Mac-Lab/CardioLab Anti-Virus Information
Software versions 6.5.3, 6.5.4, 6.5.6, 6.8, 6.8.1, 6.9, and 6.9.5

Product Group: Interventional Invasive Products
Mac-Lab IT/XT/XTi, CardioLab IT/XT/XTi,
SpecialsLab and ComboLab IT/XT/XTi

Products: Recording Systems, Centricity Cardiology
Data Management Systems

Subject: Anti-Virus Information

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Anti-virus software supports facilities in complying with privacy regulations, such as HIPAA.

Anti-Virus Requirements

**WARNING:**

ANTI-VIRUS SOFTWARE INSTALLATION

The System is delivered without anti-virus protection. It is recommended to have validated anti-virus software installed on the system before connecting to any network. Lack of validated virus protection could lead to system instability or failure.

Note the following requirements:

- The MLCL v6.5.3/6.5.4/6.5.6/6.8/6.8.1/6.9/6.9.5 Anti-Virus solutions listed below are in addition to the qualified Anti-Virus solutions listed in the applicable MLCL Security Guide.

- For MLCL v6.5.3/6.5.4/6.5.6/6.8/6.8.1/6.9/6.9.5 systems, the listed Anti-Virus can only be installed after all applicable security patches are installed. The MLCL v6.5.3 and v6.5.4 Acquisition and Review systems also requires SP3 installed for Windows XP. The MLCL v6.9 INW Server also requires SP1 installed for Windows Server 2008 R2.

- Anti-virus software is not provided with the Mac-Lab/CardioLab system and is the customer’s responsibility to acquire, install, and maintain.

- The customer is responsible for updating anti-virus definition files.

- If a virus is found contact the facility System Administrator and GE Technical Support.

- Install only the anti-virus software packages listed in the listed in the Validated Anti-Virus Software section.

- Log in as an Administrator or member of that group to perform the activities in this document.

- Use a language version of the validated anti-virus software that matches the operating system language if possible. If there is no validated anti-virus software that matches the operating system language, install the English version of the anti-virus software.
Validated Anti-Virus Software

**WARNING:**

**SYSTEM INSTABILITY**

Do not install or use unvalidated anti-virus software (including unvalidated versions). Doing so may result in system instability or failure. Use only validated anti-virus software in the appropriate language version.

**NOTE:**

If the language specific anti-virus software is not available, install the English version of anti-virus software.

The Mac-Lab/CardioLab v6.9/6.9.5 systems have been validated to run with the software listed in the following table.

<table>
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<th>Supported Anti-Virus Software</th>
<th>Supported Languages</th>
<th>Supported Anti-Virus Software Version</th>
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<td>English</td>
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The Mac-Lab/CardioLab v6.5.3/6.5.4/6.5.6/6.8/6.8.1 system have been validated to run with the software listed in the following table.

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<td>XG 12.0</td>
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</tbody>
</table>

**NOTE:** Previously supported CA Total Defense Anti-Virus is no longer a commercially available product.

**Customer-Provided Server Configuration**

The anti-virus management console is required to be installed on the Customer-Provided Server.

The communication between Customer-Provided Server and Mac-Lab/CardioLab devices can be accomplished in different ways including:

1. Adding to INW domain.
2. Adding to Member Server domain.
3. Cross domain authentication.
   
   **NOTE:** The customer-provided server should have two network ports. One network port to connect to the Centricity Cardiology INW network and the second network port to connect to the hospital network.

### Anti-Virus Software Installation Settings

#### Disable Loopback Connection

**Note:** Perform the below steps only when Loopback Connection is present in Acquisition system.

On an Acquisition system connected to the Mac-Lab/CardioLab environment, disable the Loopback Connection to discover all client systems with the same subnet mask on the domain.

1. Log on as **Administrator** or a member of that group.
2. Right-click **My Network Places** on the desktop and select **Properties**.
3. Right-click **Loopback Connection** and select **Disable**.
4. Restart the Acquisition system.

**NOTE:** Disabling the Loopback connection on the Acquisition system is required to discover all client systems with same subnet mask on the domain.

#### Enable Loopback Connection

**Note:** Perform the below steps only when Loopback Connection is present in Acquisition system.

On an Acquisition system connected to the Mac-Lab/CardioLab environment, enable the Loopback Connection using the steps below.

1. Log on as **Administrator** or member of that group.
2. Right-click **My Network Places** on the desktop and select **Properties**.
3. Right-click **Loopback Connection** and select **Enable**.
4. Restart the Acquisition system.

#### Configure Computer Browser Service Before Anti-Virus Installation

Check the Computer Browser service setting on networked Acquisition and Review systems to make sure it is configured correctly.

1. Log on as **Administrator** or member of that group.
2. Click **Start > Run**.
3. Type `services.msc` and press **Enter**.
4. Ensure the **Computer Browser** service is **Started** and **Automatic**.
5. If not, then follow further instructions.
6. Double-click the **Computer Browser** service.
7. Change the **Startup type** to **Automatic**.
8. Click **Start**.
9. Click **OK**.
10. Close the **Services** window.

### Configure Computer Browser Service After Anti-Virus Installation

Check the Computer Browser service setting on networked Acquisition and Review systems to make sure it is configured correctly.

1. Click **Start > Run**.
2. Type `services.msc` and press **Enter**.
3. Double-click the **Computer Browser** service.
4. Change the **Startup type** to **Manual**.
5. Click **OK**.
6. Close the **Services** window.
Symantec EndPoint Protection v12.1.2

Installation Overview
Install Symantec EndPoint Protection in a networked Mac-Lab/CardioLab environment only. In a networked environment, the Symantec EndPoint Protection must be installed on the customer-provided server and then deployed to the Centricity Cardiology INW server and Acquisition/Review workstation as clients. Use the following instructions to install and configure Symantec EndPoint Protection for English.

Virus updates are the responsibility of the facility. Update the definitions regularly to ensure that the latest virus protection is on the system.

Pre-Installation Guidelines
1. On the customer-provided server, make sure Symantec EndPoint Protection Manager is installed before continuing with these steps.
2. On the customer-provided server, open inbound port 8014 and name it IN_8014_Symantec and allow inbound connections for domain, public, and private.
3. Log on as Administrator or a member of that group on all client systems (Acquisition, Review, and INW Server) to install the anti-virus software.
4. Disable the Loopback Connection. Refer to Disable Loopback Connection for more information.
5. Configure the Computer Browser service. Refer to Configure Computer Browser Service Before Anti-Virus Installation for more information.

Symantec EndPoint Protection Deployment Steps (Preferred Push Installation Method)
1. Click Start > All Programs > Symantec EndPoint Protection Manager > Symantec Endpoint Protection Manager.
2. Enter the appropriate user name and password to log in to Symantec Endpoint Protection Manager. (Click Yes if a security prompt displays.)
3. Check Do not show this Welcome Page again and click Close to close the welcome screen.
4. Click Home in the Symantec Endpoint Protection Manager window.
5. Select Install protection client to computers from the Common Tasks drop-down list in the top-right of the Home window.
7. Keep the default settings and click Next.
9. Expand <Domain> (example: INW). Systems connected to the domain are displayed in the Computer selection window.

   NOTE: If all systems are not being recognized, click Search Network and click Find Computers. Use the search by IP address detection method to identify the client systems (Acquisition, Review, and INW Server).
10. Select all Mac-Lab/CardioLab client machines connected to the domain and click >>. The Login Credentials screen appears.
11. Enter the appropriate user name, password and domain name and click OK.

12. Make sure all selected machines appear under Install Protection Client and click Next.

13. Click Send and wait until the Symantec anti-virus software is deployed on all client systems (Acquisition, Review, and INW Server). When finished, the Deployment Summary screen appears.

14. Click Next and then click Finish to complete the Client Deployment Wizard.

15. Restart all the client machines (Acquisition, Review, and INW Server). Login with Administrator or as a member of that group on all client machines after the restart.

**Symantec EndPoint Protection Server Console Configurations**

1. Select Start > All Programs > Symantec EndPoint Protection Manager > Symantec EndPoint Protection Manager. The Symantec EndPoint Protection Manager log on window opens.

