

Kofax TotalAgility Configuration Utility Guide

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KOFAX

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Preface

This guide explains how to use the Configuration Utility to update settings across various configuration files for different types of installation and deployment.

Related documentation

The full documentation set for Kofax TotalAgility is available at the [Product documentation page](#).

In addition to this guide, the documentation set includes the following items:

- *Kofax TotalAgility Prerequisites Guide*: Provides system requirements for installing TotalAgility, instructions for running the prerequisite utility, and a software checklist for various installation types.
- *Kofax TotalAgility Installation Guide*: Describes how to install and configure TotalAgility.
- *Kofax TotalAgility Integration Server Installation Guide*: Describes how to install Kofax Integration Server and integrate it with other products.
- *Kofax TotalAgility On-Premise Multi-Tenant Installation Guide*: Describes how to install and configure On- Premise Multi-Tenant system.
- *Kofax TotalAgility Administrator's Guide*: Provides information to the administrator on configuring and maintaining a TotalAgility installation.
- *Kofax TotalAgility Architecture Guide*: Provides an overview of the TotalAgility architecture, covering various deployments for on-premise, on-premise multi-tenancy and Azure environments.
- *Kofax TotalAgility Best Practices Guide*: Describes the best practices you must follow when using TotalAgility to improve performance, cost, maintenance, availability and security.
- *Kofax TotalAgility Features Guide*: Provides an overview of the TotalAgility features.
- *Kofax TotalAgility Migration Guide*: Provides information on TotalAgility upgrades from different versions and post upgrade configuration.
- *Kofax TotalAgility Help*: Provides details about using TotalAgility to design business jobs and cases, assign resources, create forms, integrate with external applications, and more. Access the help from the TotalAgility application by clicking the Help button.
- *Kofax TotalAgility Workspace Help*: Describes how to use the Workspace to manage activities, jobs, and resources. Access the help from the TotalAgility Workspace by clicking the Help button.
- *Kofax TotalAgility On-Premise Multi-Tenant System Help*: Describes how to create and manage tenants using the TotalAgility On-Premise Multi-Tenant system.
- *Kofax TotalAgility Web Capture Control Help* : Provides details on using a Web Capture control in creating multi-page documents, creating a new document in a new folder, deleting pages that

have been incorrectly scanned, and more; also, describes the buttons available in a Web Capture control toolbar.

- *Kofax Analytics for TotalAgility Product Features Guide*: Provides an overview of the dashboards that help you track data through the workflow, analyze the effectiveness of the processes and resources, and address business problems.
- *Kofax TotalAgility Tables*: Describes the Kofax TotalAgility tables and fields used by Kofax Analytics for TotalAgility.
- *Migration From Kofax Products Guide*: Provides information about migrating TotalAgility files and Kofax Transformation Modules projects to TotalAgility.

Training


Kofax offers both classroom and online training to help you make the most of your product. To learn more about training courses and schedules, visit the [Kofax Education Portal](#) on the Kofax website.

Getting help with Kofax products

The [Kofax Knowledge Base](#) repository contains articles that are updated on a regular basis to keep you informed about Kofax products. We encourage you to use the Knowledge Base to obtain answers to your product questions.

To access the Kofax Knowledge Base:

1. Go to the [Kofax website](#) home page and select **Support**.
2. When the Support page appears, select **Customer Support > Knowledge Base**.

 The Kofax Knowledge Base is optimized for use with Google Chrome, Mozilla Firefox or Microsoft Edge.

The Kofax Knowledge Base provides:

- Powerful search capabilities to help you quickly locate the information you need.
Type your search terms or phrase into the **Search** box, and then click the search icon.
- Product information, configuration details and documentation, including release news.
Scroll through the Kofax Knowledge Base home page to locate a product family. Then click a product family name to view a list of related articles. Please note that some product families require a valid Kofax Portal login to view related articles.

From the Knowledge Base home page, you can:

- Access the Kofax Community (for all customers).
Click the **Community** link at the top of the page.
- Access the Kofax Customer Portal (for eligible customers).
Click the **Support** link at the top of the page. When the Customer & Partner Portals Overview appears, click **Log in to the Customer Portal**.

- Access the Kofax Partner Portal (for eligible partners).
Click the **Support** link at the top of the page. When the Customer & Partner Portals Overview appears, click **Log in to the Partner Portal**.
- Access Kofax support commitments, lifecycle policies, electronic fulfillment details, and self-service tools.
Go to the **General Support** section, click **Support Details**, and then select the appropriate tab.

Configuration Utility

The TotalAgility Configuration Utility allows you to modify or update settings across multiple configuration files at one go instead of updating each file separately. The utility is available on the installation media.

You can choose to run the utility in either of the following modes:

- **Configure current installation:** To configure the current installation by viewing or modifying the configuration settings for the current installation of TotalAgility. You can also save or load the settings from an external file.
- **Docker mode:** To create a docker settings file that can be used to run a container. You can enter your own values or load values from an external file.

On running the utility to modify the current installation, the settings are displayed under various tabs. The settings are based on the deployment type (On-Premise, On-Premise Multi-Tenant and Integration server) and installation type (Web, Application and Combined Web Application server). The following configuration files are affected.

Configuration file	Location
Web.config	..\Agility.Server.Web
Agility.Server.Core.WorkerService.exe.config	.. \CoreWorkerService
Kofax.CEBPM.CPUServer.ServiceHost.exe.config	..\Transformation Server
Kofax.CEBPM.Reporting.TAService.exe.config	..\Reporting
Agility.Server.StreamingService.exe.config	..\Agility.Server.Web for a Web server ..\CoreWorkerService for an Application server
Agility.Server.Core.ExportService.exe.config	..\CoreWorkerService
Agility.Server.Core.Executor.exe.config	..\CoreWorkerService ..\Agility.Server.Web ..\Reporting ..\Transformation Server

When you run the utility to modify the settings in a docker mode, the DockerSettings.env file is generated with the modified settings.

We recommend that you verify whether you are able to remotely connect to the database server where the databases were set up using SQL Server Management Studio that uses the IP address. This verifies that the docker containers are connected to the database server without any issues. The user running the Configuration Utility must have read and write permissions on the

configuration files, and access to the TotalAgility databases (for an on-premise environment) and Master Tenant databases (for on-premise multi-tenant environment).



- We recommend that you use IP addresses for the database servers, since machine names are usually unresolvable inside a docker container.
 - Firewall should allow remote access to SQL Server.
 - SQL Server itself should be configured to allow remote access with Mixed mode since the user is also allowed to access without Windows Authentication.
 - To use split databases, the Main and Finished Jobs databases must point to the same database and reside on the same database server. This is because MSDTC is currently not supported by Microsoft on Docker containers.
 - For instances where machine name is required, use the machine name of the container. For example, in the docker run command below, "container1" is the machine name of the container.

```
docker run -it --hostname "container1" --env-file "C:\Docker\TotalAgility\dockersettings.env" -p 5000:80 kofaxop
```
 - TCP/IP protocols should be enabled for SQL Server.
- Named pipes protocol does not work.

Run the Configuration Utility

1. Navigate to `TotalAgility\Utilities\ConfigurationUtility` on the installation media.

If you run the utility in the Docker mode, we recommend that you do not modify the folder structure of the installation media as the utility works from its location.

2. Run `KTAConfigurationUtility.exe`.
The **Configuration Editor Tool** dialog box appears.

3. Do either of the following:

Option	Description
View or modify the configuration settings for the current installation of TotalAgility.	<p>a. Select Configure current installation (default).</p> <p>b. Click OK. On prompt, confirm whether you want to stop the services automatically.</p> <div data-bbox="578 520 1450 625" style="background-color: #e6f2ff; padding: 5px;"> <p>i We recommend that you choose stopping the services automatically if you want to change the settings. If you only want to view the settings, there is no need to stop the services.</p> </div> <p>The Configuration window displays the settings that are grouped by tabs based on the deployment type and installation type.</p> <p>c. The Common tab displays the settings that are common across multiple configuration files. Click each tab and make the changes, as needed. Alternatively, to load the modified settings from an existing file, click Load From Text File and select the text file in which the configuration changes were already made.</p> <p>d. To save the new configuration settings to a text file and reuse when needed, click Save To Text File.</p> <p>e. Click Save. The configuration files are updated with the modified settings. The system generates a log file which reports errors (if any).</p> <p>f. The updated changes will only take effect when the services are restarted. On prompt, click Yes to confirm automatic restart of the services.</p>
Run the utility in docker mode.	<p>a. Select Docker mode.</p> <p>b. Click OK. The Configuration window displays the settings that are grouped by tabs based on the docker container type. By default, the settings for full installation type are displayed.</p> <p>c. On the Docker Container Type list, select the container type. Available container types are Full Install (default), Web, Web and App, App, RTTS, Reporting, Transformation Server, and Licensing. Based on the selected docker container type, the settings are displayed under various tabs.</p> <p>d. The Common tab displays the settings that are common across multiple configuration files. Click each tab and make the changes, as needed. Alternatively, to load the modified settings from an existing file, click Load From Text File and select the text file in which the configuration changes were already made.</p> <p>e. To save the new configuration settings to a text file and reuse when needed, click Save To Text File.</p> <p>f. Click Save Docker Settings. The DockerSettings.env file is generated successfully with the modified settings. The system generates a log file which reports errors (if any).</p>

Run the Configuration Utility in silent mode

You can run the Configuration utility in a silent mode in a docker or non-docker mode. This allows the same configuration to be automatically applied to multiple instances of a TotalAgility server that have the same configuration settings. For example, in a TotalAgility deployment, a customer may have multiple Core Worker servers that share the same configuration settings. In such a case, silent mode configuration allows you to automatically apply the configuration to similar configuration files.

