CitectSCADA WebClient QuickStart Guide V7.0

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Introduction

1. Architecture

The CitectSCADA Web Client allows the remote viewing and control of a live running CitectSCADA project through internet explorer. The three components required are:

- Web server (CitectSCADA web server + Microsoft IIS)
- Run time servers (IO and RAT servers)
- Web client (Internet Explorer)



Figure 1: CitectSCADA Communication Architecture

As we can see from the diagram, the WebServer acts as a Fileserver for project files, however the actual data is still received directly from the SCADA Servers, as per a normal Display Client.

In the following example, the WebServer and SCADA Servers are on the same PC, but this does not always have to be the case.

Hence, in this example only two PCs will be required:

- Server
 - Hosts the WebServer
 - o Hosts SCADA Runtime Servers
- Client
 - A 'Display Client' viewed via Internet Explorer
 - Retrieves Project files from WebServer
 - Receives Comms from SCADA Runtime Servers

CitectSCADA Web Server Microsoft IIS	ver	CitectSCADA Runtime	Deployment 1 Trends Report	
Clie Clie Internet Explorer Web Client	ent 			

Figure 2: Communication structure of example web client project

Server Side Configuration

The main benefit of Citect SCADA WebClient is that the majority of the configuration is 'Server-Side'.

In most cases the Client PC does not require any configuration, as Internet Explorer will download the required program files when the WebClient is first run.

However, in some corporate environments, some security settings are required to be modified on the client. All 'Client-Side' settings are covered in a later section.

This section deals with the 'Server-Side' configuration.

2. Software Requirements

2.1 Internet Information Services (IIS)

The Windows IIS World Wide Web service needs to be installed. Select:

- Control Panel >> Add Remove Programs
- Add/Remove Windows Components button on the left of the window.
- Select the "Internet Information Services (IIS)" item and then select the Details button.
- Select the "World Wide Service" checkbox if not already.
 - Doing so will automatically activate the "Common Files" and "Internet Information Services Snap-in" checkboxes.

Windows Components Wizard	Internet Information Services (IIS)
Windows Components You can add or remove components of Windows XP.	To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, clic Details.	Subcomponents of Internet Information Services (IIS): Image: Common Files 1.0 MB Common Files 1.0 MB Image: Common Files Image: Common Fi
□	Contraction Contractin Contractin Contractin Contractin Contractin
Description: Includes Web and FTP support, along with support for FrontPage, transactions, Active Server Pages, and database connections.	begen Holt/Administracycestercovski HAH7 DescriptionMeanloc Hit HEIgnitiseline astitut R B Conditik space required 59.8-M District Dis

- Select the **Ok** button
- Follow the prompts to install IIS, if not installed already.
- After installation is complete, open the following newly created shortcut:

Control Panel >> Administrative Tools >> Internet Information Services

🚰 Internet Information Services				_ 🗆 ×
Eile Action View Help				
	II II			
Internet Information Services	Computer	Local	Version	Stat
🗄 🗐 💭 SYD-DTEST-2G-3 (local computer	🚇 SYD-DTEST-2G-3 (local computer)	Yes	IIS V5.1	

2.2 CitectSCADA Web Server

During the CitectSCADA Web Server installation, the default destination folder is:

C:\Program Files\Citect\CitectSCADA\WebServer

This is the main folder used in the subsequent configuration steps.

After installing the Web Server a virtual directory called *Citect* is added to the default web sites of IIS. Open up the IIS Management Console, as detailed in the previous section, to confirm the *Citect* item under the list of default web sites.



Right select the Citect virtual directory and select Properties. The settings as shown below should be set. The settings circled below are particularly important.



3. User Account Setup

3.1 Create User Groups

Security on the CitectSCADA web server is handled by Windows. Three Windows User Groups must be created on the Server PC:

- 1. Web Client Administrator user is permitted to remotely view, add, update and delete deployments
- 2. Display User user can view project pages and make adjustments to writable values
- 3. Manager User user can only view the project pages

To define access privileges on the Server PC:

- Log in to Windows with Local Administrator privileges.
- Go to Control Panel >> Administrative Tools >> Computer Management Tool
- Find "Local Users and Groups" in the directory tree.
- Right select the "Groups" folder and select New Group.

