

- 1. Run the **MonarchServerWebv13x86.msi** file from your installation media (**MonarchServerWebv13x64.msi** in case of 64-bit Windows), or use the **Add/Remove Programs** shortcut in the system's **Control Panel**. The Monarch Server Web v13.0/v12.5 Setup Wizard is launched.
- 2. Click **Next** and select the **Remove** option. Follow the instructions on the screen. When the operation is complete, the corresponding message will appear.
- 3. Click Finish to exit the Setup Wizard.

After performing these steps, you need to run the version installation as specified in the <u>Single Server Installation</u> section of this guide.

If you have the **distributed** installation of Monarch Server v13.0/v12.5, you need to remove the application and Web Installation from all servers. Then, you need to run the version installation as specified in the <u>Distributed Installation</u> section of this guide.

NOTE

Before uninstalling the previous version, you can back up the config.xml file and web.config files to use some settings from these files after the installation of Monarch Server v2025.0.

UPGRADING USING MULTI-INSTALLER

If you have the Monarch Server application v13.5 (or later) installed on your computer and launch the latest version's installer to upgrade it, it is NOT necessary to remove the previous installation.

To prepare for the upgrade

- 1. Backup the config.xml/web.config(s).
- 2. Close the Configurator.
- Stop the Application Pool (IIS) used by the MS web applications (MSAdmin, MSClient, RMSClient) or stop the sites where the web applications are deployed.

To upgrade to the latest version

- 1. Run **MonarchServerv2025x64.msi** or **MonarchServerv2025x86.msi**, whichever is applicable to the previous installation. Make sure that the license file is available in the same folder as the installer.
- 2. Proceed with the installation as usual (Steps <u>1–3</u>, <u>7</u>, and <u>9–10</u>, <u>Single Server Installation</u> section).
- 3. Stop the Monarch Server Agent service.
- 4. In Monarch Server Configurator, click the Configurator tab, and then click the Instances tab.
- 5. In the Instances tab, click the Database Operations button to launch the Database Operations window.
- 6. In the Database Operations window, click Update Database, and then close the window.
- 7. Click Apply in the Instances tab to save the changes.
- 8. After the upgrade, web.config reverts to the old state for the multi-installer. Thus, in each web.config, the version numbers should be manually changed as follows:
 - a. Copy the following content and open the corresponding web.config file (Admin, Client, RMS):

ADMIN

```
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
             <dependentAssembly>
                 <assemblyIdentity name="Microsoft.Practices.Unity"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
                  </dependentAssemblv>
             <dependentAssembly>
                 <assemblyIdentity name="Microsoft.Practices.Unity.Interception"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
                 </dependentAssembly>
             <dependentAssembly>
                 <assemblyIdentity name="Newtonsoft.Json"
publicKeyToken="30ad4fe6b2a6aeed" culture="neutral" />
                  <bindingRedirect oldVersion="0.0.0.0-13.0.0.0" newVersion="13.0.0.0" />
             </dependentAssembly>
             <dependentAssembly>
                 <assemblyIdentity name="Microsoft.Practices.EnterpriseLibrary.Common"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral" />
                 <bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="6.0.0.0" />
             </dependentAssembly>
             <dependentAssembly>
                 <assemblyIdentity name="Microsoft.Practices.Unity.Configuration"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
                  <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
             </dependentAssembly>
             <dependentAssembly>
                 <assemblyIdentity name="System.Web.Http"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
                  <br/>

             </dependentAssembly>
             <dependentAssembly>
                 <assemblyIdentity name="System.Net.Http.Formatting"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
                 <bindingRedirect oldVersion="0.0.0.0-5.2.7.0" newVersion="5.2.7.0" />
             </dependentAssembly>
```
```
<dependentAssembly>
<assemblyIdentity name="System.Web.Optimization"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-1.1.0.0" newVersion="1.1.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35"
culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-1.6.5135.21930"</pre>
newVersion="1.6.5135.21930" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebMatrix.Data"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages.Razor"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebMatrix.WebData"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral" />
        </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Razor"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="IronRuby" publicKeyToken="7f709c5b713576e1"</pre>
culture="neutral" />
        <br/><bindingRedirect oldVersion="0.0.0.0-1.1.3.0" newVersion="1.1.3.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Microsoft.Scripting"
publicKeyToken="7f709c5b713576e1" culture="neutral" />
        <br/><bindingRedirect oldVersion="0.0.0.0-1.1.0.30" newVersion="1.1.0.30" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Microsoft.Dynamic"
publicKeyToken="7f709c5b713576e1" culture="neutral" />
        <br/><bindingRedirect oldVersion="0.0.0.0-1.1.0.20" newVersion="1.1.0.20" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages.Deployment"
publicKeyToken="31bf3856ad364e35" culture="neutral" />
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="BundleTransformer.Core"
publicKeyToken="973c344c93aac60d" culture="neutral" />
        </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Datawatch.Core.Logging.Contracts"
publicKeyToken="47f651eeea82774c" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-16.0.0.88" newVersion="16.0.0.88"</pre>
/>
      </dependentAssemblv>
      <dependentAssembly>
        <assemblyIdentity name="Antlr3.Runtime"
publicKeyToken="eb42632606e9261f" culture="neutral" />
        </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Helpers"</pre>
publicKeyToken="31bf3856ad364e35" />
       <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
```

```
</dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="System.Web.WebPages"
publicKeyToken="31bf3856ad364e35" />
       <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
      </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="System.Web.Mvc"
publicKeyToken="31bf3856ad364e35" />
       <br/><bindingRedirect oldVersion="0.0.0.0-5.2.7.0" newVersion="5.2.7.0" />
      </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="Mono.Reflection"
publicKeyToken="0738eb9f132ed756" culture="neutral" />
       <br/><bindingRedirect oldVersion="0.0.0.0-2.0.0.0" newVersion="2.0.0.0" />
     </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="DelegateDecompiler"</pre>
publicKeyToken="93b26a10a04705bd" culture="neutral" />
       </dependentAssembly>
</assemblyBinding>
```

CLIENT

```
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
     <dependentAssembly>
       <assemblyIdentity name="System.Web.Http"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-5.2.7.0" newVersion="5.2.7.0"/>
     </dependentAssemblv>
     <dependentAssembly>
       <assemblyIdentity name="Microsoft.Practices.Unity"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
       </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="Microsoft.Practices.Unity.Interception"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
     <dependentAssembly>
        <assemblyIdentity name="Microsoft.Practices.EnterpriseLibrary.Common"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="6.0.0.0"/>
      </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="Microsoft.Practices.Unity.Configuration"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="System.Net.Http.Formatting"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-5.2.7.0" newVersion="5.2.7.0"/>
     </dependentAssembly>
     <dependentAssembly>
<br/><bindingRedirect oldVersion="0.0.0.0-1.1.0.0" newVersion="1.1.0.0"/>
     </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35"
culture="neutral"/>
       <bindingRedirect oldVersion="0.0.0.0-1.6.5135.21930"</pre>
newVersion="1.6.5135.21930"/>
     </dependentAssembly>
     <dependentAssembly>
```

```
<assemblyIdentity name="System.Web.WebPages.Razor"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Razor"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages.Deployment"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssemblv>
      <dependentAssembly>
        <assemblyIdentity name="Newtonsoft.Json"
publicKeyToken="30ad4fe6b2a6aeed" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-13.0.0.0" newVersion="13.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Datawatch.Core.Logging.Contracts"</pre>
publicKeyToken="47f651eeea82774c" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-16.0.0.88" newVersion="16.0.0.88"/>
      </dependentAssembly>
      <dependentAssemblv>
        <assemblyIdentity name="Antlr3.Runtime"
publicKeyToken="eb42632606e9261f" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-3.5.0.2" newVersion="3.5.0.2"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Helpers"
publicKeyToken="31bf3856ad364e35"/>
        <br/>
<bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages"
publicKeyToken="31bf3856ad364e35"/>
        <br/><bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssemblv>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Mvc"</pre>
publicKeyToken="31bf3856ad364e35"/>
        <br/><bindingRedirect oldVersion="1.0.0.0-5.2.7.0" newVersion="5.2.7.0"/>
      </dependentAssembly>
</assemblyBinding>
```