1. On the Command Prompt, change the command line to the root directory of the KTAConfigurationUtility.exe file.
2. Do either of the following:
 - To run the utility in non-docker mode, run `KTAConfigurationUtility.exe "/Silent" "<text file path>/ConfigSettings_OnPremise_FullInstall.txt" "false"` where, `ConfigSettings_OnPremise_FullInstall.txt` is the text file with configuration settings.
 - To run the utility in docker mode, run `KTAConfigurationUtility.exe "/Silent" "<text file path>/ConfigSettings_OnPremise_FullInstall.txt" "true"` where, `ConfigSettings_OnPremise_FullInstall.txt` is the text file with configuration settings.

The Configuration Utility is run automatically and the configuration settings are updated as per the settings in the text file for non- docker mode. In a docker mode, the `DockerSettings.env` file is generated with the settings specified in the text file.

The system generates a log file which reports errors (if any).

Configuration settings

This section describes the configuration settings for various deployments and installation types.

On-premise

This section describes the configuration settings for a TotalAgility on-premise deployment type.

Common

This tab displays the databases installed for a TotalAgility on-premise installation. These settings appear for a Web server, Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Main	MainDBConnectionString	Specifies the Main database connection string for the TotalAgility database server. i To change a database, change the database name and point to the server where the database resides. Specify the IP address of the database server in docker mode as machine name is not supported in docker. Do this for all the databases.
Audit	AuditDBConnectionString	Specifies the Audit database connection string for the TotalAgility database server.
Finished Jobs	ArchiveDBConnectionString	Specifies the Archive database connection string for the TotalAgility database server.

Label	Configuration setting	Description
Data Layer	<p>Reads from the table SERVER_DATA of Main database.</p> <p>i If you provide incorrect main db details, or if main db is not accessible, from where the configuration tool is run, error occurs.</p>	Specifies the Data Layer database connection string for the TotalAgility database server.
Reporting	ReportingMainDBConnectionString	Specifies the Reporting database connection string for the TotalAgility database server.
Staging	ReportingStagingDBConnectionString	Specifies the Reporting Staging database connection string for the TotalAgility database server.

Based on the installation type, the changes to settings apply to the following configuration files:

- Web.config
- Agility.Server.Core.WorkerService.exe.config
- Kofax.CEBPM.CPUServer.ServiceHost.exe.config
- Kofax.CEBPM.Reporting.TAService.exe.config
- Agility.Server.StreamingService.exe.config
- Agility.Server.Core.ExportService.exe.config

The value for the Documents database is maintained within the SERVER_DATA.CEBPM_SETTINGS column.

Web

This tab is only available for a TotalAgility Web server and combined Web Application server installation.

Label	Configuration setting	Description
Core Services Location	CoreServicesLocation	<p>Specifies the location for the core services.</p> <p>i This setting is only available for a Web server installation. Provide the HTTPS core services location if you have enabled SSL.</p> <p>See Additional information on configuring the Core service location</p>

Label	Configuration setting	Description
Cross Origin Resource Sharing	CorsAllowedOrigins	<p>Specifies the domains permitted to perform Cross Origin Resource Sharing.</p> <p>For example, when there are two domains, to allow access to the Kofax TotalAgility SDK APIs on your Application server, configure the setting as follows:</p> <pre><add key="CorsAllowedOrigins" value="http://sub-domain1.sub-domain2.domain1.com,http://domain2"/></pre> <p>To allow ALL domains to have access, configure the setting as follows:</p> <pre><add key="CorsAllowedOrigins" value="*" /></pre> <p>i The setting with (value="") means CORS is not enabled.</p>
Online Help URL	OnlineHelpURL	Specifies the location for the TotalAgility online help.
Minify Deployed Forms	MinifyDeployedForms	Specifies whether the java script files deployed by the Form Designer should be minified.
Anti-CSRF Target Host Name	TargetHostName	<p>Specifies the target name (FQDN of the Web Server) for validating the Anti-CSRF tokens. This name should be the host/domain name of the TotalAgility Web server.</p> <p>i The host name should be the same host/domain as specified in the browser URL.</p>
Anti-CSRF Target Port Number	TargetPortNo	<p>Specifies the target port number (website port number) for validating the Anti-CSRF tokens. This should be the port number of the TotalAgility Web server. Specify a port number only if it is required in the browser URL.</p> <p>i The port should be the same port number as specified in the browser URL.</p>
Use Host Prefix for Cookies	UseHostPrefixforCookies	<p>Enables "Host Prefix for Cookies", a browser functionality which makes the cookies more secure by prefixing the TotalAgility cookie names with "_HOST-". When a cookie name starts with this flag, it triggers additional browser policy on the cookie in supporting browsers. A _Host--prefixed cookie is only accessible by the same domain it is set on, which means a subdomain can no longer overwrite the cookie value. It also makes a cookie accessible from HTTPS sites only. This protects the cookie even if an attacker uses a forged insecure site to overwrite a secure cookie.</p>

Label	Configuration setting	Description
KCM Server URL	CCMServerURL	Enter the KCM (Kofax Communication Manger) server URL in the following format: http(s)://<KCMServer>:<Portnum> Provide the IP address and Port number of the KCM server.
KCM Proxy URL	CCMProxyURL	Specifies the location of the KCM Proxy used by the KCM control to communicate with the KCM server.
Enable Replay Protection	EnableReplayProtection	Enables per HTTP request validation to prevent replay attacks. (Default: clear)
Inbound Authentication <ul style="list-style-type: none"> • HTTP with manual logon • HTTPS with manual logon • HTTP with Windows Authentication • HTTPS with Windows Authentication • HTTP with manual and Windows Authentication • HTTPS with manual and Windows Authentication 	Refers to the <code>security</code> section under <code>system.serviceModel/bindings</code>	Specify the authentication mode to be set for the server. <div style="background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p>i</p> <ul style="list-style-type: none"> • Before changing the authentication mode from HTTP to HTTPS or vice versa, you must enable SSL in the IIS; otherwise, the server may remain in an unsecured state. You must also update the <code>coreserviceslocation</code> and <code>Streaming</code> service base address. • To use manual and Windows authentication type, you must enable both <code>Anonymous</code> and <code>Windows Authentication</code> modes in the IIS. • If you change the authentication type to manual and Windows authentication, you will be redirected to manual logon if Windows authentication fails. • Provide the streaming service URL on the <code>Streaming</code> tab with <code>http/https</code> based on the Inbound authentication selected. </div>
Outbound Authentication <ul style="list-style-type: none"> • HTTP with manual logon • HTTPS with manual logon • HTTP with Windows Authentication • HTTPS with Windows Authentication 	Refers to the <code>security</code> section under <code>system.serviceModel/bindings</code>	Specify the communication between Web server and App server. This updates the relevant Core Services bindings in <code>TotalAgility web.config</code> and <code>Streaming</code> service configuration files. This setting is only available only for a Web server. If you select the Outbound authentication as <code>http</code> , then the <code>Core Services Location URL</code> on the <code>Web</code> tab should also be with <code>http</code> , and vice versa.

The changes to settings apply to the following configuration files:

- `Web.config`
- `Agility.Server.StreamingService.exe.config`

Additional information on configuring the Core services location

In a non-docker mode, when you configure the Core Service location on a Web server, set the location during installation as shown in the examples below:

- **Non SSL:** `http://<AppserverMachineName>/<TotalAgilityWebsiteName>/services/core`
- **SSL:** `https://<AppserverMachineName>/<TotalAgilityWebsiteName>/services/core`

In a docker mode, you can set the location using the Configuration Utility by specifying the Host machine name and Application Server container port number. By doing so you need not update the host files or DNS entries on the App or Web containers if the IP is changed for an App container. For example:

- **Non SSL:** `http://<AppServerHostMachine>:5000/<TotalAgilityWebsiteName>/services/core`
(where 5000 is the port number of the Application server container)
- **SSL:** `https://<AppServerHostMachine>:5000/<TotalAgilityWebsiteName>/services/core`
(where 5000 is the port number of the Application server container)

The App server name must resolve on the Web server; this is done automatically if they are on the same domain. If needed, this can be done manually by updating the host file on the Web server or using DNS server.

- For non-docker mode, add the IP address of the Application server name.
- For docker mode, add the IP address of the host machine name.

