

IP Office Technical Tip

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Region: GLOBAL

Avaya IP Office Compact Contact Center (CCC) Security Modifications Post Windows 2003 SP1

Overview

In Microsoft Windows Server 2003 Service Pack 1, Microsoft is introducing a set of security technologies that will help to improve the ability of computers running Windows Server 2003 to withstand malicious attacks from viruses and worms. Changes have been made to DCOM, Windows security policy and various integrated components. Microsoft has also introduced a new tool to help manage server security policy called the Security Configuration Wizard (SCW).

Microsoft has posted a white paper that reviews 2003 Server SP1 functionality changes:

http://www.microsoft.com/downloads/details.aspx?FamilyId=C3C26254-8CE3-46E2-B1B6-3659B92B2CDE&displaylang=en

The security policy enforced by SP1 requires modifications in order for the IP Office Compact Contact Center (CCC) suite of client/server applications to work properly and maintain functionality. This document will cover the post Windows Server 2003 Service Pack 1 modifications needed for IP Office CCC.

After SP1 install – install SCW

Once SP1 has been installed, it is necessary to run the security configuration wizard:

Start / Settings / Control Panel / Add/Remove Programs / Add/Remove Windows Components

Scroll down and select Security Configuration Wizard - then select 'Next':

ndows Components Wizard		
Windows Components	moopents of Windows	
Tou can add or leniove co	inponents of windows.	
To add or remove a compo part of the component will b Details.	nent, click the checkbox. A s be installed. To see what's inc	shaded box means that only cluded in a component, click
Components:		
Conter Network File	and Print Services	0.0 MB
Remote Installation	Services	2.U MB
Equip Configurat Terminal Server	on wizaro	
Terminal Server Lic	ensina	
Description: Provides quid	ed attack surface reduction fr	or Windows Servers
Description. Thomaes guid		
Total disk space required:	3.9 MB	<u>D</u> etails
Space available on disk:	67775.UMB	
	Z Rock Nouto	
_		Cancel Help

Click 'Finish' when complete.

Initialize Firewall

Once the Security Configuration Wizard has run, Windows Firewall needs to be started:

Start / Settings / Network Connections / Local Area Connection / Properties / Advanced Tab / Settings for Windows Firewall

The following confirmation prompt is displayed:



Select 'Yes' to turn the Firewall on:



Once the Firewall is running, run the Security Configuration Wizard as follows:

Start / Run / Scw Or, Start / Settings / Control Panel / Administrative Tools / Security Configuration Wizard:



Select 'Next', then 'Next' again to create a new security policy

ntiguration Action	1				la de
last applied servicity	y policy.	uit or apply all ex	isong securicy po	acy; or roa	
Select the action yo	ou want to perform:				
🖲 🔄 reate a new s	ecurity policy				
C Edit an existing	security policy				
C Apply an existin	ng security policy				
C Rollback the las	t applied security po	licy			
Existing security po	ilicy file;				
					Br <u>o</u> wse
,					
Learn more about g	configuration actions				

Confirm that the hostname is that of the PC being configured, then select 'Next':

Security Configuration Wizard	x
Select Server The configuration of the server you select will be used as a baseline for this security	pulicy.
Select a server to use as a baseline for this security policy. You can apply this policy server or to any other server with a similar configuration.	to the selected
Server (use DNS name, NetBIOS name, or IP address):	
T4TESTSERVER01	Browse
 You must have administrator privileges on the selected local server. If your cur dues nut have administrator privileges on the selected local server, dick Cancel wizard using Run As, and specify another account. The IIS 6.0 common files are required on the local machine when remotely scan server. 	rent user account , rerun Une ning an IIS 6.0
Learn more about <u>selecting and configuring groups of servers</u> .	
< Back Mext	> Cancel

Database configuration will then process – select 'Next' when complete. At Role Based Configuration – select 'Next'.