RMS

```
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
     <dependentAssembly>
        <assemblyIdentity name="Microsoft.Practices.Unity"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
     </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="Microsoft.Practices.Unity.Interception"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
     </dependentAssembly>
     <dependentAssembly>
       <assemblyIdentity name="Microsoft.Practices.EnterpriseLibrary.Common"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
       </dependentAssembly>
     <dependentAssembly>
        <assemblyIdentity name="Microsoft.Practices.Unity.Configuration"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
       <bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
```

```
</dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="ICSharpCode.SharpZipLib"
publicKeyToken="1b03e6acf1164f73" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-0.86.0.518"</pre>
newVersion="0.86.0.518"/>
      </dependentAssembly>
      <dependentAssembly>
<assemblyIdentity name="System.Web.Http"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Net.Http.Formatting"</pre>
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-5.2.7.0" newVersion="5.2.7.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Newtonsoft.Json"
publicKeyToken="30ad4fe6b2a6aeed" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-13.0.0.0" newVersion="13.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Optimization"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-1.1.0.0" newVersion="1.1.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35"</pre>
culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-1.6.5135.21930"</pre>
newVersion="1.6.5135.21930"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages.Deployment"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssemblv>
        <assemblyIdentity name="System.Web.Razor"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages.Razor"
publicKeyToken="31bf3856ad364e35" culture="neutral"/>
        <br/><bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Datawatch.Core.Logging.Contracts"
publicKeyToken="47f651eeea82774c" culture="neutral"/>
        <bindingRedirect oldVersion="0.0.0.0-16.0.0.88" newVersion="16.0.0.88"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="Antlr3.Runtime"</pre>
publicKeyToken="eb42632606e9261f" culture="neutral"/>
        </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Helpers"
publicKeyToken="31bf3856ad364e35"/>
        <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.WebPages"
publicKeyToken="31bf3856ad364e35"/>
        <bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Web.Mvc"
publicKeyToken="31bf3856ad364e35"/>
```

- b. In the web.config file, highlight the entire **assemblybinding** section and then paste the copied text from Step 8a to replace it.
- c. Save the changes and close the config file.
- 9. Run the Application Pool.
- 10. In the Services tool, restart Monarch Server Config Service, and start Monarch Server Agent Service to activate the update.

The upgraded version should now be available.

NOTE	Restart the server if requested during the upgrade.
	The initial load of the application may take a few seconds to deploy the update.
	This upgrade supports Monarch Server v13.5 or later.
	In case of distributed installation, MonarchServerv2025x64.msi may be used for every machine.
	MonarchServerWebv2025x64.msi or MonarchServerWebv2025x86.msi does not need to be run during the upgrade. Web applications are upgraded automatically. Only MonarchServerv2025x64.msi (MonarchServerv2025x86.msi) needs to be run.

CONFIGURING SOFTWARE TO WORK WITH MONARCH SERVER

CONFIGURING WEB SERVICES

If you install the Web Applications for the first time, you need to configure IIS in the following way.

To install IIS

- 1. Click Start, point to Administrative Tools, and then click Server Manager.
- 2. Under Roles, click Add Roles.
- 3. Select Web Server (IIS) on the Server Roles page.

	Add Roles and Features Wizard	
Select server roles Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more roles to install on the selected server. Roles Application Server DHCP Server DNS Server Fax Server Fax Server Fax Server Fax Server OHCP Services (2 of 12 installed) Hyper-V Network Policy and Access Services Dist and Decument Services	DESTINATION SERVER MonServ13-5 Description Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
	Print and Document Services Remote Access Remote Desktop Services Volume Activation Services Windows Deployment Services Windows Server Essentials Experience Windows Server Update Services Volume Activation Previous Next Previous Next Next Next	t > Install Cancel

- 4. Select the following services:
 - ASP.NET
 - .NET Extensibility
 - ISAPI Filters



If you use Windows Server 2012, select HTTP Activation of the .NET 4.5 WCF Services.

Ъ.	Add Roles and Features Wizard	_ D X
Select features Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Select one or more features to install on the selected server. Features	DESTINATION SERVER MonServ13-5 Description HTTP Activation supports process activation via HTTP. Applications that use HTTP Activation can start and stop dynamically in response to work items that arrive over the network via HTTP.
	< Previous Next	> Install Cancel

- 5. Register .NET Framework:
 - 32-bit %WINDIR%\Microsoft.Net\Framework\v4.0.30319\aspnet_regiis.exe -i
 - 64-bit %WINDIR%\Microsoft.Net\Framework64\v4.0.30319\aspnet_regiis.exe -i
- 6. In the IIS Manager, look up the **Identity** of the ASP.NET v4.0 application pool.

	- W						
File View Help							1 BARRET MARKE
Connections	Application Pools This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications. Filter:					Actions Add Application Pool Set Application Pool Defaults Application Pool Tasks Start	
	Name NET v4.5 ASP.NET v4.5 Classic ASP.NET v4.0 DefaultAppPool	Status Started Started Started Started	.NET CLR V v4.0 v4.0 v4.0 v4.0	Managed Pipel Integrated Classic Integrated Integrated	Identity ApplicationPoolIdentity ApplicationPoolIdentity ApplicationPoolIdentity ApplicationPoolIdentity	Applications 0 0 3 1	Stop Recycle Edit Application Pool Edit Application Pool Edit Application Pool Edit Application Pool Recycling Recycling Rename Rename Rename View Applications
	<	Content View	//	m		3	🔁 Help

- 7. Based on the **Identity**, give write permissions to the "%WINDIR%\temp" folder:
 - a. Right-click on the folder name and select **Properties**.
 - b. Select the Security tab and click Edit.
 - c. Select the **Modify** check box and click **OK**.

Object pame: C:\Windows\ter		
Object name. C. windows ter	np	
Group or user names:		
& CREATOR OWNER		
SYSTEM		
Administrators (MONSERV1	3-5\Administrators)	
Users (MONSERV13-5\Use	ns)	
IIS_IUSRS (MONSERV13-5	5\IIS_IUSRS)	
ę	Add	Remove
	A <u>d</u> d	<u>R</u> emove
Permissions for IIS_IUSRS	A <u>d</u> d Allow	<u>R</u> emove Deny
Permissions for IIS_IUSRS	A <u>d</u> d	Remove Deny
<u>P</u> ermissions for IIS_IUSRS Full control Modify	Add	Remove
Permissions for IIS_IUSRS Full control Modify Read & execute	Add	Remove
Permissions for IIS_IUSRS Full control Modify Read & execute List folder contents	Add	Remove Deny
<u>P</u> ermissions for IIS_IUSRS Full control Modify Read & execute List folder contents Read	Add Allow V V	Remove

- d. Click Add in the Security dialog box.
- e. Enter the pool identity name and click **Check Names** to look up available application pool identity names. Click **OK**.

L temp Properties 🗙				
🔐 Permissions for temp				
Security				
Object name: C:\Windows\temp				
Group or user names:				
Select Users or Groups	X		Select Users or Groups	x
Select this object type:			Selart this object type:	
Users, Groups, or Built-in security principals	Object Types		Users, Groups, or Built-in security principals	Object Types
From this location:			From this location:	
MONSERV13-5	Locations		MONSERV13-5	Locations
Enter the object names to select (examples):			Enter the object names to select (examples):	
ISS APPPOOL\ASP.NET v4.0	Check Names		ASP.NET v4.0	Check Names
Advanced	Cancel			
		· ·	Advanced OK	Cancel
		-		
OK Cancel Apply	J			

- 8. You can change the application pool identity if necessary.
 - a. In the **IIS Manager**, click the application pool name.
 - b. In the Actions pane, click Advanced Settings.
 - c. Under **Process Model**, select **Identity**, and click the (...) button.
 - d. Select another identity from the list, and click **OK**.

4 (General)		
NET CLR Version	v4.0	
Enable 32-Bit Applicatio	no Falce	
Managed Dineline Mod	e Integrated	
Managed Pipeline Mod		
Name	ASPINET V4/0	
Арр	lication Pool Identity	?
Built-in account:		
ApplicationPoolIdentit	y ,	~
LocalService		-
C LocalSystem		
NetworkService		E ak
ApplicationPoolIdentity	1	Set
	OK	Cancel
	UK	Cancel
Identity		
[identityType, username, pa	assword] Configures the appli	cation pool to r
as built-in account, i.e. App	lication Pool Identity (recomm	nended), Netwo
Service Local System Loca	I Service, or as a specific user i	dentity.
service, cocar system, coca		

- 9. To support SSL, you need to set up a certificate or create a self-signed certificate:
 - a. Open the **IIS Manager** and navigate to the level you want to manage.
 - b. In the Features view, double-click Server Certificates.
 - c. In the Actions pane, click Create Self-Signed Certificate.

d. On the **Create Self-Signed Certificate** page, type a friendly name for the certificate in the **Specify a** friendly name for the certificate box, and then click **OK**.