2. Enter the appropriate Symantec Endpoint Protection Manager Console password and click Log On.


4. Click Add a Virus and Spyware Protection policy under Tasks. The Virus and Spyware Protection window opens.


6. Select Daily Scheduled Scan and click Edit. The Edit Scheduled Scan window opens.

7. Change scan name and description to Weekly Scheduled Scan and Weekly Scan at 00:00 respectively.

8. Select Scan type as Full Scan.

9. Select the Schedule tab.

10. Under Scanning Schedule, select Weekly and change the time to 00:00.

11. Under Scan Duration uncheck Randomize scan start time within this period (recommended in VMs) and select Scan until finished (recommended to optimize scan performance).

12. Under Missed scheduled Scans uncheck Retry the scan within.

13. Select the Notifications tab.

14. Uncheck Display a notification message on the infected computer and click OK.

15. Select the Advanced tab in the Administrator-Defined Scans window.

16. Under Scheduled Scans uncheck Delay scheduled scans when running on batteries, Allow user-defined scheduled scans to run when scan author is not logged on and Display Notification about detections when the user logs on.

17. Under Startup and Triggered Scans uncheck Run an Active Scan when new definitions arrive.


19. Select the Scan Details tab and select and lock Enable Auto-Protec.
20. Select the **Notifications** tab and uncheck and lock **Display a notification message on the infected computer** and **Display the Auto-Protec results dialog on the infected Computer**.

21. Select the **Advanced** tab and under **Auto-Protect Reloading and Enablement**, uncheck and lock the **When Auto-Protect is disabled, Enable after:** option.

22. Under **Additional Options** click **File Cache**. The **File Cache** window opens.

23. Uncheck **Rescan cache when new definitions load** and click **OK**.

24. Under **Windows Settings > Protection Technology**, click **Download Protection**.

25. Select the **Notifications** tab and uncheck and lock **Display a notification message on the infected computer**.

26. Under **Windows Settings > Email Scans**, click **Internet Email Auto-Protec**.

27. Select the **Notifications** tab and uncheck and lock **Display a notification message on the infected computer**, **Display a progress indicator when email is being sent**, and **Display a notification area icon**.

28. Under **Windows Settings > Email Scans**, click **Microsoft Outlook Auto-Protec**.

29. Select the **Notifications** tab and uncheck and lock **Display a notification message on the infected computer**.

30. Under **Windows Settings > Email Scans**, click **Lotus Notes Auto-Protec**.

31. Select the **Notifications** tab and uncheck and lock **Display a notification message on infected computer**.

32. Under **Windows Settings > Advanced Options**, click **Quarantine**.

33. Under **When New Virus Definitions Arrive**, select **Do nothing**.

34. Under **Windows Settings > Advanced Options**, click **Miscellaneous**.

35. Select the **Notifications** tab and uncheck **Display a notification message on the client computer** under the **When definitions are outdates** and **Display a notification message on the client computer** under **When Symantec Endpoint Protection is running without virus definitions** and **Display error messages with a URL to a solution**.

36. Click **OK** to close **Virus and Spyware Protection policies**.

37. Click **Yes** at the **Assign Policies** message box.

38. Select **My Company** and click **Assign**.

39. Click **Yes** at the message box.

40. Under **Policies** click **LiveUpdate**.

41. Select **LiveUpdate Settings policy** and under **Tasks**, click **Edit the policy**.

42. Under **Overview > Windows Settings**, click **Server Settings**.

43. Under **Internal or External LiveUpdate Server**, ensure **Use the default management server** is selected and uncheck **Use a LiveUpdate server**.
44. Click OK.

45. Click Clients from left pane and select the Policies tab.

46. Uncheck Inherit policies and settings from parent group “My Company” and click Communications Settings under Location-Independent Policies and Settings.

47. Under Download, make sure Download policies and content from the management server is checked and Push mode is selected.

48. Click OK.

49. Click General Settings under Location-independent Policies and Settings.

50. Select the Tamper Protection tab and uncheck and lock Protect Symantec security software from being tampered with or shut down.

51. Click OK.

52. Click Admin and select Servers.

53. Under Servers, select Local Site (My Site).

54. Under Tasks, select Edit Site Properties. The Site Properties for Locate Site (My Site) window opens.

55. Select LiveUpdate tab and under Download Schedule ensure the schedule is set to Every 4 hours.

56. Click OK.

57. Click Policies and select Firewall.

58. Select Firewall policy and under Tasks click Edit the policy. The Firewall policy window opens.

59. Click Protection and Stealth and under Protection Settings uncheck Automatically block an attacker’s IP address.

60. Click OK.

61. Click Log Off and close the Symantec EndPoint Protection Manager Console. Make sure Symantec Endpoint Protection Policies are pushed in client systems.

**Symantec EndPoint Protection Post Installation Guidelines**

1. Enable the Loopback Connection. Refer to Enable Loopback Connection for more information.

2. Configure the Computer Browser service. Refer to Configure Computer Browser Service After Anti-Virus Installation for more information.

**McAfee VirusScan Enterprise v8.8 Patch 2**

**Installation Overview**

McAfee VirusScan Enterprise should be installed on an individual Mac-Lab/CardioLab system and it should be managed individually. Use the following instructions to install and configure McAfee VirusScan Enterprise for English.

Virus updates are the responsibility of the facility. Update the definitions regularly to ensure that the latest virus protection is on the system.
McAfee VirusScan Enterprise Installation Procedure
1. Log on as Administrator or as a member of that group.
2. Insert the McAfee VirusScan Enterprise 8.8 Patch 2 CD into the CD drive.
4. Click Yes. The McAfee VirusScan Enterprise Setup screen appears.
5. Click Next. The McAfee End User License Agreement screen appears.
6. Read the license agreement and complete any necessary fields, click OK when finished.
7. Select Typical and click Next.
8. Select Standard Protection and click Next.
9. Click Install and wait for the installation to complete. After successful installation of McAfee VirusScan Enterprise, the McAfee Virus Scan Enterprise Setup has completed successfully screen appears.
10. Uncheck the Run On-Demand Scan checkbox and click Finish.
11. If the Update in Progress window appears, click Cancel.
12. If a message box to restart the system appears, click OK.
13. Restart the system.
14. Log on as Administrator or as a member of that group.

McAfee VirusScan Enterprise Configuration
1. Right-click McAfee in the system tray and select On-Access Scan Properties.
2. Select the ScriptScan tab. The ScriptScan window opens.
3. Clear the Enable scanning of scripts check box.
5. Uncheck the Show the messages dialog when a threat is detected and display the specified text in the message check box.
6. Click Apply.
7. Click OK to close the On-Access Scan Properties window.
8. Select Start > All Programs > McAfee > VirusScan Console. The VirusScan Console window opens.
10. Uncheck the On-Access Scan, On-Demand Scan and scheduled scans, Email Scan and AutoUpdate check boxes.
11. Click Destination. The Alert Manager Client Configuration window opens.
12. Select the Disable alerting check box.
13. Click OK. The Alert Properties window opens.
14. Select the **Additional Alerting Options** tab.
15. Select the **Suppress all alerts (severities 0 to 4)** option from the **Severity Filter** drop-down list.
16. Select the **Alert Manager Alerts** tab.
17. Clear the **Access Protection** check box.
18. Click **Apply**.
19. Click **OK** to close the **Alert Properties** window.
20. Right-click **AutoUpdate** on the VirusScan Console.
21. Click **Properties**. The McAfee **AutoUpdate Properties – AutoUpdate** window opens.
22. Click **Schedule**. The **Schedule Settings** window opens.
23. Clear the **Enable (scheduled task runs at specified time)** check box.
24. Click **Apply**.
25. Click **OK** to close the **Schedule Settings** window.
26. Click **OK** to close the **McAfee AutoUpdate Properties – AutoUpdate** window.
27. Right-click **Full Scan** on the VirusScan Console.
28. Click **Properties**. The **On Demand Scan Properties** window opens.
29. Click **Schedule**. The **Schedule Settings** window opens.
30. Check the **Enable (scheduled task runs at specified time)** check box.
31. Select the **Schedule** tab.
32. Select **Weekly** from **Run Task, 12:00 AM** from **Start Time**. check **Sunday** from **Schedule Task Weekly**.
33. Click **OK**. The **On Demand Scan Properties - Full Scan** window opens.
34. Select the **Exclusions** tab.
35. Click **Exclusions**. The Set **Exclusions** window opens.
36. Click **Add**.
37. Click **Browse** and navigate to **D:\GEMMS\Prucka** and **D:\GEData\Studies** folders one at a time and select the **Also exclude subfolders** checkbox.
38. Click **OK**.
39. In the Set **Exclusions** window, make sure the **D:\GEMMS\Prucka** and **D:\GEData\Studies** folders display.
40. Click **OK**.
41. Click **OK** to close the **On Demand Scan Properties – Full Scan** window.
42. Close the **VirusScan Console**.
McAfee ePolicy Orchestrator v5.0

Installation Overview
Install McAfee ePolicy Orchestrator on a networked Mac-Lab/CardioLab environment only. McAfee ePolicy Orchestrator must be installed on a customer-provided server and McAfee VirusScan Enterprise should be deployed to the Centricity Cardiology INW server and Acquisition/Review workstations as a client. Use the following instructions to install and configure McAfee ePolicy Orchestrator for English.

