

# Recognition Agent

## Installation and Setup Guide

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## Recognition Agent overview

Recognition Agent is a dedicated, high-volume, server-side agent used to acquire document property values automatically during various CaptureNow capture processes. Recognition Agent offers the following recognition modules: ICR/OMR/OCR, Barcode, and Forms Identification.

- **ICR/OMR/OCR Module.** Automatically acquires Perceptive Content property values from documents during the Perceptive Content batch scanning process. This module captures information using OCR, OMR, and ICR technologies on a specific zonal location defined on an Perceptive Content document in BMP, PNG, JPEG, TIFF, or GIF format. This module cannot acquire data from Word documents or other non-raster file types.
- **Barcode Module.** Provides a high-performance barcode solution with robust algorithms for recognizing and decoding 1D, 2D, and postal symbologies. It reads barcodes scanned in grayscale, as well as small or compact barcodes and, with the advanced capability, it scans barcodes that are heavily damaged or skewed. This module requires an additional license.
- **Forms Identification Module.** Provides the ability to automatically identify a form without registration or anchor marks. Forms Identification Module recognizes forms rotated 90, 180 or 270 degrees and adjusts to forms scaled from 90% to 110% of the original document size. This module also handles documents with up to a 20-degree skew. After Forms Identification Module identifies a form, Perceptive Content assigns the appropriate Type value to the resulting Perceptive Content document. This module requires an additional license.

**Important** This document assumes you are installing Recognition Agent for the first time or that you have no earlier versions running on the computer. To install multiple instance of Recognition Agent, refer to [Appendix A: Install another instance of Recognition Agent](#). To update or upgrade Recognition Agent from a previous version, refer to the *Update ReadMe*. Sections of the update readme may reference procedures in this installation guide.

Before you install Recognition Agent, perform the following readiness checks.

- Verify that your Perceptive Content Server is running.
- Obtain the user name and password for the user that administers the Perceptive Content database.
- Install Perceptive Content Data Source. For more information, see the [Perceptive Content Database Installation and Setup Guide](#).
- Make sure that you have sufficient disk space for executables and object storage.
- Verify that the computer you are using to install Recognition Agent is a 64-bit operating system.

**Important** Ensure that the REMOTED value in the inserverRec.ini file is set to TRUE even if Recognition Agent is running locally. For more information, see [Appendix B: Server configuration files](#).

## Install Recognition Agent

This section details the installation process for Recognition Agent. The installation process requires downloading and installing the Recognition Agent files, removing the DEP setting, and licensing Recognition Agent.

### Download Recognition Agent files

To obtain Perceptive product installation files, contact the Hyland Software Technical Support group. For a list of Technical Support phone numbers, go to [hyland.com/pswtscontact](http://hyland.com/pswtscontact).

### Verify remote Perceptive Content shared directory access

When the installer accesses a remote location it accesses the location in both the current user and SYSTEM context. You must verify both users have access to the shared directory. You can use the **net use** command to create sessions in the current context. You can also create a session in the SYSTEM context by using Microsoft's **Psexec** command to run the **net use** command in the SYSTEM context.

**Note** The **net use** command only adds the session for the current context. **Psexec** allows you to run the command in the SYSTEM context, which then adds the session in the SYSTEM context.

### Install Recognition Agent files

This section describes the two installation options for Recognition Agent running. It also provides detailed steps to perform the installation option you choose.

#### About installation options for Recognition Agent

You can install Recognition Agent using an attended or unattended installation on the Perceptive Content Server computer or on a computer separate from Perceptive Content Server.

An unattended installation is an automatic way to run an installation. If you follow the procedure to install Recognition Agent unattended, you do not install Recognition Agent using a standard Install Shield interface. Using this unattended installation method, you can do a custom installation or use a combination of default and customized settings. Note that using an unattended installation skips the license agreement the user sees when using an attended installation.

Perform the steps in one of the following subsections.

#### Perform an attended installation of Recognition Agent

The following steps explain how to run the installation wizard for Recognition Agent to perform an attended installation.

1. Double-click the **EXE** file you just downloaded.
2. On the **Welcome to the Installation Wizard for ImageNow Recognition Agent** page, click **Next**.
3. On the **License Agreement** page, review the terms in the License Agreement, scroll to the end of the agreement, click **I accept the terms in the license agreement** and click **Next**.
4. On the **Destination Folder** page, you may change locations for **ImageNow Recognition Agent** and the **ImageNow Recognition Agent shared files** using the following substeps.

