Configuration Setup Guide Automation AIS-Plugin Executer v2.1

Updated: Date 2020-09-25

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Addovation V

1 Plugins development

Plugins can easily be developed using AIS. The plugins can then run as a Windows Service or scheduled task. This chapter will describe how to develop such a plugin.

After AIS has been installed, open up Microsoft Visual Studio and select the following:



Figure 1 Create Class Library



Re-factor the naming to something more appropriate:



Figure 2 Re-factor Class Library

for an instance:



Figure 3 Example Class Library

Next step is to point to AIS references and enable debugging for development.



Figure 4 References



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Figure 5 Add References

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		Browse	OK Cancel

Figure 6 – Add reference



In order to run as plugin, we need to implement an interface called IProcess:



Figure 7 Implement IProcess

Add the reference and also choose to implement it:



Figure 8 Implement interface



8	
9 🗐 namespace Addo.Agent.Demo	
10 {	
0 references	
11 🖻 public class AddoCustomPlugin : IProcess	
12 {	
0 references	
13 🚊 public void Run(Dictionary <string, string=""> configValues, Addo</string,>	Globals addoGlobals)
14 {	
15 throw new NotImplementedException();	
16 }	
17 }	
18 [}	

Figure 9 Implement interface

Change the implementation of Run and also add the process description like following:



Figure 10 process description

Now we have a simple console app that only writes to debug console for testing purposes, next step is to debug this. Start the Addovation.Configuration.Client.exe (found in start menu or in AddoServices folder). Connect to some IFS instance and select folders for source, log, outgoing but most important – select the folder in where your DLL is being set at the moment, for instance:



✓ Create configuration - □ ×	
File Help	
Basic	
Source folder path:	Browse For Folder
C:\AddoPluginDemo\IN	
Log folder path:	
C:\AddoPluginDemo\LOG	
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Connected	

Figure 11

Save the configuration by selecting Save As:

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Outgoing folder:					
C:\AddoPluginDemo\OUT					
Plugins folder:					
C:\Users\duja\source\repos\Addo.Agent.Demo\Ac					

Figure 12 Save as



Save it into the AddoServices folder (Administrator permission might be required):

Program Files (x86)) > Addovation > Automation Server : AddoServices			
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*	Addo.Fnd.Library.dll	2018-07-06 07:28	Application extens	40 KB
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	Addo.Fnd.Office.dll	2018-07-06 07:28	Application extens	59 KB
	🗟 Addo.Fnd.WPF.dll	2018-07-06 07:28	Application extens	657 KB
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	ADDO_DOC_FAILURE_EVENT_ACTION.sql	2018-07-03 06:23	Microsoft SQL Ser	5 KB
	ADDO_DOC_SUCCESS.sql	2018-07-03 06:23	Microsoft SQL Ser	3 KB
	ADDO_DOC_SUCCESS_EVENT_ACTION.sql	2018-07-03 06:23	Microsoft SQL Ser	5 KB
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	Addovation.Core.Library.dll	2018-07-06 07:28	Application extens	8 KB
	📷 Addovation.Service.Application.exe	2018-07-06 07:28	Application	26 KB
	Addovation.Service.Application.exe.config	2018-07-06 07:28	XML Configuratio	2 KB
	Config-DEV.xml	2018-07-06 10:03	XML File	1 KB
	DocumentManagementService.dll	2018-07-06 07:28	Application extens	39 KB

Figure 13 Config-Dev

Now, in order to debug in an easy way – we can start our class library by pointing to Addovation.Service.Application.exe

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		Värnamo	IFSAP8	2018-07-06 09:48	File folder	
	Use remote mach	🐼 Microsoft Visual S	IFSAP9	2018-07-06 09:48	File folder	
	Enable Debuggers		Addovation.Configuration.Client.exe	2018-07-06 07:28	Application	24 KB
	Enable native cos	CneDrive - Addov	Addovation.Service.Application.exe	2018-07-06 07:28	Application	26 KB
		🝊 OneDrive - Persor				
	L Enable SQL Serve	This PC				
	Enable the Visual	- marc				

Figure 14 Start external program



Save everything, set a break point and run the library, if everything works as expected it should hit the breakpoint in the following way:



Figure 15 Break point



Figure 16





Figure 17

The AddoServices will on default run on 5 seconds intervals that can be overridden in the constructor. Next step is to configure a login towards IFS Applications using the credentials defined in the configuration XML file. So stop debugging and re-write the code to the following in order to login and do a simple query and parse the result:



Figure 18



The plugin will now try and login, execute a query and show the result set. Hit Start again in Visual Studio and if everything being done correct you should be able to see something like:

AddoCustom	Plugin.cs 🕯 🕫 🗙		•	Diagnostic Tools	000000000		
C# Addo.Age	nt.Demo	👻 🗣 🗣 🗸 🗸 🗸		😟 Select Tools 👻 🔍 Zoom In 🔍 Zoom Out	Rh Res		
13			÷	Diamantin and a			
14	Enamespace Addo.A	Agent.Demo		Diagnostics session: 6 seconds			
15				10s		20s	
16	ProcessDesc	ription("Some description of our plugin")]		✓ Events			
17	public class	AddoCustomPlugin : IProcess		m			
18	1					C	D
	0 references			a Process Memory (MB)	V GC	 Snapsnot 	Prive
19	📮 🛛 public v	<pre>void Run(Dictionary<string, string=""> configValues, AddoGlobals addoGlobals)</string,></pre>		21			
20	{						
21	try						
22	{						
23		using (addoGlobalsgDbAccess)		A CPU (% of all processors)			
24		{		100			
25		//Iry to login					
26		11 (!Dal.TryLogon(configValues, ref addoGlobals, 180000))					
27		C:\Program Files (x86)\Addovation\Automation Server\AddoServices\Addovation Service Applicati	ion e	eye	-	П	×
28							~
29		Architecture: 32-bit					
21		Found 1 Configuration files					
32		A 75					
33		B 25					'n
34		C 5					
35	}						
36	cato						
99 % + 4							

Figure 19

Congratulations, you are now ready to develop plugins of any kind with endless possibilities.