App

This tab is only available for a TotalAgility Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Recovery Mode Session ID	RecoveryModeSessionId	Used for Federated Security recovery to enable the TotalAgility Designer logon when the user has an issue to resolve in the Federated Security.
Transformation Server Port	TSExternalServicePortForSyncProcessing	This setting specifies the port number to access the local Transformation Server instance. (Default value: 9001)
Outgoing HTTP Connection Limit	OutgoingHttpConnectionLimit	This setting specifies the number of outgoing HTTP connections to the target RPA server when using RPA integration for outgoing HTTP request.

Label	Configuration setting	Description
Inbound Authentication <ul style="list-style-type: none"> • HTTP with manual logon • HTTPS with manual logon • HTTP with Windows Authentication • HTTPS with Windows Authentication 	Refers to the <code>security</code> section under <code>system.serviceModel/bindings</code>	<p>Specify the communication between Web server and App server. This updates the relevant Core Services bindings in TotalAgility <code>web.config</code> and Streaming service configuration files. This setting is only available only for Web server.</p> <p>Provide the streaming service URL in Streaming tab with <code>http/https</code> based on the Inbound authentication selected.</p>

The changes to settings apply to the following configuration files:

- `Web.config`
- `Agility.Server.Core.WorkerService.exe.config`
- `Agility.Server.Core.ExportService.exe.config`
- `Agility.Server.StreamingService.exe.config`
- `Kofax.CEBPM.Reporting.TAService.exe.config`

Core Worker

This tab is only available for a TotalAgility Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Worker Task Poll Interval	<code>CoreWorkerIntervalInSeconds</code>	Specifies how often the system should check for the in-memory worker tasks that are due.
Database Worker Task Poll Interval	<code>CoreWorkerDBIntervalInSeconds</code>	Specifies how often the system should poll for a due database worker task.
Worker Task Timeout Interval	<code>CoreWorkerResetTaskIntervalInSeconds</code>	<p>Specifies how often the system checks for timed-out worker tasks.</p> <p>By default, the timeout interval assigned to each worker task is 300 seconds.</p>
Poll Timeout Activities Reset Interval	<code>CoreWorkerResetActivityIntervalInSeconds</code>	Specifies how often the Core Worker checks for the timed-out activities.
Activity Timeout Interval	<code>CoreWorkerActivityTimeoutIntervalInMinutes</code>	Defines the duration after which an activity is timed out. The activity is only freed once the corresponding task executes.

Label	Configuration setting	Description
Maximum Messages/ Documents to Import	MaximumNumberOfMessagesToImport	Specifies the maximum number of documents or messages to import for document ingest.
Maximum Work Queue Task Size	CoreWorkerWorkQueueSize	Specifies the maximum number of tasks that can be taken by the core worker.
Maximum Evaluate Job Task Size	MaximumNumberOfEvaluateJobTasksToTake	Specifies the maximum number of Evaluate Job tasks to take.
Activity Order	CoreWorkerActivityOrder	<p>Specifies the order in which the activities are taken for processing:</p> <ul style="list-style-type: none"> • Activity Priority= 0 • Activity Due Date= 1 • Activity Priority Due Date= 2 • Activity Due Date Priority= 3 • Job Priority= 4 • Job Due Date= 5 • Job Priority Due Date= 6 • Job Due Date Priority= 7
Maximum Activities to Lock	MaximumNumberOfActivitiesToLock	<p>Specifies the number of automatic activities to lock when the Core Worker polls for the execution of automatic activities.</p> <p>The default value is 32.</p>
Import Connector Name	ImportConnectorName	<p>Allows the administrators to explicitly specify which import connection the Core Worker should use. (Default: All)</p> <p>This setting is useful when multiple Core Workers are set up.</p>

Label	Configuration setting	Description
Performance Logging Enabled	PerformanceLoggingEnabled	Enables Performance counters logging into the log file. For more information on performance monitoring counters, see the following guides: <ul style="list-style-type: none"> • Performance counter usage section in the <i>Kofax TotalAgility Administrator's Guide</i>. • Add performance monitoring counters in the <i>Kofax TotalAgility Installation Guide</i>.
Thread Pool Monitoring Interval	CoreWorkerThreadPoolMonitoringIntervalInSeconds	Defines how often a thread pool should monitor the threads in it. Currently, the monitoring is done to check for thread timeout and this applies only to the thread pools of automatic activity type. The default value is 60.
Archive Delete Worker Tasks to Retrieve	ArchiveDeleteWorkerTasksToRetrieve	Specifies the number of Archive Jobs and DeleteItem non-system level worker tasks to retrieve for execution. The default value is 50.
Archive Delete Retry Interval in Seconds	ArchiveDeleteRetryIntervalInSeconds	Specifies the maximum duration in seconds to calculate the next due date for executing Archive Jobs and DeleteItem non-system level worker tasks. The default value is 0.
Auto Activities Pool ID	AutoActivitiesPoolId	This setting specifies the thread pool ID for automatic activities.
Auto Activities Pool Name	AutoActivitiesPoolName	This setting specifies the thread pool name for automatic activities.
Upgrade Jobs Thread Pool Size	UpgradeJobsThreadPoolSize	This setting specifies the size of upgrade job thread pool. If the thread pool size is full, the core worker waits until there is space to add more tasks.
Enable Replay Protection	EnableReplayProtection	This setting enables per HTTP request validation to prevent replay attacks. (Default: Clear)

Label	Configuration setting	Description
Request Token Timeout Interval in Minutes	RequestTokenTimeoutIntervalInMinutes	This setting specifies the interval that orphaned request tokens used for replay protection should be cleared.
Outgoing HTTP Connection Limit	OutgoingHttpConnectionLimit	This setting specifies the number of outgoing HTTP connections to the target RPA server when using RPA integration for outgoing HTTP request.

The changes to settings only apply to `Agility.Server.Core.WorkerService.exe.config`.

Export Worker

This tab is only available for a TotalAgility Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Activity Order	CoreWorkerActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority= 0 • Activity Due Date= 1 • Activity Priority Due Date= 2 • Activity Due Date Priority= 3 • Job Priority= 4 • Job Due Date= 5 • Job Priority Due Date= 6 • Job Due Date Priority= 7
Poll Timeout Activities Reset Interval	CoreWorkerResetActivityIntervalInSeconds	Specifies how often the Core Worker checks for the timed-out activities.
Activity Timeout Interval	CoreWorkerActivityTimeoutIntervalInMinutes	Defines the duration after which an activity is timed out. The activity is only freed once the corresponding task executes.
Performance Logging Enabled	PerformanceLoggingEnabled	Enable Performance counters logging into log file. For more information on performance monitoring counters, see the following guides: <ul style="list-style-type: none"> • Performance counter usage section in the <i>Kofax TotalAgility Administrator's Guide</i>. • Add performance monitoring counters in the <i>Kofax TotalAgility Installation Guide</i>.

The changes to settings apply to the following configuration files:

- Agility.Server.Web\bin\Agility.Server.ExportConnector.exe.config
- CoreWorkerService\Agility.Server.Core.ExportWorker.Host.exe.config

Transformation Server

You can install the Transformation Server when you install TotalAgility, or install the Transformation Server separately. You can also install the Transformation Server in a different mode if you select the Real time Transformation Service mode when installing TotalAgility.

This tab is only available when you install the Transformation Server when installing TotalAgility for a TotalAgility Application server and Combined Web Application server installation.

When you install the Transformation Server independently, to modify the configuration settings, see [Transformation Server only](#).

When you select to install TotalAgility in the Real Time Transformation Service Mode, to modify the configuration settings, see [Real Time Transformation Service](#).

Label	Configuration setting	Description
Pool Name	PoolName	Specifies the pool from which the Transformation Server will process.
Maximum Number of Slots	MaxProcessingSlotsNumber	Specifies the number of CPU-intensive background processes that may run concurrently, excluding the idle background processes. (Default: 0) The maximum number of processing slots is determined using the following formula: (int)Math.Round(Environment.ProcessorCount * 1.25)
Activity Order	TransformationServiceActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority = 0 • Activity Due Date = 1 • Activity Priority Due Date = 2 • Activity Due Date Priority = 3 • Job Priority = 4 • Job Due Date = 5 • Job Priority Due Date = 6 • Job Due Date Priority = 7
Number of Reserved Slots	ReservedSlotsNumber	Enter the number of slots on the Transformation Server that are reserved for pushed high-priority activities (such as synchronous calls).