1. To change the location for the **ImageNow Recognition Agent**, click **Browse**. In the **Change Current Destination Folder** page, browse to the destination folder where you want to install **ImageNow Recognition Agent** and then click **OK**.
2. To change the location for **ImageNow Recognition Agent shared files**, click **Browse**. In the **Change Current Destination Folder** page, browse to the destination folder where you want to install the **ImageNow Recognition Agent shared files** and then click **OK**.
5. On the **Destination Folder** page, click **Next**.
6. On the **Installation Location** page, select **Local installation** if you are installing the Recognition Agent on the Perceptive Content Server computer or select **Remote installation** if you are installing Recognition Agent on a different computer, and click **Next**.
7. On the **ImageNow Server Information** page, under **ImageNow Server**, enter the **Server IP** and **Port Number** for the Perceptive Content Server computer.
8. Under **Additional Configuration**, enter the **Initial instance name**.

**Note** The instance name allows for multiple instances of the same agent or server to run in parallel in an active-active environment. You can enter a maximum of 40 characters, and the following characters are invalid: \ / : \* ? " < > |.

9. Click **Next**.
10. On the **Configure Perceptive Content Database** page, configure the Perceptive Content Database settings using the following substeps.
  1. Select the **Database type**.
  2. Specify the **Data Source Name (DSN)**.
  3. Enter the **Username** and **Password** for the **Database credentials**.

**Note** The username and password fields are populated with a default username and password. If you chose a different username and password during the installation of the database, you must update them here. If the password is encrypted, a warning will appear next to the password field.

  4. Click **Verify** and review the ODBC driver configuration.
11. On the **Configure Perceptive Content Database** page, click **Next**.
12. On the **Server-Side Configuration for RabbitMQ** page, configure the settings according to your RabbitMQ instance and click **Next**.
13. On the **Ready to Install the Program** page, click **Install**.
14. On the **Installation Wizard Completed** page, click **Finish**.
15. Click **OK** twice.
16. Restart your computer.

## Perform an unattended installation of Recognition Agent

The following steps explain how to install Recognition Agent when you are not at the computer.

1. Set up your argument values to customize the unattended installation. If you do not use arguments, the installation uses the default values for the missing arguments. If you use environment variables to set the arguments, be sure to set all of your environment variables.

**Note** For information on configuring RabbitMQ arguments for unattended installations, see the Perceptive Content Server Installation Guide.

Argument	Description	Default	Example
L*V	This value is optional, and the default is not to generate a log file. If you use this argument, setup does not create directories, so the path for the log file generation must be a valid, existing path. This argument is typically used to diagnose installation errors.	No log file is generated unless you include this argument.	L*V "C:\logs\ RecAgent-silentinstall670.txt"
INSTALLDIR	The default, and recommended, installation directory is [drive:]\inserv er.	[drive:]\inserv er	INSTALLDIR="C:\inserver"
SHARED_INSTALLDIR	This is the install directory of your common files in an active-active environment.	The value of INSTALLDIR	SHARED_INSTALLDIR="C:\shared_installdir"
OPERATION_MODE	Defines whether the Recognition Agent is running remotely with respect to Perceptive Content Server. Valid values include LOCAL or REMOTE.	LOCAL	OPERATION_MODE=LOCAL
SERVER_IP	Name of the server instance	localhost	SERVER_IP=localhost
IN_PORT_NO	The port number of Perceptive Content Server	6000	IN_PORT_NO=6000
INSTANCE_NAME	The name of the Perceptive Content instance	Primary	INSTANCE_NAME=PRIMARY
ODBC.DBMS	Sets the database management system for Perceptive Content. This value should be set to either SQLServer or Oracle.	SQLServer	ODBC.DBMS=Oracle
ODBC.DSN	The ODBC name.	Perceptive Content	ODBC.DSN=\\"Perceptive Content\\"

Argument	Description	Default	Example
ODBC.USER.ID	Specifies the user ID for the ODBC connection	inuser	ODBC.USER.ID=inuser
ODBC.USER.PASSWORD	Specifies the password that is consumed by the application for encryption in the <code>odbc.user.password.encrypted</code> setting. This value is encrypted and removed from the setting after running the <code>inserverRec - encrypt-config</code> command.	imagenow	ODBC.USER.PASSWORD=imagenow
AUTH.TOKEN	Specifies the authentication token used when establishing an agent session.	REMOTE agent installation requires you to set either AUTH.TOKEN, AUTH.TOKEN.ENCRYPTED or SKIP_AGENT_TOKEN_AUTH_VALIDATION.	AUTH.TOKEN="eyJhbGciOiJSUzI1NiIsIm... aRjXefXOFGrgZA"
AUTH.TOKEN.ENCRYPTED	Specifies an encrypted value of token authentication.		AUTH.TOKEN.ENCRYPTED="01d54d4b1a9f8952a5beaa587846eafda"
SKIP_AGENT_TOKEN_AUTH_VALIDATION	If set, skips the checking of authentication token or encrypted authentication token.		SKIP_AGENT_TOKEN_AUTH_VALIDATION=1