Internet Information Services (IIS) Manager	X
	0 2 A 0 .
MONSERVI3-5 Home Fare: - * * * * * * * * * * * * * * * * * * *	Oph Fature Marge Server Ratar. Stata
Internet Information Services (IIS) Manager	<mark>ء ت – ا</mark> 9 ت - س
Server Certificates Use this future to request and manage catificates that the Vitis server can use with velocitie. configure 46 SSL. Tame * T Ge - Grip then dil [Group by No Grouping * None None Issued To	Actions Import Create Certificate Request Complete Certificate Request Create Source Certificate. Create Source Certificate. Enable Automatic Related of Reserved Certificate
	Image: Comparison of Control and Strands Image:

- 10. Assign the certificate to a site:
 - a. In the **IIS Manager**, select a site.
 - b. In the Actions pane, click Bindings.
 - c. Click Add.
 - d. Select the Https type, select the certificate, and then click OK.

9	Internet Information Services (IIS) Manager	_ 🗆 X
(e) (i) MONSERV13-5 + Sites + E	Default Web Site 🔸	📴 🗟 🟠 i 😧 🔹
<u>F</u> ile <u>V</u> iew <u>H</u> elp		
Connections	Site Bindings ? X	Actions
Start Page	Add Site Binding	Explore Edit Permissions
	Type: IP address: Port: https v All Unassigned v 443 Host name:	Edit Site Bindings Basic Settings View Applications View Virtual Directories
	Require Server Name Indication SSL certificate	Manage Website () Restart Start Stop
4	Not selected v Select View	Browse Website Browse ":80 (http) Advanced Settings Configure
	Authentic Compression Default Directory Error Pages Handler Document Browsing Mappings	Vimits
Ready		€ <u>1</u> .:

CONFIGURING WEB APPLICATIONS

After installing Monarch Server v2025.0, you can manually edit some of the Clients applications' parameters in the web.config file.

CLIENT

The default path to the file is C:\inetpub\wwwroot\MSClient\web.config.

The parameters listed below are located in the <appSettings> of the MSClient.

The recording format of each of the parameters is as follows:

<add key="parameterName" value="parameterValue" />

PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
allowXformPdfView	Enable ES Style PDF View.	true
enableTrainingLink	Enable Lesson link.	true
ClientEndSessionRedirectUrl	URL to be opened on clicking to End Session link.	
usePdfSubgroupHeaders	Enable Subgroup Headers in PDF export from Dynamic View.	true
loginOutOnBrowserCloseEnabled	Enable immediate session termination when the browser or browser tab is closed.	false
loginOutOnBrowserCloseTimeout	Waiting time for the termination of current session after the browser or browser tab is closed.	5000 (ms)

RMSCLIENT

The default path to the file is C:\inetpub\wwwroot\RMSClient\web.config.

The parameters listed below are located in the <appSettings> of the RMSClient.

The recording format of each of the parameters is as follows:

<add key="parameterName" value="parameterValue" />

PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
userGroupName	Name of the group whose rights are applied to users when logging in to the RMS Client.	RMSGroup
exportPDFInSameWindowEnabled	Enable export to PDF in the current window.	true
usePdfSubgroupHeaders	Enable Subgroup Headers in PDF export from Dynamic View.	true
loginOutOnBrowserCloseEnabled	Enable immediate session termination when the browser or browser tab is closed.	false

PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
loginOutOnBrowserCloseTimeout	Waiting time for the termination of current session after the browser or browser tab is closed.	5000 (ms)

ADMIN

The default path to the file is C:\inetpub\wwwroot\MSAdmin\web.config.

The parameters listed below are located in the <appSettings> of the MSAdmin.

The recording format of each of the parameters is as follows:

<add key="parameterName" value="parameterValue" />

PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
loginOutOnBrowserCloseEnabled	Enable immediate session termination when the browser or browser tab is closed.	false
loginOutOnBrowserCloseTimeout	Waiting time for the termination of current session after the browser or browser tab is closed.	5000 (ms)

SYSTEM CONFIGURATION

After you install the Monarch Server web applications on the servers allowed by the license, you need to configure the servers, instances, and modules to get your system up.

Monarch Server Configurator is a PC-based software tool for configuring the Monarch Server System.

Monarch Server Configurator functions include the following:

- Setting up servers, instances, and service modules
- System analysis and workload control

STARTING CONFIGURATOR

There are two ways to start the Monarch Server Configurator:

- Immediately after server installation by selecting the Launch Configurator check box in the setup window For more information, see the Installation Guide.
- □ From the **Start** menu if you want to launch the Configurator later.

To run Configurator from the Start menu

- 1. On the Start menu, select All Programs.
- 2. From the displayed list, select Altair Monarch Server.
- 3. Select Run Configurator.

CONNECTING TO CONFIGURATOR

To set a connection to Configurator

1. From the drop-down list in the upper-right corner of the **Configurator** window, select the domain server name and port where the **Configuration Service** runs, and click **Connect**.

NOTE The default value is net.tcp://localhost.

2. If the connection is completed successfully, the Dashboard page displaying a list of servers appears.

Altair® Monarch® Server	net.tcp://localhost	▼ Connect
Dashboard Configurator Settings		Success
MonServ13-5 Modules: 14 / 14	CPU cores available to the system 1.	View View
		lization
Ready		Collect Logs

The Dashboard page contains the following items:

- State Indicator: The circle on the left side of each server indicates the state of server modules by changing its color:
 - Green all modules are running
 - Yellow some modules were stopped
 - Red all modules were stopped
- Servers Utilization diagram: Click the arrow on the upper-right corner of the page to view the Servers Utilization diagram.
- View button: To view the log information and to manage server modules, click the View button.
- Collect logs button: Allows Configurator to immediately collect and archive all Log (*.log) files, and save them to a local file.
 - **NOTE** Configurator is able to collect log files only from those machines where Agent service is started.

BACKING UP CONFIG.XML

Vital information about the Monarch Server System is stored in the **config.xml** file of the Config Service. The automatic backup of every changed version of the config.xml file enables you to restore a working configuration in

cases of application failure caused by modified settings in the config.xml file. You can also manually create backups of the config.xml file via the Monarch Server Configurator.



To enable/disable the automatic backup of config.xml

- 1. Launch the Monarch Server Configurator.
- 2. In the **Configurator** window, click the **Troubleshooter** button if found near the drop-down menu on the upperright corner.

The Troubleshooter window displays.

3. In the Advanced Settings panel below the Troubleshooter window, click the Enable auto backup or Disable auto backup button.

NOTE

- The automatic backup function produces up to 25 copies. When this limit is reached, the oldest copy is removed to accommodate the latest copy made.
 - Elevated permissions are required to modify the system environment variables.
 - □ The Monarch Server Config Service (and Agent Service if running) requires a restart to apply the new settings.

To manually backup the config.xml file

- 1. Launch the Monarch Server Configurator.
- 2. Click the **Configurator** tab.
- 3. In the Configurator tab, click the Backup Config File button found on the lower left corner.

The notification "Config file backup has been successfully created" is then displayed in the status bar below.

Backup Config File	Clear Apply
Config file backup has been successfully created	

To view/delete the backup config.xml files

- 1. Launch the Monarch Server Configurator.
- 2. In the **Configurator** window, click the **Troubleshooter** button if found near the drop-down menu on the upperright corner.

The Troubleshooter window displays.

