Automation Engine

Troubleshooting







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1. Troubleshooting the Server

In the **Automation Engine Server Web Page**, the section **Server Checks** helps an Automation Engine administrator to diagnose and fix any problems.

You can open the server web page by entering http://<name of your server> or http://<name of your server>:9999 in the address field of your browser.

Note: You will be asked to log in using an administrator account or use an account that is a member of the **BGADMIN** user group on the Automation Engine server.

1.1. Checking the Databases

The Databases page checks

- if the database system of the database is up and running.
- if the database is online and accessible for the Automation Engine Server.
- if the size of the database is not nearing its size limit.

Click **Info** to see some more information like the database file name and the SQL Server and/ or SQL Server instance where the database is located (if the database system is Microsoft SQL Server).

Note: These are the databases that are configured in the Configure tool, in *Automation Engine Databases*.

(utomation Eng	CLIENT APPS	SAMPLES	SERVER ADMIN			
Home > Ser	ver Checks 🔌 Databases						
	Databases » DA	ETVET RDV	MAE17 💩 rur	nning C > Log in to a	another server		
	Containers Sta	itus Database	Database System	Details			
	Disks	Jobs	Microsoft SQL Server	Database is online and acc	essible.		Info
	Network	😝 Tasks	Microsoft SQL Server	Database is online and acc	essible.		Info
	Health	Task History	Microsoft SQL Server	Database is online and acc	essible.		Info
	(Cold I	😝 JDF	Microsoft SQL Server	Database is online and acc	essible.		Info
Sch	heduled Checks	Devices	Microsoft SQL Server	Database is online and acc	essible.		Info
	Sottings	Gang Run Printing	Microsoft SQL Server	Database is online and acc	essible.		Info

The **Status** of the database can be one of these:

- The database is online and accessible.
- The database is online and accessible, but there are one or more warnings (for example the database is near its size limit or the connection speed is not sufficient).



Note: The connection speed is checked by this small test:

- **1.** Start the timing
- **2.** Connect to the specific database
- 3. Retrieve some data (db query of "select @@Version")
- 4. Stop the timing.

This test is repeated 10 times, and then an average is calculated. When that average speed exceeds 100 ms, the status is a warning.

² ⁹ The database is not online or is not accessible (for example no connection could be made to the database system, or the login failed).

• The status of the database is unknown. This is the case when the DBMS type of your Application Server database is Oracle or when any of the other databases is an Embedded database. There are no tests available for these two types.

Note: When the Automation Engine server is not running, you can still check the status of its databases. In this case however, the **Database System** field will be empty.

1.2. Checking the Containers

The **Containers** page checks the status of each container configured on this Automation Engine server.

\$	Automation E	Engine	Server	CLIENT APPS	SAMPLES	SERVER ADMIN	SERVER CHECKS
Home	» Server Checks » Contain	ers					
	Databases		VER EAW12DD320	⊖ running C > Log	in to another s	erver	
	Containers	Status	Name	Details			
	Disks	Θ	ExampleJobContainer@loppem	Container "ExampleJobCont available of 465.7 GB).	tainer@loppem"	is online and accessible (157.3 GB
	Network Health	Θ	ExampleJobContainer@leupegem	Container "ExampleJobCont available of 465.7 GB).	tainer@leupegen	n* is online and accessible	a (193.6 GB
		۰	DeskPackContainer@eaw12dd320	Container "DeskPackContai available of 465.7 GB).	iner@eaw12dd3	20° is online and accessib	ole (217.9 GB
	Scheduled Checks	•	gdm_container@homer	Container "gdm_container@ available of 350 GB).	homer* on "\\hor	ner\gdm_container" is ne	arly full (82.7 GB
Settings		۰	ExampleJobContainer@twister	Could not connect to Contain "file://twister/ExampleJobCo	ner "ExampleJot ntainer". Please	Container@twister" on contact your IT administra	ator.
							CHECK AGAIN

This page checks

- if the container is online and accessible for the Automation Engine Server.
- if the used disk space of the disk where the container is located is not getting too high. The percentage of used disk space at which you get a warning or an error can be set in the **Settings** page.



1.3. Checking Disks

The **Disks** page checks and shows detailed information about the disks where the Automation Engine system folders are located.