💂 Computer Management			New Group	<u>? ×</u>
Eile Action ⊻iew Window E ← → 1 € 11 1 23 2	elp	X	<u>G</u> roup name:	
Computer Management (Local) System Tools System Tools Shared Folders Shared Folders Shared Folders Social Users and Groups Users Desce Manager Social Users and Alerts Device Manager Social Users and Alerts Device Manager Social Users Disk Management Services and Applications	Name Users Groups		Description: Members:	<u>Remove</u>
	,			2000

- Right select the "Groups" folder and select New Group.
- To create the 'Administrator' Group:
 - In the *Group Name* type "Web Client Administrator" and in the
 - o Description type "CitectSCADA Web Client".
 - o Select the *Create* button.
- To create the 'Display User' Group:
 - o In the Group Name type "Display User" and in the
 - o Description type CitectSCADA Web Client".
 - Select the *Create* button.
- To create the 'Manager User' Group:
 - o In the Group Name type "Manager User" and in the
 - o Description type "CitectSCADA Web Client".
 - Select the *Create* button.
- Select the **Close** button.

You will now see these three groups in the list of groups presented in the Computer Management console.



3.2 Create users

- Create example user of each category in the Computer Management console
 Control Panel >> Administrative Tools >> Computer Management
- Find the Local Users and Groups tree sub-item.



- Right-select the Users folder and select New User.
- Enter each of the following three accounts and press Create for each:

New User	?	×	New User		? ×	New User	<u>? ×</u>
<u>U</u> ser name:	webclientadmin		User name: te	estmanager		<u>U</u> ser name:	testdisplay
<u>F</u> ull name:			Eull name:			Eull name:	
Description:			Description:			Description:	
		-					
Password:	•••••		Password:	•••••		Password:	•••••
Confirm password:	•••••		Confirm password:	•••••		Confirm password:	•••••
🔲 User <u>m</u> ust cha	inge password at next logon		User <u>m</u> ust chang	ge password at next logon		User <u>m</u> ust cha	nge password at next logon
User cannot change password			User cannot change password			User cannot change password	
Password never expires			Rassword never expires			Password never expires	
🔲 Account is dis	a <u>b</u> led		🔲 Account is disa <u>b</u>	oled		🗌 Account is disa	abled
		-					
	Create Close			Create	Close		Cr <u>e</u> ate Cl <u>o</u> se

- Set the password for all three accounts to be something easy to remember, for e.g. Citect.
- When done press Close.
- For each user right select and select **Properties**.
- Select the **Member Of** tab and press **Add**.

webclient	admin Prop	oerties			<u>? ×</u>
General	Member Of	Profile			
<u>M</u> embe	r of:				
S Us	ers				
	d]	Bemove			
			ок	Cancel	pply

- Make sure the **From this location** field displays the workstation name. Enter the group for each user in the bottom field and press **Ok**. ٠
- ٠

Select Groups	<u>? ×</u>	Select Groups	<u>? ×</u>
Select this object type:		Select this object type:	
Groups	Object Types	Groups	Object Types
From this location:		Erom this location:	(
SYD-DTEST-2G-3	Locations	JSYD-DTEST-2G-3	Locations
Enter the object names to select (<u>examples</u>):		Enter the object names to select (examples):	
Web Client Administrator	Check Names	Display User	Check Names
<u>A</u> dvanced	OK Cancel	Advanced	Cancel
	14		11.
	Select Groups	<u>? ×</u>	
	Select this object type:		
	Groups	Dbject Types	
	Erom this location: SYD-DTEST-2G-3	Locations	
	Finter the object names to select (examples)	· · · · · · · · · · · · · · · · · · ·	
	Manager User		
	Advanced		

• Once done for each, the group will be in the Member of list for the specific use.

3.3 Set up security of the web server

- You need to adjust the security settings for the Web Server folder defined in Section 2.2.
- Locate and right-select the Web Server folder, located in the installation directory.
 By default this will be C:\Program Files\Citect\CitectSCADA\WebServer.
- Select **Properties**.
- From the Properties dialog select the Security tab.