Label	Configuration setting	Description
TCP/IP Port Number	Refers to the Port number of the baseAddress under the following section: <code>system.serviceModel/services/service/host/baseAddresses</code>	Specifies the port number of the baseAddress of the Transformation Service. Provide the port number of the Transformation Server.
Activity Timeout Interval In Minutes	<code>ResetActivitesIntervalMinutes</code>	This setting defines the duration after which an activity is timed out. The activity is only freed once the corresponding task executes.
Poll Timeout Activities Reset Interval In Minutes	<code>TakenActivitiesResetTimeoutInMinutes</code>	This setting specifies how often the Transformation Server checks for timed-out activities.
Enable Online Learning	<code>OnlineLearningExecutionEnabled</code>	If selected, enables processing of the Online Learning task in this Transformation Server instance.
Enable Processing of Synchronous Activities	<code>EnableSynchronousCalls</code>	If selected, enables processing of synchronous "pushed" calls.
Process Only Synchronous Activities	<code>SynchronousOnlyProcessing</code>	If selected, specifies that the Transformation Server is only used for Synchronous Capture processing and does not poll for automatic activities.

The changes to settings only apply to the `Kofax.CEBPM.CPUServer.ServiceHost.exe.config`.

Streaming

This tab is available for all deployments and installation types.

Label	Configuration setting	Description
Base Address	Refers to the <code>baseAddress</code> under the following section: <code>system.serviceModel/services/service/host/baseAddresses</code> .	Enter the base address of the Streaming Service in the following format: <code>http(s)://<Server>:<Portnum></code> Provide the FQDN and port number of the server.

The changes to the settings only apply to `Agility.Server.StreamingService.exe.config`.

Job Thread Pool

A job thread performs multiple operations at a time, such as job evaluation, raising an exception job or ingestion through Kofax Import Connector. Multiple operations can lead to bottlenecks in the production systems. For example, when there are thousands of jobs to be archived, ingestion and job evaluation take longer time because the job threads are busy archiving jobs. Adding custom job thread pools, helps in achieving better throughput and prioritizing the background tasks.

You can add custom job thread pools, specify the number of threads in the thread pool and assign the worker task to a thread pool.

This tab is only available for a TotalAgility Application server and Combined Web Application server installation.

Label	Configuration setting	Description
ID	Id	Enter an ID for the thread pool.
Size	Size	Enter the size for the thread pool.
Add	Not applicable	Click Add to add a new thread pool.
Update	Not applicable	Click Update to update the selected thread pool.
Delete	Not applicable	Click Delete to delete the selected thread pool.
Tasks: The following worker tasks are assigned to a thread pool.		
Archive Job Task	WorkerTasks	Assigns the Archive Job Task to a thread pool to archive a job once the job is completed.
Evaluate Job Task	WorkerTasks	Assigns the Evaluate Job Task to a thread pool to evaluate a job.
Create Exception Task	WorkerTasks	Assigns the Create Exception Task to a thread pool to raise an exception job.
Create Job Task	WorkerTasks	Assigns the Create Job Task to a thread pool to create an associated job for a received document.
Ingest System Task	WorkerTasks	Assigns the Ingest System Task to a thread pool to execute the Ingest system task.
Capture Batch Task	WorkerTasks	Assigns the Capture Batch Task to a thread pool to unload a timed out capture activity session.
Delete Item Task	WorkerTasks	Assigns the Delete Item Task to a thread pool to delete an item based on a retention policy.
Process State Action Task	WorkerTasks	Assigns the Process State Action Task to a thread pool to process the action for a job state change.
Terminate Job Task	WorkerTasks	Assigns the Terminate Job Task to a thread pool to terminate the job once the job is completed.
Delete Capture Binary Task	WorkerTasks	Assigns the Delete Capture Binary Task to a thread pool to delete capture binary data.
Activate Suspended Task	WorkerTasks	Assigns the Activate Suspended Task to a thread pool to activate a job that is suspended based on suspend reason.

The changes to the settings only apply to `Agility.Server.Core.WorkerService.exe.config`.

Licensing

Label	Configuration setting	Description
Primary	ServerID	The setting value 1 specifies a primary license server.

Label	Configuration setting	Description
Backup	ServerID	The setting value 2 specifies a backup license server.

Capture Storage

This tab is only available for a TotalAgility Combined Web Application server installation.

On installing TotalAgility, the Capture Storage tab displays the following storage types:

- **SQL Server**
- **SQL Server and File System**
- **Windows Azure Blob Storage**
- **Amazon S3**

The storage types are displayed in a read-only mode as you cannot change the capture data storage type, after installing TotalAgility. You can only modify the connection strings and keys. By default, the capture data is stored in the SQL Server. On upgrading to TotalAgility 7.10.0, you can change the default storage to Windows Azure, Amazon or SQL Server and File System storage types. Once the storage type is changed, you cannot undo or re-modify it.

On installing TotalAgility, you can modify the **Cloud Account Settings** for the storage types, as applicable. On upgrading TotalAgility, you must configure the cloud account settings.

i You must stop all the Kofax TotalAgility services on all TotalAgility servers before changing the cloud storage credentials, and then restart the services after changing.

See the following table for the Cloud Account Settings.

Label	Configuration setting	Description
SQL Server	ServerID	By default, the capture data is stored in the SQL Server.
SQL Server and File System		
File storage settings	ServerID	The SQL Server Filegroup to store the capture binaries.
Windows Azure Blob Storage		
Account Connection String	ServerID	The connection string to connect to the Blob storage service.
Container Name	ServerID	The Container Name of the storage service. i You cannot change the bucket name.
Amazon S3		
Access Key	ServerID	The access key set for cloud storage.
Secret Key	ServerID	The secret access key for cloud storage.

Label	Configuration setting	Description
Region	ServerID	The S3 region system names.
Bucket Name	ServerID	The cloud storage unit. <div style="background-color: #e0f2f7; padding: 5px; border: 1px solid #ccc;"> <p>i You cannot change the bucket name.</p> </div>

Integration Service Bindings

This tab is only available in the Docker mode for the following docker container types: Full Install, Web and App, and App.

By default, all the settings on this tab are not selected. Use this tab is to enable SSL for the following integration service bindings.

Label	Configuration setting	Description
Exchange notification service	BasicHttpBinding_Exchange NotificationService	Enables SSL for Exchange Notification Service.
SharePoint Communicator Service	BasicHttpBinding_SharePoint CommunicatorService	Enables SSL for SharePoint Communicator Service.
TRIM communicator service	BasicHttpBinding_TRIM CommunicatorService	Enables SSL for TRIM Communicator Service.
DynamicsAX Communicator Service	BasicHttpBinding_DynamicsAX CommunicatorService	Enables SSL for DynamicsAX Communicator Service.
DynamicsAX Integration Service	BasicHttpBinding_DynamicsAX IntegrationService	Enables SSL for DynamicsAX Integration Service.
Insight data service	BasicHttpBinding_InsightData Service	Enables SSL for Insight Data Service.

The changes to the settings apply to TotalAgility `Web.config`.

On-premise multi-tenant

This section describes the configuration settings for a TotalAgility on-premise multi-tenant deployment type.

Common

This tab displays the databases installed for a TotalAgility on-premise installation. These configuration settings appear for the Web server, Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Tenant	MainDBConnectionString	<p>Specifies the tenant database name.</p> <p>i You must use SQL Server authentication to connect to the database server.</p> <p>The username and password should be updated using the tenant connection string available in the Tenant Management Website. The tenant username is appended with "live" or "dev" by default, for example <tenant1_live/dev>.</p>
Data Centers	TenantDBConnectionString	<p>Specifies the Data Center database connection string for the TotalAgility database server.</p> <p>i To change a database, change the database name and point to the server where the database resides. Specify the IP address of the database server in docker mode as machine name is not supported in docker.</p>
Deployment Type	DeploymentType	<p>Specifies the mode of environment you wish to set up, such as Live or Dev.</p>
TotalAgility Host Name Live	TotalAgilityHostNameLive	<p>Specifies the host name for the TotalAgility Live environment.</p> <p>i The live host name will only be updated to the master tenants database if on-premise multi-tenancy is installed along with Tenant Management System; otherwise, the live host name will be updated to Web.config.</p> <p>See Additional information on Host Name Live and Host Name Dev</p>

Label	Configuration setting	Description
TotalAgility Host Name Dev	TotalAgilityHostNameDev	<p>Specifies the host name for the TotalAgility Development environment.</p> <p>i The dev host name will only be updated to the master tenants database if on-premise multi-tenancy is installed along with Tenant Management System; otherwise, the dev host name will be updated to Web.config.</p> <p>See Additional information on Host Name Live and Host Name Dev</p>
Multi-Tenant performance Counters	PerformanceCountersMultitenanted	Specifies whether multi-tenanted performance counter instances can be created for each tenant.

The tenant databases are applied to the following configuration files:

- Web.config
- Agility.Server.Core.WorkerService.exe.config
- Kofax.CEBPM.CPUServer.ServiceHost.exe.config
- Kofax.CEBPM.Reporting.TAService.exe.config
- Agility.Server.StreamingService.exe.config
- Agility.Server.Core.ExportService.exe.config
- Agility.Server.Core.Executor.exe.config

The host names are applied to the following configuration files:

- Web.config
- Agility.Server.StreamingService.exe.config

Additional information on Host Name Live and Host Name Dev

In a non-docker mode, when using the LiveHostName and DevHostName to access TotalAgility, the format of the name should be `hostname: port number`.