\$}	Troubles	hooter	_	□ X	
Config File Backups					
- Description					
Config Service's 'config.xml' file contains vital in will give the ability to rectore a working config in	formation for the application fail	ation. Automatic backup of eve	ery changed version of the 'co	onfig.xml'	
Note : automatic backup produces up to '25 copy made.	copies. When this limit	is reached, oldest copy will be	removed to make room for t	he latest	
<u>Warning</u> : Config.xml backup folder ('C:\Progran uninstalls. This means that it won't be application reinstallation is NOT plann	nData\Datawatch\Monar deleted after an uninsta ned as 'config.xml' backu	rch Server\ConfigBackups') is ir III. Please remove folder conter Ips could contain sensitive info	ntended to persist during up nt manually where a subsequ rmation (e.g. connection stri	grades/ ent ng info).	
Monarch Server Config Service install folder : <u>C:\P</u>	rogram Files\Datawatch\	\ <u>Datawatch Server</u> \	N.		
	File Size	Creation Time	Last Write Time	Delete	
config.auto.2022-09-21-02-56-16.xml	19 KB	9/21/2022 2:56:16 AM	9/21/2022 2:54:00 AM	×	
config.installer.2022-09-21-02-54-08.xml	19 KB	9/21/2022 2:54:08 AM	9/21/2022 2:54:00 AM	×	
config.manual.2022-09-28-07-25-06.xml	19 KB	9/28/2022 7:25:06 AM	9/21/2022 2:56:16 AM	×	
config.manual.2022-09-29-02-02-17.xml	19 KB	9/29/2022 2:02:17 AM	9/21/2022 2:56:16 AM	×	
config.manual.2022-09-29-02-02-32.xml	19 KB	9/29/2022 2:02:32 AM	9/21/2022 2:56:16 AM	×	
config.manual.2022-09-29-02-04-08.xml	19 KB	9/29/2022 2:04:08 AM	9/21/2022 2:56:16 AM	×	
Refresh			Delete Sel	ected Files	
Advanced Settings It is possible to enable/disable automatic 'config,xml' backups by setting the following system environment variable.					
ALTR_MS_CONFIG_AUTO_BACKUP : Enable auto backup					
Note : Elevated permissions is required to modify system environment variables <u>Note</u> : The Monarch Server Config Service (and Agent Services if running) requires a restart to apply new settings					

The list of backup files is displayed just below the Description panel. The list includes the following information:

- **Name**: File name of the backup file created.
- File Size: Size of the backup file.
- Creation Time: Date and time the backup file was created.
- Last Write Time: Date and time the backup file was last written to.
- 3. To delete a backup file, click the corresponding **Delete** button in the **Delete** column of the backup list. You can also delete more than one backup file at a time by ticking their corresponding checkboxes and then clicking **Delete Selected Files**.

CONFIGURING INSTANCES

Creating an Instance

To create an instance:

1. Select the Configurator tab, and click the Instances tab. The Instance page is displayed.

Altair® Monarch® Serv	ver	X net.tcp;	//localhost	▼ Connect
Dashboard Configurator Settings				Success
Servers Instances Modules Global Setti	ngs			
Add new Instance	-Global Settings -			
Instance	Server name:	localhost	User:	
DefaultInstance	× Database name:	MS135	Password:	
	Encrypt Con	nection String	✓ Integrated Security	
			Test Connection Datab	ase operations
	Instance Priority	0		
	-Instance License	Settings		
	Instance License	e		Browse
	- Encryption			
	Enabled			
				Browse
	Symmetric: C	:\Program Files\Datawatch\Datawatc	h Server\Config\private_SHA1.key	Browse
	Asymmetric: C	:\Program Files\Datawatch\Datawatc	h Server\Config\public_DSA_xml.key	Browse
	RMS Symmetric	C:\Program Files\Datawatch\Data	awatch Server\Config\private_SHA1.key	Browse
	RMS Asymmetri	c: C:\Program Files\Datawatch\Data	awatch Server\Config\public_DSA_xml.ke	Browse
	Use All Server	5		
Backup Config File			Clear	Apply
Ready				

- 2. Under **Global Settings**, specify the database connection string parameters:
 - Server name
 - Database name
 - User
 - Password

NOTE This connection string will be used by services for database access.

- 3. Select the Encrypt Connection String check box if you want to encrypt connection string.
- 4. Select the **Integrated Security** check box if you want to access SQL Server via Windows Authentication. If you do so, the fields **User** and **Password** become unavailable.
- 5. Click Test Connection. If connection is successful, you will be able to perform database operations.

NOTE If there is no database with the specified name, create a new database.

- 6. In the **Instance Priority** field, enter value to define instance priority.
- 7. In the Instance License field, specify the path to the license file.

NOTE This license is used only for a particular instance. To set the global license used for all instances, see <u>Global Settings</u>.

- 8. Under Encryption, specify the path to the encryption file. Note: You can specify the encryption file only if the Enabled check box selected.
- 9. Under Symmetric, specify the path to the private key file for checksum in symmetric mode for MS.
- 10. Under Asymmetric, specify the path to the public key file for checksum in asymmetric mode for MS.
- 11. Under RMS Symmetric, specify the path to the private key file for checksum in symmetric mode for RMS.
- 12. Under RMS Asymmetric, specify the path to the public key file for checksum in asymmetric mode for RMS.
- 13. The **Database Common Time-out** setting is configured manually in the config.xml file. Path to this file: C:\Program Files\Datawatch\Datawatch Server\Config\config.xml

This parameter is located in the <Database> of the <Instance>:

```
<Instance Name="DefaultInstance" Priority="1">

<Database>

...

<CommandTimeout>0</CommandTimeout>

</Database>

...

</Instance>
```

The default timeout is 0 (it means no timeout).

To define the servers available for an instance:

1. Under **Servers available for Instance**, click the ⁺ button and select servers from the drop-down list.

NOTE In this case, an instance will be able to use only those services that are installed on the selected servers.

- 2. Select the **Use All Servers** check box, to allow instances use all servers.
- 3. Click Apply.
- 4. To add a new instance, click the **Add new Instance** button.
- 5. To delete an instance, click the button by the instance name.

Creating a New Database

To create a new database:

- 1. On the Instances tab, click the Database Operations button.
- 2. In the **Database operations** window, enter your username and password.

NOTE Select the **Integrated Security** check box to use Windows Authentication. The specified user must have system administrator rights to create a new database.

Database doe	esn't exist			
User Name:	sa	Password:	•••••	
Create new	d Security			
				Close

- 3. Click Create new database.
- 4. Click Close.

Updating Database

Before updating the database, the following points should be considered:

The user carrying out this updating process should be familiar with and have experience in administrating an SQL Server instance and its connectivity, availability, and maintenance.

This upgrade operation involves the backup, possible reconfiguration, and restoration/recovery of the application SQL Server database in the event of a problem. In addition, a fuller version of SQL Server may be potentially used as part of the SDK functionality. In validating the upgrade, there may be a need to perform activities on the SQL Server database instance via the Management Studio.

□ The database should be backed up.

A backup will allow for regression if problems occur and cannot be resolved within the desired upgrade window. This involves the following:

- The backup should be made when the Altair Monarch Server services are wholly stopped. This will involve the **Configurator and Agent Service**.
- In case of the use of more than one server, then the Agent Service on all other servers hosting modules must also be stopped (refer to your Configurator to determine your server(s) and their hostname(s)).
- For Virtual Servers, snapshots are also viable, but they should also be taken when the services are stopped to ensure that the snapshot is in a clean, restorable state.
 - **NOTE** Monarch Server can be deployed such that all components reside on one server, including its SQL Server database. However, for your upgrade, you should be able to identify if more than one server requires a snapshot. You should also verify whether a separate SQL Server backup should be performed if you are using an external SQL Server instance.

Consideration should also be given to the input and output resources as in some instances, these will need to be backed up as well to facilitate a clean recovery of all required resources in the event of total or partial regression. This process might also help assist in testing as elements can be restored post-testing to remove the effects of said test activities.

A copy of the log file should be made by either copying and pasting the same or by grabbing the log file labeled as follows:

C:\Users[CurrentUser]\Documents\Datawatch\Log\update dwch-net db YYYYMMDDHHMMSS.log

To proceed with updating the database:

- 1. On the Instances tab, click the Database Operations button.
- 2. In the Database operations window, enter your username and password.

NOTE Select the **Integrated Security** check box to use Windows Authentication. The specified user must have system administrator rights to update the database.

Database exists					
Version: 25.0.0.1183 can	update to v	version: 25.0.0.1183			
User Name:			Password:		
✓ Integrated Security					
Update database					
Database Update/Create	Locations	Data Pump Migration	RMS Migration	System Admin Unlocker	
					Close

- 3. Click Update database.
- 4. Click Close.

Managing Locations

To add a new location:

- 1. On the Instances tab, click the Database Operations button.
- 2. In the **Database operations** window, enter your username and password.