Select Server Roles

NOTE – Important items to leave checked for CCC are:

- Application Sever (IIS to be pre-installed)
- ASP.Net Session state server (if missing cancel out and add asp.net found under Settings / Control Panel / Add/Remove Programs / Add/Remove Windows Components / Application Server / details)
- Middle Tier Application Server

- SQLServer2000 which also covers MSDE
- Web Server

Confirm that the installed features are correct – otherwise accept defaults, select 'Next' to configure:

Security Configu Select Client Servers al support m	iration Wizard : Features Su att as tlients. These client features are used to enable services. A server can ultiple client features.	×
View: Insta	alled features	
Select the clien	nt features that the selected server performs:	
Auton DHCP DS of DNS of	natic update client client lient eqistration client in member lient (normal mode) > Policy administrative client soft networking client	<u> </u>
I D SOL d	te access client lient	
□ ▷ webD	VAV client	-
Learn more ab	out <u>client features</u> .	
	< <u>B</u> ack <u>N</u> ext >	Cancel

Installed Options – leave default, select 'Next' to continue.

Security (Select	onfiguration Wizard Administration and Other Options ese administration and other options are used to enable services and open ports.	×
View:	Installed options	
<u>S</u> elect	he options used to administrate the selected server:	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SQL Server TCP/IP Sockets network library Task scheduler Terminal Server dustering Terminal Server printer redirection Time synchronization UPS Web proxy auto-discovery	1
0 0 0 0 0 0	Windows firewall Windows image acquisition Windows I ker Mode Driver Framework Wireless Networking and 802.1X Authentication	•
Learn r	nore about <u>administration options</u> . 	Cancel

Additional Services

NOTE – Key components for CCC are:

- CCC Delta Server
- CCC Reporting
- Key Server

Confirm that all the IP Office services are ticked, then select 'Next' to continue:

Security Configuration Wizard
Select Additional Services There are services installed on the selected server that were found while processing the security configuration database.
Select the additional services that the selected server requires: Image: CCC Delta Server Image: P b CCC Reporting Image: P b CCC Reporting Image: P b CCC Reporting Image: P b Mediate Debug Manager Image: P b McAfee Pramework Service Image: P b Network Associates Task Manager Image: P b Office Source Engine Image: P b Upload Manager
Learn more about <u>additional services</u> .
< <u>B</u> ack <u>N</u> ext > Cancel

Unspecified Services – select 'Do not change...' then select 'Next' to continue:

Security Configuration Wizard
Handling Unspecified Services Unspecified services are services that are not installed on the selected server and not listed in the serurity configuration database.
This security policy might be applied to servers with services not specified by the policy. When an unspecified service is found, perform the following action:
Do not change the startup mode of the service;
C Disable the service
Learn more about <u>unspecified services</u> .
< <u>B</u> ack <u>N</u> ext > Cancel

Review the changed Services and confirm that any changes have been applied:

his security policy would	use the following servi	ce configuration:
Current Startun Mode	Policy Startup Mode	Lised By
Mariual	Disabled	Internet Connection SI
Manual	Disabled	Application installation I
Manual	Automatic	SMS Management Point
Automatic	Disabled	SMS Logon Point, Brow
Manual	Disabled	DF5 server. Domain cor
Manual	Disabled	Domain controller (Activ
Automatic	Disabled	IPsec Services
Manual	Disabled	SOL Server Active Dire
Manual	Disabled	Domain controller (Activ
		•
	S seculity poury rooted Current Startup Mode Manual Manual Automatic Manual Antromatic Manual Manual Manual	Security bolty would be the following set in Current Startup Mode Policy Startup Mode Manual Disabled Manual Automatic Automatic Disabled Manual Disabled Manual Disabled Manual Disabled Manual Disabled Manual Disabled

At the Network Security dialog, select 'Next' to continue.

At the Open Ports and Approve Applications dialog, note the CCC items when scrolling through list, and confirm that they have been selected.

NOTE – Optional Step - ADD PC Wallboard Server application at this time. Otherwise you will have the option of setting a program exclusion for Windows Firewall when the Wallboard Server is first started.