¢	Automation E	Engine	Server	CLIENT APPS SAMPLES SERVER ADMIN SERVER CHECKS
Home	» Server Checks » Disks			
	Databases	Serv » DISKS	/er EAW12	DD320 ● running ♂ » Log in to another server
	Containers	Status	Name	Details
	Disks	•	Installation Folder Disk	The disk where the installation folder "C:\Dev\AE14.1\sr\\prog" is located is accessible (169 GB available of 465.7 GB).
	Network	•	Custom Folder Disk	The disk where the custom folder "C:\Eskolbg_data_custom_v010" is located is accessible (169 GB available of 465.7 GB).
		•	Temporary Folder Disk	The disk where the temporary folder "C:\Eskolbg_data_fastserver_v100/tmp" is located has less than 20 GB of free disk space (14.9 GB available of 465.7 GB).
	Scheduled Checks	•	Backup Folder Disk	The disk where the backup folder "C:\Esko\AEBackup" is located has less than 5 GB of free disk space (3.7 GB available of 465.7 GB).
	Settings			CHECK AGAIN

For every Automation Engine system folder, this page checks:

- If the disk where the system folder is located is accessible to the Server.
- If the free disk space of the disk where the system folder is located is not getting too low.
 - When the free disk space is less than 20 GB, the check will show a warning.
 - When the free disk space is less than 5 GB, the check will show an error.

1.4. Checking the Network

The **Network** page checks and shows detailed information about network connections of the Automation Engine Server, including those to external systems like the **License Server**, **WebCenter Sites** and **Devices**.

Automation Engine



Automation		Sava	CLIENT APPS SAMPLES SERVER ADMIN SERVER C
Server Checks > Netwo	ork		
Databases		/er EAV ork check	V12DD320 e running C » Log in to another server
Containers	General		
Disks	Status	Name	Details
Notwork	•	Online Help	Online help is available at http://help.esko.com/.
Network	•	DNS	OK
Health	•	License Server	Connection to license server "licman3:27000" OK.
	WebCen	ter Sites	
Scheduled Checks	Status	Name	Details
Settings	•	rdvmaewcr01	WebCenter Site "rdvmaewcr01" is online and accessible.
- 1	•	ikbestaniet	The server "ikbestaniet" does not have a public IPv4 address. Please check its network settings or contact your administrator.
	Devices		
	Status	Name	Details
	•	esko-gen8-1	Digital Press "esko-gen8-1" on "esko-gen8-1" using port "8088" is online and accessible.
	۰	ScreenedOutput	1 Could not connect to the Device "ScreenedOutput1" on "cssuite12a33" using port "3020". Verify that this Device is running and accessible and that you entered the correct information in Configure.
	•	CDI1	Could not connect to the Device "CDI1" on "cssuite12a1" using port "3100". Verify that this Device is running

The network checks are grouped into 3 categories:

- General: This category checks
 - if the Automation Engine Server can connect to the **Online Help** (*http://help.esko.com*).
 - if the **DNS** settings are configured correctly (does the server name of this server computer match with what the DNS returns to other systems when they try to access it).
 - if the **License Server** can be reached (in case of failure, basic network tests are done to verify DNS configuration and TCP/IP connectivity).
 - if the **Assistant Server(s)** can be reached (in case of failure, basic network tests are done to verify DNS configuration and TCP/IP connectivity).
- **WebCenter Sites**: This category checks the network connection between the Automation Engine Server and the configured *WebCenter sites*.
- **RIPs**: The connection with configured Imaging Engines or FlexRips.
- **Workflow Servers**: The connection between the Automation Engine Server and *Nexus* or *Odystar* servers, which are used by the '**Send to** ...tasks' (by now outdated' tasks).
- **Digital Presses**: The connection with configured *digital presses*.
- Devices: The connection with configured Devices (CDI Imagers or Kongsberg tables).
- Esko Cloud Locations. Learn more in Collaborating via Esko Cloud.

If there are no network checks available or applicable for a certain category, then that category will not be shown, except for the **General** category, which is always shown.



Possible Statuses

- 🔨 \varTheta The network test succeeded.
- 9 The network test succeeded, but there are one or more warnings.
- 🔎 The network test failed.
- 🗍 The network test was not applicable or was skipped.

1.5. Checking System Health

These three categories check the health of your server computer: **Processor Cores**, **Memory** and **Tasks**.



Processor Cores

The check determines if sufficient processor cores are present for the current Automation Engine setup.