Virus updates are the responsibility of the facility. Update the definitions regularly to ensure that the latest virus protection is on the system.

Pre-Installation Guidelines
1. Make sure McAfee ePolicy Orchestrator Console is installed on the customer provided server before continuing with these steps.
2. On the customer-provided server, open inbound port 443 and name it IN_443_McAfee and allow inbound connections for domain, public, and private.
3. Log on as Administrator or a member of that group on all client systems (Acquisition, Review, and INW Server) to install the anti-virus software.
4. Disable the Loopback Connection. Refer to Disable Loopback Connection for more information.

McAfee ePolicy Orchestrator Deployment Steps (Preferred Push Installation Method)
1. Select Start > All Programs > McAfee > ePolicy Orchestrator > Launch McAfee ePolicy Orchestrator 5.0.0 Console to log on to the ePolicy Orchestrator console.
   
   NOTE: Click Continue with this website if the Security Alert message box appears.
2. Enter the appropriate username and password and click Log On.
3. Select Menu > Configuration > Server Settings > Port.
4. Record the Agent-to-server communication port number.
5. On the customer-provided server, open the Agent-to-server communication port as an inbound port and name it IN_<port number>_McAfee.
6. Select Start > All Programs > McAfee > ePolicy Orchestrator > Launch McAfee ePolicy Orchestrator 5.0.0 Console to log on to the ePolicy Orchestrator console.
   
   NOTE: Click Continue with this website if the Security Alert message box appears.
7. Enter the appropriate username and password and click Log On.
9. Click My Organization and with the focus on My Organization click System Tree Actions > New Systems from the bottom left corner of the screen.
10. Select Push agents and add systems to the current group (My Organization) and click Browse.
11. Enter the domain administrator username and password and click OK.
12. Select the INW domain from the Domain drop-down list.
13. Select the client machines (Acquisition, Review, and INW Server) connected to the domain and click **OK**.

14. Select **Agent Version** as **McAfee Agent for Windows 4.8.0 (Current)**. Enter appropriate domain administrator username and password and click **OK**.

15. In client machines (Acquisition, Review, and INW Server) make sure the **C:\Program Files\McAfee\Common Framework** directory is present and **McAfee Agent** is installed in the same directory.

   **NOTE:** For the INW Server make sure the **C:\Program Files (x86)\McAfee\Common Framework** directory is present and **McAfee Agent** is installed in the same directory.

16. Restart the client machines (Acquisition, Review, and INW Server).

17. Click **Start > All Programs > McAfee > ePolicy Orchestrator > Launch McAfee ePolicy Orchestrator 5.0.0 Console**.

18. Enter the appropriate username and password and click **Log On**.

19. Click **Menu > Systems > System Tree**.

20. Click **My Organization** and with the focus on **My Organization** click the **Assigned Client Tasks** tab.

21. Click **Actions > New Client Task Assignment** button at the bottom of the screen. The **Client Task Assignment Builder** screen appears.

22. Select the following:
   
   a. **Product**: McAfee Agent
   b. **Task Type**: Product Deployment  
   c. **Task name**: Create New Task

23. On the **Client Task Catalog: New Task - McAfee Agent: Product Deployment** screen, complete the fields as follows:
   
   a. **Task Name**: Enter the appropriate task name
   b. **Target platforms**: Windows  
   c. **Products and components**: VirusScan Enterprise  
   d. **Options**: Run at every policy enforcement (Windows only)

24. Click **Save**.

25. In the **1 select Task** screen, select the following:

   a. **Product**: McAfee Agent  
   b. **Task Type**: Product Deployment  
   c. **Task Name**: Newly created task name

26. Click **Next**. The **2 Schedule** screen appears.

27. Select **Run immediately** from **Schedule type** drop-down list.
28. Click **Next**. The **3 Summary** screen appears.
29. Click **Save**. The **System Tree** screen appears.
30. Select the **Systems** tab and then select all the client machines (Acquisition, Review, and INW Server) which are connected to the domain.
31. Click **Wake up Agents** at bottom of the window.
32. Keep default settings and click **OK**.
33. Restart all the client machines (Acquisition, Review, and INW Server) and log in with Administrator or a member of that group on all client machines.
34. Click the **Log Off** link to close the **McAfee ePolicy Orchestrator Console**.

**McAfee ePolicy Orchestrator Server Console Configuration**

1. Select **Start > All Programs > McAfee > ePolicy Orchestrator > Launch McAfee ePolicy Orchestrator 5.0.0 Console** to log on to the ePolicy Orchestrator console.
   
   **NOTE:** Click **Continue with this website** if the **Security Alert** message box appears.

2. Enter the appropriate Username and Password. The **ePO Summary** window opens.
3. Select **Menu > Systems > Systems Tree**. The **System Tree** window opens.
4. Click **My Organization**.
5. Select the **Assigned Policies** tab. The **Assigned Policies** screen opens.
6. From the **Product** drop-down list, select **VirusScan Enterprise 8.8.0**. The **Assigned Policies** window for VirusScan Enterprise 8.8.0 opens.
7. Click **My Default** for **On-Access General Policies**. The **General** window opens.
8. Select **Workstation** from the **Settings for** drop-down list. Click **ScriptScan** and uncheck **Enable scanning of scripts**.
9. Click **Messages**. The **Messages** window opens.
10. Uncheck **Show the messages dialog box when a threat is detected and display the specified text in the message**.
11. Select **Server** from the **Settings for** drop-down list.
12. Click **ScriptScan** and ensure **Enable scanning of scripts** is unchecked.
13. Click **Messages**. The **Messages** window opens.
14. Uncheck the **Show the messages dialog box when a threat is detected and display the specified text in the message**.
15. Click **Save**.
16. Select **My Default** for **Buffer Overflow Protection Policies**. The **Buffer Overflow Protection** window opens.
17. Select **Workstation** from the **Settings for** drop-down list and uncheck **Show the messages dialog box when a threat is detected and display the specified text in the message**.
18. Select Server from the Settings for drop-down list and uncheck Show the messages dialog box when a buffer overflow is detected.

19. Click Save.


21. Select Workstation from the Settings for drop-down list and uncheck On-Access Scan, On-Demand Scan and scheduled scans, Email Scan and AutoUpdate.

22. Check Disable alerting.

23. Click Additional Alerting Options. The Additional Alerting Options window opens.

24. From the Severity Filters drop-down menu, select Suppress all alerts (severities 0 to 4).

25. Select Server from the Settings for drop-down list and select the Alert Manager Alerts tab. The Alert Manager Alerts window opens.

26. Uncheck On-Access Scan, On-Demand Scan and scheduled scans, Email Scan and AutoUpdate.

27. Check Disable alerting.

28. Click Additional Alerting Options. The Additional Alerting Options window opens.

29. From the Severity Filters drop-down menu, select Suppress all alerts (severities 0 to 4).

30. Click Save.


32. Select Workstation from the Settings for drop-down list and ensure Configure one scanning policy for all processes is selected.

33. Click the Exclusions tab. The Exclusions window opens.

34. Click Add and select By pattern.

35. Enter the D:\GEMMS\Prucka and D:\GEData\Studies folder names and select Also exclude subfolders.

36. Click OK.

37. Select Server from Settings for drop-down list and select the Processes tab.

38. Ensure Configure one scanning policy for all processes is selected.

39. Select the Exclusions tab. The Exclusions window opens.

40. Click Add and select By pattern.

41. Enter D:\GEMMS\Prucka and select Also exclude subfolders.

42. Click OK.

43. Click Save.

44. From the Product drop-down menu, select McAfee Agent. The Policies window for McAfee Agent opens.
45. Click My Default for Repository. The Repositories window opens.  
   **NOTE:** Click Close for Internet Explorer Security Message Box.

