# Setup Guide Automation AIS-Plugin Executer v2.1

Updated: Date 2022-10-31

# Contents

1	Insta	lation Guide	3
	1.1	Pre-installation instructions	3
	1.2	Environmental Configuration	4
	1.3	Configuration Settings	4
	1.4	Additional Settings	6
	1.5	License Key	7
	1.6	Simple distribution – 'Get batch'	7
	1.7	Automatic installation of scripts – PL*SQL	9
	1.8	Customized setup	10
	1.9	Disk Space Requirements	11
	1.10	Ready to Install	11
2	Creat	e configuration file(s) that execute plugin(s)	13
	2.1	Register & start the plugin executer service	18
	2.2	Setup as scheduled task	19
	2.3	Support for Oauth2	22
	2.4	Setup single channel and multi-channel	23
3	Azure	AD configuration for OAuth2	26
4	Upgra	ade	29
	4.1	Upgrading old versions to Automation Server 2.1. 33715 or higher	29
5	Limit	ations	29

Addovation V

## 1 Installation Guide

### **1.1 Pre-installation instructions**

Before the module is uninstalled, changed, or repaired, make sure that config files in the Directory and web config file with related message Tracking folder in inetpub are backed up properly. Continue by clicking on the MSI file and the installer will open up:



Proceed by clicking next and you will be presented with the end-user license agreement:



Accept the license agreement and proceed by clicking Next which will take you the environment configuration. The environment configuration is used for defining various IFS Applications instances.

Addovation V

## **1.2 Environmental Configuration**

When installing the software for the first time, you will need to specify which environment(s) you wish to be able to connect to. You do this by clicking the Add new button. When upgrading to a new version, or modifying an existing installation, you may choose to retain the current settings and simply click Next or make changes to the environment configuration by clicking Modify.

	Addovation <
Select configuration: JotronDev1 JotronDev2 Jotun Dev Jotun QA Loomis Loomis Frod Loomis Test Race75 SP2 Race75 SP6 Race8 Race80	Environment configurations govern access to available databases and ease the task o switching between them. Use the buttons below to add, remove or edit existing environments.
Race8Dev Race8SP2 Race8SP2-2 (default)	Add new Delete Modify

## **1.3 Configuration Settings**

The configuration settings allow you to customize your installation.

HattomationServer 2.1.34252.34252 >	x86 Setup ×			
Configuration settings	Addovation 🗸			
Set up configuration parameters here to be changed later by restarting the installa	fit your particular installation. If needed, the settings can ation wizard, using the "Change" option.			
Configuration name	Use server URL's			
Jucesdev	IFS Enterprise Explorer			
Use as Default	◯ SharePoint			
Use single signon				
	IFS version			
	IFSApplications9 ~			
	Back Next Cancel			

**Configuration name:** Choose a name that describes the configuration (e.g. Race 8 demo), if it should be the default logon choice, and whether IFS is configured for single sign-on. For most integrations which is the purpose of the plugin executer, single signon is not used.

Server URLs: Select the IFS Applications server URL of your choice.

**IFS Version:** Choose your IFS version.



If you are not sure what options to check, leave the default values.

To add a new environment, you need to specify the address to IFS Extended Server (e.g. server1:58080), the Application owner (e.g. IFSAPP) and the IFS portal (e.g. <u>http://race75sp6:58080/</u>).

H AutomationServer 2.1.34252.34252 x86 Setup	×
Data access information	Addovation 🗸
Enter database connection string, application owner	and portal Url.
Database connection (e.g. 'server1:58080'):	
race9dev: 58080	
App owner (e.g. 'IFSAPP'):	
IFSAPP	
IFS Enterprise Explorer (e.g. 'http://server1:5808	0'):
http://race9dev:58080	
,	
	Back Next Cancel

The Database connection must use the prefix HTTP or HTTPS (in lower-case).

AutomationServer 2.1.34252.34252 x86 Setup	×
Data access information Addovation	~
Enter database connection string, application owner and portal Url.	
Database connection (e.g. 'server 1:58080'): race9dev:58080 App owner (e.g. 'IFSAPP'): IFSAPP IFS Enterprise Explorer (e.g. 'http://server 1:58080'):	
http://race9dev:58080 Warning Please use the prefix http or https (in lower-case) for the Database connection.	×
ОК	



🛃 AutomationServer 2.1.34252.34252 x86 Setup	×
Data access information	Addovation 🗸
Enter database connection string, application owner an	d portal Url.
Database connection (e.g. 'server1:58080'):	
http://race9dev:58080	
App owner (e.g. 'IFSAPP'):	
IFSAPP	
IFS Enterprise Explorer (e.g. 'http://server1:58080')	
http://race9dev:58080	
Ва	ck Next Cancel

## **1.4** Additional Settings

In the Additional Settings dialog, you can define a string that exclude classes and formats with this particular text. This field is defaulted to the asterisk string. You can also define the Document Search URL in this dialog.

🖟 AutomationServer 2.1.34252.34252 x86 Setup	×
Additional settings	Addovation 🗸
Display only default company classes when checking	g in
Exclude classes and formats where description contains	s:
*	
Document search URL:	
/secured/docmaw/DocTitleOvw.page	
Back	Next Cancel



## 1.5 License Key

Please enter the license key during the configuration of the software.

🛃 AutomationServer 2.1.34252.34252 x86 Setup	×
License and custom settings	Addovation 🗸
Enter License key and help Url.	
License key (enter all characters including any hyphens	):
Help URL: https://www.addovation.com/solutions/	
Language English (English) V	
Back	Next Cancel
Back	Next Cancel

In the Help URL field, you can specify what the help symbol in the AIS will point to. Included in the AIS is an online user documentation. The link is normally already filled in, so if you don't want to provide your own information, you can leave it as is.

When you have entered the correct license key, you will receive a validation listing the products and their date of expiry.