WebServer Properties	<u>? ×</u>			
General Sharing Security We	b Sharing Customize			
<u>G</u> roup or user names:				
🚮 Administrators (SYD-DTEST	-2G-3\Administrators)			
🗊 Everyone				
	Add Bemove			
Permissions for Everyone	Allow Deny			
Full Control				
Modify				
Read & Execute				
List Folder Contents				
Write				
1 ******				
For special permissions or for advanced settings, Advanced				
click Advanced.				
OK	Cancel Apply			

 If you do not see the Security tab, make sure you are logged into Windows with a user that has Administrator privileges. If you are and still cannot see the Security tab, you will need to turn off Simple File Sharing. This option is only available in Windows XP. In Windows Explorer select the Tools >> Folder Options... menu item, then on the View Tab there is a checkbox within the Advanced Settings. The following screenshot shows this.

Folder Option	is ?X
General Vi	ew File Types Offline Files
Folder vi	ews You can apply the view (such as Details or Tiles) that you are using for this folder to all folders. Apply to All Folders <u>B</u> eset All Folders
Advanced	settings:
IS Station	Anori Inderguerdows in a senatate concess. (1) Reasoning pathewine Refronteen With these (2) Show both paths and menoger there are a similar file (3) Show both paths and menoger there are a similar file (3) Show both paths and menoger serving file file (4) Risener over store store was settings (1) Risener over store file windows at logur (1) Risener over store file windows at logur (1) Show control Panel In My Computer (3) Show encrypter or compressed NTTS files in color (4) Show pop-up description for folder and desktop item (4) Show pop-up description for folder and desktop item (5) Show pop-up descr
Anna	

 Go back to the Security tab in the Webserver folder properties window. Select the Add button and the following dialog appears:

Select Users, Computers, or Groups	<u>? ×</u>
<u></u>	
Users, Groups, or Built-in security principals	Object Types
Erom this location:	
citect.com	Locations
Enter the object names to select (<u>examples</u>):	
	<u>C</u> heck Names
	1 and

- Note: The Select Users or Groups dialog appears differently in Windows 2000 to the Windows XP version pictured above. In Windows 2000, you can simply select a user or group from the list of those available and select Add.
- Locate the user groups you created on the local machine. If your computer is on a network domain the "From this location" field will contain this. You need to change the location to be the local machine. Select the **Locations** button.

Locations	?	×
Select the location you want to search.		
Location:		
Entire Directory	-	
E g citect.com		
En engel dir engel AP		
		-
	OK Cancel	1
		-//

• Select the item containing your workstation name (it will have a PC icon next to it) and press Ok.



 In the "Enter the object names to select" field enter Web Client Administrator and press Ok. The Web Client Administrator group will be added to the group list in the Web Server >> Security properties window.

WebServer Proper	ties		<u>? ×</u>
General Sharing	Security y	/eb Sharing Custom s - c :- Rose (BYORD) ASB 2362 s R Administrator, (5570-0	za 32% dhimistrators)* 1125 C23 35Web 15
(Widu Olicant:	Addite	Beamone Beamy) Pramissions for Administrator Full Control
	11		Modify
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antents	- Pali		List aloci t
	[] []		Wile
niššionstoi 16r adVance I:	8 Settifiqs>"	Adigence87	Pórspeciál þer eliek Advance
0K -	Cancel	And	

• Repeat this for both Display User and Manager User.

WebServer Properties		? ×								
General Sharing Security Web	Sharing Custor	nize								
Group or user names:										
Administrators (SYD-DTEST-2	Administrators (SYD-DTEST-2G-3\Administrators)									
Display User (SYD-DTEST-20	i-3\Display User									
Manager User (SYD-DTEST-	2G-3\Manager U	ser)								
🕵 Web Client Administrator (SYE	D-DTEST-2G-3\\	√eb Client Ad								
, 	Add	<u>R</u> emove								
Permissions for Manager User	Allow	Deny								
Full Control										
Full Control Modify										
Full Control Modify Read & Execute List Folder Contents	000									
Full Control Modify Read & Execute List Folder Contents Read										
Full Control Modify Read & Execute List Folder Contents Read Write										
Full Control Modity Read & Execute List Folder Contents Read Write For special permissions or for advar click Advanced.	□ ☑ ☑ □ □	Advanced								

Confirm the security settings for the three newly created groups. Each should have the same read access as the Everyone group, which is allow Read & Execute, List Folder Contents, and Read permissions. Press the Advanced button and select Replace permission entries on all child objects..., [Note: Windows 2000 will have the option Reset permissions on all child objects and enable propagation...].