46. Click Proxy. The Proxy window opens.

47. Select Use Internet Explorer settings (For Windows)/System Preferences settings (For Mac OSX).

48. Click Save.

49. Click Systems.

50. Select all the client systems (Acquisition, Review and Centricity Cardiology INW server) into which the configured policies are to be deployed.


52. Click OK.

53. Log off ePolicy Orchestrator.

**McAfee ePolicy Orchestrator Post Installation**

Enable the Loopback Connection. Refer to Enable Loopback Connection for more information.

**Trend Micro OfficeScan Client/Server Edition v10.6 SP2**

**Installation Overview**

Install Trend Micro OfficeScan Client/Server Edition on a networked Mac-Lab/CardioLab environment only. Trend Micro OfficeScan must be installed on the customer-provided server and then deployed to Centricity Cardiology INW server and Acquisition/Review workstation as clients. Use the following instructions to install Trend Micro OfficeScan Client/Server Edition for English.

Virus updates are the responsibility of the facility. Update the definitions regularly to ensure that the latest virus protection is on the system.

**Pre-Installation Guidelines**

1. On the customer-provided server, make sure Office Scan Web Console is installed before continuing with these steps.

2. On the customer-provided server, open inbound port 8080 and name it IN_8080_OSCE and allow inbound connections for domain, public, and private.

3. Log on as Administrator or member of that group on all client systems (Acquisition, Review, and INW Server) to install the anti-virus software.

4. Disable the Loopback Connection. Refer to Disable Loopback Connection for more information.

5. Configure the Computer Browser service. Refer to Configure Computer Browser Service Before Anti-Virus Installation for more information.

**Trend Micro OfficeScan Deployment Steps (Preferred Push Installation Method)**

1. Click Start > All Programs > TrendMicro OfficeScan server - <server name> > Office Scan Web Console.
NOTE: Continue by selecting Continue to this website (not recommended). In the Security Alert window, check In the future, do not show this warning and click OK.

2. If you receive a certificate error indicating that the site is not trusted, manage your certificates to include Trend Micro OfficeScan.


4. Click Install.

5. Enter appropriate username and password and click Log On.

6. If prompted, click Update Now to install new widgets. Wait until the new widgets are updated. The update is completed screen will appear.

7. Click OK.

8. From the left side menu bar, click Networked Computers > Client Installation > Remote link.


10. Click Install.

11. Double-click My Company in the Remote Installation window. All domains will be listed under My Company.

12. Expand the appropriate domain (Example: INW) from the list. All systems connected to the domain appear.

13. If domains or systems are not listed in the Domain and Computers window, do the following on each of the client systems (Acquisition, Review, and INW Server):
   a. Enter the client system IP address in “Search for Computers:"
   b. Click the Search button.
   c. Enter the appropriate <domain name>\username and password and click Log on.
   d. Entered IP addresses will appear in the Selected Computers list

14. Select the client machines (Acquisition, Review, and INW Server) one at a time from the Selected Computers pane and click Install.

15. Click Yes at the confirmation box.

16. Click OK at the Number of clients to which notifications were sent message box.

17. Restart all the client machines (Acquisition, Review, and INW Server) and Log in as Administrator or a member of that group on all client machines and wait until the Trend Micro OfficeScan icon in system tray changes to blue with sin wave symbol.

18. Click the Log Off link to close the OfficeScan Web Console.

Trend Micro OfficeScan Server Console Configuration
1. Select Start > All Programs > TrendMicro Office Scan server <servername> > Office Scan Web Console. The Trend Micro OfficeScan Login window appears.

2. Enter the appropriate user name and password and click Login. The Summary window opens.
3. From the left side pane, select the Networked Computers > Client Management link.

4. On the right side, select OfficeScan Server.

5. From the Settings options, select Privileges and Other Settings.

6. Select only the following options in the Privileges tab and clear the remaining options:
   - Scan Privileges > Configure Manual Scan Settings.
   - Scan Privileges > Configure Real-time Scan Settings.
   - Scan Privileges > Configure Scheduled Scan Settings.
   - Proxy Setting Privileges > Allow the client user to configure proxy settings.
   - Uninstallation > Require a password for the user to uninstall the OfficeScan Client. Enter a suitable password.
   - Unloading > Require a password for the user to unload the OfficeScan client. Enter a suitable password.

7. Select the Other Settings tab.

8. Select Client Security Settings > Normal and clear the remaining options.

9. Click Apply to All Clients.

10. Click Close to close the Privileges and Other Settings window.

11. From the left side pane, select the Client Management link.

12. On the right side, select OfficeScan Server.

13. From the Settings options, select Scan Settings > Scan Now Settings.

14. Select only the following options in the Target tab and clear the remaining options:
   - Files to Scan > File types scanned by IntelliScan.
   - Scan Settings > Scan Compressed files.
   - Scan Settings > Scan OLE objects.
   - Virus/Malware Scan Settings only > Scan boot area.
   - CPU Usage > Low.
   - Scan Exclusion > Enable scan exclusion.
   - Scan Exclusion > Apply scan exclusion settings to all scan types.
   - Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed and select “Add path to client Computers Exclusion list”.
   - Enter the D:\GEMMS\Prucka and D:\GEData\Studies folders one at a time in the directory path for Exclusion List and click Add.

15. Click Apply to All Clients.

16. The exclusion list on this screen will replace the exclusion list on the clients or domains you selected in the client tree earlier. Do you want to proceed? Message will appear. Click OK.

17. Click Close to close the Scan Now Settings page.

18. From the left side pane, select the Client Management link.

19. On the right side, select OfficeScan Server.

20. From the Settings options, select Settings->Scan Settings->Real-time Scan Settings.
21. Select the **Target** tab. Select only the following options and clear the remaining options:
   - Enable Virus/Malware scan.
   - User Activity on Files > created/modified and retrieved.
   - Files to Scan > File types scanned by IntelliScan.
   - Virus/Malware Scan Settings Only > Enable IntelliTrap.
   - Scan Exclusion > Enable scan exclusion.
   - Scan Exclusion > Apply scan exclusion settings to all scan types.
   - Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed.
   - Make sure the D:\GEMMS\Prucka and D:\GEData\Studies paths are present in the Exclusion List.

22. Click the **Action** tab.

23. Keep the default settings and clear **Virus/Malware** > *Display a notification message on the client computer when Virus/Malware is detected* option and **Spyware/Grayware** - > *Display a notification message on the client computer when spyware/Grayware is detected*.

24. Click **Apply to All Clients**.

25. Click **Close** to close the **Real-time Scan Settings** page.

26. From the left side pane, select the **Client Management** link.

27. On the right side, select **OfficeScan Server**.

28. From the **Settings** options, select **Scan settings** - > Scheduled Scan Settings.

29. Select the **Target** tab. Select only the following options and clear the remaining options:
   - Enable Virus/Malware scan.
   - Schedule > Weekly, every (Sunday).
   - Files to Scan > File types scanned by IntelliScan.
   - Virus/Malware Scan settings only > Scan boot area.
   - CPU Usage > Low.
   - Scan Exclusion > Enable scan exclusion.
   - Scan Exclusion > Apply scan exclusion settings to all scan types.
   - Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed.
   - Make sure the D:\GEMMS\Prucka and D:\GEData\Studies paths are present in the Exclusion List.

30. Click the **Action** tab.

31. Keep the default settings and uncheck the **Virus/Malware** > *Display a notification message on the client computer when Virus/Malware is detected* and **Spyware/Grayware** - > *Display a notification message on the client computer when spyware/Grayware is detected* options.

32. Click **Apply to All Clients**.

33. Click **Close** to close the **Scheduled Scan Settings** page.

34. From the left side pane, select the **Networked Computers > Global Client Settings** link.

35. Select only the following options and clear the remaining options:
o Scan Settings > Configure Scan settings for large compressed files.

o Scan Settings > Do not scan files in the compressed file if the size exceeds 2 MB.

o Scan Settings > In a compressed file scan only the first 100 files.

o Scan Settings > Exclude the OfficeScan server database folder from Real-time Scan.

o Scan Settings > Exclude Microsoft Exchange server folders and files from scans.

o Reserved Disk Space > Reserve 60 MB of disk space for updates.

o Proxy Configuration > Automatically detect settings.

**NOTE:** It is important to clear the Alert Settings > Display a notification message if the client computer needs to restart to load a kernel driver.

36. Click **Save**.

37. Click **Log off** and close the **OfficeScan Web Console**.

**Trend Micro OfficeScan Post Installation Guidelines**

1. Enable the Loopback Connection. Refer to **Enable Loopback Connection** for more information.

2. Configure the Computer Browser service. Refer to **Configure Computer Browser Service After Anti-Virus Installation** on for more information.