For each Automation Engine server (master and assistants):

- The number of processor cores is calculated that are required to run the configured number of file streaming sessions (the **Viewer**) and **Gang Run Printing** sessions.
 - **2 file streaming sessions require 1 processor core.** If the number of file streaming sessions is not even, an extra processor core is required.
 - 1 gang run printing session requires 1 processor core.
- Based on this calculation, if there are not enough processor cores, the resulting status is a warning and a specific message. An example:

The number of processor cores in "name-of-the-server" ({1}) is not sufficient. A system that can run {2} file streaming sessions and {3} gang run printing sessions requires at least {4} processor cores.

For the whole cluster, the remaining number of processor cores is checked against the number of defined processing channels. **1 processing channel requires 1 processor core**.



Note: The remaining number of processor cores in the cluster is the sum of all remaining cores in each host after subtracting the ones needed for file streaming and gang run printing sessions.

When there are not enough processor cores to run tasks, the resulting status is a warning and a message appears. An example:

The number of processor cores in the cluster available for running tasks ({0}) is not sufficient. There should be at least {1} processor cores available. Please consider reducing the number of file streaming sessions and/or gang run printing sessions or consider upgrading your cluster.

Memory

This check determines if sufficient memory (RAM) is present for the current Automation Engine setup.

For each Automation Engine server (master and assistants):

- The amount of memory is calculated that is required to run the configured number of file streaming sessions (Viewer) and gang run printing sessions. 1 file streaming session requires 1 GB. 1 gang run printing session requires 500 MB.
- Based on this calculation, if there are is not enough memory, the resulting status is a warning and a specific message is shown. An example:

The amount of memory in "{hostname}" ($\{1\}$) is not sufficient. A system that can run $\{2\}$ file streaming sessions and $\{3\}$ gang run printing sessions requires at least $\{4\}$.

For the whole cluster, the remaining amount of memory is checked against the number of processing channels defined. **1 processing channel requires 2 GB.**

Note: The remaining amount of memory in the cluster = the sum of all remaining memory in each host after subtracting the memory needed for file streaming and gang run printing sessions.

If there is not enough memory to run tasks, the resulting status is a warning and a specific message appears. An example:

The amount of memory in the cluster available for running tasks ({0}) is not sufficient. There should be at least {1} available. Please consider reducing the number of file streaming sessions and/or gang run printing sessions or consider upgrading your cluster.

Tasks

The number of tasks in the tasks database is checked against some predefined thresholds. Also, a check for old tasks is done.

- The thresholds depend on the database version:
 - For an SQL Express edition, the warning threshold is 30.000, the error threshold is 100.000 .
 - For all other database versions, the warning threshold is 200.000, the error threshold is none.
- Old tasks are tasks that were launched more than 6 months ago. The check returns a specific message. An example:



The Tasks database contains {0} tasks of which {1} tasks are older than 6 months. Please consider adding cleanup rules for the Tasks database in Configure.

1.6. Scheduled Checks

This page allows to schedule automatic runs of the **Server Checks**. When there are warnings or errors, they send a report via e-mail.

¢	Automation I	Engine Serve		CLIENT APPS	SAMPLES	SERVER ADMIN	SERVER CHECKS
Home	» Server Checks » Sched	uled Checks					
		Server EA	W12DD32	0 ⊜ running ♂ » Lo	og in to another se	rver	
	Databases	» ADD SCHEDU	JLED CHECK			×	
	Containers	A cohodulad cha	ok will sup outomotically	on the Automation Engine	Sonior and will con		
	Disks	reports when the	ere are warnings or error	rs.	server and will ser	10	
	Network	Check	Databases				
	Health		Containers				
			Disks				
	Scheduled Checks		Network				
	Settings		Health				
	ooungo	Frequency	Weekly \$	Every 1 week(s)			
		Start time	Saturday \$	02:00:00			
		Send report on	Warning or Error	٥)			
		Send report to	tony.soprano@super	print.com			
			The e-mail address or a s will be sent to.	emicolon-separated list of e-mail	addresses the repo	vrt	
					0	3	

To add a scheduled check, click the **Add Scheduled Check** button.

- Select one or more items to **Check**.
- Select the **Frequency** and the **Start time**.
- Specify if you want the report to be sent on **Warning or Error** or on **Error Only**.
- Specify the e-mail address or a semicolon-separated list of e-mail addresses that the report should be sent to.

Click **OK** to add the scheduled check.

Your scheduled check appears in the list. Add more if you want to.