Enter the following command. You can use one of the commands in a Command Prompt window, in the provided batch file, or create a command line script for your deployment software.

```
RecognitionAgentSetup.exe /s /V"/qb /L*V "Logfile.txt"\ [argument list]"
```

The following example shows the command with a defined argument list.

```
RecognitionAgentSetup.exe /s /V"/qb /L*V "Logfile.txt" INSTALLDIR="\D:\inserver\"  
INSTANCE_NAME="\Production\" OPERATION_MODE=LOCAL SERVER_IP=localhost  
IN_PORT_NO=6000"
```

## License Recognition Agent

This section describes the steps to obtain license files and then install them.



## Obtain the license files

To obtain the hardware information for the Perceptive Content Server, you must be the admin user on Windows.

1. Generate a system fingerprint using the following substeps.
  4. Click **Start**, point to All Programs, point to **Perceptive Content**, and then click **Perceptive Content Management Console**.
  5. In the login page, click **License Manager**.
  6. In the **License Management** dialog box, select **Save system fingerprint** and click **OK**.
  7. In the **Save As** dialog box, enter a name for the file and then navigate to the location where you want to save the report. Click **Save**.
2. Contact your Perceptive Software representative for instructions on where to send the system fingerprint file to obtain your license. The system fingerprint file has a SYSFP extension.
3. When you receive the license files, store the license files in a temporary directory on the Perceptive Content Server computer.

## Install the license files

Before entering your licenses, you must have installed the Perceptive Content Server and at least one Perceptive Content Client. You must have Service Administrator privileges to install Perceptive Content licenses. The Perceptive Content Client must be available on a Windows machine in order to install the Perceptive Content product licenses.

1. When you receive the license files from your Perceptive Software representative, copy them to a temporary folder where you can access them with an Perceptive Content Client.
2. Upload licenses, as explained in the following substeps.
  1. Click **Start**, point to **All Programs**, and then select **Perceptive Content**.
  2. In the login page, click **License Manager**.
  3. In the **License Management** dialog box, select **Upload Licenses** and click **OK**.
  4. Navigate to the folder where you stored the Perceptive Content license files, select the LIC files to upload, and click **Open**.
  5. Enter the **User Name**, **Password**, and **Server Location** and click **OK**.
  6. Optional. The **License Upload** dialog box lets you view the type name, actual license code, and status of each license upload. To display detailed information for a specific license, select the appropriate row.
3. Click **OK**.

## Configure Recognition Agent

This section details the configuration process for Recognition Agent. After you install Recognition Agent, you must configure the inserverRec.ini file. You must also configure a setting in the inow.ini file if you install Recognition Agent to run remotely.

To configure Recognition Agent, complete the following steps.

Refer to inserverRec.ini settings for more information about your configuration options.

1. Navigate to the Perceptive Content shared etc directory **\$(IMAGENOWDIR6)\etc** and then open the **inserverRec.ini** file in a text editor.
2. Locate the INI setting you want to customize and then make the appropriate changes.
3. After you complete your updates, save the inserverRec.ini file, and then restart inserverRec.exe to make the changes effective.

## Configure the Recognition Agent service

To configure the Recognition Agent service in the inserverRec.ini file, perform the following steps.

1. On the Perceptive Content Server computer, navigate to the Perceptive Content shared etc directory **\$(IMAGENOWDIR6)\etc** and open the **inserverRec.ini** file with a text editor.
2. Under **[General]**, configure the following settings.
  1. Verify that **ocr.dir** is set to **\$(IMAGENOWLOCALDIR6)\ocr** unless you want to specify a different holding directory for the documents submitted to Recognition Agent.
  2. If you want Recognition Agent to recognize social security numbers using the pattern xxx-xx-xxxx, perform the following substeps.
    1. Set **ocr.pattern.matching** to **TRUE**.
    2. Change **ocr.pattern** to **SSN**.
  3. For **ocr.remove.markchars**, specify a character that you do not want Recognition Agent to include in document property values. The default is ~.