**Trend Micro OfficeScan Client/Server Edition XG 12.0**

**Installation Overview**

Install Trend Micro OfficeScan Client/Server Edition on a networked Mac-Lab/CardioLab environment only. Trend Micro OfficeScan must be installed on the customer-provided server and then deployed to Centricity Cardiology INW server and Acquisition/Review workstation as clients. Use the following instructions to install **Trend Micro OfficeScan Client/Server Edition XG 12.0**.

Virus updates are the responsibility of the facility. Update the definitions regularly to ensure that the latest virus protection is on the system.

**Pre-Installation Guidelines**

**NOTE:** Internet Explorer 10 is the minimum IE browser required to run OfficeScan Web Console on customer-provided server.

1. On the customer-provided server, make sure Office Scan Web Console is installed before continuing with these steps.

2. On the customer-provided server, open inbound port 8080 and name it **IN_8080_OSCE** and allow inbound connections for domain, public, and private.

3. During installation of Trend Micro OfficeScan do the following on the customer-provided server:
   
   a. Uncheck **Enable firewall** in the **Anti-virus Feature** window.

   b. Select **No, Please do not enable assessment mode** in the **Anti-spyware Feature** window.

   c. Uncheck **Enable web reputation policy** in the **Web Reputation Feature** window.

4. Log on as **Administrator** or a member of that group on all client systems (Acquisition, Review, and INW Server) to install the anti-virus software.

5. Disable the Loopback Connection. Refer to **Disable Loopback Connection** for more information.
6. Configure the Computer Browser service. Refer to Configure Computer Browser Service Before Anti-Virus Installation for more information.

7. Manually obtain the root and intermediate level certificates required for installation.

<table>
<thead>
<tr>
<th>Required Root and Intermediate Level Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddTrustExternalCARoot.crt</td>
</tr>
<tr>
<td>COMODOCodeSigningCA2.crt</td>
</tr>
<tr>
<td>UTNAddTrustObject_CA.crt</td>
</tr>
<tr>
<td>UTN-USERFirst-Object.crt</td>
</tr>
<tr>
<td>UTN-USERFirst-Object_kmod.crt</td>
</tr>
</tbody>
</table>

8. One at a time, install the required root and intermediate certificates.
   a. Double-click the first certificate to install it on the MLCL systems.
   b. Open the certificate and click **Install Certificate**.
   c. Click **Next** when the **Certificate Import Wizard** appears.
   d. On the **Certificate Store** window, select **Place all certificates in the following store** and click **Browse**.
   e. Check **Show physical stores > Trusted Root Certification Authorities > Local Computer** and then click **OK**.
   f. Click **Next** on **Certificate Import Wizard**.
   g. Click **Finish**. The import was successful message should appear.
   h. Repeat until all required certificates are installed.

**NOTE:** Each of the certificates have an expiry date. Once the certificate has expired, they should be renewed and updated on the MLCL systems to ensure that the OfficeScan agent functions as expected.

**Trend Micro OfficeScan Deployment Steps (Preferred Push Installation Method)**

1. Click **Start > All Programs > TrendMicro OfficeScan server - <server name> > OfficeScan Web Console.**
   
   **NOTE:** Continue by selecting **Continue to this website (not recommended).** In the Security Alert window, check **In the future, do not show this warning** and click **OK**.

2. If you receive a certificate error indicating that the site is not trusted, manage your certificates to include Trend Micro OfficeScan.

3. If prompted, install the **AtxEnc** add-ons. The Security Warning screen displays.

4. Click **Install**

5. Enter the username and password and click **Log On.**
6. If prompted, click **Update Now** to install new widgets. Wait until the new widgets are updated.
   The update is completed screen will appear.
7. Click **OK**.
8. From the top menu bar, click **Agents > Agent Installation > Remote**.
9. If prompted, install the **AtxConsole** add-ons. The Security Warning screen displays.
10. Click **Install**.
11. Double-click **My Company** in the **Remote Installation** window. All domains will be listed under **OfficeScan Server**.
12. Double-click the domain (Example: INW) from the list. All systems connected to the domain appear.
13. If domains or systems are not listed in the **Domains and Endpoints** window, perform the steps listed in either a or b:
   a. On the OfficeScan web console:
      i. Enter the IP of each of the client systems in the **Search for endpoints** box one at a time and press Enter.
      ii. Provide <domain name>\username and password and click **Log on**.
      iii. Proceed with step 16.
   b. On each of the client systems (Acquisition, Review, and INW Server):
      i. Log in as **Administrator** or a member of that group.
      ii. Click **Start > Run**.
      iii. Type \<Anti-Virus Management Console_server_IP_address> and press **Enter**
      iv. Enter the **administrator** username and password, when prompted.
      v. Navigate to \<Anti-Virus Management Console_server_IP_address>\ofcscan and double-click **AutoPcc.exe**. Enter the administrator username and password, when prompted.
      vi. Restart the client systems when the installation is complete.
      vii. Log in as **Administrator** or a member of that group on all client machines and wait until the Trend Micro OfficeScan icon in system tray changes to blue.
      viii. Skip the remaining steps in this procedure and go to “Trend Micro OfficeScan Server Console Configuration” section.
14. Select the client machines (Acquisition, Review, and INW Server) and click **Add**.
15. Type the <domain name>\username and password and click **Log on**.
16. Select the client machines (Acquisition, Review, and INW Server) one at a time from the **Selected Endpoints** pane and click **Install**.
17. Click **Yes** at the confirmation box.
18. Click **OK** at the *Number of agents to which notifications were sent* message box.

19. On *Windows XP* systems, if the remote installation or AutoPcc installation of Trend Micro OfficeScan fails perform the following steps:
   
   a. On Customer-Provided Server where anti-virus management console is installed, open windows explorer and create C:\Temp folder.
   
   b. Navigate to `C:\Program Files (x86)\Trend Micro\OfficeScan\PCCSRV\Admin\Utility\ClientPackager` folder.
   
   c. Run `ClnPack.exe` with administrative privilege, the Agent Packager window will appear.
   
   d. In Agent Packager window, select the following:
      
      i. Package Type: Setup.
      
      ii. Windows operating system type: 32-bit
      
      iii. Scan Method: Smart Scan
      
      iv. Domain: Appropriate domain name from the drop-down list to which the client system belongs to.
      
      v. Options: Disable prescan (fresh installations only).
      
      vi. Source file: `C:\Program Files (x86)\Trend Micro\OfficeScan\PCCSRV\ofcscan.ini`
      
      vii. Output file: Select C:\Temp folder. Enter file name as `OfficeScan_Client_Package` and click Save.
      
      viii. Click Create.
      
      ix. Click Close.
   
   e. Navigate to `C:\Program Files (x86)\Trend Micro\OfficeScan\PCCSRV` folder, copy `ofcscan.ini` to C:\Temp folder.
   
   f. Copy the content of C:\Temp folder to Windows XP client system where remote installation of Trend Micro OfficeScan failed.
   
   g. On Windows XP client system perform the following steps:
      
      i. Login into the system as *Administrator* or a member of that group.
      
      ii. Open windows explorer and navigate to the folder where `OfficeScan_Client_Package.exe` and `ofcscan.ini` is copied.
      
      iii. Double click `OfficeScan_Client_Package.exe`.
      
      iv. Restart Windows XP client system when the installation is complete.
      
      v. Log in as *administrator* or a member of that group.
      
      vi. Skip the remaining steps in this procedure and go to “Trend Micro OfficeScan Server Console Configuration” section.
20. Restart all the client machines (Acquisition, Review, and INW Server) and Log in as Administrator or a member of that group on all client machines and wait until the Trend Micro OfficeScan icon in system tray changes to blue with a green tick mark symbol.