Automation I	Engine Server	CLIENT APPS	SAMPLES SER	VER ADMIN	SERVER CHECKS	
Home » Server Checks » Schedu	uled Checks					
Databases	Server EAW12DD320 » SCHEDULED CHECKS	😑 running C → Loς	g in to another server			
Containers	Check	Frequency	Start time)		
Disks	Databases, Containers, Disks, Network, Health	Every day	08:00:00	Modify	Remove	
Network						
Health						
Scheduled Checks	ADD SCHEDULED CHECK					
Settings	Click the lock to prevent further changes.					

1.7. Settings

🔅 Aut	omation	Engine Server		CLIENT APPS	SAMPLES	SERVER ADMIN	SERVER CHECKS		
Home » Server (Checks » Settinį	38							
	Databases	Server EA » settings	W12DD320	running C » Lo	g in to another s	server			
	Containers	Containers	Warn when used disk s	space is above 90.0 S	%				
	Disks		Provide error when used disk space is above 99.0 %						
	Network	Click the lock to a	make changes						
	Health		nano unangos.						
Schedu	led Checks								
	Settings								

Enter the new values for the settings you wish to change and click **Apply**. The new values will be used the next time those checks are done.

For the check on **Containers**, you can decide the percentage of used disk space that triggers a warning (90% by default) or an error (99% by default).



2. Troubleshooting the Pilot

The **Connection Doctor** checks if the Pilot's connection to the Automation Engine server works properly. This tool helps you to fix a problem without the need to contact Esko support.

Consulting the Connection Doctor

In the Pilot, choose **Tools** > **Connection Doctor**.

6	🖸 Connection Doctor 📃 💻							
F	ile							
	Status	Name	Details					
	•	Server	RDVMAE22 is running Automation Engine 18.1.1 (build 1196).					
	•	Latency	Latency in the connection to the server is acceptable (ping 1.2! (info: download speed is 93.73 Mbps, upload speed is 93.62 M	9 ms). Ibps)				
		Viewer	Automation Engine Viewer is working OK.					
	•	Software Update	Updates will be downloaded and installed when they become a	wailable	÷.			
	•	Direct internet access	Online help is available at https://www.esko.com/en/Support/	Overvie	w/.			
	0			Che	eck Ag	jain		

Note: When you have troubling logging on to the Pilot (or Shuttle), the error message will also allow to start up this tool:

8	Login failed for "admin@rdvmaedemo". The server may not exist or is unavailable at this time. the server name, check your network connection, and	Please check then try again.	
Connec	tion Doctor	ОК	

This tool checks:

- Access to the Automation Engine server software
- Latency in the network between client and server
- Access to the service on the server that runs the Automation Engine Viewer
- Access to updates of the client software (triggered by a change of the server software)
- Direct access to the internet (of this client computer).

Example:

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Status Details

Detailed messages explain the result of the check:

Table: Server

Message	Clarification
The Automation Engine server is down for maintenance. Please try again later or contact your administrator.	The maintenance status includes: server updates, server upgrades or the installation of hot fixes.
The Automation Engine server is restarting. Please try again in a moment.	This can take a few seconds to a few minutes.
The server you're connecting to is an assistant server. Please connect to the master server <host_name master="" of="" the="">.</host_name>	In setups where Automation Engine runs on multiple servers, one server is designated as master. The other servers take up the role of assistants. The master server is the server you need to log in to.
The server is currently set to idle. Please try again later or contact your administrator.	When a server has no or expired licenses and a server restart is done, the server starts up in idle mode ; it then does not accept connections.
There was a problem connecting to <host_name>. Please check that the host name is correct and <host_name> is on.</host_name></host_name>	This computer is unable to connect to the host. Please check that the host name is filled in correctly and that the computer is switched on. Contact your IT department for more assistance.
There was a problem connecting to <host_name>. Please check that the server is running.</host_name>	This client computer is unable to connect to the Automation Engine server. The most common reason for this is that the server software is not running.
	If the server software is running, check if your computer is correctly connected to the network.

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Message	Clarification
	Contact your IT department for more assistance.
There was a problem connecting to <host_name>. Please check that the server is running, and verify with your IT administrator if the "<host_name>'s" host file is correct</host_name></host_name>	This computer is unable to connect to the Automation Engine server. The most common reason for this is that the server software is not running.
nie is correct.	If the server software is running, verify if the hosts file of your operating system is correct. The hosts configuration of this computer contains explicit references to the Automation Engine server's host name and its IP addresses. A configuration error could be the cause of this connection problem.
	Contact your IT department for more assistance.
There was a problem connecting to <host_name>. Please check that your computer is connected to the network.</host_name>	This computer is unable to access the network. You can try and diagnose the problem by using one of the following methods:
	 On Mac, go to: Applications > System Preferences > Network > Assist me to test your connection .
	 On Windows, go to: Start > Control Panel > Network and Internet > Network and Sharing Center > Troubleshoot Problems > Network Adapter to test your connection.