NOTE Select the **Integrated Security** check box to use Windows Authentication. The specified user must have system administrator rights to update the database.

Database exists				
Version: 25.0.0.1183 can update to ve	rsion: 25.0.0.1183			
User Name:		Password:		
✓ Integrated Security				
Add new Location			Default Locatio	n AnyLocation 🔻
Leveling			Denuit Eocuto	
Location				
MonSen/13-5	x			
Monservis-s				
Refresh]			Save Locations
Database Update/Create Locations	Data Pump Migration	RMS Migration	System Admin Unlocker	
				Close
				CIOSE

- 3. Click the **Refresh** button to display existing in the database locations.
- 4. Click the Add New Location button to add new location.
- 5. To edit a location, select its name and click the **Edit Location** button.
- 6. In the Default Location field, select default location from the drop-down list.
- 7. Click the Save Locations button to save changes.

Migrating Data

To import data:

- 1. On the Instances tab, click the Database Operations button.
- 2. In the Database operations window, enter your username and password.

NOTE Select the **Integrated Security** check box to use Windows Authentication. The specified user must have system administrator rights to update the database.

Database exists						
Version: 25.0.0.1183 can	update to	version: 25.0.0.1183				
User Name:			Password			
Integrated Security						
Open Process Import						
Location:	□ M	igrate Email Settings				
Monarch Data Pump Con	nection Sett	ings				
Server Name:						
Initial Catalog:	DWCHS	erver				
User Name:						
Password:						
Integrated Security						
Migrate						
migrate						
Database Update/Create	Locations	Data Pump Migration	RMS Migration	System Admin Unlocker		
					Clo	ose

- 3. Select the Data Pump Migration tab.
- 4. Click the **Open Process Import** button to import processes. In the displayed *Open File* dialog box, choose the files with the imported from the previous Automator versions processes.
- 5. Select the Migrate Email Settings check box to transfer settings.
- 6. In the *Location* field, enter location name. The specified location will be used for the imported processes.
- 7. To set connection to the database of the previous Automator version, under Automator Connection Settings specify the following parameters:
 - Server Name
 - Initial Catalog
 - User Name
 - Password

NOTE Select the **Integrated Security** check box to use Windows Authentication.

- 8. Click the Migrate button. The following data will be migrated to the current database:
 - Global distributions
 - Global scripts
 - Alerts
 - Email settings (if the Migrate Email Settings check box was selected)
 - Default job disposition settings.

RMS Migration

To import RMS data:

- 1. On the Instances tab, click the Database Operations button.
- 2. In the Database operations window, enter your username and password.

NOTE Select the **Integrated Security** check box to use Windows Authentication. The specified user must have system administrator rights to update the database.

Database exists					
Version: 25.0.0.1183 can u	update to v	ersion: 25.0.0.1183			
User Name:			Password:		
✓ Integrated Security					
RMS Migration Parameters	s				
Config file path:					Browse
Storage Directory:					
External Storage Directory	<i>r</i> :				
Migrate					
Database Update/Create	Locations	Data Pump Migration	RMS Migration	System Admin Unlocker	
					Close

- 3. Select the **RMS Migration** tab.
- 4. Click the Browse button to select web config file from previous RMS versions that contains storage settings.
- 5. Click the Migrate button. The following data will be migrated to the current database:
 - RMS system settings
 - Users with their profiles
 - Models
 - View definitions

Unlocking System Administrator

To unlock system administrator:

1. On the Instances tab, click the Database Operations button.

2. In the **Database operations** window, enter your username and password.

NOTE Select the **Integrated Security** check box to use Windows Authentication. The specified user must have system administrator rights to update database.

Database exists	
Version: 25.0.0.1183 can update to version: 25.0.0.1183	
User Name: Password:	
User Reset password Attempts count Reset attempts Locked Default Password:	
Refresh	Submit
Database Update/Create Locations Data Pump Migration RMS Migration System Admin Unlocker	
	Close

- 3. Select the System Admin Unlocker tab.
- 4. Click Refresh to display available system administrators in the table.
- 5. Select the Reset password check box if you want to reset the current admin password to the default one.

NOTE You can modify the default password in the **Default Password** field.

6. Select the **Reset attempts** check box if you want to reset the number of login attempts to 0 for the corresponding administrator.

NOTE The number of failed attempts is displayed in the Attempts count field.

7. Select the **Locked** check box if you want to lock the corresponding administrator. To unlock the administrator, clear the check box.

- 8. Click **Submit** to apply changes.
- 9. Click Close.

CONFIGURING SERVERS

To configure the list of services that should run on the server:

1. Select the **Configurator** tab, and click the **Servers** tab. The Servers page is displayed.

Altair® Monarch® Server	net.tcp://localhost	▼ Connect
Dashboard Configurator Settings		Success
Servers Instances Modules Global Settings		
MonServ13-5		Add new server
Modules Pathi		Province
		browse
Add new server module	Application Settings:	
ServerModule		
Web Admin 🛛		<u> </u>
Web Client 🛛		
Web RMS Client		
Admin Host 🛛		
Client Host		
Volume Host		
Filing Dispatcher Host		
Maintenance Dispatcher Host		
Notifications Dispatcher Host		
Automator Host		
Automator Dispatcher Host		
Automator Storage Host		
RMS Host		
RMS Content Host		
		~
	Log Path:	
		Browse
	Max Threads:	
	0	
Backup Config File	Clear	Apply

- 2. Click the Add New Server button to add new services.
- 3. In the **Modules Path** field, specify the path for modules.
- 4. In the Add New Server window, specify the server module you want to add.
- In the Application Settings field, specify the application settings for the required host. Host application settings should observe the following format:

```
<configuration>
<appSettings>
<add key="parameterName" value="parameterValue" />
...
</appSettings>
</configuration>
```

The table below specifies host application settings.

MODULE NAME	PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
Admin Host	LdapPort	Indicates the port for LDAP communication	636
	WorkPath	Indicates the location where SDK creates temp files	
	AutoStartFilingInterval	Interval between which the job for auto start Filing Tasks will be started.	00:00:10
	FilingDirListenerInterval	Interval between which new job for auto start Filing Tasks will be created in the ScheduleJobs table.	00:00:10
	AutoStartFilingPortion	Indicates how many automatic filing tasks will be run during AutoStartFilingInterval interval.	10
	FileLockAttempts	Indicates how many times the application attempts to check if a file is unlocked	6
		Note: If the file was not unlocked after the defined combination of FileLockAttempts and FileLockWaitPeriod, an email notification is sent to the application Admins advising of the filing task/process, affected filename, and processing location/server.	
Filing Dispatcher Host	FileLockWaitPeriod	Indicates the interval between attempts to check if a file is unlocked Note: If the file was not unlocked after the defined combination of FileLockAttempts and FileLockWaitPeriod, an email notification is sent to the application Admins advising of the filing task/process, affected filename, and processing location/server.	500
	SdkRegexTrapTimeout	Indicates the time interval during which RegEx checks every row of processed reports for pattern matching	30
	TempDbCleanEnabled	Indicates whether TempDB is checked for cleaning. Note: If set to "True" TempDB is checked every 1 minute (default value). TempDB is cleaned if it exceeds 1000 MB (default value) and if localDB is selected for SDK.	False
	TempDbCleanInterval	Indicates the time interval during which TempDB is cleaned. Note: The value should be formatted as d.hh:mm[:ss.ff]. The number of days should be less than or equal to 24. Days are counted after the last restart of the host.	00:01:00
	TempDbCleanSizeThresholdMb	Indicates the size of TempDB, at which point it should be cleaned. Note: The value is counted in megabits.	1000
	WorkPath	Indicates the location where SDK creates temp files	