Host Name: When you are using a load balancer and a public DNS, then Host name text should be the public DNS, such as `cta.app.com`; otherwise, the host name is the host name of the machine where TotalAgility Web server is installed.

Port Number:

- Use port number when TotalAgility is installed on a non-standard TCP port.
- Port number can be ignored when TotalAgility is installed on a default port.

In a docker mode, when using LiveHostName and DevHostName to access the TotalAgility containers, format of text should be as follows: `host name : any TCP port number open for the incoming connection on the host machine`. To get the host name, do the following:

1. On the host name, go to the Command Prompt.

2. Enter the host name.

Command returns the hostname, for example, 'MyHostMachine'

To get the port number, use any TCP port number where incoming connections are allowed. However, ensure to use same port number for the port forwarding while creating the container. For example, if you have given live\dev host names as MyHostMachine :5000. Port forwarding should be done at port 5000 using switch -p in the run command: `docker run --env-file "DockerSettings.env " -p 5000:443 -it kofax/ kta_771.`

If you are using a load balancer and a public DNS, then Host name text should be the public DNS, such as kta.app.com.

TMS (Tenant Management System)

This tab is only available for a TotalAgility on-premise multi-tenant Application server and Combined Web Application server installation.

Label	Setting	Description
Master Tenants	MasterTenantDBConnectionString	Specifies the Master Tenant database connection string for the TotalAgility database server. <div style="border: 1px solid #add8e6; padding: 5px; background-color: #e6f2ff;"> <p>i To change a database, change the database name and point to the server where the database resides.</p> </div>
Send Mail Server	SendMailServer	Specifies the email for the SMTP server.
Send Mail User Name	SendMailUserName	Specifies the user name for the mail server.
Send Mail Password	SendMailPassword	Specifies the password for the mail server.
Send Mail From Address	SendMailFromAddress	Specifies the sender's address from the mail server.
Send Mail BCC List	SendMailBCCList	Specifies the invisible recipient address from the mail server.
Send Mail Enable SSL	SendMailEnableSSL	Specifies if SSL is enabled or disabled for the mail server.
Send Mail Support International Characters	SendMailSupportInternationalCharacters	Specifies if international characters are supported for the mail server.
Anti-CSRF Target Host Name	TargetHostName	Specifies the target name (FQDN of the Web Server) for validating the Anti-CSRF tokens. The name should be the host/domain name of the TotalAgility Web server, and must match the host/domain specified in the browser URL.

Label	Setting	Description
Anti-CSRF Target Port Number	TargetPortNo	Specifies the target port number (website port number) for validating the Anti-CSRF tokens. The port should be the port number of the TotalAgility Web server, and should match the port specified in the browser URL. Specify a port number here only if it is required in the browser URL.
Use Host Prefix for Cookies	UseHostPrefixforCookies	Enables "Host Prefix for Cookies", a browser functionality which makes the cookies more secure by prefixing the TotalAgility cookie names with "__HOST-". When a cookie name starts with this flag, it triggers additional browser policy on the cookie in supporting browsers. A __Host--prefixed cookie is only accessible by the same domain it is set on, which means a subdomain can no longer overwrite the cookie value. It also makes a cookie accessible from HTTPS sites only. This protects the cookie even if an attacker uses a forged insecure site to overwrite a secure cookie.

The changes to settings apply to the following configuration files:


- Agility.Server.Web\web.config
- Agility.Server.Web.TenantManagement\web.config

Web

This tab is only available for a TotalAgility on-premise multi-tenant Web server and Combined Web Application server installation.

Label	Configuration setting	Description
Core Services Location	CoreServicesLocation	<p>Specifies the location for the core services.</p> <p>i This setting is only available for a Web server installation. Provide the HTTPS core services location if you have enabled SSL.</p> <p>See Additional information on configuring Core service location</p>

Label	Configuration setting	Description
Cross Origin Resource Sharing	CorsAllowedOrigins	<p>Specifies the domains permitted to perform Cross Origin Resource Sharing.</p> <p>For example, when there are two domains, to allow access to the Kofax TotalAgility SDK APIs on your Application server, configure the setting as follows:</p> <pre><add key="CorsAllowedOrigins" value="http://sub-domain1.sub-domain2.domain1.com,http://domain2"/></pre> <p>To allow ALL domains to have access, configure the setting as follows:</p> <pre><add key="CorsAllowedOrigins" value="*" /></pre> <div data-bbox="954 785 1451 863" style="background-color: #e0f2f7; padding: 5px;"> <p>i The setting with (value="") means CORS is not enabled.</p> </div>
Online Help URL	OnlineHelpURL	<p>Specifies the location for the TotalAgility online help.</p>
Minify Deployed Forms	MinifyDeployedForms	<p>Specifies whether the java script files deployed by the Form Designer should be minified.</p>
Anti-CSRF Target Host Name	TargetHostName	<p>Specifies the target name (FQDN of the Web Server) for validating the Anti-CSRF tokens. The name should be the host/domain name of the TotalAgility web server, and must match the host/domain specified in the browser URL.</p>
Anti-CSRF Target Port Number	TargetPortNo	<p>Specifies the target port number (website port number) for validating the Anti-CSRF tokens. The port should be the port number of the TotalAgility Web server, and should match the port specified in the browser URL. Specify a port number here only if it is required in the browser URL.</p>
KCM Server URL	CCMServerURL	<p>Specifies the KCM (Kofax Communication Manger) server URL.</p> <p>Enter the KCM Server URL in the following format: <code>http(s)://<CCMServer>:<Portnum></code>.</p> <p>Provide the IP address and Port number of the KCM server.</p> <div data-bbox="954 1667 1451 1745" style="background-color: #e0f2f7; padding: 5px;"> <p>i This setting is only available for a Web server installation.</p> </div>

Label	Configuration setting	Description
KCM Proxy URL	CCMProxyURL	Specifies the location of the KCM (Kofax Communication Manger) Proxy used by the KCM Control to communicate with the KCM server.  This setting is only available for a Web server installation.
Enable Replay Protection	EnableReplayProtection	Enables per HTTP request validation to prevent replay attacks. (Default: clear)
Use Host Prefix for Cookies	UseHostPrefixforCookies	Enables "Host Prefix for Cookies", a browser functionality which makes the cookies more secure by prefixing the TotalAgility cookie names with "__HOST-". When a cookie name starts with this flag, it triggers additional browser policy on the cookie in supporting browsers. A __Host--prefixed cookie is only accessible by the same domain it is set on, which means a subdomain can no longer overwrite the cookie value. It also makes a cookie accessible from HTTPS sites only. This protects the cookie even if an attacker uses a forged insecure site to overwrite a secure cookie.

The changes to settings apply to the following configuration files:

- Web.config
- Agility.Server.StreamingService.exe.config

Additional information on configuring the Core service location

For an on-premise multi-tenant deployment, at runtime, the tenant name is dynamically prepended to the Core service location as shown in the examples below.

- **Non-docker**

- **Non SSL:** `http://<TenantName.AppServerMachineName>/<TotalAgilityWebsiteName>/services/core`
- **SSL:** `https://<TenantName.AppServerMachineName>/<TotalAgilityWebsiteName>/services/core`

- **Docker**

- **Non SSL:** `http://<TenantName.AppServerHostMachineName>:5000/<TotalAgilityWebsiteName>/services/core`
(where 5000 is the port number of the Application server container)
- **SSL:** `https://<TenantName.AppServerHostMachineName>:5000/<TotalAgilityWebsiteName>/services/core`
(where 5000 is the port number of the Application server container)

Kofax TotalAgility needs to resolve { TenantName.AppServerName } on both app and web servers. Update the host files or DNS entries on the web/app servers. We recommend to use a wildcard DNS.

- For non-docker mode, add the IP address of the Application server.
- For docker mode, add the IP address of the TenantName.HostMachineName in the containers.

i The Core Services location should specify the machine name and not IP address for the Application server. The machine IP does not work for on-premise multi-tenant deployment because Kofax TotalAgility resolves { TenantName.MachineName} on the App/Web servers through the "Live/Dev Host name" setting and not { TenantName.MachineIP }.

App

This tab is only available for a TotalAgility on-premise multi-tenant Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Recovery Mode Session ID	RecoveryModeSessionId	Used for Federated Security recovery to enable the TotalAgility Designer logon when the user has an issue to resolve in the Federated Security.
Transformation Server Port	TSExternalServicePortForSyncProcessing	This setting specifies the port number to access the local Transformation Server instance. The default value is 9001.
KCM Server URL	CCMServerURL	Setting specifies the KCM (Kofax Communication Manger) server URL. Enter the KCM Server URL in the following format: <code>http(s)://<CCMServer>:<Portnum></code> . Provide the IP address and Port number of the KCM server.
KCM Proxy URL	CCMProxyURL	Specifies the location of the KCM (Kofax Communication Manger) Proxy used by the KCM Control to communicate with the KCM server.
Tenant Activation Interval in Seconds	TenantActivationIntervalInSeconds	This setting specifies the time interval between retries used by the system when a tenant is found to be inaccessible. If the tenant still cannot be accessed after the maximum number of retries, it will be made inactive. If the tenant is found to be accessible before the maximum number of retries, it will be made active again. The default tenant activation interval is 30 seconds.