٨d	Advanced Security Settings for WebServer												
P	Permissions Auditing Owner Effective Permissions												
	To view m	nore information about Spec	cial permissions, selec	ct a permission entry	, and then click	Edit.							
	Dennissien	t											
	Permission entries:												
	Туре	Name	Permission	Inherited From	Apply To								
	Allow	Administrators (SYD	Full Control	<not inherited=""></not>	This folder, s	ubfolders							
	Allow	Display User (SYD-D	Read & Execute	<not inherited=""></not>	This folder, s	ubfolders							
	Allow	Everyone	Read & Execute	<not inherited=""></not>	This folder, s	ubfolders							
	Allow	Manager User (SYD	Read & Execute	<not inherited=""></not>	This folder, s	ubfolders							
	Allow	Web Ulient Administra	Head & Execute	<not inherited=""></not>	I his folder, s	ubtolders							
		. (r.a.	Deneur	1									
	Age												
	Linherit from parent the permission entries that apply to child objects. Include these with entries explicitly defined here.												
	Replace permission actives on all shild abiasts with antrias shown hare that apply to shild abiasts												
	it a lebio	oo pormission churcs on al	erind objects with eri		a apply to child	oploorg							
				ОК	Cancel	Apply							

• Once selected, press Ok. A security dialog will appear, press Yes.

Security	
⚠	This will remove explicitly defined permissions on all child objects and enable propagation of inheritable permissions to those child objects. Only inheritable permissions propagated from WebServer will take effect.
	Do you wish to continue?

3.4 Set up security for web deployment

• We need to set up user group specific access rights. Locate the Deploy subdirectory in the Web Server folder and set **Allow Full Control** for the Web Client Administrator.



• Locate the deploy\#displayClient subdirectory and set Deny Full Control for the Manager User



A security prompt will appear, press Yes.

•

Security	×
<u>.</u>	You are setting a deny permissions entry. Deny entries take precedence over allow entries. This means that if a user is a member of two groups, one that is allowed a permission and another that is denied the same permission, the user is denied that permission. Do you want to continue?
	<u>Yes</u> <u>N</u> o

4. Prepare Scada Project for Deployment



- If the content of the project incorporates any user created files, such as DBF, HTML or CSV files, you will need to manually place these into a special zip file called **Misc.zip** and store inside the *Citect\User\<Project Name>* directory.
- Similarly, if a project contains any ActiveX objects, these will also need to be included in a zip file called **ActiveX.zip**. The example project comes with this already done.
- The example project already comes compiled with CitectSCADA v6, so there is no need to compile the project unless you have made changes to it. Otherwise, if you are using a different project a fresh compile is required before the next step.

Next run Tools >> Web Deployment Preparation [or the Deployment Preparation [or the Preparation] in Citect Explorer.

Web deployment preparation	×	Citect Explorer	
Copying file faceplat.ctm		Successfully create	ed deploymen
(<u>Abort</u>)		OK	

- A progress bar and completion message will appear, as shown above.
- Confirm that a webdeploy folder exists in the Example project folder of CitectSCADA\User.

Once this is complete, run the example project in Citect.

•	😼 My Computer
	🗉 🦺 31⁄2 Floppy (A:)
	🖃 🧼 Local Disk (C:)
	🖃 🚞 Program Files
	🖃 🚞 Citect
	🗉 🚞 CitectSCADA
	🖽 🛅 Bin
	🛅 СІТЕСТКВ
	표 🚞 Data
	🚞 Driver Config
	🖃 🧰 User
	🖂 🚞 Example
	🚞 Analyst Views
	🖃 🧰 webdeploy
	🛅 example
	🚞 include
	🚞 system
	🗓 activex.zip
	🗓 Misc.zip

Client Side Configuration

Internet Explorer 6.0 or later is required to use the Web Client.