🛃 AutomationServer 2.1.34252.34252	2 x86 Setup		×
License key validation.		Addovatio	י•
The license key entered entitles you ac create a batch installation file or "PL*SC	cess to the listed modul DL″ button to execute d	es. Click the "Get Batch" but latabase scripts (e.g. access	tton to s granting
scripts).			
Addovation			
Product name	Exp. date	License state	
AIS Uplink	10/9/2021	Valid	
AIS	10/9/2021	Valid	
Message Tracking	10/9/2021	Valid	
AIS Cloud	10/9/2021	Valid	
Office365	10/9/2021	Valid	
Create Document Serv	10/9/2021	Valid	
Document Agent	10/9/2021	Valid	
Plugin Executer	10/9/2021	Valid	
Cot Potch DI *COI	Pack	Next Con	col
Gerbatun PL SQL	Dack	Next Carl	CCI

## **1.6** Simple distribution – 'Get batch'

The 'Get batch' option allows you to install the software on several machines, without having to enter your settings multiple times.



🖟 AutomationServer 2.1.34252.34252 x86 Setup 🛛 🗙					
License key validation.		Addovatio	on 🗸		
The license key entered entitles you ac create a batch installation file or "PL*SC scripts). Addovation	cess to the listed module 2L″ button to execute d	es. Click the "Get Batch" l atabase scripts (e.g. acc	outton to ess granting		
Product name	Exp. date	License state			
AIS Uplink AIS Message Tracking AIS Cloud Office365 Create Document Serv Document Agent Plugin Executer	10/9/2021 10/9/2021 10/9/2021 10/9/2021 10/9/2021 10/9/2021 10/9/2021 10/9/2021	Valid Valid Valid Valid Valid Valid Valid Valid			
Get Batch PL*SQL	Back	Next C	ancel		

When you click on the button 'Get Batch', a .bat file is created, which will launch the .msi using the settings you defined in the current installation.

Observe the following with generating the batch file:

- The batch file must be executed by a user having administrator rights
- If you experience problems running from a network drive, try to copy the installation file to a local drive
- The batch file created can only be used to install 32 bit or 64-bit version, depending on the installation file.

T . N	his PC > Documents v	C	Search Documer	nts	Q
Organize 👻 New fold	er			833 -	2
This PC	Name	D	ate modified	Туре	
3D Objects	Adobe	2	017-03-01 12:25	File folder	
Desktop	- Altova	2	016-07-27 2:24 PM	File folder	
Documents	Any Video Converter	2	016-11-08 12:01	File folder	
Develoada	Any Video Converter Professional	2	016-11-08 12:12	File folder	
- Downloads	FeedbackHub	2	017-10-10 1:14 PM	File folder	
J Music	Graphics	2	016-09-30 10:33	File folder	
Pictures	IFS	2	018-02-02 10:21	File folder	
Videos	IfsDocsTemp	2	018-02-01 4:02 PM	File folder	
Local Disk (C:)		2	016-08-16 11:06	File folder	
Local Disk (D:)	Integration Services Script Component	2	016-11-09 3:17 PM	File folder	
· ·	<				>
File name: Auto	omationServerInstall_2.1.34252.34252.bat				1
Save as type: Batch	files (*.bat)				

A .bat file and a .PS1 file is generated at your chosen location.

When you want to distribute the software to other computers, download the .msi, the.bat and the .PS1 file to the chosen computer. Open the .bat file and right click 'run as administrator'. The installation file will then run with your chosen parameters, installing AIS on the computer.

Addovation V

## **1.7** Automatic installation of scripts – PL\*SQL

If this is the first time you run the AIS installation, you need to run the PL\*SQL function.

HattomationServer 2.1.34252.34252	2 x86 Setup	×
License key validation.		Addovation 🗸
The license key entered entitles you acc create a batch installation file or "PL*SC scripts).	cess to the listed modul 2L″ button to execute d	es. Click the "Get Batch" button to atabase scripts (e.g. access granting
Addovation	Exp. date	License state
AIS Uplink AIS Message Tracking	10/9/2021 10/9/2021 10/9/2021	Valid Valid Valid
AIS Cloud Office365 Create Document Serv Document Agent	10/9/2021 10/9/2021 10/9/2021 10/9/2021	Valid Valid Valid Valid
Plugin Executer	10/9/2021	Valid
Get Batch PL*SQL	Back	Next Cancel

✓ Addovation Automation Server 2.1.34252.34252 x86	×
Execute PL*SQL scripts	Addovation 🗸
Scripts to be executed: ADDO_SETUP ADDO_DEFAULT_GRANTS ADDO_PRES_OBJ_CORE	
Execute using Username: Password: Environment: Race8SP2-2	Execute Close

Click on the PL\*SQL button and type in your username and password (Usually IFSAPP or IFSADM) and the environment where you would like to install the scripts.

If you have scripts saved to your drive, you can browse for these using the 'browse' button. Click 'Execute' to run the scripts and to give the necessary access and grants. The wizard will confirm that the scripts were run successfully. You may have to enter parameters for some of the scripts



## **1.8** Customized setup

Under 'custom setup' you can select the way the features are to be installed for the various MS Office components. Click on the icons in the tree list to adjust the installation for the components.