Label	Configuration setting	Description
Tenant Activation Retry Count	TenantActivationRetryCount	This setting specifies the maximum number of retries used by the system when a tenant is found to be inaccessible. If the tenant still cannot be accessed after the maximum number of retries, it will be made inactive. If the tenant is found to be accessible before the maximum number of retries, it will be made active again. The default retry count is 5.
Outgoing HTTP Connection Limit	Outgoinghttpconnectionlimit	This setting specifies the number of outgoing HTTP connections to the target RPA server when using RPA integration for outgoing HTTP request.

The changes to settings only apply to `Agility.Server.Web\web.config`.

Core Worker

This tab is only available for a TotalAgility on-premise multi-tenant Application server and Combined Web Application server installation.

Label	Configuration setting	Description
Auto Activity Thread Pool Size	CoreWorkerMaxAutoActivityThreadPoolSize	This setting specifies the maximum size of the activity thread pool. If the thread pool size is full, the core worker will wait until there is space to add more tasks.
Job Thread Pool Size	CoreWorkerMaxJobThreadPoolSize	This setting specifies the maximum size of the job thread pool. If the thread pool size is full, the core worker will wait until there is space to add more tasks.
Process Activities Thread Pool Size	CoreWorkerMaxProcessActivitiesThreadPoolSize	Specifies the maximum size of the process activities thread pool. If the thread pool size is full, the core worker will wait until there is space to add more tasks.
Worker Task Poll Interval	CoreWorkerIntervalInSeconds	Specifies how often the system should check for the in-memory worker tasks that are due.
Worker Task Timeout Interval	CoreWorkerResetTaskIntervalInSeconds	Specifies how often the system checks for timed-out worker tasks. By default, the timeout interval assigned to each worker task is 300 seconds.

Label	Configuration setting	Description
Poll Timeout Activities Reset Interval	CoreWorkerResetActivityIntervalInSeconds	Specifies how often the Core Worker checks for the timed-out activities. By default, the reset activity interval assigned to each worker task is 300 seconds. <div style="background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> ⓘ For an Azure environment, the default reset activity interval assigned to each worker task is 900 seconds. A tenant can still override the default value by setting the expected duration of an activity within the process in TotalAgility Designer. See <i>TotalAgility help</i> for more information. </div>
Activity Timeout Interval	CoreWorkerActivityTimeoutIntervalMinutes	Defines the duration after which an activity is timed out. When an activity times out. The activity is only freed once the corresponding task executes.
Maximum Messages/ Documents to Import	MaximumNumberOfMessagesToImport	Specifies the maximum number of documents/messages to import for Document Ingest.
Maximum Work Queue Task Size	CoreWorkerWorkQueueSize	Specifies the maximum number of tasks that can be taken by the core worker.
Maximum Evaluate Job Task Size	MaximumNumberOfEvaluateJobTasksToTake	Specifies the maximum number of Evaluate Job tasks to take.
Activity Order	CoreWorkerActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority= 0 • Activity Due Date= 1 • Activity Priority Due Date= 2 • Activity Due Date Priority= 3 • Job Priority= 4 • Job Due Date= 5 • Job Priority Due Date= 6 • Job Due Date Priority= 7

Label	Configuration setting	Description
Performance Logging Enabled	PerformanceLoggingEnabled	<p>Enables Performance counters logging into log file.</p> <p>For more information on performance monitoring counters, see the following guides:</p> <ul style="list-style-type: none"> • Performance counter usage section in the <i>Kofax TotalAgilityAdministrator's Guide</i>. • Add performance monitoring counters in the <i>Kofax TotalAgility Installation Guide</i>.
Thread Pool Monitoring Interval	CoreWorkerThreadPoolMonitoringInterval InS econds	<p>Defines how often a thread pool should monitor the threads in it. Currently, the monitoring is done to check for thread timeout and this applies only to the thread pools of automatic activity type.</p> <p>The default value is 60.</p>
Auto Activities Pool ID	AutoActivitiesPoolId	This setting specifies the thread pool ID for automatic activities.
Auto Activities Pool Name	AutoActivitiesPoolName	This setting specifies the thread pool name for automatic activities.
Upgrade Jobs Thread Pool Size	UpgradeJobsThreadPoolSize	This setting specifies the size of upgrade job thread pool. If the thread pool size is full, the core worker waits until there is space to add more tasks.
Tenant Activation Interval in Seconds	TenantActivationIntervalInSeconds	<p>This setting specifies the time interval between retries used by the system when a tenant is found to be inaccessible. If the tenant still cannot be accessed after the maximum number of retries, it will be made inactive. If the tenant is found to be accessible before the maximum number of retries, it will be made active again.</p> <p>The default tenant activation interval is 30 seconds.</p>

Label	Configuration setting	Description
Tenant Activation Retry Count	TenantActivationRetryCount	This setting specifies the maximum number of retries used by the system when a tenant is found to be inaccessible. If the tenant still cannot be accessed after the maximum number of retries, it will be made inactive. If the tenant is found to be accessible before the maximum number of retries, it will be made active again. The default retry count is 5.
Enable Replay Protection	EnableReplayProtection	This setting enables per HTTP request validation to prevent replay attacks. (Default: Clear)
Request Token Timeout Interval in Minutes	RequestTokenTimeoutIntervalinMinutes	This setting specifies the interval that orphaned request tokens used for replay protection should be cleared.
Outgoing HTTP Connection Limit	OutgoingHttpConnectionLimit	This setting specifies the number of outgoing HTTP connections to the target RPA server when using RPA integration for outgoing HTTP request.

The changes to settings only apply to `Agility.Server.Core.WorkerService.exe.config`.

Streaming

This tab is available for all deployments and installation types.

Label	Configuration setting	Description
Base Address	Refers to the <code>baseAddress</code> under the section <code>system.serviceModel/services/service/host/baseAddresses</code> .	Enter the base address of the Streaming Service in the following format: <code>http(s)://<Server>:<Portnum></code> Provide the FQDN and port number of the server.

The changes to settings only apply to `Agility.Server.StreamingService.exe.config`.

Transformation Server

You can install the Transformation Server when you install TotalAgility, or install the Transformation Server separately. This tab is only available when you install the Transformation Server for a TotalAgility Application server and Combined Web Application server installation.

If you have installed Transformation Server independently, see [Transformation Server only](#).

Label	Configuration setting	Description
Pool Name	PoolName	Specifies the pool from which the Transformation Server will process.
Maximum Number of Slots	MaxProcessingSlotsNumber	Specifies the number of CPU-intensive background processes that may run concurrently, excluding the idle background processes. (Default: 0) The maximum number of processing slots is determined using the following formula: $(int) \text{Math.Round}(\text{Environment.ProcessorCount} * 1.25)$
Activity Order	TransformationServiceActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority = 0 • Activity Due Date = 1 • Activity Priority Due Date = 2 • Activity Due Date Priority = 3 • Job Priority = 4 • Job Due Date = 5 • Job Priority Due Date = 6 • Job Due Date Priority = 7
Number of Reserved Slots	ReservedSlotsNumber	Enter the number of slots on the Transformation Server that are reserved for pushed high-priority activities (such as synchronous calls).
TCP/IP Port Number	Refers to the Port number of the baseAddress under the following section: <code>system.serviceModel/services/service/host/baseAddresses</code>	Specifies the port number of the baseAddress of the Transformation Service. Provide the port number of the Transformation Server.
Activity Timeout Interval In Minutes	TakenActivitiesResetTimeoutInMinutes	Defines the duration after which an activity is timed out. The activity is only freed once the corresponding task executes.
Poll Timeout Activities Reset Interval In Minutes	ResetActivitesIntervalMinutes	Specifies how often the Transformation Server checks for the timed-out activities.
Enable Online Learning	OnlineLearningExecutionEnabled	If selected, enables processing of the Online Learning task in this Transformation Server instance.
Enable Processing of Synchronous Activities	EnableSynchronousCalls	If selected, enables processing of synchronous "pushed" calls.
Process Only Synchronous Activities	SynchronousOnlyProcessing	If selected, specifies that the Transformation Server is only used for Synchronous Capture processing and does not poll for automatic activities.

The changes to settings only apply to `Kofax.CEBPM.CPUServer.ServiceHost.exe.config`.

Job Thread Pool

You can add custom job thread pools, specify the number of threads in the thread pool and assign the worker task to a thread pool.

This tab is only available for a TotalAgility on-premise multi-tenant Application server and Combined Web Application server installation.