**Note** The characters you list for **ocr.remove.markchars** and **ocr.suspicious.chars** must match. For **ocr.suspicious.chars**, specify a character that you want Recognition Agent to use in place of characters read by OCR without a high level of confidence. The default is ~.

**Note** The characters you list for **ocr.remove.markchars** and **ocr.suspicious.chars** must match.

4. Modify **ocr.languages** to the language or languages you want Recognition Agent to identify by using the following language identifiers and separating them with commas and no spaces.
  - LANG\_ENG = English
  - LANG\_FRE = French
  - LANG\_SPA = Spanish
  - LANG\_ITA = Italian
  - LANG\_GER = German
  - LANG\_NOR = Norwegian
  - LANG\_POR = Portuguese
  - LANG\_DAN = Danish
  - LANG\_DUT = Dutch
  - LANG\_FIN = Finnish
  - LANG\_SWE = Swedish
  - LANG\_BRA = Brazilian Portuguese

5. For settings **timeouts.to.restart.threshold**, **resubmit.on.fail.num**, **resubmit.on.timeout.num**, **seconds.until.job.resume**, **ignore.confidence.on.barcodes**, and **remove.old.service**, keep the default settings or adjust the settings as needed.
3. If you purchased Forms Identification Module, configure the following settings under **[Auto Form ID]**.
  1. If you do not want Recognition Agent to straighten slanted documents, change **form.enable.deskew** to **FALSE**.
  2. If you want to increase or decrease the number of seconds Recognition Agent dedicates to reading a form, for **form.identification.quality**, enter a new integer up to 100.
 

**Note** The higher the number of seconds, the longer Recognition Agent dedicates to reading a barcode, which results in higher quality. The default is 60 seconds.
  3. For **form.debug.level**, specify the level of debugging between 0 (no debugging) and 2 (the most verbose debugging). Unless you are debugging an issue, set the debugging level to 0.
  4. Verify that **form.debug.path** is set to Perceptive Content local log directory **\$(IMAGENOWLOCALDIR6)\log** unless you want to specify different holding directories for the debugging logs.
4. If an iScript is used during the zone recognition of a batch of documents, under **[Script]**, change **ocr.script.enabled** to **TRUE**.
5. Whether you installed Recognition Agent on a different computer than Perceptive Content Server or locally, in the **[Remote]** section, change the following settings.
  1. Set **remoted** to **TRUE**.
  2. For **server.ip.address**, specify the IP address of the Perceptive Content Server.
  3. For **server.ip.port**, specify the port number of the Perceptive Content Server.
 

**Note** Do not change values for settings **heartbeat.interval**, **socket.login.timeout**, **socket.default.timeout**, **force.server.validation**, or **reconnect.interval** without consulting Product Support.
6. If you purchased the Barcode Module, configure the following settings to have Recognition Agent recognize barcodes to index documents.
  1. To have Recognition Agent use zonal OCR to read a barcode, under **[BarCodeTypes]**, specify the barcodes that you want Recognition Agent to detect by entering **TRUE** to recognize a barcode or **FALSE** to ignore a barcode. After Recognition Agent is installed, you must define an OCR zone for each barcode in Perceptive Content Client. For steps to define an OCR zone in Perceptive Content Client, refer to Administrator Help.
 

**Note** If you type **TRUE** for the **code39.full.ascii** setting, Recognition Agent assumes all Code 39 barcodes are Full ASCII.
  2. To have Recognition Agent recognize a barcode without zonal OCR, under **[Advanced Barcode Module]**, configure the following settings.
    1. Set **enable.advanced.barcode** to **TRUE**. Enabling this option lets you submit documents to Recognition Agent with or without barcodes and sort the pages by either the individual barcode value or barcode failed in combination with a unique\_ID.
    2. If you want Recognition Agent to read barcodes on an image from left to right and top to bottom, set **advanced.barcode.coordinate.sorting** to **TRUE**.
    3. For settings **<barcode\_type>.enable.rec**, specify the barcodes you want Recognition Agent to detect by entering **TRUE** to recognize a barcode or **FALSE** to ignore a barcode.

**Note** If you type **TRUE** for the **code39.full.ascii.enable.rec** setting, Recognition Agent assumes all Code 39 barcodes are Full ASCII.