5. Create Scada Project Deployment

- Open up Internet Explorer and enter this url: <u>http://<server>/Citect</u>.
- <server> is either the: server PC name, server PC IP address, or *localhost* if the web client is running on the server PC.
- A login screen will appear, for each user created, enter the login details. The screen that is supposed to appear is shown below.

Username: webclientadmin Password: citect

CitectSCADAWeb Deployments Overview - Microsoft Internet Explorer	
Die Euk gewindes jouis Deip	
	System Messages >>>>
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anterene anterene anterene anteren arteren arteren arteren arteren arteren arteren arteren arteren arteren arte	
Deployment Description	Action 📂 🕐
5	Star (1997)
Isername: testdisplay Password: citect	
CitectSCADAWeb Deployments Overview - Microsoft Internet Explorer	
Search X Favorites S Media	
Address 🙋 http://localhost/Citect	<u>▼</u> € 60
	System Wessages 2
CitectSCADA Web Client Deployment	DC Display cheft testuisplay logged in.
Deployment Description	Action 🕐
Jsername: <i>testmanager</i> Password: <i>citect</i>	
-	

If you do not get these windows for each user, the setting up of user access rights from Section 3.3 has not been done correctly.

|< <<

LOGINMC

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-88

System Messages

Manager Client testmanager logged in.

💌 🔁 Go

>|

>>

Action

Start Mana

🕜 Back 🔻 🕥 🖌 😰 🟠 🔎 Search 👷 Favorites 🔮 Media 🧭 🍰 🍡

Description

Address 🙆 http://localhost/Citect

Deployment

CitectSCADA

CitectSCADA Web Client Deployment

To create the project deployment, login as the webclientadmin user. Then select the Add New



In the Deployment field enter the name to identify the deployment, in this case "TestExample". Enter the project path of the Example project on the CitectSCADA server PC, and select the Client control from the list [there should be one available].

CitectSCADAWeb Dep	loyment Configuratio	n - Microsoft	Internet Explorer			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vor	rites <u>T</u> ools <u>H</u> elp					
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Address 🥘 http://localhos	st/Citect/addeditdeploy.h	tm?⟨=en-u	s			💌 🄁 Go
CitectSCADA	ADA Web Client [)eploym	ent	< <<	System Messages	>> >
Deployment			Descriptio	on		Action 🕜
TestExample						😥 🐔
Server	IP Address	Port	📂 File Paths	;		
			🗈 🥑 Project Path:	C:\Progr	am Files\Citect\CitectSCADA	v6\User\Test 📃
			Client Control	700/Citert		1

Select the **Apply Changes** button 2. A progress bar will be displayed as the project deployment files are copied from the User\Example\webdeploy folder to the WebServer\deploy\Test Example.

🖉 CitectSCADA	Web Deployment Progress Web Page Dialog 🛛 🔀
0%	
DEPWAIT	Copying Deployment TestE, please wait

Note: When a project is deployed the project path and client control settings are first taken from the citect.ini file. If they cannot be found they are taken from the settings entered at this stage.

Select the Go to Deployment List button

Before pressing the Start Display Client or Start Manager Client,



If it is the first time you start the client, the required software is automatically downloaded and will prompt the user to install. When the windows security dialog appears click on **Yes**.

6. Connecting

You can display the list of connected clients on the Citect server at any time. Type "page table tran" in the main window of the kernel. The following window will appear:

👌 Citect Kernel								_ []	×
Options <u>V</u> iew <u>T</u> ools <u>W</u> indow <u>H</u> elp									
Main				_ [0]	X				
	- Altradition		1		_	1			
, , , , , , , , , , , , , , , , , , ,	s 🖉 refue:			1					
	Control et al control de la					-			
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	COCHARCE COL	CLUSGIND CHICKIN DRIVER DOLLAR	0000000	- COMUDICO - C			2001	2040	
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- Ü L	Roborg	<1.iston>	Socor	Romoto	ιt	1)	0		
6	6								
().								