MODULE NAME	PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
Automator Host	SecurityProtocols	Allows the configuration of supported security protocols. Note: By default, security protocols depend on the .NET framework version. Possible values are "SystemDefault," "Ssl3," "TIs," "TIs11," and "TIs12."	Tls11, Tls12
	AutoStartPumpTaskInterval	Indicates the time interval during which the pump process will be started.	00:00:10
	PumpMonitoringInterval	Interval between which the system is monitored for new files.	00:00:10
	AutomatorMonitoringSuspended	Suspends all Automator monitoring.	False
	PumpTaskLegacyBehavior	Indicates the use of the old behavior of process handling Note: The old and new behaviors are described in the <u>Process Handling</u> <u>Scenarios section</u> of the Administrator's Guide.	True
	SuppressIndexingExternalLooku pTables	Manages the creation of an appropriate index on each external lookup table during its building process Note: If set to "true," no indexes will be created. If set to "false," indexes will be created.	True
	SdkDeleteDbOnExit	Allows SDK to delete unused temp databases after export	False
	SdkShrinkDbOnExit	Allows SDK to compress temp databases after export	False
	SdkMaxCatalogs	Specifies the maximum number of cache databases that the SDK creates during export	3
	SdkRegexTrapTimeout	Indicates the time interval during which RegEx checks every row of processed reports for pattern matching	30
	SdkEnableAceDaoExportByDef ault	Refers to the behavior of the process when exporting to .accdb, .dbf, and .mdb. Note: The default value is "true" (ACE DAO). Thus, it is not necessary to add the key unless this needs to be set to "false" (use ACE OleDb by default).	True
	WorkPath	Indicates the location where SDK creates temp files	
	BulkBehaviorExportBatchSize	Allows batch size to be configured for bulk insert and update	10000
	BulkBehaviorExportCommandTi meout	Allows timeout to be configured for bulk insert and update	30
	TempDbCleanInterval	Indicates the time interval during which TempDB is cleaned. Note: The value should be formatted as d.hh:mm[:ss.ff]. The number of days should be less than or equal to 24. Days are counted after the last restart of the host.	00:01:00
Automator Dispatcher Host	TempDbCleanEnabled	Indicates whether TempDB is checked for cleaning.	False

MODULE NAME	PARAMETER NAME DESCRIPTION		DEFAULT VALUE
		Note: If set to "True" TempDB is checked every 1 minute (default value). TempDB is cleaned if it exceeds 1000 MB (default value) and if localDB is selected for SDK.	
	TempDbCleanSizeThresholdMb	Indicates the size of TempDB, at which point it should be cleaned. Note: The value is counted in megabits.	1000
	SecurityProtocols	Allows the configuration of supported security protocols. Note: By default, security protocols depend on the .NET framework version. Possible values are "SystemDefault," "Ssl3," "Tls," "Tls11," and "Tls12."	Tls11, Tls12
Automator Storage	StorageDirectory	Path to the Storage Directory for temp files of Automator.	
Host	TimeToStoreFiles	Time for how long temp files are stored in Storage Directory.	00:10:00
Notifications Dispatcher Host	OfflineTaskCacheDirectory	Path to the Storage Directory for Offline Tasks data.	
Client Host	TempDbCleanEnabled	Indicates whether TempDB is checked for cleaning. Note: If set to "True" TempDB is checked every 1 minute (default value). TempDB is cleaned if it exceeds 1000 MB (default value) and if localDB is selected for SDK.	False
	TempDbCleanInterval	Indicates the time interval during which TempDB is cleaned. Note: The value should be formatted as d.hh:mm[:ss.ff]. The number of days should be less than or equal to 24. Days are counted after the last restart of the host.	00:01:00
	TempDbCleanSizeThresholdMb	Indicates the size of TempDB, at which point it should be cleaned. Note: The value is counted in megabits.	1000
	LdapPort	Indicates the port for LDAP communication	636
	WorkPath	Indicates the location where SDK creates temp files	
	OfflineTaskCacheDirectory	Path to the Storage Directory for Offline Tasks data.	
RMS Content Host	ApiUploadStoragePath	Path to the temporary folder, which is created with the uploaded reports (default path: <host name>\C:\Windows\Temp\Datawatch RmsApiUploadStorage) Note: The folder containing the uploaded reports are removed at the end of the session.</host 	04.00.00
	ApiupioadSession LimeOut	Note: The resulting link will no longer be available at the end of the session.	01:00:00
RMS Host	IempDbCleanEnabled	Indicates whether TempDB is checked for cleaning.	False

MODULE NAME	PARAMETER NAME	DESCRIPTION	DEFAULT VALUE
		Note: If set to "True" TempDB is checked every 1 minute (default value). TempDB is cleaned if it exceeds 1000 MB (default value) and if localDB is selected for SDK.	
	TempDbCleanInterval	Indicates the time interval during which TempDB is cleaned. Note: The value should be formatted as d.hh:mm[:ss.ff]. The number of days should be less than or equal to 24. Days are counted after the last restart of the host.	00:01:00
	TempDbCleanSizeThresholdMb	Indicates the size of TempDB, at which point it should be cleaned. Note: The value is counted in megabits.	1000
	LdapPort	Indicates the port for LDAP communication	636
	WorkPath	Indicates the location where SDK creates temp files	

6. In the **Log Path** field, specify the log path.

NOTE The path specified is resolved in the context of the server that the setting relates to. Therefore, in clicking the Browse button when adding a log path to a new server, the path is assumed to be resolvable to the specified server. This case should be manually verified. □ Some actions (such as test connection when using Windows authentication) are carried out in the context of current users and NOT in the context of the service account.

7. In the **Max Threads** field, define the maximum number of threads.

NOTE	The Max Threads setting is useful for the following hosts, which are able to run some jobs or tasks:
	Maintenance Dispatcher Host
	Filing Dispatcher Host
	Automator Host
	Automator Dispatcher Host
	Notifications Dispatcher Host
	This option stands for the number of tasks/processes that are fulfilled at a

time for the corresponding module.

- The Max Threads setting is used in the SmartThreadPool, which accepts a maximum of 25 threads (the same for 0 Max Threads or empty). Increasing the Max Threads setting for some hosts could affect the performance of other hosts. Moreover, large Max Threads could affect the performance of the host itself because of the context switching between all thread pools. Thus, the optimal value lies in the middle and depends on the environment, number of processor cores, and network.
- 8. In the **SDK Settings** section, specify the export storage settings:
 - Select Local DB database type, if you want to use SQL Local DB as an export storage and specify Database File Path (if Database File Path is not specified, database files will be created in the user's directory %LOCALAPPDATA%\Datawatch\DatawatchEngine).
 - Select Remote DB database type, if you want to use SQL Server as an export storage and specify its parameters:
 - Server Name
 - Authentication credentials: user name and password. If you want to use Windows authentication, select the corresponding check box.
- 9. To enable SDK trace logging, set Trace Log Folder and Trace Log Level (0 none, 1 min, 2 max).
- 10. Click Apply to save changes.
- 11. To delete a service, click the 🚺 button by the service name.
- 12. To add a new server, click the **Add new Server** button.
- 13. To delete a server, click the 🚺 button by the server name.

MANAGING SERVER MODULES

To view the server log information and manage server modules, click the View button on the Dashboard page.

Altair [®] Monarch [®] Server	net.tcp://localhost	•	Connect
Dashboard Configurator Settings MonServ13-5 ×		_	Success
MonServ13-5 Modules: 14 / 14	CPU cores available to the system 1. View	MonServ13-5	Servers U
			tilization
	Collect Logs]	
Ready		-	

The Server page opens in a new tab.

Altair® Monarch	* Server	 Connect
Dashboard Configurator Settir	ngs MonServ13-5 🗵	Success
MonServ13-5	Module: Datawatch.Web.EnterpriseServer.Admin	
Web Admin	Module State: Running	
Web Client Web RMS Client Admin Host Client Host Volume Host Filing Dispatcher Host Maintenance Dispatcher Host Automator Dispatcher Host Automator Dispatcher Host Automator Storage Host RMS Host RMS Content Host	Fail Count: 0 of 5 Run Stop Restart Ping Logs Instance: Defaultinstance Update period: 5 a Image: Auto Refresh Refresh Log Filtering ID D: Tr Message Message	
an't read log		

To perform an action to all server modules

1. Select the name of the server from the list in the left side of the window.

2. Click one of the following buttons: Run All, Stop All or Reload All.

NOTE When you click the **Stop All** button, you can specify the timeout value in seconds to stop all the running processes in the **Timeout** field.

To perform an action to a single module

1. Select the module name from the list in the left side of the window.

NOTE You can check the Module State and Fail Count for every module. Max fails can be specified for all modules in the <u>Configuring Modules</u>.

2. Click one of the following buttons: Run, Stop, Restart or Ping.

To customize the table with the log information, the following options are available:

□ Instance: The drop-down list shows all instances created for all servers.

NOTE This option is only available for the Web Admin, Web Client, and Web RMS Client modules.

