CONFIGURE WEB THIN-CLIENT MOBILE ACCESS

You can use Mobile Access (sometimes also called Studio Mobile Access or SMA) to deploy an HTML5-enhanced web interface that presents alarms, trends, process values, and even project screens in a unified, easy-to-use "dashboard".

This web interface is designed for almost any computer using a modern web browser (Google Chrome, Mozilla Firefox, Internet Explorer). And access from smartphones and tablets, such as Android and iOS devices. You can download from Play Store, **Mobile Access** from AVEVA.



a.Web Browser View

b.Mobile View

To use Mobile Access, you must have a web server running on the same computer that hosts your project runtime server, and you need to install and configure some additional software that creates the actual Mobile Access web interface and allows the web server to communicate with the project runtime server. This software is available both for Microsoft IIS and for other, CGI-enabled web servers (e.g., Apache).

The following steps describe how to set up Mobile Access locally on your system :

- 1. Enable/Turn on Internet Information Services (IIS).
- 2. Configure Internet Information Services (IIS).
- 3. Configure Project.
 - Background Tasks
 - Screen objects
 - Animations
 - VBScript

Note : Do not use unsupported features in your project. Make sure that all of the functions that you use are included in the list of supported features. For more information, see <u>List of features supported in project screens on Mobile Access</u>.

Enable Internet Information Service (IIS)

Turn on Microsoft's Internet Information Services (IIS) and configure it with the correct settings to make your project accessible to thin clients over the network.

Version	on Operating System
IIS 7.0	Windows Embedded 7 Standard
IIS 7.5	Windows 7 Windows Server 2008 R2
IIS 8.0	Windows 8 Windows Server 2012 Windows Embedded 8 Standard
IIS 8.5	Windows 8.1 Windows Server 2012 R2
IIS 10	Windows 10 Windows Server 2016

Please note that these instructions apply only to the following versions of IIS:

Note: For Windows Embedded Standard, IIS must be included in the device's operating system image by the device manufacturer. It cannot be manually installed after the fact.

You must have Administrator privileges on the computer in order to turn on and configure IIS, and you should be familiar with administering Microsoft Windows on a network.

For the sake of system security, IIS is turned off by default when the operating system is installed. To turn on and configure IIS in Windows:

- 1. Do one of the following:
 - Click the Start button, and then on the Start menu, click Control Panel; or
 - In Windows 8, swipe in from the right edge of the screen, click/tap **Search**, and then in the search box, type **Control Panel**. When Control Panel is displayed in the search results, click/tap it.
- 2. In the Control Panel window, click **Programs**, and then under **Programs and Features**, click **Turn Windows features on or off**. The Windows Features dialog box is displayed.



- In the Windows Features dialog box, select Internet Information Services. Expand Internet Information Services > World Wide Web Services > Application Development Features, and then do one of the following:
 - For **IIS 7.x**, make sure that all of the following features are selected: .NET Extensibility, ASP, ASP.NET, ISAPI Extensions, and ISAPI Filters.
 - For **IIS 8.x**, make sure that all of the following features are selected: .NET Extensibility 3.5, .NET Extensibility 4.5, ASP, ASP.NET 3.5, ASP.NET 4.5, ISAPI Extensions, and ISAPI Filters.
- 4. Expand Internet Information Services > World Wide Web Services > Common HTTP Features, and then make sure that Static Content is selected.

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Turn windows features on or off	U
To turn a feature on, select its check box. To turn a feature of check box. A filled box means that only part of the feature is	off, clear its s turned on.
🖃 🔳 Internet Information Services	
🕀 🔜 🔒 FTP Server	
🕀 🔳 🎍 Web Management Tools	
🖃 🔳 🕌 World Wide Web Services	
🖃 🔲 📙 Application Development Features	
.NET Extensibility	E
ASP	
🖾 🔐 ASP.NET	
CGI	
🔽 🍌 ISAPI Extensions	1.1
🔽 📗 ISAPI Filters	
Server-Side Includes	
🖃 🔲 🔓 Common HTTP Features	
🗹 🍌 Default Document	
Directory Browsing	
HTTP Errors	
HTTP Redirection	
🗹 🍌 Static Content	
🔲 📕 WebDAV Publishing	+
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Required features selected in IIS 7.x

5. Click **OK**. IIS is turned on with the selected features, but you might be prompted to restart Windows to apply the changes.

Please wait while Windo	ows makes changes to
eatures. This might take	e several minutes.

- 6. After you have turned on IIS, you can use Internet Information Services (IIS) Manager to configure it. To open IIS Manager:
 - a. In the Control Panel window, click **System and Security**, and then click **Administrative Tools**. The Administrative Tools window is displayed.
 - b. In the Administrative Tools window, double-click **Internet Information Services** (IIS) Manager.

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File View Help Connections	Filter: ASP.NET NET Authorizat Machine Key	AINING-F	PC Home • • • Go • • • .NET Error Pages Providers	Show All .NET Globalization Session State	Group by: Ar NET Trust Levels SMTP E-mail	ea Application Settings	• 📰 •		Actions Manage Server Restart Start Stop View Application Pools View Sites Change .NET Framework Version Help Online Help
TT	IIS ASP	Authentic	Compression	Default Document	Directory Browsing	Error Pages	Handler Mappings	•	

For more information about configuring IIS 7.x, go to: technet.microsoft.com/library/cc753433

For more information about configuring IIS 8.x, go to: technet.microsoft.com/library/hh831725

Please note that turning on IIS as a Windows feature does not mean the web server is actually running. You will need to use IIS Manager to start Default Web Site, after you have finished configuring IIS and installing any other software.