Label	Configuration setting	Description
ID	Id	Enter an ID for the thread pool.
Size	Size	Enter the size for the thread pool.
Add	Not applicable	Click Add to add a new thread pool.
Update	Not applicable	Click Update to update the selected thread pool.
Delete	Not applicable	Click Delete to delete the selected thread pool.
Tasks: The following worker tasks are assigned to a thread pool.		
Archive Job Task	WorkerTasks	Assigns the Archive Job Task to a thread pool to archive a job once the job is completed.
Evaluate Job Task	WorkerTasks	Assigns the Evaluate Job Task to a thread pool to evaluate a job.
Create Exception Task	WorkerTasks	Assigns the Create Exception Task to a thread pool to raise an exception job.
Create Job Task	WorkerTasks	Assigns the Create Job Task to a thread pool to create an associated job for a received document.
Capture Batch Task	WorkerTasks	Assigns the Capture Batch Task to a thread pool to unload a timed out capture activity session.
Delete Item Task	WorkerTasks	Assigns the Delete Item Task to a thread pool to delete an item based on a retention policy.
Process State Action Task	WorkerTasks	Assigns the Process State Action Task to a thread pool to process the action for a job state change.
Terminate Job Task	WorkerTasks	Assigns the Terminate Job Task to a thread pool to terminate the job once the job is completed.
Delete Capture Binary Task	WorkerTasks	Assigns the Delete Capture Binary Task to a thread pool to delete capture binary data.
Ingest System Task	WorkerTasks	Assigns the Ingest System Task to a thread pool to execute the Ingest system task.
Activate Suspended Task	WorkerTasks	Assigns the Activate Suspended Task to a thread pool to activate a job that is suspended based on suspend reason.

The changes to the settings only apply to `Agility.Server.Core.WorkerService.exe.config`.

Licensing

Label	Configuration Setting	Description
Primary	ServerID	If the setting value is 1, this is a primary license server.
Backup	ServerID	If the setting value is 2, this is a backup license server.

Capture Storage

This tab is only available for a TotalAgility Combined Web Application server installation.

On installing TotalAgility, the Capture Storage tab displays the following storage types:

- **SQL Server**
- **SQL Server and File System**
- **Windows Azure Blob Storage**
- **Amazon S3**

The storage types are displayed in a read-only mode as you cannot change the capture data storage type, after installing TotalAgility. You can only modify the connection strings and keys. By default, the capture data is stored in the SQL Server. On upgrading to TotalAgility 7.10.0, you can change the default storage to Windows Azure, Amazon or SQL Server and File System storage types. Once the storage type is changed, you cannot undo or re-modify it.

On installing TotalAgility, you can modify the following **Cloud Account Settings** for the storage types, as applicable. On upgrading TotalAgility, you must configure the cloud account settings.

i You must stop all the Kofax TotalAgility services on all TotalAgility servers before modifying the cloud storage credentials, and then restart the services after modifying.

See the following table for the Cloud Account Settings.

Label	Configuration setting	Description
SQL Server	ServerID	By default, the capture data is stored in the SQL Server.
SQL Server and File System		
File storage settings	ServerID	The file system folder to store a filegroup.
Windows Azure Blob Storage		
Account Connection String	ServerID	The connection string to connect to the Blob storage service. i The Container name for capture data storage is automatically created by the installer.

Label	Configuration setting	Description
Amazon S3		
Access Key	ServerID	The access key set for cloud storage.
Secret Key	ServerID	The secret access key for cloud storage.
Region	ServerID	The S3 region system names. <div style="background-color: #e0f2f7; padding: 5px; border: 1px solid #ccc;"> <p>i The Bucket name for capture data storage is automatically created by the installer.</p> </div>
Bucket Name	ServerID	The cloud storage unit. <div style="background-color: #e0f2f7; padding: 5px; border: 1px solid #ccc;"> <p>i You cannot change the bucket name.</p> </div>

Integration Service Bindings

This tab is only available in the Docker mode for the following docker container types: Full Install, Web and App, and App.

By default, all the settings on this tab are not selected. Use this tab is to enable SSL for the following integration service bindings.

Label	Configuration setting	Description
Exchange notification service	BasicHttpBinding_Exchange NotificationService	Enables SSL for Exchange Notification Service.
SharePoint Communicator Service	BasicHttpBinding_SharePoint CommunicatorService	Enables SSL for SharePoint Communicator Service.
TRIM communicator Service	BasicHttpBinding_TRIM CommunicatorService	Enables SSL for TRIM Communicator Service.
DynamicsAX Communicator Service	BasicHttpBinding_DynamicsAX CommunicatorService	Enables SSL for DynamicsAX Communicator Service.
DynamicsAX Integration Service	BasicHttpBinding_DynamicsAX IntegrationService	Enables SSL for DynamicsAX Integration Service.
Insight data service	BasicHttpBinding_InsightData Service	Enables SSL for Insight Data Service.

The changes to the settings apply to TotalAgility `Web.config`.

Transformation Server only

This section describes the configuration settings when you install the Transformation Server independently.


Common

This tab displays the TotalAgility database configuration used by the Transformation Server.

Label	Configuration Setting	Description
Main	MainDBConnectionString	Specifies the Main database connection string for the TotalAgility database server. <div style="background-color: #e6f2ff; padding: 5px;"> <p>i To change a database, change the database name and point to the server where the database resides. Do this for all the databases.</p> </div>
Audit	AuditDBConnectionString	Specifies the Audit database connection string for the TotalAgility database server.
Finished Jobs	ArchiveDBConnectionString	Specifies the Archive database connection string for the TotalAgility database server.
Staging	ReportingStagingDBConnectionString	Specifies the Reporting Staging database connection string for the TotalAgility database server.
Data Centers	TenantDBConnectionString	Specifies the Data Center database connection string for the TotalAgility database server. <div style="background-color: #e6f2ff; padding: 5px;"> <p>i To change a database, change the database name and point to the server where the database resides. This setting is only available for a Multi-Tenant Deployment.</p> </div>
Deployment Type	DeploymentType	Specifies the mode of environment you wish to set up, such as Live or Dev. <div style="background-color: #e6f2ff; padding: 5px;"> <p>i This setting is only available for a Multi-Tenant Deployment.</p> </div>

Transformation Server

Label	Configuration Setting	Description
Pool Name	PoolName	Specifies the pool from which the Transformation Server will process.

Label	Configuration Setting	Description
Maximum Number of Slots	MaxProcessingSlotsNumber	Specifies the number of CPU-intensive background processes that may run concurrently, excluding the idle background processes. (Default: 0) The maximum number of processing slots is determined using the following formula: <code>(int) Math.Round (Environment.ProcessorCount * 1.25)</code>
Activity Order	TransformationServiceActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority = 0 • Activity Due Date = 1 • Activity Priority Due Date = 2 • Activity Due Date Priority = 3 • Job Priority = 4 • Job Due Date = 5 • Job Priority Due Date = 6 • Job Due Date Priority = 7
Number of Reserved Slots	ReservedSlotsNumber	Enter the number of slots on the Transformation Server that are reserved for pushed high-priority activities (such as synchronous calls).
TCP / IP Port Number	Refers to the Port number of the baseAddress under the following section: <code>system.serviceModel/services/service/host/baseAddresses</code>	Specifies the port number of the baseAddress of the Transformation Service. Provide the port number of the Transformation Server.
Activity Timeout Interval In Minutes	TakenActivitiesResetTimeoutInMinutes	Defines the duration after which an activity is timed out. The activity is only freed once the corresponding task executes.
Poll Timeout Activities Reset Interval In Minutes	ResetActivityIntervalInMinutes	Specifies how often the Transformation Server checks for the timed-out activities.
Multi-Tenant Deployment	IsMultitenantDeployment	Indicates whether the deployment is Multi-Tenant or On-Premise.  If selected, the deployment type and the associated databases that you are using must be installed as a Multi-Tenant.
Enable Online Learning	OnlineLearningExecutionEnabled	If selected, enables processing of the Online Learning task in this Transformation Server instance.

Label	Configuration Setting	Description
Enable Processing of Synchronous Activities	EnableSynchronousCalls	If selected, enables processing of synchronous "pushed" calls.
Process Only Synchronous Activities	SynchronousOnlyProcessing	If selected, specifies that the Transformation Server is only used for Synchronous Capture processing and does not poll for automatic activities.

The changes to the settings apply only to the Transformation Server
 \Kofax.CEBPM.CPUServer.ServiceHost.exe.config.

Real Time Transformation Service

This section describes the configuration settings when you select the Real Time Transformation Service mode when installing TotalAgility.

Transformation Server

Label	Configuration Setting	Description
Pool Name	PoolName	Specifies the pool from which the Transformation Server will process.
Maximum Number of Slots	MaxProcessingSlotsNumber	Specifies the number of CPU-intensive background processes that may run concurrently, excluding the idle background processes. (Default: 0) The maximum number of processing slots is determined using the following formula: (int) Math.Round (Environment.ProcessorCount * 1.25)
Activity Order	TransformationServiceActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority = 0 • Activity Due Date = 1 • Activity Priority Due Date = 2 • Activity Due Date Priority = 3 • Job Priority = 4 • Job Due Date = 5 • Job Priority Due Date = 6 • Job Due Date Priority = 7
Number of Reserved Slots	ReservedSlotsNumber	Enter the number of slots on the Transformation Server that are reserved for pushed high-priority activities (such as synchronous calls).