- □ Update Period: Select value for the update period from the dropdown list.
- Auto Refresh check box: Select this check box, to enable automatic log refreshing.
- Refresh Log button: Click the Refresh Log button, to refresh the log information.
- Filtering: Click the drop-down arrow and select filters. To select all filters, click the Check All button. To cancel selection of all filters, click the Uncheck All button.
- Details row: Click anywhere on a particular row in the table to view details.

NOTE The table displays the log information about the item currently selected in the left side of the window.

To restart hosts/modules with CLI/CMD

Hosts and modules can be restarted via the command line interface. The file path to the terminal is

C:\Program Files\Datawatch\Datawatch

Server\Configurator\Datawatch.ModulesManagement.Configurator.Terminal.exe

The following commands are available:

COMMAND	DESCRIPTION
?,help	Displays the help screen

COMMAND	DESCRIPTION
restartAllModules	Restarts all modules in specified server; requires serverName as parameter
restartAllModulesInAllServers	Restarts all modules in all servers
restartModulesInServers	Restarts module(s) in server(s); requires moduleName and serverName as parameters

The following parameters are required in some commands:

PARAMETER	DESCRIPTION
serverName	Parameter to set server name for restarting the modules in that server. Multiple server names can be provided by separating them with a colon. Example:serverName=ServerA.domain:ServerB.domain
moduleName	Parameter to set module names to restart. Multiple module names can be provided by separating them with a colon. Example: moduleName=Datawatch.RemoteServices.ClientServicesHost:Da tawatch.RemoteServices.DataPumpServicesHost

CONFIGURATOR SETTINGS

To proceed to the Configurator Settings page, click the Settings tab.

Altair [®] Monarch [®] Server	Net.tcp://localhost	Connect
Dashboard Configurator Settings MonServ13-5 X		Success
Application Settings		
Auto connect to ConfigServer on startup		
 Server Connection Strings Managing 		
Modules		
Auto update modules info		
Update interval : 5 s		
Utilization		
Auto refresh utitlization		
Utilization interval : 1 s		
		Reset All
Ready		

The following groups of settings are available:

Application Settings

- Select the Auto connect to ConfigServer on startup check box, to connect automatically to the ConfigServer on launching Configurator.
- Click the drop-down arrow, to view the list of Config Services addresses. To delete address, click the button by its name.
- Modules
 - Select the Auto update modules info check box, to update the modules information automatically.
 - Move the slider, to set the update interval value.

NOTE You can set the update interval only if the **Auto update modules info** check box is selected.

- Utilization
 - Select the Auto refresh utilization check box, to refresh utilization automatically.
 - Move the slider, to set the utilization refresh interval value.
 - NOTE

You can set the utilization refresh interval only if the **Auto refresh utilization** check box is selected.

To reset all settings, click the Reset All button.

GLOBAL SETTINGS

To customize global settings, select the **Configurator** tab, and click the **Global Settings** tab.

Altair® Monar	ch® Server	$\boldsymbol{\star}$	net.tcp://localhost		•	Connect
Dashboard Configurator S	ettings					Success
Servers Instances Module	es Global Settings					
Global License Settings						
Datawatch License Cor	figuration					
Global License:	C:\Program Files\Datawatch\Datawatch	h Server\Config\ds.lic			Brov	vse
☐	ation					
License Server:	e.g. 6200@localhost					
Altair Units:					Confi	gure
License Extension File: 🕄				Browse	Prev	iew
Virtual Server Count:			Advanced	Test Connection	License	Status
- Global Settings						
Log level:						
All 👻						
Log size(Kb):						
1024						
Log max archived files:						
50						
Global timeout:						
Backup Config File				Clear	•	Apply
Ready						

The following settings are available on the Global Settings page:

Global License Settings: Modify the global license source to be used. The specific steps are detailed here.

Global Settings:

- Log level: Select the log level from the drop-down list (the default value is All).
- Log size (kb): Enter the log size (the default value is 1024).
- Log max archived files: Enter the max number of archived files (the default value is 50).
- **Global timeout**: Enter to set receiveTimeout for all URI schemes. The receiveTimeout setting can be configured manually for each particular scheme via config.xml.

Path to this file: C:\Program Files\Datawatch\Datawatch Server\Config\config.xml

This parameter is located in the <binding> of the <basicHttpBinding>, <wsHttpBinding>, <netTcpBinding>, <netTcpBinding>, <netNamedPipeBinding>:

<bindings>

<basicHttpBinding>

```
<binding name="basicHttpBinding"

openTimeout ="00:10:00"

sendTimeout ="00:10:00"

closeTimeout="01:00:00"

receiveTimeout ="01:00:00"

maxReceivedMessageSize="2147483647"

transferMode="Streamed">

<readerQuotas

maxStringContentLength="2147483647"
```
```
maxArrayLength="2147483647" />
```

```
</binding>
```

```
</basicHttpBinding>
```

. . .

```
</bindings>
```

To save changes, click Apply.

NOTE User session ID may be logged by modifying the config file as follows:

- a. Open the config.xml file and locate the logging template field.
- b. Modify this field by adding {keyvalue(sessionId)}.
- □ The field should appear as:
- template="[{timestamp(local:G)} {severity} {keyvalue(sessionId)}] {message}"

[For local:G, additional information is available here.]

For a new installation of Monarch Server

The config.xml file may be modified as follows:

For an upgrade to the latest version of Monarch Server

- a. Perform the upgrade as usual.
- b. Open the config.xml file and locate the old template field:

c. Replace this field with following:

</formatters>

- d. Save the changes.
- e. Restart Services to apply the changes made.

Configuring Global License Settings

Monarch Server supports two global license sources: Datawatch license and Altair license. This section details these two sources.

Datawatch license configuration

Use this configuration if you have a license file located in a local folder or network.

NOTE Global license is used for all instances. To set a separate license for a particular instance, see <u>Configuring Instances</u>, point 6.

Steps:

- 1. Launch Monarch Server Configurator from the Start menu.
- 2. In the Configurator window, click the **Configurator** tab.
- 3. From the available tabs, select **Global Settings**.
- 4. Under Global License Settings, select Datawatch License Configuration.

Alt	tair® Mo	narch® Serve	er				$\boldsymbol{\star}$	net.tcp:	://localhost				•	Connect
Dashb	oard Configur	ator Settings												Success
Serve	rs Instances	Modules Global Setting	IS											
Glob	al License Settir	igs												
	Datawatch Licer	nse Configuration												
Glob	al License:	C:\Program Files	\Datawat	tch\Dataw	vatch Ser	ver\Config	g\ds.lic						Bro	owse
-0.	Altair License C	onfiguration												
Licer	nse Server:	e.g. 6200@loc	alhost											
Altai	r Units:												Con	figure
Licer	nse Extension Fi	le: 😮									Browse		Pre	view
Virtu	ial Server Count	:							Advanc	ed	Test Connect	ion l	icens	e Status

- 5. Specify the full path (e.g., "C:\License\ms.lic") or relative path (e.g., "ms.lic," with the base directory being the "[InstallDir]\Config" folder) of the license file or click **Browse** to manually search for it.
- 6. To save your settings, click **Apply**.

Altair License Configuration

Use this configuration if you have access to Altair's License server or Altair Units. Altair Units is a cloud-based licensing system that provides seamless access to Altair licenses through an internet connection.

NOTE Altair Units requires valid Altair Connect credentials. Check with your administrator for access.

Steps:

- 1. Launch Monarch Server Configurator from the Start menu.
- 2. In the Configurator window, click the **Configurator** tab.
- 3. From the available tabs, select **Global Settings**.
- 4. Under Global License Settings, select Altair License Configuration.
- 5. If your license source is Altair's License Server, perform the following steps:
 - a. Specify the location of the Altair License Server in the License Server field with the following format: port@hostname (e.g., 6200@localhost).

NOTE Multiple license servers can be specified. Use the semicolon to separate the license servers (e.g., 6200@localhost;6200@externalALS).

b. Save your settings by clicking Apply.

If your license source is Altair Units, perform the following steps:

- a. Generate the Auth Code first:
 - i. Launch Google Chrome and navigate to the Altair One Admin portal at <u>https://admin.altairone.com/login</u>. Use your credentials to log in.
 - ii. In the portal, click User Profile and then click the Authorized Machines tab in the main display.