4. If you use codabar barcodes, and you want Recognition Agent to validate a barcode using the checksum, set **codabar.enable.checksum** to one of the following values.
  - 1 = Enable checksum validation.
  - 2 = Enable checksum validation and remove the checksum from the results.
- Note** The checksum is the number located on the far right side of a barcode. The purpose of a checksum is to verify that the information on the barcode is entered correctly.
5. If you use Code 11 barcodes, and you want Recognition Agent to use the checksum digit to validate a Code 11 barcode, set **code11.enable.checksum** to one of the following values.
  - 0 = Enable checksum validation for two digits.
  - 1 = Enable checksum validation for one digit.
  - 2 = Enable checksum validation for two digits and remove the checksum from the results.
  - 3 = Enable checksum validation for one digit and remove the checksum from the results.
6. If you use Code 39 barcodes, and you want Recognition Agent to use the checksum digit to validate a Code 39 barcode, change **code39.enable.checksum** to one of the following values.
  - 1 = Enable checksum validation.
  - 2 = Enable checksum validation and remove the checksum from the results.
7. If you use Interleaved 2 of 5 barcodes, and you want Recognition Agent to use the checksum digit to validate an Interleaved 2 of 5 barcode, change **i2of5.enable.checksum** to one of the following values.
  - 1 = Enable checksum validation.
  - 2 = Enable checksum validation and remove the checksum from the results.
8. If you use Matrix 2 of 5 barcodes, and you want Recognition Agent to use the checksum digit to validate a Matrix 2 of 5 barcode, set **m2of5.enable.checksum** to one of the following values.
  - 1 = Enable checksum validation.
  - 2 = Enable checksum validation and remove the checksum from the results.
9. If you use MSI Plessey barcodes, and you want Recognition Agent to use the checksum digit to validate a MSI Plessey barcode, set **msiplessey.enable.checksum** to one of the following values.
  - 1 = Enable Mod 10 checksum.
  - 2 = Enable Mod 11 checksum.
  - 3 = Enable two Mod 10 checksums.
  - 5 = Enable Mod 10 checksum and remove the checksum from the results.
  - 6 = Enable Mod 10 and Mod 11 checksums and remove the checksums from the results.
  - 7 = Enable two Mod 10 checksums and remove the checksums from the results.

7. Save and close the file, and then restart the Recognition Agent service using **Windows Computer Management** by completing the following steps.
  1. On the Windows Desktop, right-click the **My Computer** shortcut and select **Manage** from the menu.
  2. In the **Computer Management** dialog box, click **Services and Applications**.
  3. Click **Services**.
  4. In the right pane, locate and select the service titled **Recognition Agent Foundation EPx**.
  5. Click **Start** in the upper left-hand corner of the right pane.

## Configure agent token authentication

Configure Recognition Agent to use token based agent authentication by completing the following steps.

**Note** Only configure agent token authentication if the Recognition Agent is installed remotely.

1. On the Perceptive Content Server machine, generate an authentication token for Recognition Agent by running the following command.

```
intool --cmd create-authentication-token --lictype Recognition Agent - OCR --file RecognitionAgent.txt
```

2. On the Recognition Agent machine, navigate to the **etc** directory in the Recognition Agent installation directory.
3. Using a text editor, open the **inserverRec.ini** file.
4. In the **[Remote]** section, set the **authentication.token** setting to the contents of the **RecognitionAgent.txt**, as shown in the following example.

```
authentication.token=[authentication token]
```

5. Save and close the **inserverRec.ini** file.

## Set Recognition Agent to run remotely

If you install Recognition Agent remotely, you must change **ocr.integration** in the **inow.ini** file by completing the following steps.

1. On the Perceptive Content Server computer, navigate to the Perceptive Content shared etc directory **\$(IMAGENOWDIR6)\etc** and open the **inow.ini** file in a text editor.
2. Under **[OCR]**, set **ocr.integration** to **TRUE**.
3. Save and close the file, and then restart the Perceptive Content Server using **Windows Computer Management** by completing the following substeps.
  1. On your Windows Desktop, right-click the **My Computer** shortcut and select **Manage**.
  2. In the **Computer Management** dialog box, click **Services and Applications**.
  3. Click **Services**.
  4. In the right pane, locate and select the service titled **Perceptive Content Server Foundation EPx**.
  5. In the upper left-hand corner of the right pane, click **Restart**.

**Note** To install Recognition Agent remotely, you must also configure the **[Remote]** settings in the **inserverRec.ini** file as outlined in the previous “Configure the Recognition Agent service” section.

## Troubleshoot Recognition Agent

Perceptive Content Server provides logging specifically for auditing or troubleshooting. Specific log files for Recognition Agent reside in the Perceptive Content local log directory **\$(IMAGENOWLOCALDIR6)\log**. Log files are named as **inserverRec\_<date>.log** so you can easily identify the file you need.