Label	Configuration Setting	Description
TCP/IP Port Number	Refers to the Port number of the baseAddress under the following section: <code>system.serviceModel/services/service/host/baseAddresses</code>	Specifies the port number of the base Address of the Transformation Service. Provide the port number of the Transformation Server.
Enable Online Learning	OnlineLearningExecutionEnabled	If selected, enables processing of the Online Learning task in this Transformation Server instance.
Enable Processing of Synchronous Activities	EnableSynchronousCalls	If selected, enables processing of synchronous "pushed" calls. i This setting is displayed read-only when you select to install TotalAgility in the Real Time Transformation Service mode.
Process only Synchronous Activities	SynchronousOnlyProcessing	If selected, specifies that the Transformation Server is only used for Synchronous Capture processing and does not poll for automatic activities. i This setting is displayed read-only when you select to install TotalAgility in the Real Time Transformation Service mode.

The changes to the settings apply only to the `Kofax.CEBPM.CPUServer.ServiceHost.exe.config`.

Integration Server

This section describes the configuration settings for a TotalAgility Integration Server.

Web

This tab is available for a TotalAgility Integration Server Application server, Web server and Combined Web Application server installation.

Label	Configuration Setting	Description
Core Integration Services Location	CoreIntegrationServicesLocation	Specifies the location for the core integration services.
Core Services Location	CoreServicesLocation	Specifies the location for the core services. i Provide the HTTPS core services location if you have enabled SSL.

Label	Configuration Setting	Description
Online Help URL	OnlineHelpURL	Specifies the location for the TotalAgility online help.
Anti-CSRF Target Host Name	TargetHostName	Specifies the target name (FQDN of the Web Server) for validating the Anti-CSRF tokens. This name should be the host/domain name of the TotalAgility Web server. <div style="background-color: #e6f2ff; padding: 5px; border: 1px solid #add8e6;"> <p>i The host name should be the same host/domain as specified in the browser.</p> </div>
Anti-CSRF Target Port Number	TargetPortNo	Specifies the target port number (website port number) for validating the Anti-CSRF tokens. This should be the port number of the TotalAgility server. Specify a port number here only if it is required in the browser URL. <div style="background-color: #e6f2ff; padding: 5px; border: 1px solid #add8e6;"> <p>i The port should be the same port number as specified in the browser URL.</p> </div>
Use Host Prefix for Cookies	UseHostPrefixforCookies	Enables "Host Prefix for Cookies", a browser functionality which makes the cookies more secure by prefixing the TotalAgility cookie names with "__HOST-". When a cookie name starts with this flag, it triggers additional browser policy on the cookie in supporting browsers. A __Host--prefixed cookie is only accessible by the same domain it is set on, which means a subdomain can no longer overwrite the cookie value. It also makes a cookie accessible from HTTPS sites only. This protects the cookie even if an attacker uses a forged insecure site to overwrite a secure cookie.

The changes to settings only apply to `Web.config`.

Core Worker

This tab is only available for a TotalAgility Integration Server Application server and Combined Web Application server installation.

Label	Configuration Setting	Description
Core Integration Services Location	CoreIntegrationServicesLocation	Specifies the location for the core integration services.
Core Services Location	CoreServicesLocation	Specifies the location for the core services. <div style="background-color: #e6f2ff; padding: 5px; border: 1px solid #add8e6;"> <p>i Provide the HTTPS core services location if you have enabled SSL.</p> </div>

Label	Configuration Setting	Description
Auto Activity Thread Pool Size	CoreWorkerMaxAutoActivityThreadPools ize	Specifies the maximum size of the activity thread pool. If the thread pool size is full, the core worker will wait until there is space to add more tasks.
Worker Task Poll Interval	CoreWorkerIntervalInSeconds	Specifies how often the system should check for the in-memory worker tasks that are due.
Worker Task Timeout Interval	CoreWorkerResetTaskIntervalInSeconds	Specifies how often the system checks for timed-out worker tasks. By default, the timeout interval assigned to each worker task is 300 seconds.
Poll Timeout Activities Reset Interval	CoreWorkerResetActivityIntervalInSeconds	Specifies how often the Core Worker checks for the timed-out activities.
Activity Timeout Interval	CoreWorkerActivityTimeoutIntervalInM inutes	Defines the duration after which an activity is timed out. The activity is only freed once the corresponding task executes.
Maximum Messages / Documents to Import	MaximumNumberOfMessagesToImport	Specifies the maximum number of documents or messages to import for document ingest.
Activity Order	CoreWorkerActivityOrder	Specifies the order in which the activities are taken for processing: <ul style="list-style-type: none"> • Activity Priority= 0 • Activity Due Date= 1 • Activity Priority Due Date= 2 • Activity Due Date Priority= 3 • Job Priority= 4 • Job Due Date= 5 • Job Priority Due Date= 6 • Job Due Date Priority= 7
Import Connector Name	ImportConnectorName	Allows administrators to explicitly specify which import connection the Core Worker should use. (Default: All) This setting is useful when multiple Core Workers are set up.

Label	Configuration Setting	Description
Performance Logging Enabled	PerformanceLoggingEnabled	Enables Performance counters logging into log file. For more information on performance monitoring counters, see the following guides: <ul style="list-style-type: none"> Performance counter usage section in the <i>Kofax TotalAgilityAdministrator's Guide</i>. Add performance monitoring counters in the <i>Kofax TotalAgility Installation Guide</i>.
Thread Pool Monitoring Interval	CoreWorkerThreadPoolMonitoringIntervalInSeconds	Defines how often a thread pool should monitor the threads in it. Currently, the monitoring is done to check for thread timeout and this applies only to the thread pools of automatic activity type. The default value is 60.
Multi-Tenant Performance Counters	PerformanceCountersMultitenanted	Specifies whether multi-tenanted performance counter instances can be created for each tenant.
Auto Activities Pool Id	AutoActivitiesPoolId	This setting specifies the thread pool ID for automatic activities.
Auto Activities Pool Name	AutoActivitiesPoolName	This setting specifies the thread pool name for automatic activities.

The changes to settings apply to `Agility.Server.Core.WorkerService.exe.config` and `CoreWorkerService\Agility.Server.Core.ExportService.exe.config`.

Streaming

This tab is available for a TotalAgility Integration Server Application server, Web server and Combined Web Application server installation.

Label	Configuration Setting	Description
Base Address	Refers to the <code>baseAddress</code> under the following section: <code>system.serviceModel/services/service/host/baseAddresses.</code>	Enter the base address of the Streaming Service in the following format: <code>http(s)://<Server>:<Portnum></code> Provide the FQDN and port number of the server.

The changes to the settings only apply to `Agility.Server.StreamingService.exe.config`.

Integration Service Bindings

This tab is only available in the Docker mode for the following docker container types: Full Install, Web and App, and App.

By default, all the settings on this tab are not selected. Use this tab is to enable SSL for the following integration service bindings.

Label	Configuration setting	Description
Exchange notification service	BasicHttpBinding_Exchange NotificationService	Enables SSL for Exchange Notification Service.
SharePoint communicator service	BasicHttpBinding_SharePoint CommunicatorService	Enables SSL for SharePoint Communicator Service.
TRIM communicator service	BasicHttpBinding_TRIM CommunicatorService	Enables SSL for TRIM Communicator Service.
DynamicsAX communicator service	BasicHttpBinding_DynamicsAX CommunicatorService	Enables SSL for DynamicsAX Communicator Service.
DynamicsAX integration service	BasicHttpBinding_DynamicsAX IntegrationService	Enables SSL for DynamicsAX Integration Service.
Insight data service	BasicHttpBinding_InsightData Service	Enables SSL for Insight Data Service.

The changes to the settings apply to TotalAgility `web.config`.

Reporting Server

This section describes the database configuration used by the Reporting Server.

Label	Configuration Setting	Description
Main	MainDBConnectionString	Specifies the Main database connection string for the TotalAgility database server. <div style="background-color: #e6f2ff; padding: 5px; border: 1px solid #add8e6;"> <p>i To change a database, change the database name and point to the server where the database resides. Do this for all the databases.</p> </div>
Audit	AuditDBConnectionString	Specifies the Audit database connection string for the TotalAgility database server.
Finished Jobs	ArchiveDBConnectionString	Specifies the Archive database connection string for the TotalAgility database server.
Data Layer	Reads from the table SERVER_DATA of Main database	Specifies the Data Layer database connection string for the TotalAgility database server.
Reporting	ReportingMainDBConnectionString	Specifies the Reporting database connection string for the TotalAgility database server.
Staging	ReportingStagingDBConnectionString	Specifies the Reporting Staging database connection string for the TotalAgility database server.

The changes to settings only apply to `Kofax.CEBPM.Reporting.TAService.exe`.