H AutomationServer 2.1.34252.34252 x86 Setup	- 🗆 X
Choose Setup Type Choose the setup type that best suits your needs	Addovation 🗸
Typical Installs all add-ins covered by your license.	Recommended for most users.
Custom Allows users to choose which program featu they will be installed. Recommended for adv	ures will be installed and where vanced users.
Complete All program features will be installed. Note t space, and potentially slows down Applicati	that this requires the most disk ion startup.
Back	Next Cancel
AutomationServer 2.1.34252.34252 x86 Setup Custom Setup Select modules to be installed.	- • × Addovation
Choose how modules are to be installed on your comp tree below.	outer by clicking the icons in the
Plugin Executer     Document Agent     Addovation Cloud     Addovation Uplink     Addovation Uplink     Addovation Uplink     Message Tracking     Create Documents     M365 CRM Sync     Create Document Azure Cor      Create Document Azure Cor      <	Core files This feature requires 158KB on your hard drive.
Location: C:\Program Files (x86)\Addovation	Vautomation Server\ Browse
Reset Disk Usage B	ack Next Cancel

#### Available components controlled by license key:

- IFS to SQL Server Plugin: Replicates information between IFS Applications and a SQL server.
- Plugin Executer: Executes custom DLLs at regular timer intervals.
- Document Agent: Parses files or e-mails in order to check in as documents against IFS Applications.
- Addovation Cloud: The on-premise version of Addovation Cloud used for mobility.
- Addovation Uplink: The module that connects an IFS Applications instance to Addovation Cloud.
- Message Tracking: Web component that handles transactions typically used in integrations.
- Create Documents: Web service used for backend automation for creating Word and PDF reports.
- M365 CRM Sync: Backend automation module that syncs CRM data between IFS Applications and Office365.
- Create Document Azure Consumer: Extension of Create Document service that allows for scalability using Azure Service Bus and multiple on-premises instances.



#### Location

Always try to use default location if possible. It's easier to find the folders if they are where they should be.

## **1.9 Disk Space Requirements**

According to the selected features in the above step, disk space requirement is calculated and displayed in the Required Column. You can see this by pressing the Disk Usage.

installation of the selecte	Addov	ation
enough disk space avail m the highlighted volume	able for selected fe s, install fewer feat	atures. You tures, or select
Disk Size	Available	Required
442GB	224GB	380MB
1999GB	227GB	0KB
1999GB	227GB	0KB
1999GB	227GB	0KB
	_	``
	enough disk space avail m the highlighted volume Disk Size 442GB 1999GB 1999GB 1999GB	enough disk space available for selected fem the highlighted volumes, install fewer feat Disk Size Available 442GB 224GB 1999GB 227GB 1999GB 227GB 1999GB 227GB

## 1.10 Ready to Install

After adjusting the disk space as per the need in your local machine you can complete the installation:

H AutomationServer 2.1.34252.34252 x86 Setup	_	_		×
Ready to install AutomationServer 2.1.34252.34252 x86	Addov	/at	ion	~
Click Install to begin the installation. Click Back to revie installation settings. Click Cancel to exit the wizard.	w or change any o	of your		
Back	Install		Cance	1



AutomationServer 2.1.34252	.34252 x86 Setup	_		×
	Completed the Automal 2.1.34252.34252 x86 S Click the Finish button to exit the S	ionServ Jetup Wi	er zard	
EU GDPR COMPLIANT				
View User Guide (Recomme	ended) Back Fin	nish	Cano	cel

# 2 Create configuration file(s) that execute plugin(s)

This is applicable for Microsoft Windows 10. Open the configuration window by locating "Addovation Plugin Executer Configuration" in the start menu as following:



Note! The configuration window requires administrator privileges. The configuration window will open up:

🗸 Create configura	tion					-		$\times$
File Help								
Basic								
Source folder patr	n:						1	
Log folder path:								
Outgoing folder:								_
Plugins tolder:								
Mail settings								_
Hostname:			Use OAUTH:		False			~
Username:			Use interactive	Ð:	False			~
Password:			Client ID:					
Port:			Tenant ID:					
Use SSL:	False	~	Redirect LIRI :	https	/login mic	rosoftonlir		or
MailEormat	EMI		redirectore.	mapo	///ogin.rnic	1030101111	10.0011/0	
main offildt.		~						
Impersonation								
Run As.								
Status: Disconnecter	d							

Proceed by clicking in the File menu and select Connect:



✓ Create configuration
File Help
Connect
Save As
Exit
Log tolder path:
Outaoina folder:
Plugins folder:

Available environments as configured during the installation will be available, proceed by selecting the appropriate IFS Applications environment and enter username and password:

✓ Create configura	tion					—		$\times$
File Help								
Basic Source folder path	1:						1	
Log folder path:								
Outgoing folder:	✓ Log on database				×	1	]	
Plugins folder:	User information Username:	ANIS					]	
	Password:	••••					]	
Mail settings Hostname:	Environment:	azure	013		~			~
Username:	Options >>	Re	member pas:	swor Can	d cel OK		,	-
Password:	Not connected to databa	se	Tonuncio.					
Use SSL:	False	$\sim$	Redirect U	RL:	https://login.micro	softonlii	ne.com/co	or
MailFormat:	EML	~						
Impersonation Run As:								
Status: Disconnected	d							

Proceed by pressing OK and status in lower left corner of configuration window should change to "Connected":



Mail settings Hostname:			
Username:			
Password:			
Port:			
Use SSL:		False	~
MailFormat:		EML	~
Impersonati Run As:	on		
 Connected			

Proceed by selecting folders which is the minimum requirement for executing plugins:

✓ Create configuration				-		×
File Help						
Basic						
Source folder path:						_
C:\PluginExecuter\Source						
Log folder path:						_
C:\PluginExecuter\Log						
Outgoing folder:						_
C:\PluginExecuter\Out						
Plugins folder:						_
C:\PluginExecuter\Plugin						
Mail settings	<b>_</b>					
Hostname:	Use OAU	H:	False		`	~
Username:	Use intera	ctive:	False		`	-
Password:	Client ID:					
Port:	Tenant ID:					
Use SSL: False	<ul> <li>Redirect L</li> </ul>	IRL: https	s://login.micros	oftonlin	e.com/co	r
MailFormat: EML	~					
Impersonation Run As:						
Connected						

When done, go to file menu and select File and Save As:



✓ Create configuration			×	
File Help				
Basic				
Source folder path:	V Save Ac			×
C:\PluginExecuter\Sourc				
Log folder path:	← → 🕶 ↑ 📴 « Automati 🛛 Plugin Executer	~ ē		م <sub>ter</sub>
C:\PluginExecuter\Log				
Outgoing folder:	Organise 🔻 New folder			🗄 🔻 😲
C:\PluginExecuter\Out	temp ^ Name ^		Date modified	Туре
Plugins folder:			2022-10-20 00-20	- File folder
C:\PluginExecuter\Plugin			2022-10-20 00.35	File felder
	This PC		2022-10-20 00.39	File folder
Mail settings	3D Objects		2022-10-20 00:39	File folder
Hostname:			2022-10-26 06:59	rile tolder
Username:				
	Documents			
Password:	Downloads			
Port:	👌 Music			
Use SSL: False	E Pictures			
	Mideor V <			
MailFormat: EML	File name: config-DEV.xml			
Impersonation	Save as type: XML Files (*.xml)			~
Run As:				
Connected	∧ Hide Folders		Save	Cancel .:

Ensure that the configuration XML file is saved to Plugin Executer installation folder (normally C:\Program Files (x86)\Addovation\Automation Server\Plugin Executer) and name it config-<ENTER ANY NAME>.xml. The engine will then look for any file that starts with "config" and ends with .xml in upon processing. Multiple configuration files can be saved in order to process various plugins and / or channels such as different e-mail accounts.

When saving the XML it will contain the following parameters:



These can now be used in the plugin. Sensitive information has been encrypted in order to make it secure.



Here follows an explanation of all the available configuration parameters in the configuration interface:

#### Group: Basic

Setting	Explanation
Source folder path	Used normally as incoming folder for various files that are to be processed.
Log folder path	The folder in where all log files are produced.
Outgoing folder	Used normally as the folder in where files are moved after they are processed.
Plugins folder	The folder in one or more DLL files are located. The engine will process all the DLL files that implements the interface as explained in the development guide.

#### Group: Mail settings

Setting	Explanation
Hostname	The URL to the mail server e.g. if using Microsoft Office365 it will be outlook. office365.com
Username	The username for the e-mail account to be used. The username will be encrypted in the configuration XML file.
Password	The password for the e-mail account to be used. The password will be encrypted in the configuration XML file.
Port	The port to be used, e.g. if using Microsoft Office365 it is 995.
Use SSL	Defines if the e-mail server requires SSL or not. For Microsoft Office365 it should be set to true.
MailFormat	Sets what format the e-mail file should be saved as. The common format for Microsoft e-mails is MSG files while as Google uses EML. Microsoft Outlook can open both file types.
Use OAUTH	Defines if OAuth is to be used or not.
Use interactive	The first time one logs on to a newly established e-mail account in Microsoft Office365, a logon dialog is presented to the end user. This setting controls if we are to perform a first time logon or not and set if we are to be presented with a login window or not. After one has performed a first time login, the setting can be set to false.



Client ID	The client ID as defined in e.g. Microsoft Azure. This setting is only required if "use oauth" has been set to true.
Tenant ID	The tenant ID as defined in e.g. Microsoft Azure. This setting is only required if "use oauth" has been set to true.
Redirect URL	The redirect URI that has been defined for the application in e.g. Microsoft Azure. The default value is the Microsoft Office365 default value. This setting is only required if "use oauth" has been set to true.

#### Group: Impersonation

Setting	Explanation
Run As	Defines if the plugin is to use impersonation or not. It is possible against IFS Applications to use a single integration account and then perform impersonation using other accounts. This setting needs to be explicitly granted in IFS Applications. Contact your local technician on how to do this.

## 2.1 Register & start the plugin executer service

The Addovation Plugin Executer Service can be started using start menu and the command prompt.

Addovation	Addovation Create Document Consumer	
Classic Shell	Cloud	•
ESET .	DocumentAgent	
IIS	MessageTracking	×
Maintenance	<ul> <li>O365CRMSync</li> </ul>	
Microsoft Azure	Services	Addovation Plugin Executer Configuration
Microsoft Office Tools	🕨 📑 Uplink	🔸 🛅 Addovation Plugin Executer Service
Microsoft Silverlight	<ul> <li>Visual Studio 2017 (2)</li> </ul>	Register Addovation Plugin Executer Service
Microsoft SQL Server 2008	🕨 刘 Visual Studio 2019	🤐 Unregister and stop Addovation Plugin Executer Service

Example of command line execution (e.g. .bat or .cmd file):

Addo.AIS.PluginExecuter.Service.exe" 0 config="c:\Addovation\AIS Plugins\IFS8TEST\Addo.Agent.Demo\config-DEV.xml" /i