21. Click the Log Off link to close the OfficeScan Web Console.

Trend Micro OfficeScan Server Console Configuration
1. Select Start > All Programs > TrendMicro Office Scan server <servername> > Office Scan Web Console. The Trend Micro OfficeScan Login screen appears.
2. Enter the user name and password and click Login. The Summary screen appears.
3. From the top pane, select the Agents > Agent Management link.
4. On the left side, select OfficeScan Server.
5. From the Settings options, select Scan Settings > Manual Scan Settings. The Manual Scan Settings screen appears.
6. Click the Target tab and select only the following options and uncheck the remaining options:
   - Files to Scan > File types scanned by IntelliScan.
   - Scan Settings > Scan compressed files.
   - Scan Settings > Scan OLE objects.
   - Virus/Malware Scan Settings Only > Scan boot area.
   - CPU Usage > Low
7. Click the Scan Exclusion tab and select only the following options and uncheck the remaining options:
   - Scan Exclusion > Enable scan exclusion.
   - Scan Exclusion > Apply scan exclusion settings to all scan types.
   - Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed and select Add path to agent Computers Exclusion list.
   - Select Adds path to from the drop-down under Saving the officescan agent's exclusion list does the following:
   - Enter the D:\GE\MMS\Prucka and D:\GE\Data\Studies folders one at a time and click Add.
8. Click Apply to All Agents.
9. Click OK at the The exclusion list on this screen will replace the exclusion list on the agents or domains you selected in the client tree earlier. Do you want to proceed? message.
10. Click Close to close the Manual Scan Settings screen.
11. From the top pane, select the Agent > Agent Management link.
12. On the left side, select OfficeScan Server.
13. From the Settings options, select Scan Settings > Real-time Scan Settings. The Real-time Scan Settings screen appears.
14. Click the Target tab and select only the following options and uncheck the remaining options:
   - Real-Time Scan Settings > Enable virus/malware scan.
   - Real-Time Scan Settings > Enable spyware/grayware scan.
   - Files to Scan > File types scanned by IntelliScan.
15. Click the **Scan Exclusion** tab and select only the following options and uncheck the remaining options:
   - **Scan Exclusion > Enable scan exclusion.**
   - **Scan Exclusion > Apply scan exclusion settings to all scan types.**
   - **Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed.**
   - Make sure the **D:\GEMMS\Prucka** and **D:\GEData\Studies** folder paths are present in the Exclusion List.

16. Click the **Action** tab.

17. Keep the default settings and uncheck the following options:
   - **Virus/Malware > Display a notification message on endpoints when virus/malware is detected.**
   - **Spyware/Grayware > Display a notification message on endpoints when spyware/grayware is detected.**

18. Click **Apply to All Agents**.

19. Click **Close** to close the **Real-time Scan Settings** screen.

20. From the top pane, select the **Agents > Agent Management** link.

21. On the left side, select **OfficeScan Server**.

22. From the **Settings** options, select **Scan Settings > Scheduled Scan Settings**. The **Scheduled Scan Settings** screen appears.

23. Click the **Target** tab and select only the following options and uncheck the remaining options:
   - **Scheduled Scan Settings > Enable virus/malware scan.**
   - **Scheduled Scan Settings > Enable spyware/grayware scan.**
   - **Schedule > Weekly, every Sunday, Start time: 00:00 hh:mm.**
   - **Files to Scan > File types scanned by IntelliScan.**
   - **Scan Settings > Scan compressed files.**
   - **Scan Settings > Scan OLE objects.**
   - **Virus/Malware Scan Settings Only > Scan boot area.**
   - **CPU Usage > Low.**

24. Click the **Scan Exclusion** tab and select only the following options and uncheck the remaining options:
   - **Scan Exclusion > Enable scan exclusion.**
   - **Scan Exclusion > Apply scan exclusion settings to all scan types.**
   - **Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed.**
   - Make sure the **D:\GEMMS\Prucka** and **D:\GEData\Studies** folder paths are present in the Exclusion List.

25. Click the **Action** tab.
26. Keep the default settings and uncheck the following options:
   - Virus/Malware > Display a notification message on the endpoints when virus/malware is detected.
   - Spyware/Grayware > Display a notification message on the endpoints when spyware/grayware is detected.

27. Click Apply to All Agents.

28. Click Close to close the Scheduled Scan Settings screen.

29. From the top pane, select the Agents > Agent Management link.

30. On the left side, select OfficeScan Server.

31. From the Settings options, select Scan Settings > Scan Now Settings. The Scan Now Settings screen appears.

32. Click the Target tab and select only the following options and uncheck the remaining options:
   - Scan Now Settings > Enable virus/malware scan.
   - Scan Now Settings > Enable spyware/grayware scan.
   - Files to Scan > File types scanned by IntelliScan.
   - Scan Settings > Scan compressed files.
   - Scan Settings > Scan OLE objects.
   - Virus/Malware Scan Settings Only > Scan boot area.
   - CPU Usage > Low.

33. Click the Scan Exclusion tab and select only the following options and uncheck the remaining options:
   - Scan Exclusion > Enable scan exclusion.
   - Scan Exclusion > Apply scan exclusion settings to all scan types.
   - Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed.
   - Make sure the D:\GEMMS\Prucka and D:\GEData\Studies folder paths are present in the Exclusion List.

34. Click Apply to All Agents.

35. Click Close to close the Scan Now Settings screen.

36. From the top pane, select the Agents > Agent Management link.

37. On the left side, select OfficeScan Server.

38. From the Settings options, select Web Reputation Settings. The Web Reputation Settings screen appears.

39. Click the External Clients tab and uncheck Enable Web reputation policy on the following operating systems, if selected already during installation.

40. Click the Internal Agents tab and uncheck Enable Web reputation policy on the following operating systems, if selected already during installation.

41. Click Apply to All Agents.

42. Click Close to close the Web Reputation screen.
43. From the top pane, select the **Agents > Agent Management** link.

44. On the left side, select **OfficeScan Server**.

45. From the **Settings** options, select **Behavior Monitoring Settings**. The **Behavior Monitoring Settings** screen appears.

46. Uncheck the **Enable Malware Behavior Blocking** and **Enable Event Monitoring** options.

47. Click **Apply to All Agents**.

48. Click **Close** to close the **Behavior Monitoring** screen.

49. From the top pane, select the **Agents > Agent Management** link.

50. On the left side, select **OfficeScan Server**.

51. From the **Settings** options, select **Device Control Settings**. The **Device Control Settings** screen appears.

52. Click the **External Agents** tab and uncheck the following options:

   - **Notification** > Display a notification message on endpoints when OfficeScan detects unauthorized device access.
   - **Block the AutoRun function on USB storage devices.**
   - **Enable Device Control.**

53. Click the **Internal Agents** tab and uncheck the following options:

   - **Notification** > Display a notification message on endpoints when OfficeScan detects unauthorized device access.
   - **Block the AutoRun function on USB storage devices.**
   - **Enable Device Control.**

54. Click **Apply to All Agents**.

55. Click **Close** to close the **Device Control Settings** screen.

56. From the **Settings** options, again select **Device Control Settings**. The **Device Control Settings** screen appears.

57. Click the **External Agents** tab and uncheck **Enable Device Control**.

58. Click the **Internal Agents** tab and uncheck **Enable Device Control**.

59. Click **Apply to All Agents**.

60. Click **Close** to close the **Device Control Settings** screen.

61. From the left side pane, select the **Agents > Agent Management** link.

62. On the left side, select **OfficeScan Server**.

63. From the **Settings** options, select **Privileges and Other Settings**.

64. Click **Privileges** tab and select only the following options and uncheck the remaining options:

   - **Scan Privileges** > Configure Manual Scan Settings.
   - **Scan Privileges** > Configure Real-time Scan Settings.
65. Click the **Other Settings** tab.

66. Uncheck all options.

   **NOTE:** It is important to clear the following options.
   - **OfficeScan Agent Self-protection > Protect OfficeScan agent services.**
   - **OfficeScan Agent Self-protection > Protect files in the OfficeScan agent installation folder.**
   - **OfficeScan Agent Self-protection > Protect OfficeScan agent registry keys.**
   - **OfficeScan Agent Self-protection > Protect OfficeScan agent processes.**

67. Click **Apply to All Agents.**

68. Click **Close** to close the **Privileges and Other Settings** screen.

69. From the top pane, select the **Agents > Agent Management link.**

70. On the left side, select **OfficeScan Server.**

71. From the **Settings** options, select **Additional Service Settings.**

72. Uncheck **Enable service on the following operating systems** option.

73. Click **Apply to All Agents.**

74. Click **Close** to close the **Additional Service Settings** screen.

75. From the top pane, select the **Agents > Global Agent Settings** link.

76. Select only the following options and uncheck the remaining options:

   - **Scan Settings for Large Compressed Files > Do not scan files in the compressed file if the size exceeds 2 MB.** Follow this for Real-Time Scan and Manual Scan/Schedule Scan/Scan Now.
   - **Scan Settings for Large Compressed Files > In a compressed file scan only the first 100 files.** Follow this for Real-Time Scan and Manual Scan/Schedule Scan/Scan Now.
   - **Scan Settings > Exclude the OfficeScan server database folder from Real-time Scan.**
   - **Scan Settings > Exclude Microsoft Exchange server folders and files from scans.**

77. Click **Save.**

78. From the top pane, select the **Updates > Agents > Manual Updates** link.

79. Select **Manually select agents** and click **Select.**

80. Double-click the appropriate domain name under **OfficeScan Server.**

81. Select client system one at a time and click **Initiate Update.**

82. Click **OK** at the message box.

83. Click **Log off** and close the OfficeScan Web Console.
Trend Micro OfficeScan Post Installation Guidelines
1. Enable the Loopback Connection. Refer to Enable Loopback Connection for more information.
2. Configure the Computer Browser service. Refer to Configure Computer Browser Service After Anti-Virus Installation on for more information.

