## **Ramco Aviation Solution**

## Version 5.8

#### **Installation Manual**

Internet Information Server (IIS) 8.0 Settings -Ramco Aviation Solution



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#### **Revision History**

Version	Date	Author	Description
1.0	30/12/2010	Vinoth Kumar K	Created
1.3	28/03/2013	Vinoth Kumar K	Modified for Windows 2012 and SQL 2012 Environments

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#### 1. Introduction

This installation guide provides necessary guidelines and steps that have to be followed for configuring the Internet Information Server (IIS) 8.0 related to the Ramco Aviation Solution. IIS could be launched through Administrative Tools  $\rightarrow$  Internet Information Service(IIS) Manager (or) Run Command  $\rightarrow$  Type "inetmgr"  $\rightarrow$  Click **Ok**.

This comprises the following configurations:

- Creating and Settings properties for Application Pool
- Creating and Settings properties for Virtual Directory
- Default Document Settings
- Mime Type Settings

#### 1.1 Creating and Setting Properties for Application Pool

To create Application Pool in IIS, Go to Web Server. Expand the Server menu from the Connection Tree (in the left pane) and click "**Application Pools**", as shown in the below screenshot.

Connections		
🔍 - 🔚   🖄   🥵		
📲 Start Page		
🔺 🍕 AVNWARCNV07 (RSIE	XDON	4\9159)
- 👩 Application Pools		
⊿ 🧃 Sites	8	Add Application Pool
⊳ • 🎲 Default Web Si	<b>6</b> 2	Refresh

- 1. Click Add Application Pool...
- 2. Provide Application Pool name as EXTUI
- 3. Set .Net Framework Version as ".Net Framework V4.0.30319". This is mandatory to make EXTUI work with Windows 2012 server.
- 4. Set the Managed pipeline mode to "Integrated"



Once the Application Pool is created, select the "Application pool" Name and click Advanced Settings. It will open a properties window as shown in the below screenshot.

Set the properties as highlighted.

- 1. .Net Framework Version to v4.0
- 2. Enable 32-Bit Applications to False.
- 3. Ensure Managed Pipeline Mode to "Integrated".
- 4. Under the Process Model, set "Identity" to "LocalSystem".
- 5. Set 'Idle Time-out (Minutes)' to 60 (recommended value). It can be changed as required.

ſ	.NET Framework Version	v4.0	
	Enable 32-Bit Applications	False	
l	Managed Pipeline Mode	Integrated	
	Home		-
	Queue Length	1000	
	Start Automatically	True	
	Start Mode	OnDemand	
⊿	CPU		
	Limit (1/1000 of %)	0	
	Limit Action	NoAction	
	Limit Interval (minutes)	5	
	Processor Affinity Enabled	False	
	Processor Affinity Mask	4294967295	
	Processor Affinity Mask (64-bi	it c 4294967295	
⊿	Process Model		
Þ	Gananata Duana Mandal Count		
L	Identity	LocalSystem	
	Tale Time out (minaces)	20	~
Ide [id as Sei	<b>entity</b> entityType, username, passwor built-in account, i.e. Applicatio rvice, Local System, Local Servio	d] Configures the application pool to ru n Pool Identity (recommended), Networ ce, or as a specific user identity.	n k
		OK Cancel	

Load User Profile False Maximum Worker Processes 1		4 Rapid-Fail Protection					ADDIS 40001 P
Maximum Worker Processes 1		- require r and r to tex to out			TimeSpan Co	ellection Editor	7 X
		"Service Unavailable" Response	" HttpLevel	-			
Ping Enabled True		Enabled	False	Members:		01:00:00 properties:	
Ping Maximum Response Time + 90		Failure Interval (minutes)	5	0 01:00:00		STO AL I	
Ping Period (seconds) 30		Maximum Failures	5			(84C) Z • ) ==	
Shutdown Time Limit (seconds) 90		Shutdown Executable			+	⊿ TimeSpan	00
Startup Time Limit (seconds) 90		Shutdown Executable Paramete				Yaue 01.00.	
Process Orphaning		⊿ Recycling					
Enabled False	2 =	Disable Overlapped Recycle	False				
Executable	54	Disable Recycling for Configura	t False				
Executable Parameters		D Generate Recycle Event Log Ent	1.				
a Rapid-Fail Protection	191	Private Memory Limit (KB)	0				
"Service Unavailable" Response ' Httpl	Level	Regular Time Interval (minutes)	1740				
Enabled True		Request Limit	0				
Failure Interval (minutes) 5		b Specific Times	TimeSpan[] Arra				
Maximum Failures 5		Virtual Memory Limit (KB)	0	1			
Shutdown Executable	~			Add E	emove		
lame name] The application pool name is the u upplication pool.	unique identifier for the	Specific Times [schedule] A set of specific local tim application pool is recycled.	nes, in 24 hour for			OK	Cancel



6. Click on Specific Times and select the TimeSpan[] Array. In the new window that opens up, click on Add and change the value on the right side to 01:00:00 (01.00 AM). This means that the IIS worker process will be restarted at 1 AM every day. This can be changed as per the customer's requirement.