III Altair One' ONLY FORWARD Feedback. &								
🕎 Dashboard	Settin Aut	horized Machines						
오 User Profile	Authorize	d Machines (19)			Generate Auth Code			
		Username	Hostname	Auth Token	Added At	MAC Addresses		
		* (ANY)	AltairOne	1e62c1b1	2021-04-15 05:49:11 AM UTC	ANYHOST		
		* (ANY)	AltairOne	8433948a	2021-04-28 07:41:05 AM UTC	ANYHOST		
		* (ANY)	AltairOne	8eccb7de	2021-04-28 02:53:03 PM UTC	ANYHOST		

iii. Click Generate Auth Code.

HIT Altair One" ONLY	FORWARD					Feedback 🔍
🕰 Dashboard	Settings	Authorized Machines				
9, User Profile	Author	rized Machines (19)				Generate Auth Code Show 10+entries
		Username	Hostname	Auth Token	Added At	MAC Addresses
		* (ANY)	AltairOne	1e62c1b1	2021-04-15 05:49:11 AM UTC	ANYHOST
		* (ANY)	AltairOne	8433948a	2021-04-28 07:41:05 AM UTC	ANYHOST
		* (ANY)	AltairOne	8eccb7de	2021-04-28 02:53:03 PM UTC	ANYHOST

The page displays the auth code and a timer indicating the code's expiration.

HIT Altair One" ONLY FO	RWARD						Feedback 🔍
Dashboard	Settings Authorized Machine						
오 User Profile		_					
	Authorized Machines (1	Auth Codes can be used with A	lmutil by administrators to quickly authorize Your Auth Cod Expires in 12 m	license access by multiple use e is: VIEU : :	rs on a single machine and/or multiple machi	nes.	Generate Auth Code Show 10 - entries
	Use	name	Hostname	Auth Token	Added At	MAC Addresses	
	(A) * (A)	(2)	AltairOne	1e62c1b1	2021-04-15 05:49:11 AM UTC	ANYHOST	
	* (Al	(11)	AltairOne	8433948a	2021-04-28 07:41:05 AM UTC	ANYHOST	
	* (A)	(Y)	AltairOne	8eccb7de	2021-04-28 02:53:03 PM UTC	ANYHOST	

b. Return to the Configurator and launch the Altair Units Configuration dialog by clicking Configure.

Altair License Configuration								
License Server:	e.g. 6200@localhost							
Altair Units:	Authentication failed No authorization token found in Altair Units config files		[Configure				
License Extension File: 😗			Browse	Preview				
Virtual Server Count:	Adh	vanced	Test Connection	License Status				

c. In the Altair Units Configuration dialog, enter the **Auth Code** you generated in Step iii and then click **Authorize**.

N	Altair Units Configuration	1		x
Authorization Authorization Token: 1) Go to https://admin.altairone.com 2) Sign In 3) Go to User Profile >Authorized Machines 4) Generate an authorization token 5) Input the code in the text box above and press Authorization Information ALM_HHWU_CONFIG ? C:\ProgramData\Altair\M	Authorize Proxy	guired	Revert	

If the auth code is successfully authorized, the following prompt displays:

1	Altair Units Configuration	_ 🗆 X
Authorization Authorization Token: WQ2R4J54	Authorize Proxy required Authorize Port: 0	
	Information	
1) Go to <u>https://admin.altairone.com</u>	(i) Authorization was successful!	Save Revert
 2) Sign in 3) Go to User Profile >Authorized Machine 4) Generate an authorization token 5) Input the code in the text box above and 	ОК	
Information ALM_HHWU_CONFIG ? C:\ProgramData	\Altair\Monarch Server\global	

- d. Click **OK** and then close the Altair Units Configuration dialog.
- e. You can then modify the number of Altair Units that will be consumed to meet your specific requirements. For this purpose, click the **Preview** button in the Global Settings tab of the Configurator to launch the **Altair License Rates Configuration** window.

Altair License Configuration								
License Server:	e.g. 6200@localhost							
Altair Units:	Successfully authenticated			Configure				
License Extension File: 🕄			Browse	Preview				
Virtual Server Count:	Advanc	ced	Test Connection	License Status				

f. In the Altair License Rates Configuration window, you can adjust the Server Count Rates slider to modify the unit consumption. Click Accept to save your settings.

n Altair License Rates Configuration				_	
Description Please configure Altair Units cost to match product features li consumption.	mitations to yo	ur needs. Adjust 'S	erver Count Rate	s' slider to modi	fy Altair Units
License Extension File: 😮					Browse
Display inform	nation without '	License Extension I	ile'		
Servers Count Preview: 1 (curr	ent servers cou	nt in use is 1)	Altair U	nits consumptio	n table
	Base value	Current value	Min	Max	Cost
Report Warehouse and RMS login Altair Units cost (per user):	2	2	1	1	150
Automator processes allowed (per server):	50	50	2	3	390
Minimum 'Servers' for unlimited Automator processes:	6	6	4	5	590
			6	7	750
			8	9	870
			10	15	1170
Total units: 150			16	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1295
				Accept	Cancel

NOTE The default unit consumption is as follows: 2,000 units per user when logged in to MSClient and RMSClient, 50 Automator processes per server, and a minimum number of 6 servers for an unlimited number of processes.

The default costs may be changed when using a license extension file.

- g. Click the **Test Connection** button in Configurator to check the properties of the currently specified Altair license and view their detailed information.
- h. Click the License Status button to view the currently applied Altair license and its detailed information.
- i. Save all your settings by clicking Apply.
 - **NOTE** Altair licensing (i.e., License Server, Altair Units) for Monarch Server covers all three components, namely, Report Warehouse, Automator, and RMS. If you do not intend to use all three components, you can override the license and suppress specific components. To do this, perform the following:
 - a. Launch Monarch Server Configurator from the Start menu.
 - b. In the **Configurator** window, click the **Configurator** tab.
 - c. From the available tabs, select **Global Settings**.
 - d. Under Altair License Configuration in the Global License Settings, click the Advanced button.

The License Advanced Settings dialog box displays.

	ŧV	Licer	nse Advanced Set	tings	- 🗆 🗙	
	Override Lia	cense and suppress ort Warehouse	following feature:	C R	Cancel]
e.	Select the o suppress. N component	checkboxes co Note that one is can be supp	orresponding to checkbox shou pressed; doing	o the compo Ild remain u so displays	onents you nselected the followi	want to as not all ng alert: <i>At</i>

- least one feature should not be suppressed.
- f. Click Accept to save your settings.

CONFIGURING MODULES

To go to the Modules page, select the Configurator tab, and click the Modules tab.

Altair® Monarch® Serve	r net.tcp://localhost	Connect
Dashboard Configurator Settings		Success
Servers Instances Modules Global Setting	5	
Module	- Common parameters	
<all modules=""></all>	Common version: 25.0.0.1183	
Config	Location C:\Program Files\Datawatch\Datawatch Server\Modules\	
Agent		
Load Balancer	Repository: C:\Program Files\Datawatch\Datawatch Server\Repository\	
Web Client	Default URI scheme: TCP -	
Web RMS Client		
Admin Host	Max fails: 5 Minutes between fails: 1	
Client Host		
Volume Host		
Filing Dispatcher Host		
Maintenance Dispatcher Host		
Notifications Dispatcher Host		
Automator Host		
Automator Dispatcher Host		
RMS Host		
BMS Content Host		
Datawatch.SQL		
< III >		
Backup Config File	Clear	Apply
Ready		

To set the common modules parameters

- 1. Select **All Modules** from the list in the left side of the window.
- 2. Fill in the following fields:
 - Common version: Specify the common version, you want to use.
 - Local location: Specify the local modules location.
 - Repository: Specify the repository.
 - Default Uri scheme: Select the default URI scheme, from the drop-down list.
 - Max fails: Enter the maximum number of fails.
 - Minutes between fails: Enter the amount of minutes between fails.
- 3. Click Apply.

To set a single module parameter

- 1. Select the module name from the list in the left side of the window.
- 2. Select the URI scheme, from the drop-down list.
- 3. Specify the module version, if you want to use a version different from common for this module.
- 4. Click Apply.

CONTACT US

GET IN TOUCH

We'd love to hear from you. Here's how you can reach us.

SALES CONTACT INFORMATION

Portal: <u>Contact Altair</u> US: + 1.800 445 3311 International: + 1 978 441 2200

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