Services (Local)	1				
Addovation Services	Name	Description Sta	tus Startup Type	Log On As	
COLUMN COUNTS	C ActiveX Installer (AshotSV)	Provides Us-	Merzael	Local System	
the service	Addovation Services	Processing Ru	nning Automatic	Local Syste	
and partice	CALADOV ED Command Prompt				- 0 X
ali cont	App R Hirrosoft Windows IVersia	n 18 8 17184 5981			
ne of plugins	(c) 2018 Microsoft Corpor	ation. All rights rese			
	di Applic				
	WEAPPINC:\Users\dlud>cd C:\Progr	am Files (x86)\Addovat	ion\Automation 1	erver\Plugin Executer	
	Charle Chipponnan Ellas (vild)) Ar	dovet los \Automation Se	event@lugin Ever	uters	
	C:\Program Files (x86)\Ad	dovation\Automation Se	ever\Plugin Exe	uter>	
	ALC NC:\Program Files (x86)\As	dovation\Automation Se	rver\Plugin Exe		and a second state of the second state of the second
	Astor Astor Charles (x86) \Ad	dovation\Automation Se	ever Plugin Exer	uter>Addo.ATS.PluginExecuter	Service.exe 0 config="C:\Pro
	Athen	on Abconación Server (P	roßtu execocen/u	CHITIG-DEVIXMI CONSULE	
	Chine C:\Program Files (x86)\As		rver\Plugin Exe	uter>Addo.AIS.PluginExecuter	Service.exe 0 config="C:\Pro
	Aucrestram Files (x86)\Addovati	on\Automation Server\P	lugin Executer\	onfig-DEV.xml"	
	Calego Constant Eilar (wE6))Ad	downtion Lutamation fo	augelolugio Ever	utonsAdda ATE BlueteEvecutoe	Feedles and & config-"Culles
	G Becku gram Files (186) Addrevat	co\Automation Server\P	lugin Executer)	onfig-DEV.xml"	Service.exe o contig- c. tero
	Cap Dase File				
	Changt C:\Program Files (xE6)\As	dovation\Automation Se	rvor\Plugin 1xe	uter>Adds.AIS.PluginExecutor	Service.exp @ config="C:\Pro
	ReLocaram Files (x86)\Addovati	on\Autonation Server\P	lugin Executer (	ontig-DEV.xml" console	
	C:\Program Files (x86)\As	dovetion\Automation Se	ever\Plugin Exe	utersAddo.AIS.PluginExecutor	Service.exe @ config="C:\Pro
	SetButtegram Files (x80)\Addovati		lugin Executor	onfig-DEV.xml" /i	
	Li tiurte				
	A Detect OPogram Files (X86) (A	dovation Automation Se	ever (Plugin Exe	uter>	
	The Country				
	Contra Contra				
	Copida Copida				
	Chima Chaine				
	Client License Service (ClisSVC)	Provides inf.	Menuel Criq.	Local System	
	CNG Key isolation	The CNG ke Ru	nning Manual (Ing.	Local Syste	
	CDM- Exent System	Supports Sy Ru	nning Automatic	Local Service	
	COM- System Application	Manages th	Menual	Local Syste	
	Computer Browser	Maintains a., Ru	nning Manual (Ting.	Local Syste	
	Connectori Devices Nationa Service	This service Ru	mina Automatic III.	Local Senire	

If you want to run the plugin on scheduled intervals, one can simply setup a bat file or scheduled task using the following configuration, for instance

#### .bat file configuration:

```
start cmd.exe /k ""c:\Program Files (x86)\Automation Server\AddoServices\
Addo.AIS.PluginExecuter.Service.exe" 0 config="c:\Addovation\AIS
Plugins\IFS8TEST\Addo.Agent.Demo\config-DEV.xml" console"
```

## 2.2 Setup as scheduled task

Create a new scheduled task, select start a program:

General Triggers Actions Conditions Settings History	
When you create a task, you must specify the action that will occur when your task starts.	
Action Details	
Start a program "D:\Addovation\Automation Server\AddoServices\Addovation.Service.App	
	•
< III >	
New Edit Delete	
ОК	Cancel

and point program / script to Addo.AIS.PluginExecuter.Service.exe



General	Triggers	Actions	Conditions	a lur.		Edit Action	X
When	you create	a task, yo	u must spec	You must spe	cify what action this	task will perform.	
Action	ı	Det	tails	A			
Start a	ı program	"D:	\Addovation	Settings Program/sc "D:\Addova	ript: tion\Automation Se	erver\AddoServices\J	Addov Browse
< Nev	v	Edit	Dele	Add argum Start in (opt	ents (optional): ional):	[	0 config="D:\Addovation
					là:		
Secu	rity option	۱۴					OK Cancel

and arguments as: 0 config="c:\Addovation\AIS	
Plugins\IFS8TEST\Addo.Agent.Demo\config-DEV.xml"	console

The 0 indicates to only run service once for every execution, and not repeatedly. The config points to what configuration XML file to use and last indicate to run in console mode and not as a service.

To define an interval in Task scheduler action.

neral Triggers A When you create a t	ttions Conditions Settings History ask, you must specify the action that will occur when your t	You must specify what action this task will perform. Action: Start a program Settings	
Action	Details	Program/script:	
Start a program	"C:\Program Files (x86)\Addovation\Automation Server	"C:\Program Files (x86)\Addovation\Automation Server\F Bro	owse
		Add arguments (optional): 12000 config=	-C:\Prog

12000 config="c:\Addovation\AIS Plugins\IFS8TEST\Addo.Agent.Demo\config-DEV.xml"



Define an interval using a trigger in the scheduler. The Minimum value that can be set is 1 minute.

Plugin7	TestEx Proj	perties (Lo	cal Compute	r)	New Trigger	Х
General When y	Triggers ou create	Actions a task, you	Conditions a can specify	Settings the condi	Begin the task: On a schedule Settings One time Start: 2/20/2019 T1228:21 PM T Synchronize across time zones	
Ingge	r	Det	ails		<ul> <li>○ Daily</li> <li>○ Weekly</li> <li>○ Monthly</li> </ul>	
					Advanced settings  Delay task for up to (random delay): 1 hour  Repeat task every: Immutes  for a duration of: 1 day	
					Stop all running tasks at end of repetition duration  Stop task if it runs longer than:  3 days	
New	v	Edit	Delet	e	Expire: 2/20/2020 * 12:28:21 PM 5 Synchronize across time zones	
					U Enabled	1

To run the scheduled task. Permissions should be granted as depicted below.

PluginTestE	x Properties (Local Computer)	×
General Trig	gers Actions Conditions Settings History	
Name:	PluginTestEx	
Location:	\ \	
Author:	ADDOVATION\chpr	
Description:		
-Security opt	ions	
When runn	ing the task, use the following user account:	
chpr	Change User or Group	
Run onl	/ when user is logged on	
O Run whe	ther user is logged on or not	
Dor	ot store password. The task will only have access to local computer resources.	
Run wit	highest privileges	
🗌 Hidden	Configure for: Windows 10	~
	OK Cancel	

Set an interval using the service properties window.