To add – Click "Add" / Approve Application / Browse for PC Wallboard Server (default location is: C:\Program Files\AVAYA\IP Office\CCC\WBServer\wbserver32.exe)

You will see Ports used by wbserver.exe added to the approved application list

Ports used by wbserver32

Confirm that all CCC and IP Office applications have an entry in the Port Confirmation dialog, then select 'Next' to continue.

Security Configuration Wizard
Open Ports and Approve Applications The inducend ports listed below are used by the roles and administration options that you selected. Selected ports are opened, unselected ports are blocked.
View: All ports
Select the ports to open:
Image: Provide the second state Image: Provide the second state
Edit Edit Remove Learn more about opening ports and approving applications. < Back

Accept the defaults for the Registry Settings dialog, then select 'Next' to continue.

Accept the defaults for the Require SMB Security Signatures dialog, then select 'Next' to continue:

Req	infection with a second secon
1	The selected server has the following attributes:
J	✓ ¿all computers that connect to it satisfy the following minimum operating system requirements:
	 Windows NT 4.0 Service Pack 6a or later
	 Windows 95 with the Directory Services Client Pack installed
	Windows 98 or Windows Millennium Edition
	Windows CE .NET 4.2 (for example Windows Mobile 2003 Second Edition) or later
J	$oldsymbol{ abla}$ It has gurplus processor capacity that can be used to sign hile and print traffic
	This option digitally signs all file and print traffic. This signing is processor intensive, so it is recommended only if the server does not normally exceed 70% processor utilization.
1 F	These settings affect the RequireSecuritySignature value in HKLM\System\CurrentControlSet\Services\LanManServer\Parameters.
I	earn more about <u>SMB security signatures</u> .
	- Rade Manaka Concel

At the Outbound Authentication Methods dialog, select the options required for the system depending upon the Operating systems in use on the system, and whether or not remote access is required. Select 'Next' to continue.



Verify that the settings chosen at the settings summary are correct, then select 'Next' to continue.

At the System Audit Policy screen, the options can be set as desired or leave default. Select 'Next' to continue.

curity	Configuration Wizard
Syste De	m Audit Policy stermine an audit pulicy based on your auditing objectives.
Se	lect your auditing objective:
C	Do not audit
	This option does not perform any auditing.
G	Audit successful activities
	This option audits successful changes to system and configuration files, allowing you to reconstruct events after the fact to determine who changed system or configuration files. It will degrade system performance slightly.
C	Audit successful and unsuccessful activities
	This option audits both successful changes and failed attempts to system and configuration files, allowing you to determine who changed system or configuration files, as well as detect attempts to make unauthorized changes. It will degrade system performance more than auditing just successful activities.
Le	arn more about <u>auditing policy</u> .
	< <u>B</u> ack <u>N</u> ext > Cancel

Verify summary then select 'Next' to continue.

At the Internet Information Services screen, select 'Next' to continue.

Select Active Server pages and ASP.Net then select 'Next' to continue:

Security Configuration Wizard
Select Web Service Extensions for Dynamic Content By default, IIS serves only static content. To serve dynamic content, you must enable the Web service extensions that your content requires.
Select the Web service extensions that the selected server requires:
C Active Server Pages
☑ [) ASP.NET v1.1.4322
🔲 🖟 Internet Data Connector
🔲 🖟 Server Side Includes
WebDA)Select if one or more of the Web sites or applications on your Web server uses server-side includ- directives to instruct the Web server to insert various types of content into a Web page. Click the triangle to show more information.
<u>Prohibit all other Web service extensions on tlisted above</u>
Learn more about <u>Web service extensions</u> .
< <u>Back</u> <u>N</u> ext > Cancel

Confirm the defaults at the Virtual Directories to retain screen by selecting 'Next' to continue:

Security Configuration Wizard	X
Select the Virtual Directories to Retain The following legacy virtual directories p unnearled.	use a putential security risk and should be removed if
Select the virtual directories to retain on the	selected server:
IISHolp IISGamples IISGamples IISG	This virtual directory contains help files with sample Web pages and a
Scripts	Thes should not be present on a production Web server. If you want Web server that is used for testing purposes only. Click the triangle to show more information.
Learn more about <u>retaining virtual directories</u>	2
	< <u>B</u> ack <u>N</u> ext > Cancel

Prevent Anonymous Users from Accessing Content Files - Check to DENY anonymous access, then select 'Next' to continue:

Security Configuration Wizard
Prevent Anonymous Users from Accessing Content Files Increase the security of your Web site content by setting additional restrictions for anonymous risers.
You can improve the security of your Web site content by preventing anonymous users. In addition to preventing access via IIS authentication settings, you can deny write access to anonymous users with file system access control lists (ACLs).
\checkmark Deny anonymous users write access to content files $\langle \hat{\Lambda} \rangle$ This setting is effective only when IIS is using an NTFS file system volume.
Learn more about preventing file access by anonymous users.
< <u>B</u> ack <u>N</u> ext > Cancel

Review the IIS settings summary page, then select 'Next' to continue.

At the Save Security Policy dialog, provide a filename and location – for example cccpolicy, then select 'Next' to continue:

Security policy file par	ne (a '.xml' file e	extension will be anne	nded if not prov	vided):	
C:\WINDOWS\socuri	ty\msscw\Polici	cs\cccpolicy	labor not pro-		Drowse
, Description (optional):				_	
J					· · ·
View Security I	Policy	Include Security T	emplates		

Select 'Apply Now' then 'Next' to confirm:

Security Configuration Wizard	x
Apply Security Policy You can apply the security pulicy to the selected server now or later.	Ð
C Apply later Run this wizard again to apply this security policy at a later time.	
Apply now When you click Next, the wizard applies this security policy to the selected server.	
Learn more about applying security policies.	
< <u>B</u> ack <u>N</u> ext >	Cancel

Security Configuration Wizard X Open Ports and Approve Applications The induced ports listed below are used by the rules and administration options that you selected. Selected ports are opened, unselected ports are blocked.
View: All ports
Image: Construct on the second sec
< <u>B</u> ack <u>N</u> ext > Cancel

The Security Configuration Wizard will then process and apply the configuration.



On completion of the Security Configuration Wizard, select 'Finish', then reboot the server for the changes to fully take effect.

Enable CCC Reporting website "pop-up"

CCC Reporter is seen as an Application pop-up in Internet Explorer so has to added to the exclude list under the Internet Explorer Privacy settings

Select Tools / Internet options / Privacy / Pop-up Blocker section / Settings

Then enter http://<server hostname>/Reporting and add to "allowed sites".

Internet Options
General Security Privacy Content Connections Programs Advanced
Settings Move the slider to select a privacy setting for the Internet zone.
Hedium Blocks third-party cookies that do not have a compact privacy policy Blocks third-party cookies that use personally identifiable information without your implicit consent Pestic first-party cookies that use personally identifiable information without implicit consent
Sites Import Advanced
Prevent most pop-up windows from appearing.
OK Cancel Apply

Exceptions Pop-ups are currently blocked. You can allow pop-u Web sites by adding the site to the list below.	ps from specific
Address of Web site to allow:	
http://cyouriserver.hustname>/Reputting	Add
Allowed sites:	
	<u>R</u> emove
	Remove All
]	
Notifications and Filter Level	
Play a sound when a pop-up is blocked.	
 Play a sound when a pop-up is blocked. Show Information Bar when a pop up is blocked. 	
✓ Play a sound when a pop-up is blocked. ✓ Show Information Bar when a pop up is blocked. Filter Level:	
 ✓ Play a sound when a pop-up is blocked. ✓ Show Information Bar when a pop up is blocked. Eilter Level: Medium: Dlock most automatic pop-ups 	<u> </u>

NOTE - even if the full URL is used it will resolve the hostname of your CCC Server

Select 'Ok' then 'Close' and 'Ok' to finish. CCC Reporting will now allow the "pop-up" application window.

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