The following is a screenshot of the kernel table window after a web client located on another machine connects to this server.

2	Citect Kernel											
0	tions <u>V</u> iew <u>T</u> ools <u>V</u>	<u>M</u> indow <u>H</u> elp										
	Main											
I	r 🐧 Table											
I I S C T I I	r Table Tran r Handle 27 r Name t IOSrvrCha r IOSrvrCha r IOSrvrCha	Length 64 Offs Node <listen> <listen> CTSVD-DTEST-2G-3 CTSVD-DTEST 2G-3</listen></listen>	et 0. 0 Mode Mode Server Remo Server Remo Client Loca	e hMsg ote O ote 1 al 3	Cnt 0 1 0	Send 0 19200 3616	Rec 1 61728 3575	Wait 0 (0 : 0 (Stack 0 1 0			
C	IOSrvrCha F Trend	CISYD-DIESI-2G-3	Server Loca Server Rema	al 2 ste 2	0	3572	3618		U N			
I A S I	Trend Trend Trend Trend Trend		Server Rem Client Loca Server Loca Server Loca	ote 2 ote 3 al 7 al 6	1 0 0	9 2 2	16 5 4		0 1 0 0			
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		an a								J		
										Ad	ded lines	

8. Checklist

IIS installed and running
Citect virtual directory created
CitectSCADA configured as networked (TCP/IP) in the Computer Setup Wizard
Web/Internet Display Client or Web/Internet Manager Client licenses available on server
Web deployment after citect.ini has been modified
Windows security on folder \WebServer and \WebServer\deploy\#displayclient
CitectSCADA server is running and must be the IO server
Firewall / Port Settings

9. FAQ

• How do I set up my network so that both LAN and WAN PC's can access my CitectSCADA and CitectWeb Servers?

Please refer to the Document "Running both LAN and WAN Citect Web Clients".

• Where are the downloaded project files located on the Web Client?

The project files are downloaded to the location specified by the following Windows Environment Variable:

%TMP%\ Citect\<Project Name>

By default, on XP, %TMP% is equal to:

Document and Local Settings \ <Current user logon> \ Local Settings \ Temp

So by default, the project files are saved to:

Document and Local Settings \ <Current user logon> \ Local Settings \ Temp \ Citect \ <Project Name>

Troubleshooting

The following trouble shooting issues are taken from the FAQ section (page 33 and onwards) of the Web Client user manual. This document contains only a subset of this but also include screenshots.

10. Internet Explorer and WinXP Security

If the security settings are high within Internet Explorer on the client side PC you will need to add http://<webserver>/CitectSCADA as a trusted web site. Open Internet Explorer then select the *Tools* >> *Internet Options* menu item. Select the **Security** tab.



- Click on the **Sites...** button.
 - Enter the http://<webserver>/CitectSCADA address
 - Deselect the "Require server verification" checkbox.
 - Select the Add button.

Trusted sites	Trusted sites
You can add and remove Web sites from this zone. All Web sites in this zone will use the zone's security settings.	You can add and remove Web sites from this zone. All Web sites in this zone will use the zone's security settings.
Add this Web site to the zone: http://192.168.0.253/Citect	Add this Web site to the zone:
Web sites:	Web sites: http://192.168.0.253/Citect
Require gerver verification (https:) for all sites in this zone	Require server verification (https:) for all sites in this zone
OK Cancel	OK Cancel

Press Ok button.

Knowledgebase article Q3943 discusses the implication of Windows XP service pack 2 in terms of network security. Of particular importance are the firewall settings.

11. IIS

11.1 IIS v6.0 issues

The following note applies if you are running IIS v6.x (included with Windows 2003 Server). If you start the Web Client and get the message "Starting Citect Web Client failed: Can not initialise Citect system", and then the Web Client fails it is due to a MIME configuration problem. The initialisation files are not being recognised in Windows 2003 as registered file extensions. To correct this, you must add the correct MIME extension by doing the following:

- Run the IIS manager (Control Panel >> Administrative Tools >> Internet Information Services)
- Go to Web Sites | Default Web Site | CitectSCADA | deploy | <deployed directory>

Services		
File Action View Help		
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- Choose properties from the folder's right-click menu
- Go to HTTP Headers | Mime Map and press the File Types button



• On the File Types form press the **New Type** button.