Action view	Heip					
⇒ <u>⊡</u> ⊆	2 📑   🖬 🖬   🕨 💷 II I	•				
Services (Local)	Services (Local)					
	Addovation Services	Name	Description	Status	Startup Type	Log On As
		🖏 ActiveX Installer (AxInstSV)	Provides Us		Manual	Local Syste
	Start the service	AdaptiveSleepService	AMD adapti	Running	Automatic (D	Local Syste
		🖏 Addovation Document Agent	Enables aut	Running	Automatic	Local Syste
	Description:	🖏 Addovation Message Tracking Service	Message Tr	Running	Automatic	Local Syste
	Processing of plugins	Addovation Office365IFS Service (App10-addovation.com)	Sync betwe		Manual	Local Syste
		Addovation Office			Manual	Local Syste
		Addovation Service Addovation Services Properties (Local C	Lomputer)		Manual	Local Syste
		Adobe Acrobat Up General Los On Recovery Depende	ncies	Running	Automatic	Local Syste
		AllJoyn Router Ser			Manual (Trig	Local Service
		AMD External Ever Service name: AddoService		Running	Automatic	Local Syste
		App Readiness Display name: Addovation Services			Manual	Local Syste
		Application Host I		Running	Automatic	Local Syste
		Application Identi Description: Processing of plugins	^		Manual (Trig	Local Service
		Application Inform	~	Running	Manual (Trig	Local Syste
		Application Layer Path to executable:			Manual	Local Service
		Application Mana "C:\Program Files (x86)\Addovation\Auto	mation Server\Plugin Executer\Ad		Manual	Local Syste
		AppX Deploymen Status boas Maxwal	×.		Manual	Local Syste
		ASP.NET State Ser	Ť		Manual	Network S
		🖏 AssignedAccessM			Manual (Trig	Local Syste
		🚇 Auto Time Zone L			Disabled	Local Service
		AVCTP service Service status: Stopped		Running	Manual (Trig	Local Service
		Sackground Intell	Pausa Passas		Manual	Local Syste
		Stant Stop	rause riesume	Running	Automatic	Local Syste
		Base Filtering Eng You can specify the start parameters that	apply when you start the service	Running	Automatic	Local Service
		BitLocker Drive En from here.			Manual (Trig	Local Syste
		Start parameters: 10000			Manual	Local Syste
		🖏 Bluetooth Audio (		Running	Manual (Trig	Local Service
		🖏 Bluetooth Suppor		Running	Manual (Trig	Local Service
		🖏 Bluetooth User Su	Cancel Annhy		Manual (Trig	Local Syste
		BranchCache	долост Арру		Manual	Network S
		🤹 Capability Access Manager Service	Provides fac	Running	Manual	Local Syste
		CaptureService_9ae75a3	OneCore Ca		Manual	Local Syste
		Certificate Propagation	Copies user	Running	Manual (Trig	Local Syste

## **2.3 Support for Oauth2**

To make Oauth2 work with plugins such as "e-mail to case", one can either use the configuration interface or specify values directly in the XML configuration file. If the customer has an existing config xml file, then you can just copy the necessary values into the existing config file with new values.

🔛 *C:\F	Program Files (x86)\Addovation\Automation Serve\Plugin Executer\config-DEV.xml - Notepad++		×
File Ed	it Search View Encoding Language Settings Tools Macro Run Plugins Window ?	+	• ×
	a a construction a la sina la		
🔚 config-	DEV xml 🖂		
2	<pre><parameters></parameters></pre>		^
3	<sourcefolder>C:\PluginExecuter\Source</sourcefolder>		- 10
4	<pre><destfolder>C:\PluginExecuter\Out</destfolder></pre>		- 11
5	<plugins>C:\PluginExecuter\Plugin</plugins>		- 11
6	<log_folder>C:\PluginExecuter\Log</log_folder>		- 11
7	<ifs_username>R3n7iowHKqE74u08hSG1jw==</ifs_username>		- 11
8	<ifs_password>NIq8diJKQPDQrQNw5oxpwA==</ifs_password>		- 11
9	<ifs_appowner>SswmmUU+GqQ5riQSxdnejQ==</ifs_appowner>		- 11
10	<pre><ifs_extserver>o7/ineLrt90bv654J4rz8aQ/HTn4+j5tMfv080a155J6eS2ti0LG30xcoN00tIwP2FLZ7zUzXMvdeAcqqZhTRo5hvriWvEr905KHDSdXnFo=</ifs_extserver></pre>		- 11
11	<mail_hostname>jQasbMJKUndZs4NEgFpflA==</mail_hostname>		- 11
12	<mail_username>jQasbMJKOndZs4NEgFpfla==</mail_username>		- 11
13	<mail_password>jQasbMJKOndZs4NEgFpfla==</mail_password>		- 11
14	<mail_port>jQasbMJKOndZs4NEgFpflA==</mail_port>		- 11
15	<mail_usessl>False</mail_usessl>		- 11
16	<pre><mail_format>EML</mail_format></pre>		
17	<ifs_version>IFSApplications10</ifs_version>		
18	<run as=""></run>		
19	<useoauth>True</useoauth>		
20	<useinteractive>False</useinteractive>		
21	<clientid>***Add client ID here***</clientid>		_
22	<tenantid>***Add tenant ID here***</tenantid>		
23	<pre><redirecturl>https://login.microsoftonline.com/common/oauth2/nativeclient</redirecturl></pre>		
24	L		
			~
eXtensible	: Markup Language file length : 1 205 lines : 24 Ln : 22 Col : 48 Pos : 1 100 Windows (CR LF) UTF-8-BOM		INS

**USEOAUTH:** This will use Oauth2 to login to the mailbox of the given emails that will be processed.

**USEINTERACTIVE:** This will allow you to login with an interactive login screen. If **False** it will login automatically in the background.

**CLIENTID:** This is the ID of the application in Azure. (Customer will need an app registration details in Azure to configure values (Refer Section 3 for more information).