The **[Logging]** group in the **inserverRec.ini** file contains the settings you need to adjust to control logging verbosity levels and to turn logging on or off. The default is **0** (no logging). You can change the setting to **1** through **6** (logging with the most information). Unless you are debugging an issue, set logging to **0**. For additional information about settings for logging, refer to Appendix B.

## Appendix A: Server configuration files

The following tables provide definitions and sample data for the settings in the **inserverRec.ini** and **inow.ini** configuration files. This table displays the INI settings under group headings in brackets, for example, **[General]**, in the order the groups appear in the INI file. Each setting offers two or more options, which are defined in the table below along with a description of each setting and its options. Use these tables as a guide when customizing them.

### inow.ini

If you install Recognition Agent remotely, in the **inow.ini** file, under **[OCR]**, set **ocr.integration** to **TRUE**.

Group	Setting	Options	Description
OCR	ocr.integration	TRUE FALSE	Specifies whether to run Recognition Agent remotely.  TRUE = Enable Recognition Agent to run remotely.  FALSE = Do not enable Recognition Agent to run remotely.  The default is FALSE.

### inserverRec.ini

Group	Setting	Options	Description
General	ocr.dir	\$(IMAGENOWLOCALDIR6)/ocr	Specifies where the Recognition Agent is installed.
	load.license.file	0 1	Specifies whether Perceptive Content loads the license for the Recognition Agent OCR, OMR, ICR, and barcodes functionality.  0 = False 1 = True  The default is 1.

Group	Setting	Options	Description
	ocr.pattern.matching	TRUE FALSE	<p>Specifies whether Recognition Agent uses pattern matching on OCR, OMR, or ICR results, such as the pattern xxx-xx-xxxx for recognizing social security numbers.</p> <p>TRUE = Enable pattern matching. FALSE = Do not enable pattern matching. The default is FALSE. If true, ocr.pattern is required.</p>
	ocr.pattern	SSN	<p>Specifies the pattern Recognition Agent uses to find matching on OCR, OMR, or ICR results.</p> <p>The default is SSN.</p> <p><b>Note</b> This setting is required if ocr.pattern.matching is set to TRUE.</p>
	ocr.remove.markchars	Any character	<p>Specifies a character you do not want Recognition Agent to include in document property values.</p> <p>The default is ~.</p> <p><b>Note</b> The character listed for ocr.remove.markchars and ocr.suspicious.chars must match.</p>
	ocr.suspicious.chars	Any character	<p>Specifies the character Recognition Agent uses in place of a character read by OCR that does not have a high level of confidence.</p> <p>The default is ~.</p> <p><b>Note</b> The character listed for ocr.remove.markchars and ocr.suspicious.chars must match.</p>

Group	Setting	Options	Description
	ocr.languages	LANG_ENG LANG_FRE LANG_SPA LANG_ITA LANG_GER LANG_NOR LANG_POR LANG_DAN LANG_DUT LANG_FIN LANG_SWE LANG_BRA	Specifies one or more language identifiers separated by commas.  LANG_ENG = English LANG_FRE = French LANG_SPA = Spanish LANG_ITA = Italian LANG_GER = German LANG_NOR = Norwegian LANG_POR = Portuguese LANG_DAN = Danish LANG_DUT = Dutch LANG_FIN = Finnish LANG_SWE = Swedish LANG_BRA = Brazilian Portuguese  The default is LANG_ENG.
	timeouts.to.restart.threshold	Any positive integer	Specifies the number of timeouts Recognition Agent allows to occur before restarting.  The default is 0, which specifies that Recognition Agent not reset after timeouts.
	resubmit.on.fail.num	Any positive integer	Specifies the number of times Recognition Agent attempts to re-recognize a failed recognition.  The default is 0.
	resubmit.on.timeout.num	Any positive integer	Specifies the number of times Recognition Agent attempts to re-scan a document if it timed out while performing the initial recognition of the document.  The default is 0.
	seconds.until.job.resume	Any positive integer	Specifies the number of seconds Recognition Agent waits before resuming a suspended recognition job.  The default is 300.
	ignore.confidence.on.barcodes	TRUE FALSE	Specifies whether Recognition Agent considers confidence of character accuracy in results of barcodes read with zonal OCR.  TRUE = Accept low confidence values. FALSE = Only accept high confidence values.  The default is FALSE.