Trend Micro OfficeScan Client/Server Edition XG 12.0 SP1

Installation Overview
Install Trend Micro OfficeScan Client/Server Edition on a networked Mac-Lab/CardioLab environment only. Trend Micro OfficeScan must be installed on the customer-provided server and then deployed to Centricity Cardiology INW server and Acquisition/Review workstation as clients. Use the following instructions to install Trend Micro OfficeScan Client/Server Edition XG 12.0 SP1.

Virus updates are the responsibility of the facility. Update the definitions regularly to ensure that the latest virus protection is on the system.

Pre-Installation Guidelines
NOTE: Internet Explorer 10 is the minimum IE browser required to run OfficeScan Web Console on customer-provided server.

1. On the customer-provided server, make sure Office Scan Web Console is installed before continuing with these steps.
2. During installation of Trend Micro OfficeScan do the following on Customer-Provided server:
   a. Uncheck Enable firewall in the Anti-virus Feature window.
   b. Select No, Please do not enable assessment mode in the Anti-spyware Feature window.
   c. Uncheck Enable web reputation policy in the Web Reputation Feature window.
3. Log on as Administrator or a member of that group on all client systems (Acquisition, Review, and INW Server) to install the anti-virus software.
4. Disable the Loopback Connection. Refer to Disable Loopback Connection for more information.
5. Configure the Computer Browser service. Refer to Configure Computer Browser Service Before Anti-Virus Installation for more information.
6. Manually obtain the root and intermediate level certificates required for installation.

<table>
<thead>
<tr>
<th>Required Root and Intermediate Level Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddTrustExternalICARoot.crt</td>
</tr>
<tr>
<td>COMODOCodeSigningCA2.crt</td>
</tr>
<tr>
<td>UTNAddTrustObject_CA.crt</td>
</tr>
<tr>
<td>UTN-USERFirst-Object.crt</td>
</tr>
<tr>
<td>UTN-USERFirst-Object_kmod.crt</td>
</tr>
</tbody>
</table>

7. One at a time, install the required root and intermediate certificates.
a. Double-click the first certificate to install it on the MLCL systems.
b. Open the certificate and click *Install Certificate*.
c. Click *Next* when the *Certificate Import Wizard* appears.
d. On the *Certificate Store* window, select *Place all certificates in the following store* and click *Browse*.
e. Check *Show physical stores > Trusted Root Certification Authorities > Local Computer* and then click *OK*.
f. Click *Next* on *Certificate Import Wizard*.
g. Click *Finish*. The import was successful message should appear.
h. Repeat until all required certificates are installed.

**NOTE:** Each of the certificates have an expiry date. Once the certificate has expired, they should be renewed and updated on the MLCL systems to ensure that the OfficeScan agent functions as expected.

**Trend Micro OfficeScan Deployment Steps (Preferred Push Installation Method)**

1. Click *Start > All Programs > TrendMicro OfficeScan Server - <server name> > OfficeScan Web Console (HTML)*.

   **NOTE:** Continue by selecting *Continue to this website (not recommended)*. In the Security Alert window, check *In the future, do not show this warning* and click *OK*.

2. If you receive a certificate error indicating that the site is not trusted, manage your certificates to include Trend Micro OfficeScan.


4. Click *Install*

5. Enter the username and password and click *Log On*.

6. If prompted, click *Update Now* to install new widgets. Wait until the new widgets are updated.

   The update is completed screen will appear.

7. Click *OK*.

8. From the top menu bar, click *Agents > Agent Installation > Remote*.


10. Click *Install*.

11. Double-click the domain (Example: INW) from the list in the *Domains and Endpoints* pane. All systems connected to the domain appear.

12. If domains or systems are not listed in the *Domains and Endpoints* window, perform the steps listed in either a or b:

    a. On the OfficeScan web console:
i. Enter the IP of each of the client systems in the Search for endpoints box one at a time and press Enter.

ii. Provide <domain name>\username and password and click Log on.

iii. Proceed with step 15.

b. On each of the client systems (Acquisition, Review, and INW Server):

i. Log in as Administrator or a member of that group.

ii. Click Start > Run.

iii. Type \<Anti-Virus Management Console_server_IP_address> and press Enter.

iv. Enter the administrator username and password, when prompted.

v. Navigate to \<Anti-Virus Management Console_server_IP_address>\ofcscan and double-click AutoPcc.exe. Enter the administrator username and password, when prompted.

vi. Restart the client systems when the installation is complete.

vii. Log in as Administrator or a member of that group on all client machines and wait until the Trend Micro OfficeScan icon in system tray changes to blue.

viii. Skip the remaining steps in this procedure and go to “Trend Micro OfficeScan Server Console Configuration” section.

13. Select the client machines (Acquisition, Review, and INW Server) and click Add.

14. Type the <domain name>\username and password and click Log on.

15. Select the client machines (Acquisition, Review, and INW Server) one at a time from the Selected Endpoints pane and click Install.

16. Click OK at the confirmation box.

17. Click OK at the Number of agents to which notifications were sent message box.

18. On Windows XP systems, if the remote installation or AutoPcc installation of Trend Micro OfficeScan fails perform the following steps:

   a. On Customer-Provided Server where anti-virus management console is installed, open windows explorer and create C:\Temp folder.

   b. Navigate to C:\Program Files (x86)\Trend Micro\OfficeScan\PCCSRV\Admin\Utility\ClientPackager folder.

   c. Run ClnPack.exe with administrative privilege, the Agent Packager window will appear.

   d. In Agent Packager window, select the following:

      i. Package Type: Setup.

      ii. Windows operating system type: 32-bit

      iii. Scan Method: Smart Scan
iv. Domain: Appropriate domain name from the drop-down list to which the client system belongs to.

v. Options: Disable prescan (fresh installations only).

vi. Source file: C:\Program Files (x86)\Trend Micro\OfficeScan\PCCSRV\ofcscan.ini.

vii. Output file: Select C:\Temp folder. Enter file name as OfficeScan_Client_Package and click Save.

viii. Click Create.

ix. Click Close.

e. Navigate to C:\Program Files (x86)\Trend Micro\OfficeScan\PCCSRV folder, copy ofcscan.ini to C:\Temp folder.

f. Copy the content of C:\Temp folder to Windows XP client system were remote installation of Trend Micro OfficeScan failed.

g. On Windows XP client system perform the following steps:

i. Login into the system as Administrator or a member of that group.

ii. Open windows explorer and navigate to the folder where OfficeScan_Client_Package.exe and ofcscan.ini is copied.

iii. Double click OfficeScan_Client_Package.exe.

iv. Restart Windows XP client system when the installation is complete.

v. Log in as administrator or a member of that group.

vi. Skip the remaining steps in this procedure and go to “Trend Micro OfficeScan Server Console Configuration” section.

19. Restart all the client machines (Acquisition, Review, and INW Server) and Log in as Administrator or a member of that group on all client machines and wait until the Trend Micro OfficeScan icon in system tray changes to blue with a green tick mark symbol.

20. Click the Root > Log Off to close.

**Trend Micro OfficeScan Server Console Configuration**


2. Enter the user name and password and click Log on. The Summary screen appears.

3. From the top pane, select the Agents > Agent Management link.

4. On the left side, select OfficeScan Server.

5. From the Settings options, select Scan Settings > Manual Scan Settings. The Manual Scan Settings screen appears.

6. Click the Target tab and select only the following options and uncheck the remaining options:

   o Files to Scan > File types scanned by IntelliScan.
7. Click the **Scan Exclusion** tab and select only the following options and uncheck the remaining options:

- **Scan Exclusion** > Enable scan exclusion.
- **Scan Exclusion** > Apply scan exclusion settings to all scan types.
- **Scan Exclusion List (Directories)** > Exclude directories where Trend Micro products are installed.
- Select **Adds path to** from the drop-down under *Saving the officescan agent's exclusion list does the following:*.
- Enter the `D:\GEMMS\Prucka` and `D:\GEData\Studies` folders one at a time click `+`.