**TENANTID:** This is the ID of the Azure tenant that Mail2Case will use for OAuth.



**REDIRECTURL:** A value that is used to help Azure find back to the application.

#### **IMPORTANT!**

1. When you use Mail2Case with Oauth2 for the first time, you need to use interactive login. Microsoft has a policy where interactive login needs to be used first time. Try to login to regular mailbox and 'reply' mailbox with interactive once by setting it to **True** and then you can switch back to automatic login by setting USEINTERACTIVE to **False**.

2. If you change password for mailbox you need to change it in the config file and other places where it has been used.

3. If there is a mailbox used for replying the customer needs to make sure that Smtp authentication is used on that mailbox.

4. If the customer creates a custom Redirect URL, then they need to inform us, or we will just assume that they will be using <a href="https://login.microsoftonline.com/common/oauth2/nativeclient">https://login.microsoftonline.com/common/oauth2/nativeclient</a>

## 2.4 Setup single channel and multi-channel

#### Setup Single channel

Step 1: Make sure that the properly filled configuration file resides in the Plugin Executer folder.

Name	Date modified	Туре	Size
Addo.Fnd.DataAccess.dll	10/14/2022 2:20 AM	Application exten	98 KB
Addo.Fnd.DataAccess7.dll	10/14/2022 2:21 AM	Application exten	83 KB
Addo.Fnd.DataAccess8.dll	10/14/2022 2:21 AM	Application exten	94 KB
🗟 Addo.Fnd.DataAccess9.dll	10/14/2022 2:21 AM	Application exten	95 KB
Addo.Fnd.DataAccess10.dll	10/14/2022 2:21 AM	Application exten	95 KB
Addo.Fnd.Globals.dll	10/14/2022 2:21 AM	Application exten	188 KB
Addo.Fnd.GUI.dll	10/14/2022 2:21 AM	Application exten	2,179 KB
Addo.Fnd.Library.dll	10/14/2022 2:20 AM	Application exten	48 KB
🗟 Addo.Fnd.Logic.dll	10/14/2022 2:20 AM	Application exten	1,302 KB
🗟 Addo.Fnd.Mail.dll	10/14/2022 2:21 AM	Application exten	67 KB
Addo.Fnd.Office.dll	10/14/2022 2:21 AM	Application exten	63 KB
Addo.Fnd.WPF.dll	10/14/2022 2:21 AM	Application exten	725 KB
Addovation.Core.Dal.dll	10/14/2022 2:21 AM	Application exten	32 KB
Addovation.Core.Library.dll	10/14/2022 2:21 AM	Application exten	22 KB
BouncyCastle.Crypto.dll	10/14/2022 2:16 AM	Application exten	2,723 KB
Config-mail2case.xml	10/18/2022 5:07 PM	XML File	2 KB
MailKit.dll	10/14/2022 2:16 AM	Application exten	801 KB
Microsoft.Identity.Client.dll	10/14/2022 2:17 AM	Application exten	1,367 KB
Microsoft.Office.Interop.Word.dll	10/14/2022 2:16 AM	Application exten	919 KB
🗟 MimeKit.dll	10/14/2022 2:16 AM	Application exten	984 KB
MsgKit.dll	10/14/2022 2:16 AM	Application exten	322 KB

Step 2: Start the service.

Once an e.g., email is received to the channel of the used mailbox, the mail will be processed according to the plugin and values configured in the XML config file.

Step 3: Depending on the plugin (DLL), results can be found in the log file that might look like this:



#### Setup Multi channel

Several configuration files containing different settings and / or e-mail accounts in the plugin executer folder can be used simultaneously with the service. One xml config file should contain details relevant to one mail account.

Name	Date modified	Туре	Size
Addo.Fnd.DataAccess7.dll	10/14/2022 2:21 AM	Application exten	83 KB
Addo.Fnd.DataAccess8.dll	10/14/2022 2:21 AM	Application exten	94 KB
Addo.Fnd.DataAccess9.dll	10/14/2022 2:21 AM	Application exten	95 KB
Addo.Fnd.DataAccess10.dll	10/14/2022 2:21 AM	Application exten	95 KB
Addo.Fnd.Globals.dll	10/14/2022 2:21 AM	Application exten	188 KB
Addo.Fnd.GUI.dll	10/14/2022 2:21 AM	Application exten	2,179 KB
Addo.Fnd.Library.dll	10/14/2022 2:20 AM	Application exten	48 KB
Addo.Fnd.Logic.dll	10/14/2022 2:20 AM	Application exten	1,302 KB
Addo.Fnd.Mail.dll	10/14/2022 2:21 AM	Application exten	67 KB
Addo.Fnd.Office.dll	10/14/2022 2:21 AM	Application exten	63 KB
Addo.Fnd.WPF.dll	10/14/2022 2:21 AM	Application exten	725 KB
Addovation.Core.Dal.dll	10/14/2022 2:21 AM	Application exten	32 KB
Addovation.Core.Library.dll	10/14/2022 2:21 AM	Application exten	22 KB
BouncyCastle.Crypto.dll	10/14/2022 2:16 AM	Application exten	2,723 KB
📓 config-mail2case.xml	10/18/2022 5:07 PM	XML File	2 KB
📓 config-mail2case1.xml	10/18/2022 5:07 PM	XML File	2 KB
config-mail2case2.xml	10/18/2022 5:07 PM	XML File	2 KB
config-mail2case3.xml	10/18/2022 5:08 PM	XML File	2 KB
📓 config-mail2case4.xml	10/18/2022 5:08 PM	XML File	2 KB
MailKit.dll	10/14/2022 2:16 AM	Application exten	801 KB
Microsoft.Identity.Client.dll	10/14/2022 2:17 AM	Application exten	1,367 KB

It is recommended to create several folders for each configuration file in the incoming "IN" folder and 'Log" folder:



				•
• 🗆	Name	Date modified	Туре	Siz
		10/21/2022 10:13 PM	File folder	
	In02	10/20/2022 11:27 AM	File folder	
	In03	10/20/2022 11:26 AM	File folder	
	In04	10/20/2022 11:25 AM	File folder	
	In05	10/20/2022 11:24 AM	File folder	

# 3 Azure AD configuration for OAuth2

The following configuration is to be done in the Azure Portal (<u>www.portal.azure.com</u>) and global administration rights for the tenant is required.