#### 1.2 Creating and Setting Properties for Virtual Directory

Follow the steps given below to create the virtual directory manually in Web Server.

- 1. Open IIS (Go to Start -> Run -> Type INETMGR and click on OK)
- 2. Explore till Default Web Site under the Server name and Right Click on the Default Web Site and Click on "Add Application...".



3. On the window that gets opened, provide the details as given and click **OK**:

Edit Application	? X						
Site name: Default Web Site Path: /							
Alias: Application pool:							
Extui EXTUI	S <u>e</u> lect						
Example: sales							
Physical path:							
E:\Program Files (x86)\VirtualWorks\IIS							
Pass-through authentication <u>C</u> onnect as Test Settings							
Enable Preload							
ОК	Cancel						

- 4. In the above image, the Physical path should be changed to the IIS folder where VirtualWorks<sup>™</sup> application is installed and the Application pool should be set to EXTUI which was defined under section 1.1
- 5. Click on EXTUI Virtual Directory and select the Default Document option on the right pane and open the same.



6. In the options that get listed, select all the existing documents and delete and then right click and click on **Add** and add the default document as **extui.aspx**.



7. Increase the value of "timeout" from 20 minutes to 60 minutes in WEB.Config file under ...\VirtualWorks\IIS folder. This setting is based on Customer's Requirement.

```
...
<customErrors mode="RemoteOnly" />
<trace enabled="false" pageOutput="false" />
<sessionState mode="InProc" cookieless="false" timeout="60" />
...
...
```

This completes the Virtual Directory creation and setting its property.

Note: On certain occasions the "VWService" Application Pool and Virtual Directory will not get created automatically by the installer. If not created automatically, repeat the Step 1.1 and 1.2 with Application Pool Name and Virtual Directory Name as "VWService". Physical path of Virtual Directory alone to be changed as mentioned below.

"VWService" should be created in App Server whereas "Extui" was created in Web Server.

Edit Application ? ×							
Site name: Default Web Site Path: /							
Alias:     Application pool:       WWService     VWService       Example: sales							
E:\Program Files (x80)\VirtualWorks\VWService							
Pass-through authentication <u>C</u> onnect as Test Settings							
Enable Preload							

...



Click on VWService virtual Directory and click on the **Advanced Settings** available on the right pane. On the window that gets opened, go to enabled protocols and append the values net.tcp, net.pipe (separated by comma).

<u>Eile View H</u> elp	_		
Connections S.• 🔚   🖄   🔗	/VWService H	Advanced Settings	
Start Page Start Page Start Page Start Page Stres Str	Filter:	General)     Application Pool     WWService     Physical Path     D:\Program Files (x86)\VirtualWorks\     Physical Path Credentials     Physical Path Credentials Logon ClearText     Preload Enabled     False     Virtual Path     /WVService     Behavior     Enabled Protocols     http.net.tcp.net.pipe	pplication Settings Cogging Cogging
	Configurat IIS Manager Editor Permissions	Virtual Path [path] URL path for the application. OK Cancel	

Make sure that the following services are running in the APP Layer:

- Net.Pipe Listener Adapter
- Net.Tcp Listener Adapter
- Ramco.VW.RT.GatewayServerHost

#### 1.3 Mime Type Settings

Ramco Aviation application is integrated with Nertronics Varchart (Gantt chart Control) Microsoft Project and also to support application launch in Ipad / Iphone. To enable these plugin's in Internet explorer, we need to add respective mime types in the IIS.

To set this, double click the Virtual Directory. In the center pane, under "IIS", double click the **Mime Types**, as shown in the below screenshot.