Group	Setting	Options	Description
	remove.old.service	1 0	Specifies whether Recognition Agent removes old services from the Services list. When you enable this setting and the path and name for services match, Recognition Agent removes any existing service registrations.  1 = Remove old services. 0 = Do not remove old services.  The default is 0.
Auto Form ID	form.enable.deskew	TRUE FALSE	Determines whether Forms Identification Module straightens an image that is slanted.  TRUE = Straighten slanted images. FALSE = Do not straighten slanted images.  The default is FALSE.
	form.identification.quality	Any integer from 0 to 100	Specifies the number of seconds Forms Identification Module dedicates to reading a form. The higher the number, the longer Recognition Agent dedicates, which results in higher quality.  The default is 60.
	form.debug.level	0 1 2	Specifies the level Forms Identification Module uses to debug errors that occur while identifying forms.  0 = Do not debug. 1 = The least verbose debugging. 2 = The most verbose debugging.  The default is 0.
	form.debug.path	\$(IMAGENOWLOCALDIR6)/log	Specifies where Forms Identification Module stores log files related to forms.
Script	ocr.script.enabled	TRUE FALSE	Specifies whether Recognition Agent runs an iScript at the time of zone recognition in a batch.  TRUE = Run an iScript. FALSE = Do not run an iScript.  The default is FALSE.

Group	Setting	Options	Description
Remote	remoted	TRUE FALSE	<p>Specifies whether you installed Recognition Agent on a different computer as the Perceptive Content server.</p> <p>TRUE = Recognition Agent and Perceptive Content Server are installed on different computers.</p> <p>FALSE = Recognition Agent and Perceptive Content Server are installed on the same computer.</p> <p>The default is FALSE.</p> <p><b>Note</b> In 64-bit environments, this setting must be set to TRUE.</p>
	server.ip.address	Any valid IP address or a semicolon-delimited string of valid IP addresses.	<p>Specifies the IP address of Perceptive Content Server. You can supply multiple IP addresses with a semicolon-delimited string. For example: 123.12.123.10;234.23.234.2;345.34.345.3.</p> <p>When you use a delimited list of IP addresses, Recognition Agent attempts to connect to the IP addresses in the order listed until it establishes a successful connection.</p>
	server.ip.port	Any existing port number	<p>Specifies the port number of Perceptive Content Server.</p> <p>The default is 6000.</p>
	heartbeat.interval	Any positive integer	<p>Specifies how often, in seconds, Recognition Agent verifies its connection to Perceptive Content Server.</p> <p>The default is 60.</p> <p><b>Note</b> Do not change this value without first consulting Product Support.</p>
	socket.login.timeout	Any positive integer	<p>Specifies how many seconds Recognition Agent waits for successful login before terminating the connection.</p> <p>The default is 60.</p> <p><b>Note</b> Do not change this value without first consulting Product Support.</p>
	socket.default.timeout	Any positive integer	<p>Specifies how many seconds Recognition Agent waits for APIs.</p> <p>The default is 60.</p> <p><b>Note</b> Do not change this value without first consulting Product Support.</p>

Group	Setting	Options	Description
	force.server.validation	0 1	Specifies whether Recognition Agent forces the server to validate the user ID and password.  1 = Recognition Agent forces the server to validate user ID and password.  0 = Recognition Agent does not force the server to validate user ID and password.  The default is 0.  <b>Note</b> Do not change this value without first consulting Product Support.
	reconnect.interval	Any positive integer	Specifies how many seconds Recognition Agent continues to try to reconnect to Perceptive Content Server after a lost connection.  The default is 60.  <b>Note</b> Do not change this value without first consulting Product Support.
	authentication.token	Any valid token.	Specifies the authentication token to use for authentication with Perceptive Content Server.
Logging	debug.level.file	0, 1-3, 6	Specifies the level Recognition Agent uses to log errors for troubleshooting.  0 = Do not log errors.  1 = The least verbose logging.  6 = The most verbose logging.  The default is 0.
	recognizer.level	0, 1-3, 6	Specifies the level Recognition Agent uses to log errors for troubleshooting.  0 = Do not log errors.  1 = The least verbose logging.  6 = The most verbose logging.  The default is 0.
	recognizer.path	\$(IMAGENOWLOCALDIR6)\log	Specifies where Recognition Agent stores log files.  The default is [drive]\inserver\log.
BarCode Types	ean.8and13	TRUE FALSE	Specifies whether Barcode Module honors this barcode type for zonal OCR.  TRUE = Recognize the barcode type.  FALSE = Ignore the barcode type.
	ean.8and13.supplement		
	upc.a		