When deploying the plugin on another server, simply compile it in release mode and copy the DLL file to some folder (remember to preserve source files in SVN though). Re-configure the XML and make sure that the PLUGINS points to that folder:

📔 C:\	Program Files (x86)\Addovation\Automation Server\AddoServices\config-DEV.xml - Notepad++	_		×		
File F	dit Search View Encoding Language Settings Tools Macro Run Plugins Window ?			x		
📄 confi	g-DEV xml 🔽					
1	<pre><?xml version="1.0" encoding="utf-8"?></pre>					
2	Q <parameters></parameters>					
3	·· <sourcefolder>C:\AddoPluginDemo\IN</sourcefolder>					
4	·· <destfolder>C:\AddoPluginDemo\OUT</destfolder>					
5	·· <plugins>C:\Users\anis\Documents\Visual Studio 2015\Projects\Addo.Agent.Demo\Addo.Agent.Demo\bin\Debug</plugins>	g <th>INS></th> <th></th>	INS>			
6	·· <log_folder>C:\AddoPluginDemo\LOG</log_folder>					
7	··· <ifs_username>j7hnITEwPu+xGC9JKh2WHA==</ifs_username>					
8	··· <ifs_password>j7hnITEwPu+xGC9JKh2WHA==</ifs_password>					
9	··· <ifs_appowner>SswmmUU+GqQ5riQSxdnejQ==</ifs_appowner>					
10	··· <ifs_extserver>FaxPTsVDjvCmnKqdBfTLCLzVj6Pp8BIV1yurHJcXmds=</ifs_extserver>					
11	··· <mail_hostname>jQasbMJKOndZs4NEgFpflA==</mail_hostname>					
12	··· <mail_username>jQasbMJKUndZs4NEgFpflA==</mail_username>					
13	··· <mail_password>jQasbMJKUndZs4NEgFpflA==</mail_password>					
14	··· <mail_port>jQasbMJKOndZs4NEgFpflA==</mail_port>					
15	MAIL_USESSL>False					
16	··· <mail_format>EML</mail_format>					
17	··· <ifs_version>IFSApplications8</ifs_version>					
18	··· <run_as·></run_as·>					
19						

Figure 20 Config file



If starting AddoServices as a windows service it will automatically try and run the DLL now every 5 seconds by default. If the previous instance is not done, it will not start another instance. So if you have long running operations – only 1 active instance will be executed at any given time.

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\Addovation.Service.Application.exe" 0
config="c:\Addovation\AIS Plugins\IFS8TEST\Addo.Agent.Demo\config-DEV.xml"
console"
```

Scheduled task

Create a new scheduled task, select start a program:



Figure 21 Actions

and point program / script to Addovation.Service.Application.exe



General Triggers	Actions Conditions	e w Luc . Edit Acti	ion
When you create a	task, you must spec	You must specify what action this task will	perform.
Action	Details		
Start a program	"D:\Addovation	Action: Start a program Settings	~
		Program/script: "D:\Addovation\Automation Server\Add	oServices\Addov Browse
		Add arguments (optional):	0 config="D:\Addovation
		Start in (optional):	
< New	Edit Dele		
		L3	
Security ontions			OK Cancel

Figure 22 Point program

```
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.

2 System requirements

The table below describes the system requirements for client machines.

System Requirements	s for plugins development
Operating System	Windows 10 (32-bit or 64-bit) and above Windows Server 2019 (32-bit or 64-bit) and above
Memory	4 GB RAM or more
Visual Studio	2017 version 15.8.7 or above
СРU	Intel/AMD (Dual core or more recommended)
.NET Framework	Full 4.6.2 or newer
Addovation AIS	Major version 2

*) Other Microsoft Windows and Visual Studio versions might work but is unsupported.

3 Compatibility matrix

Addovation Plugins Executer is compatible with/requires the following operating systems, frameworks and applications:

SUPPORTS / REQUIRES	VERSION / BITNESS	PLUGIN EXECUTER
WINDOWS SERVER 2012	32 and 64	×
WINDOWS SERVER 2016	32 and 64	\checkmark
WINDOWS SERVER 2019	32 and 64	\checkmark
WINDOWS 7	32 and 64	×
WINDOWS 8	32 and 64	×
WINDOWS 10	32 and 64	\checkmark
IFS APPLICATIONS	7	×
IFS APPLICATIONS	8	×
IFS APPLICATIONS	9 Upd 15	✓
IFS APPLICATIONS	10 Upd 9	\checkmark

4 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.

5 Contact

For further inquiries, please contact your nearest Addovation office:

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For existing customers, please use http://support.addovation.com