File Types	×
Registered file types:	
	<u>N</u> ew Type
	<u>R</u> emove
	<u>E</u> dit
File type details	
Extension:	
Content Type (MIME):	
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• Add the MIME type (File extension) .* and enter the Content type (MIME) as *application/octect-stream*.

File Type		×
<u>A</u> ssociated extension: <u>C</u> ontent type (MIME):	.* application/octet-stream	
	OK Cancel	

• Select Ok



• Select Ok and restart your web server and client.

11.3 ASP.NET

The following is a Windows 2003 Server related issue. The Web Client deployment page may display incorrectly and the icons for Start Display Client, Delete Deployment and Edit Deployment are also missing. There are two problems that could be occurring here:

- On Windows 2003 Server, the default setting is to have all web locations except localhost as an untrusted site.
 - a. Update the Trusted Sites settings as detailed in Chapter 9
- Enable ASP for IIS6 on Windows 2003 Server. Follow these steps:
 - a. Choose Control Panel >> Add Remove Programs >> Components
 - b. In the Windows Components Wizard dialog box, select Application Server and select **Details**.

Windows	s Components Wizard	×	
Winc Y	lows Components 'ou can add or remove components	of Windows.	
T	o add or remove a component, click art of the component will be installed Details.	the checkbox. A shaded box means that only To see what's included in a component, click	
C	Components: Applicat	ion Server	×
рак sils.	Centro a pipe Service 30 Centro at Services Centro at Services Centro at Services Centro at Services Cesciption: Includes ASF Applications Total disk space required: Space available on disk:	a or remove a component, CiteX me Check pox A i Madeb ra of the component of Application Server:	• • • • • • • • • • • • • • • • • • •
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- Make sure that ASP.NET is selected.
- Also, open Control Panel >> Administrator Services >> Internet Information Services (IIS) Manager
- On the local machine traverse to **Web Sites** | **Web Service Extensions** and make sure that *All Unknown ISAPI Extensions, Active Server Pages* and *ASP.NET v1.1.4322* items have the status of Allowed.

Internet Information Services (IIS) Manager		- 🗆 ×
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Thernet Thormation Services Thernet Thormation Services Application Pools Application Pools ChectINApplic. ChectISCADA ChectISCA	Web Service Extension All Unknown ISAPI Extensions All Unknown CGI Extensions Active Server Pagas Astrone Tv 11.14322 Internet Data Connector Server Side Includes WebDAV	Status Allowed Prohibited Allowed Prohibited Prohibited

11.4 CAB File Download and Installation

After configuring the Citect web server as per Web Client quick start guide, during project deployment, errors are experienced downloading cab file. The address of the webserver as a trust site however the problem still persists. The Server and Clients both use Internet explorer 6 and all Internet Explorer security levels have been set to the lowest level. Windows firewall is also disabled. What can be the problem?

Solution:

Usually when this occurs, Citect is looking for Microsoft Installer that has been corrupted due to previous Windows update. In order to remedy this problem you can get the latest update from Microsoft.

The problem of corrupted Microsoft Installer can be verified further by using CitectSCADA ver6.1. In CitectSCADA v6.1, you can install this CAB file manually to the client machine by double clicking the CAB file. If when installing the CAB file, Windows Installer error 1723 appears, you would then need to install the latest Microsoft Installer (iiscript.msi).

This installer can be downloaded from the Microsoft website or can be obtained from your IT staff.

Knowledge base articles:

Q3943 Implications for Citect and Microsoft Windows XP Service Pack 2 Q3010 Setting up a combined FTP Server/Proxi Server for a WAN Q2751 What TCP/IP ports are used for the IDC client? Q3742 Citect Internet Display Clients over a Firewall Q3912 How can I use a Proxy I/O server in CitectHMI/SCADA?

User manuals:

CitectSCADA Web Client User Guide CitectSCADA User Guide