Table: Latency

Message	Clarification
Latency in connection to the server is acceptable.	The response time between this computer and the server (the 'ping') is less than 20 milliseconds, which is considered good (green status).
Latency in connection to the server can be problematic.	The response time between this computer and the server is between 20 milliseconds and 100 milliseconds (orange status). This is OK for normal operations.
Latency in connection to the server is likely unacceptable.	The response time between this computer and the server is more than 100 milliseconds (red status). This is considered too slow for normal operation. Consult with your IT department what can be done to improve the speed.



Table: Viewer

Message	Clarification
There was a problem connecting to the Application Server. Please check that the server is running. Contact your administrator if the problem persists.	Esko's 'Application Server' is a dedicated software service that enables the Viewer tool. In this case this service could not be reached. Check if the server is running.
The Application Server <host_name> is not running on port <port_number>. Please contact your administrator.</port_number></host_name>	The Application Server is not running on the designated port.

Table: Software Update

Message	Clarification
Software updates will be downloaded and installed when they become available.	The Automation Engine Web Server is accessible from this computer. Updates of the client software will be available.
The Automation Engine Web Server could not be reached. Software updates will not be installed on this machine.	This is most likely due to firewall restrictions. Contact your administrator to resolve this issue.

Note: The Automation Engine server hosts software updates for its client applications like the Pilot and Shuttle. This test checks if software updates can be downloaded from the server to the client computer. The test will fail if the Automation Engine Web Server is not correctly hosted on port 9999. For example, if another web service has claimed this port on the server. Please contact your Automation Engine administrator to resolve this issue.

Table: Direct internet access

Message	Clarification
Esko online help is available at <i>http:// help.esko.com/</i> .	This computer can access the internet.
Pilot was unable to connect to the Internet. Please check the Internet proxy preferences of your operating system if you have experience problems accessing Esko online help.	This computer was unable to connect to the internet (it could, as a sample test, access Esko's help pages). Check the internet proxy preferences of your operating system. Contact your IT department for more assistance.

Note: When Esko's online help pages are unreachable, a warning is shown. This does not necessarily mean that the online help is unavailable. Your internet browser, which is used to display the help pages, may be configured with an internet proxy that enables you to access the online help even if the Pilot is unable to connect to it. Please contact your IT administrator for more information.



3. Troubleshooting the Software

The **Diagnostics** tool allows you to monitor the status and activity of the Automation Engine software in deep technical detail. This tool is typically used by Esko support staff. In case they want you to use it, they will instruct you how to use it.

S Diagnostics RDVMAEDEMO				
File				
Server	Host	PID		
ApplicationServer-1	RDVMAEDEMO	5208		
BackupServer-1	RDVMAEDEMO	4540		
BGMD-1	RDVMAEDEMO	-1	=	
CFS-1	RDVMAEDEMO	3232		
Containerserver-1	RDVMAEDEMO	6748		
dfe-1	RDVMAEDEMO	3508		
DIM-1	RDVMAEDEMO	5192		
ElemServer-1	RDVMAEDEMO	5228		
ElemTasks-1	RDVMAEDEMO	5228		
EventBroker-1	RDVMAEDEMO	3392	Ψ.	
Dynamic Static		🖃 Ma	ail	
PixelMachineWatchDogServer 24 Mar 11:01:21.378 - INFO: PixelMachine terminated via shutdown request				
PixelMachineWatchDogServer 24 Mar 11:01:24.485 - INFO: Starting PixelMachine				
PixelMachineWatchDogServer 24 Mar 11:01:24.499 - INFO: PixelMachine terminated via shutdown request				
PixelMachineWatchDooServer 24 Mar 11:01:27.615 - INFO: Starting PixelMachine				
PixelMachineWatchDooServer 24 Mar 11:01:27.629 - INFO: PixelMachine terminated via shutdown request			$\overline{\mathbf{v}}$	
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This tool is automatically installed on any client computer that downloaded a Pilot and/ or Shuttle from the **Automation Engine Server Web page**. You can start it up by using its desktop shortcut.