Group	Setting	Options	Description
	upc.e		<b>Note</b> If you enable the code39.full.ascii setting, Recognition Agent assumes all Code 39 barcodes are Full ASCII.
	interleaved.2of5		
	interleaved.2of5.checksum		
	code39		
	code39.start.stop.character		
	code39.checksum		
	code39.full.ascii		
	code128		
	codabar		
	postnet		
	iata.2of5		
	ucc128		
	industrial.2of5		
	code93		
	patch		
	pdf417		
	qr.code		
	data.matrix		
	aztec		
	matrix.2of 5		
	automatically.detect.barcode		

Group	Setting	Options	Description
Advanced Barcode Module	enable.advanced.barcode	TRUE FALSE	Specifies whether Barcode Module is active for Recognition Agent.  TRUE = Enable barcode recognition. FALSE = Do not enable barcode recognition. The default is FALSE.
	advanced.barcode.coordinate.sorting	TRUE FALSE	Specifies whether Barcode Module sorts barcodes by the position of their top-left coordinate. When enabled, Recognition Agent looks to the top-left corner of an image and reads barcodes from left to right and top to bottom.  TRUE = Sort barcodes by their top-left coordinate. FALSE = Do not sort barcodes by their top-left coordinate. The default is FALSE.
	<barcode_type>.enable.rec	TRUE FALSE	Specifies whether Barcode Module honors the specified barcode.  TRUE = Honor the specified barcode. FALSE = Do not honor the specified barcode. The default is FALSE.  <b>Note</b> If you enable the code39.full.ascii.enable.rec setting, Recognition Agent assumes all Code 39 barcodes are Full ASCII.

Group	Setting	Options	Description
	<code>&lt;barcode_type&gt;.improve.bounds</code>	TRUE FALSE	<p>Specifies whether Barcode Module uses additional processing power to improve its ability to recognize difficult to read symbols for the specified barcode.</p> <p>TRUE = Enable improved recognition ability.</p> <p>FALSE = Do not enable improved recognition ability.</p> <p>The default is FALSE.</p> <p>Notes</p> <p>Enabling this setting may increase the amount of time necessary to perform the recognition.</p> <p>This setting applies to the following barcode types:</p> <p>codabar code11 code128 code39 hk2of5 i2of5 m2of5 micropdf417 msiplessey nec2of5 std2of5 ind2of5 telepen upc.ean.jan</p>
	<code>codabar.enable.checksum</code>	0 1 2	<p>Specifies whether Barcode Module uses the checksum digits to validate codabar barcodes.</p> <p>0 = Do not enable checksum validation.</p> <p>1 = Enable checksum validation.</p> <p>2 = Enable checksum validation and remove the checksum from the results.</p> <p>The default is 0.</p>

Group	Setting	Options	Description
	code11.enable.checksum	0 1 2 3	Specifies whether Barcode Module uses the checksum digits to validate code11 barcodes.  0 = Enable checksum validation for two digits. 1 = Enable checksum validation for one digit. 2 = Enable checksum validation for two digits and remove the checksum from the results. 3 = Enable checksum validation for one digit and remove the checksum from the results.  The default is 0.
	code39.enable.checksum	0 1 2	Specifies whether Barcode Module uses the checksum digits to validate code39 barcodes.  0 = Do not enable checksum validation. 1 = Enable checksum validation. 2 = Enable checksum validation and remove the checksum from the results.  The default is 0.
	i2of5.enable.checksum	0 1 2	Specifies whether Barcode Module uses the checksum digits to validate interleaved 2 of 5 barcodes.  0 = Do not enable checksum validation. 1 = Enable checksum validation. 2 = Enable checksum validation and remove the checksum from the results.  The default is 0.
	m2of5.enable.checksum	0 1 2	Specifies whether Barcode Module uses the checksum digits to validate matrix 2 of 5 barcodes.  0 = Do not enable checksum validation. 1 = Enable checksum validation. 2 = Enable checksum validation and remove the checksum from the results.  The default is 0.

Group	Setting	Options	Description
	msiplessey.enable.c checksum	0 1 2 3 5 6 7	<p>Specifies whether Barcode Module uses the checksum digits to validate MSI Plessey barcodes.</p> <p>0 = Do not enable checksum validation.</p> <p>1 = Enable Mod 10 checksum.</p> <p>2 = Enable Mod 11 checksum.</p> <p>3 = Enable two Mod 10 checksums.</p> <p>5 = Enable Mod 10 checksum and remove the checksum from the results.</p> <p>6 = Enable Mod 10 and Mod 11 checksums and remove the checksums from the results.</p> <p>7 = Enable two Mod 10 checksums and remove the checksums from the results.</p>