8. Click **Apply to All Agents**.

9. Click **OK** at the *The exclusion list on this screen will replace the exclusion list on the clients or domains you selected in the client tree earlier. Do you want to proceed?* message.

10. Click **Close** to close the **Manual Scan Settings** screen.

11. From the top pane, select the **Agent > Agent Management** link.

12. On the left side, select **OfficeScan** Server.

13. From the **Settings** options, select **Scan Settings > Real-time Scan Settings**. The **Real-time Scan Settings** screen appears.

14. Click the **Target** tab and select only the following options and uncheck the remaining options:

- **Real-Time Scan Settings > Enable virus/malware scan.**
- **Real-Time Scan Settings > Enable spyware/grayware scan.**
- **Files to Scan > File types scanned by Intelliscan.**
- **Scan Settings > Scan compressed files.**
- **Scan Settings > Scan OLE objects.**
- **Scan Settings > Scan OLE objects > Detect exploit code in OLE files.**
- **Virus/Malware Scan Settings Only > Enable Intellitrap.**

15. Click the **Scan Exclusion** tab and select only the following options and uncheck the remaining options:

- **Scan Exclusion** > Enable scan exclusion.
- **Scan Exclusion** > Apply scan exclusion settings to all scan types.
- **Scan Exclusion List (Directories)** > Exclude directories where Trend Micro products are installed.
- Make sure the `D:\GEMMS\Prucka` and `D:\GEData\Studies` folder paths are present in the exclusion list.

16. Click the **Action** tab.

17. Keep the default settings and uncheck the following options:

- **Virus/Malware > Display a notification message on endpoints when virus/malware is detected.**
18. Click **Apply to All Agents**.
19. Click **Close** to close the **Real-time Scan Settings** screen.
20. From the top pane, select the **Agents > Agent Management** link.
21. On the left side, select **OfficeScan Server**.
22. From the **Settings** options, select **Scan Settings > Scheduled Scan Settings**. The **Scheduled Scan Settings** screen appears.
23. Click the **Target** tab and select only the following options and uncheck the remaining options:
   
   - **Spyware/Grayware > Display a notification message on endpoints when spyware/grayware is detected.**
   
24. Click the **Scan Exclusion** tab and select only the following options and uncheck the remaining options:
   
   - **Scan Exclusion > Enable scan exclusion.**
   
25. Click the **Action** tab.
26. Keep the default settings and uncheck the following options:
   
   - **Spyware/Grayware > Display a notification message on endpoints when spyware/grayware is detected.**

27. Click **Apply to All Agents**.
28. Click **Close** to close the **Scheduled Scan Settings** screen.
29. From the top pane, select the **Agents > Agent Management** link.
30. On the left side, select **OfficeScan Server**.
31. From the **Settings** options, select **Scan Settings > Scan Now Settings**. The **Scan Now Settings** screen appears.
32. Click the **Target** tab and select only the following options and uncheck the remaining options:
33. Click the Scan Exclusion tab and select only the following options and uncheck the remaining options:
   - Scan Exclusion > Enable scan exclusion.
   - Scan Exclusion > Apply scan exclusion settings to all scan types.
   - Scan Exclusion List (Directories) > Exclude directories where Trend Micro products are installed.
   - Make sure the D:\GEMMS\Prucka and D:\GEData\Studies folder paths are present in the exclusion list.

34. Click Apply to All Agents.

35. Click Close to close the Scan Now Settings screen.

36. From the top pane, select the Agents > Agent Management link.

37. On the left side, select OfficeScan Server.

38. From the Settings options, select Web Reputation Settings. The Web Reputation Settings screen appears.

39. Click the External Agents tab and uncheck following options, if selected already during installation.
   - Windows desktop platforms
   - Windows Server platforms

40. Click the Internal Agents tab and uncheck following options, if selected already during installation.
   - Windows desktop platforms
   - Windows Server platforms

41. Click Apply to All Agents.

42. Click Close to close the Web Reputation screen.

43. From the top pane, select the Agents > Agent Management link.

44. On the left side, select OfficeScan Server.

45. From the Settings options, select Behavior Monitoring Settings. The Behavior Monitoring Settings screen appears.

46. Click Rules tab, uncheck the following options:
   - Malware behavior blocking > Enable Malware Behavior Blocking
   - Newly encountered programs > Monitor newly encountered programs downloaded through web or email application channels.
   - Event Monitoring > Enable Event Monitoring
47. Click **Apply to All Agents**.

48. Click **Close** to close the **Behavior Monitoring** screen.

49. From the top pane, select the **Agents > Agent Management** link.

50. On the left side, select **OfficeScan Server**.

51. From the **Settings** options, select **Device Control Settings**. The **Device Control Settings** screen appears.

52. Click the **External Agents** tab and uncheck the following options:
   - **Notification > Display a notification on endpoints when OfficeScan detects unauthorized device access.**
   - **Block the AutoRun function on USB storage devices.**
   - **Enable Device Control.**

53. Click the **Internal Agents** tab and uncheck the following options:
   - **Notification > Display a notification on endpoints when OfficeScan detects unauthorized device access.**
   - **Block the AutoRun function on USB storage devices.**
   - **Enable Device Control.**

54. Click **Apply to All Agents**.

55. Click **Close** to close the **Device Control Settings** screen.

56. From the left side pane, select the **Agents > Agent Management** link.

57. On the left side, select **OfficeScan Server**.

58. From the **Settings** options, select **Privileges and Other Settings**.

59. Click **Privileges** tab and select only the following options and uncheck the remaining options:
   - **Scans > Configure Manual Scan Settings.**
   - **Scans > Configure Real-time Scan Settings.**
   - **Scans > Configure Scheduled Scan Settings.**
   - **Proxy Setting > Allow users to configure proxy settings.**
   - **Uninstallation > Requires a password.** Enter a suitable password and confirm password.
   - **Unload and Unlock > Requires a password.** Enter a suitable password and confirm password.

60. Click the **Other Settings** tab.

61. Uncheck all options

   **NOTE:** It is important to clear the following options.
   - **OfficeScan Agent Self-protection > Protect OfficeScan agent services.**
   - **OfficeScan Agent Self-protection > Protect files in the OfficeScan agent installation folder.**
   - **OfficeScan Agent Self-protection > Protect OfficeScan agent registry keys.**
   - **OfficeScan Agent Self-protection > Protect OfficeScan agent processes.**
62. Click **Apply to All Agents**.
63. Click **Close** to close the **Privileges and Other Settings** screen.
64. From the top pane, select the **Agents > Agent Management** link.
65. On the left side, select **OfficeScan Server**.
66. From the **Settings** options, select **Additional Service Settings**.
67. Uncheck all options.
68. Click **Apply to All Agents**.
69. Click **Close** to close the **Additional Service Settings** screen.
70. From the top pane, select the **Agents > Global Agent Settings** link.
71. Select only the following options and uncheck the remaining options:
   
   - **Scan Settings for Large Compressed Files > Do not scan files in the compressed file if the size exceeds 2 MB.** Follow this for **Real-Time Scan** and **Manual Scan/Schedule Scan/Scan Now**.
   - **Scan Settings for Large Compressed Files > In a compressed file scan only the first 100 files.** Follow this for **Real-Time Scan** and **Manual Scan/Schedule Scan/Scan Now**.
   - **Scan Settings > Exclude the OfficeScan server database folder from Real-time Scan.**
   - **Scan Settings > Exclude Microsoft Exchange server folders and files from scans.**

72. Click **Save**.
73. From the top pane, select the **Updates > Agents > Manual Update** link.
74. Select **Manually select agents** and click **Select**.
75. Double-click the appropriate domain name under **OfficeScan Server**.
76. Select client system one at a time and click **Initiate Update**.
77. Click **Root > Log Off** and close the OfficeScan Web Console.

**Trend Micro OfficeScan Post Installation Guidelines**

1. Enable the Loopback Connection. Refer to Enable Loopback Connection for more information.
2. Configure the Computer Browser service. Refer to Configure Computer Browser Service After Anti-Virus Installation on for more information.