#### Step1: Register the Application

Home⇒ App registrations ≈ …
🕂 New registration 🔀 Endpoints 🤌 Troubleshooting 🖒 Refresh 🞍 Download 🖼 Preview features   🖗 Got feedback?
Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more
All applications Owned applications Deleted applications
This account isn't listed as an owner of any applications in this directory. View all applications in the directory

Go to: Azure Active Directory > App registrations > New registration

On the registration pane, provide a name and click register. Select the account type. Select "Public client/native (mobile & desktop)" platform and provide the below redirect URL: https://login.microsoftonline.com/common/oauth2/nativeclient.

Register an application
* Name
The user-facing display name for this application (this can be changed later).
OAuth2AppReg 🗸
Supported account types
Who can use this application or access this API?
<ul> <li>Accounts in this organizational directory only (Addovation R&amp;D only - Single tenant)</li> </ul>
O Accounts in any organizational directory (Any Azure AD directory - Multitenant)
O Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
O Personal Microsoft accounts only
Helo me choose
Redirect LIRL (ontional)
Network on the state the state of the second state of the state state of the second state of the
changed later, but a value is required for most authentication scenarios.
Public client/native (mobile )           https://login.microsoftonline.com/common/oauth2/nativeclient
Du anna a' an anna an tha t-tinn a' Dhafann Dalinin a' a
By proceeding, you agree to the MICrosoft Platform Policies 😋
Register



Application (client) ID and Directory (tenant) ID will be displayed on Overview, and it will be required later for configuring the service for Oauth2.

Home >	
OAuth2AppReg	\$
₽ Search	« 📋 Delete 🌐 Endpoints 💀 Preview features
K Overview	Got a second? We would love your feedback on Microsoft identity platform (previously
🗳 Quickstart	
🚀 Integration assistant	
Manage	Display name : OAuth2AppReg
Branding & properties	Application (client) ID :
	Object ID :
	Directory (tenant) ID :
📍 Certificates & secrets	Supported account types : My organization only
Token configuration	

#### Step2: Authentication

Under authentication, enable "Allow public client flows" as below.

OAuth2AppReg   A	uthentication 🖈 …
₽ Search «	♂ Got feedback?
Sverview	Accounts in runs organizational directory only (Addovation Next) only - single tenanty     Accounts in any organizational directory (Any Azure AD directory - Multitenant)
🗳 Quickstart	Help me deride
🚀 Integration assistant	rep ne occue
Manage	
Branding & properties	Due to temporary differences in supported functionality, we don't recommend enabling personal Microsoft accounts for an existing registration. If you need to enable personal accounts, you can do so using the manifest
Authentication	eolior. <u>Learn more about mese resultions</u>
📍 Certificates & secrets	Advanced settings
Token configuration	Allow public client flows <sup>(1)</sup>
API permissions	
Expose an API	Phable the following mobile and desktop nows:
App roles	<ul> <li>App collects plaintext password (Resource Owner Password Credential Flow) Learn more 2</li> <li>No keyboard (Device Code Flow) Learn more 2</li> </ul>
🚨 Owners	SSO for domain-joined Windows (Windows Integrated Auth Flow) Learn more
🕹 Roles and administrators	App instance property lock $^{\odot}$
Manifest	Configure the application instance modification lock. Learn more 👩 Configure
Support + Troubleshooting	
P Troubleshooting	Save Discard
<u> </u>	



#### Step3: Setup API permission

On the same app registration, grant admin consent for users on the API Permissions as depicted below.

n «	🕐 Refresh 🛛 🔗 Got feedb	ack?				
iew 🍵						
kstart gration assistant	The "Admin consent require value in your organization, c	d" column shows th or in organizations v	e default value for an organization. However, user consent can where this app will be used. <u>Learn more</u>	be customized per permission,	user, or app. This column may n	it refl
	Configured permissions					
ing & properties	Applications are authorized to ca	II APIs when they	are granted permissions by users/admins as part of the co	nsent process. The list of con	figured permissions should inc	lude
entication	all the permissions the applicatio	n needs. Learn mo	ore about permissions and consent		5.	
cates & secrets	+ Add a permission 🗸 Gra	ant admin consent	for Addovation R&D			
n configuration	API / Permissions name	Туре	Description	Admin consent requ	Status	
ermissions	∽ Microsoft Graph (5)					
e an API	email	Delegated	View users' email address	No	Granted for Addovation	
bles	offline_access	Delegated	Maintain access to data you have given it access to	No	Granted for Addovation	
rs	POP.AccessAsUser.All	Delegated	Read and write access to mailboxes via POP.	No	Granted for Addovation	
s and administrators	SMTP.Send	Delegated	Send emails from mailboxes using SMTP AUTH.	No	📀 Granted for Addovation	

Step4: Add details to xml file or use configuration interface:

Application (client) Id, Directory (tenant) Id and Redirect URL should be given as values in the Document Agent configuration file.

```
<CLIENTID> ***Add client_id*** </CLIENTID>
<TENANTID> ***Add tenant_id*** </TENANTID>
<REDIRECTURL>https://login.microsoftonline.com/common/oauth2/nativeclient</REDIRECTURL>
```

# 4 Upgrade

## 4.1 Upgrading old versions to Automation Server 2.1. 33715 or higher.

While performing an upgrade, environments and license key should be added again, due to the fact that previously configured environments won't be available during and after the upgrade.

# 5 Limitations

Non-standard configurations in terms of authentication towards IFS Applications is not supported. Also, customizations that might affect standard API:s being used is not supported, for full list of used queries and API:s please contact Addovation if in doubt.

Installation of software requires writing to registry in local machine hive.

Addovation does not install any special views or packages in the database.

Change of e-mail authentication requires some change in the plugin DLL as well.