Connections	<b>(</b> )		20					Actions
S v 🔒 🖄 S	Filter:	tui home	• • • • • • •	Show All G	oup by: Area		-	Explore Edit Permissions
Application Pools	ASP.NET .NET Authorizati .NET Users SMTP E-mail	NET Compilation	NET Error Pages	NET Globalization Machine Key	.NET Profile Pages and Controls	.NET Roles	NET Trust Levels Session State	<ul> <li>Basic Settings</li> <li>View Virtual Directories</li> <li>Manage Application</li> <li>Browse Application</li> <li>Browse *:80 (http)</li> <li>Advanced Settings</li> <li>Help</li> <li>Online Help</li> </ul>
	II5 Authentication HTTP Respo	Compression	Default Document MIME Types	Directory Browsing Modules	404 Error Pages Uutput Caching	Handler Mappings Sequest Filtering	HTTP Redirect	

As shown in the below screenshot, in the Mime Type Window, Click "Add..." link.

Add the following Mime types one by one if not already available.

- 1. File Name Extension : ".ifd";
- 2. File Name Extension : ".ini";
- 3. File Name Extension : ".mpp";
- 4. File Name Extension : ".mpt";
- 5. File Name Extension : ".appcache";
- 6. File Name Extension : ".woff";

Mime Type:	"text/xml"
Mime Type:	"text/xml"
Mime Type:	"application/vnd.ms-project"
Mime Type:	"application/vnd.ms-project"
Mime Type:	"text/cache-manifest"
Mime Type:	"application/x-woff"



#### 1.4 Cookieless Settings

Open the WEB.Config file in WEB Server (This file can be opened in notepad application itself) available in the WEB Server under ...\Program Files\VirtualWorks\IIS folder and look for the entry:

```
<sessionState mode="InProc" cookieless="false" timeout="60" />
```

#### Change this to:

```
<sessionState mode="InProc" <u>cookieless="true"</u> timeout="60" /> Save the changes and restart IIS in the WEB Server.
```

#### 1.5 Setting permissions for User Personalization to work

Note: This setting needs to be done in WEB Server.

When the application user tries to personalize the multiline for altering the sequence of the columns or to increase/decrease size of the columns or to change the column headers, he will use the Personalization feature to do the same. While doing so, if the ...\VirtualWorks\IIS\Preferences folder does not have write privileges, then Access to the path <...> is denied error will be thrown. To avoid this, follow the settings as given below. By enabling this, there is absolutely no security breach as this setting would only enable Full Control privilege for the IIS process to write to the respective folder and not open a share that would be exposed to all the users on the network.

1. Go to Explorer and open the properties window for the folder ...\IIS\Preferences.

2. Go to Security tab and click on the Edit button.

3. Check if the user account "Everyone" is listed. If not, add the same using the Add button.



4. If the user account "Everyone" is listed, select that user account and click on Full Control check box from the bottom pane and click on Apply.

Note: On a non-Single Sign-On based environment, it is sufficient to provide these privileges only for IUSR and IWAM user accounts and not required to be set at "Everyone" user account level.

#### 1.6 ASP Session Timeout Settings

Note: This setting needs to be done in WEB Server.

Modify the ASP Session timeout option for RVW Virtual directory from 20 minutes to 1 hour.

a. To modify this setting, open IIS and click on the "RVW" virtual directory. (for EXTUI based environment, setting needs to be done for EXTUI virtual directory).

B C Rez B C rystalreportvier B C Portal B C Res Asp Authentication Authorization Rules	Compression Default Documen	Directory t Browsing	Error Pages Failed Request Tracing Rules	Handler Mappings	HTTP Redirect	HTTP IP Address Respo and Dom
Logging MIME Types Modules	Uutput Request Cachina Filterina	SSL Settings				
Display: Friendly Names						
Behavior						
Code Page	0					
Enable Buffering	True					
Enable Chunked Encoding	True					
Enable HTML Fallback	True					
Enable Parent Paths	False					
Limits Properties						
Locale ID	0					
Restart On Config Change	True					
Compilation						
Debugging Properties		_				
Script Language	VBScript					
Services						
Caching Properties						
Com Plus Properties						
Session Properties						
Enable Session State	True					
Maximum Sessions	4294967295					
wew ID On Secure Connection	True					
Time-out	01:00:00					

b. Increase the value of "Time-out" under "Session properties" section from 20 minutes to 60 minutes.



#### 1.7 Configuration DLL Generation

After the above settings, configuration dlls needs to be re-generated and needs to be deployed in GAC. Please refer the step by step document below for Configuration Dll generation.

Document Name	Document Attachment	Reference Sections
11-Configuration DLL Generation.docx	11-Configuration DLL Generation.pdf	All

- End of Document -

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