Configure IIS and Windows Folder Security

If you want to host Web Thin Clients or Secure Viewer using IIS 7, then you need to configure IIS to host your project files and modify the Windows folder-level security of your project folder to grant IIS read access to your project files.

Configure IIS

Start by configuring IIS to host your project files as outlined in the follow steps.

- 1. Open the Internet Information Services (IIS) Manager.
- 2. Expand the navigation tree in the Connections frame as shown below and click on **Default Web Site** that will host the InTouch Edge HMI project.

👣 Internet Information Services (IIS) M	anager	
G V TRAINING-PC	→ Sites → Default Web Site →	🖸 🔤 🏠 🔞 •
File View Help		
Connections	Default Web Site Home Filter: • 🖗 60 • 🕞 Show All Group by: Area • 📰 • ASP.NET • 🖗 60 • 🕞 Show All Group by: Area • 📰 • ASP.NET • 🖉 • • 🖉 • • 🖉 • Authorizat Compilation INET Fror NET NET Profile INET Roles INET Trust Levels NET Users Application Connection Machine Key Pages and Controls Providers Session State SMTP E-mail Image: Strings Image	Actions
		Configure Limits
• •	📰 Features View 💦 Content View	🕡 Help 👻
Ready		•1.

3. Click the link called **Basic Settings...** in the Actions frame. Change the field called **Physical path** to be the full Windows folder path of your project folder as shown in the example below.

lite name:	Application pool:	
Default Web Site	DefaultAppPool	Select
%SystemDrive%\inetpub\	wwwroot	
Pass-through authenticati	ion	
Pass-through authenticati Connect as Test	Settings	
Pass-through authenticati Connect as Test	Settings	

- 4. Click on the button called **OK** to close the Edit Site dialog.
- Click on **Default Web Site** in the Connections frame of the Internet Information Services (IIS) Manager. Next, click on the icon called **MIME Types**. Finally, click the link called **Open Feature** in the Actions Frame.

TRAINING-PC	Sites Default Web Site		😖 🗠 🖽 🖉
View Help ections TRAINING-PC (Training-PC) TRAINING-PC (Training-PC) Sites Sites Comparison of the site	Default Web Site Home	A	ctions Open Feature 3 Explore Edit Permissions Edit Site
>-∰ aspnet_client >-∰ ITEH81 >-∰ MA	IS ASP Authentic Compression Default Defaul		Bindings Basic Settings View Applications View Virtual Directories Annage Web Site Restart Start Start Start
	Caching Fritering Caching SSL Settings		Browse Web Site Browse *:80 (http) Advanced Settings

6. Click the link called **Add...** in the Actions frame.Change the field called **File name extension** to **.app** and the field called MIME type to **application/studio** as shown below.

File name extension:	
app	
MIME type:	
application/studio	

- 7. Click on the button called **Ok**.
- 8. Repeat for all the file name extensions required by InTouch Edge HMI : .app, .bin, .csv, .gis, .html, .ico, .ini, .lst, .scc, .scr, .sg, .stmp, .tra, and .txt

Note : 1	4IME types	might alread	y exist for	some of the	e file name.	If so, then	please use
what ha	s already b	een configure	d. Do not	change any	existing MI	ME types	

 Click on **Default Web Site** in the Connections frame of the Internet Information Services (IIS) Manager and click the link called **Restart** in the **Manage Website** frame to restart the website.

File View Help		
onnections	Default Web Site Home	Actions Open Feature
Application Pools Stes Grant Web Site Point Web Site Point Stes Stes Stes Stes Stes MA	Filter: • @ Go • Show All Group by: Area •	Explore Edit Permissions Edit Permissions Edit Site Bindings Sasic Settings View Applications View Virtual Directories Manage Web Site Start Start Start Start Start Browse Web Site Trowse * 80 (http)

Configure Windows Folder-Level Permissions

After you configure IIS to host your project files, you must modify the Windows folder-level security of your project folder to grant IIS read access as outlined in the follow steps.

1. Open **Windows File Explorer** and navigate to the parent folder of your project folder. Rightclick on your project folder and click **Properties**.

<u>Default location</u> = C:\Users\Training\Documents\InTouch Edge HMI v8.1 Projects

2. Click the tab called **Security**. Click the button called **Edit...**

Object name: C:\Users\Public	\Documents\InTou	ch Edge HMI v
Group or user names:		
& CREATOR OWNER		
SYSTEM		
SATCH		
Administrators (Training-PC)	Administrators)	
REACTIVE		
& SERVICE		
	Add	Remove
Permissions for CREATOR		
OWNER	Allow	Deny
	1000	·
Full control		THE R A
Full control Modify		1
Full control Modify Read & execute		
Full control Modify Read & execute List folder contents		
Full control Modify Read & execute List folder contents Read		

3. Click the button called **Add...**

If the contents of the field called From this location is not your computer name, then click the button called Locations and change the location to be your computer.

4. In the field called Enter the object names to select enter **IUSR** and **IIS_IUSRS** separating each by a semicolon as shown below.

elect Users or Groups		
Select this object type:		
Users, Groups, or Built-in security principals		Object Types
From this location:		
TRAINING-PC		Locations
Enter the object names to select (<u>examples</u>):		
IUSR; IIS_IUSRS		Check Names
	-	

- 5. Click on the button **Check Names**, then click **OK**.
- 6. Verify that the two built-in security principles called IUSR and IIS_IUSRS have been added to the folder permissions. Click on the button called **OK**.
- 7. Click on the button called **OK** to close the folder Properties dialog.