

# Oracle® Argus Safety

Minimum Security Configuration Guide

Release 7.0.1

E29119-01

March 2012

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This guide describes essential security management options for the following application:

- Oracle Argus Safety 7.0.1

## 1 Introduction

This guide presents the following security guidelines and recommendations:

- [Post Installation Security Configurations](#)
- [Configuring Folder Access to Web User Account](#)
- [Configuring Log Folders, SQLTimes Path, and Access Permissions](#)
- [Configuring HTTPS](#)
- [Configuring Password Complexity](#)
- [Configuring Case Intake Folders and Security](#)
- [Configuring Security for Interface Web Service](#)
- [Configuring Security for ESM](#)
- [Configuring Security for AG Service](#)
- [Documentation Accessibility](#)

## 2 Post Installation Security Configurations

This document lists the various security configurations required after installing Argus Safety:

### 2.1 Configuring Argusvr2/Argusvr2a Permissions

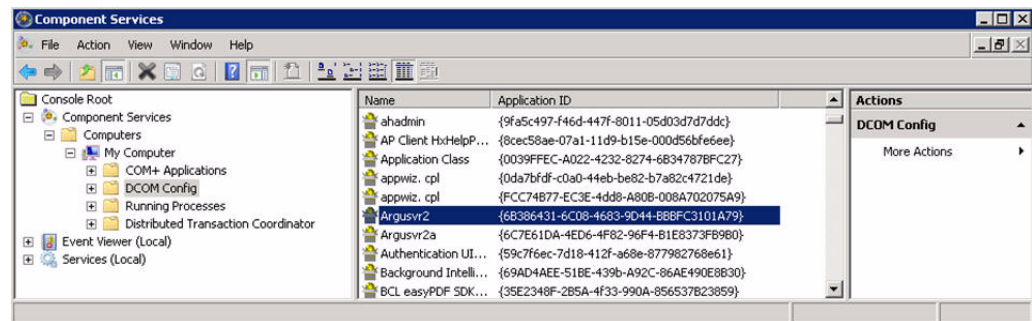
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**Note:** This section needs to be applied to each Web and Report Server.

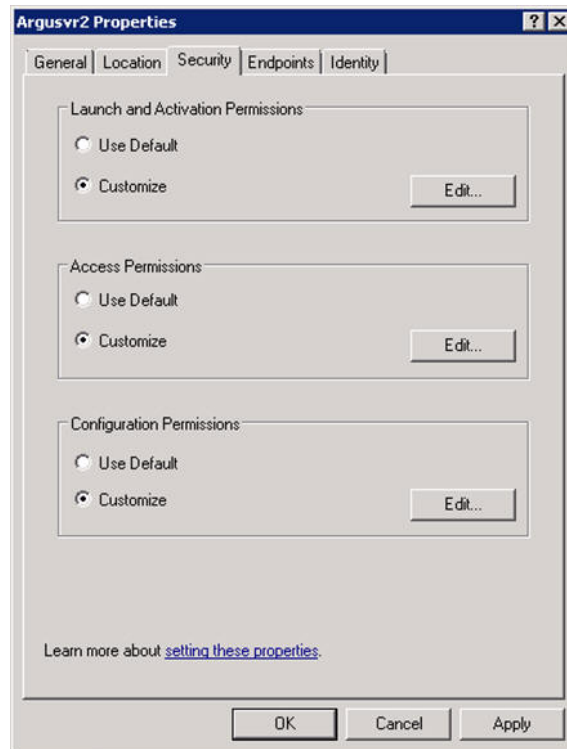
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Execute the following steps to configure Argusvr2/ Argusvr2a permissions:

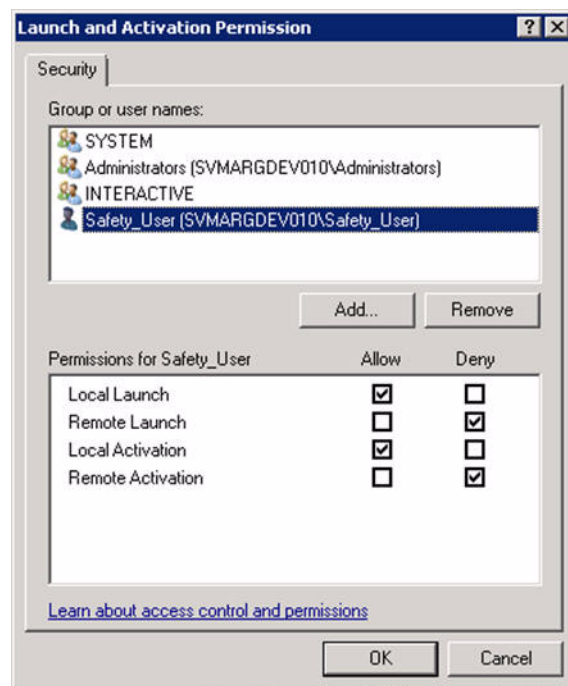
1. Create a domain user which has access to web-servers and all network services that will be configured in Argus such as shared network paths for Intake.
  - In the steps mentioned below, we have used a sample user called 'Safety\_User', throughout this section of the Guide.
2. Go to every web server and configure the following:
  - a. Go to **Control Panel > Administrative Tools**.
  - b. Open **Component Services**.
  - c. Go to **Console Root > Component Services > Computers > My Computer**.
  - d. Select **DCOM Config**:



- e. Change Permissions for Argusvr2 by doing the following:
  - Right-click on Argusvr2 and select Properties.
  - Select the Security tab.
  - Select Customize for these options: **Launch and Active Permissions**, and **Access Permissions**.

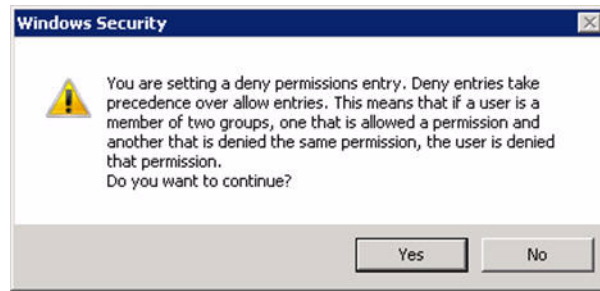


- Click **Edit** under **Launch and Activation Permissions**.
- Add **Domain User** for **Launch and Activation Permissions** with **Local Launch** and **Local Activation** permission selected. Select **Deny** for **Remote Launch** and **Remote Activation**.

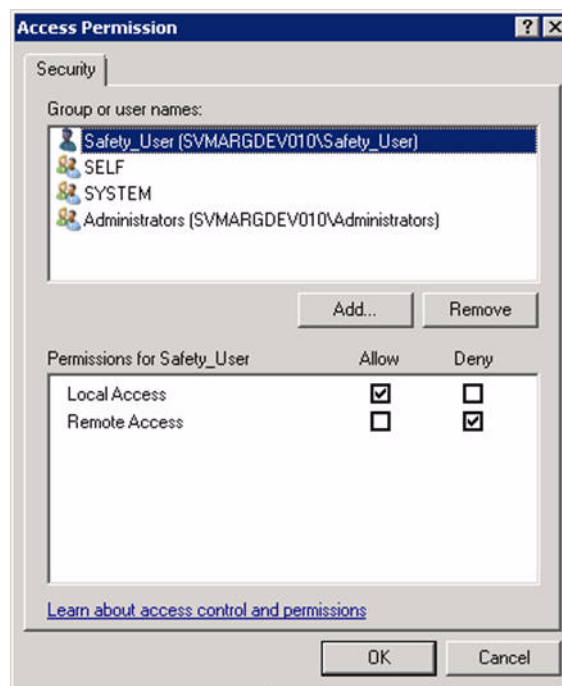


- Click **OK**.

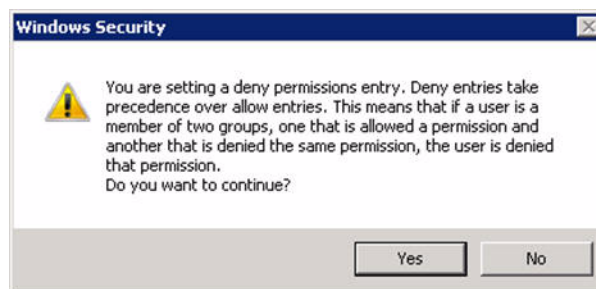
- Click **Yes** when you receive the following **Windows Security** message, regarding Deny permissions:



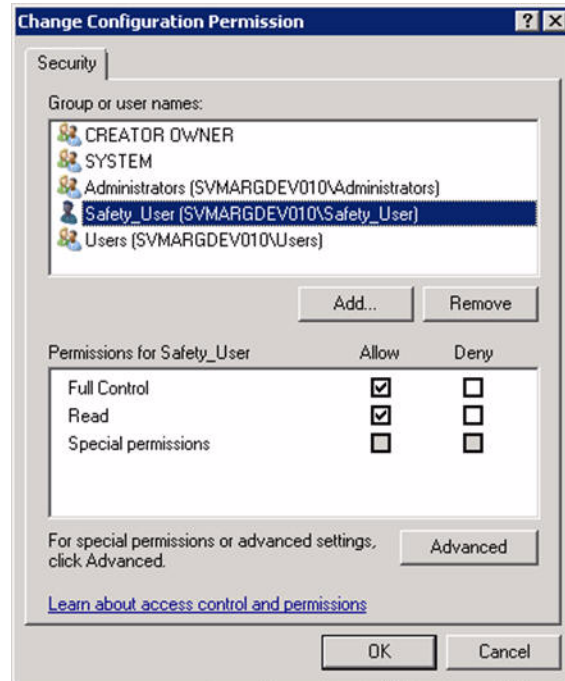
- Click **Edit** for **Access Permissions**.
- Add **Domain User** for **Access Permissions** with **Local Access** permission selected. Select **Deny** for **Remote Access**.



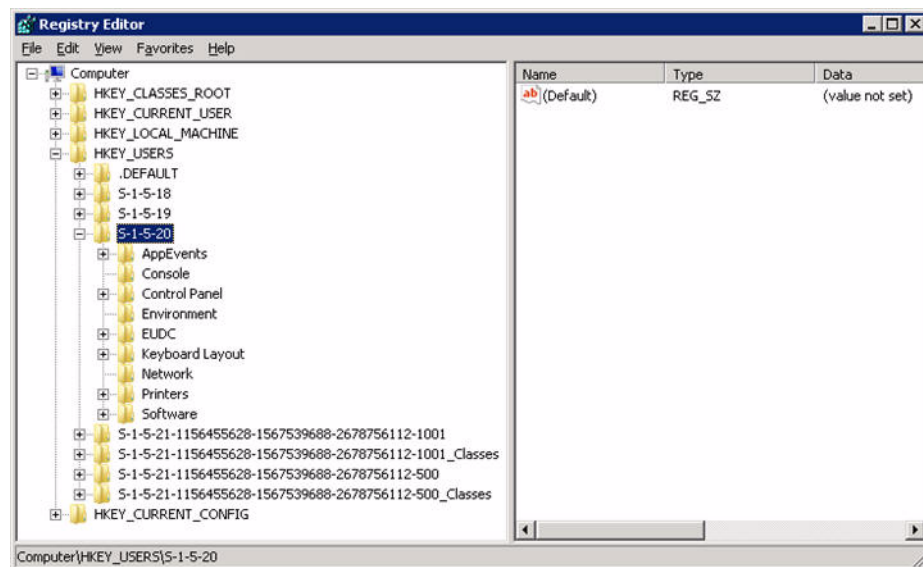
- Click **OK**.
- Click **Yes** when you receive the following **Windows Security** message, regarding Deny permissions:



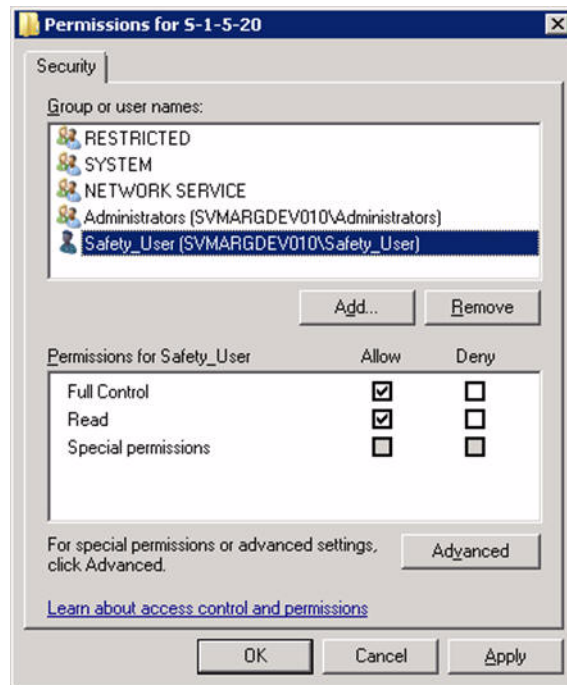
- Click **Edit** for Configuration Permissions.
- Add a domain user for **Change Configuration Permission**, with **Full Control** and **Read** permissions selected.



- Click **OK**.
  - Click **OK** on the **Argusvr2 Properties** dialog to save the changes.
- f. Perform the same changes from Step 2C for Argusvr2a and BCL EasyPDF (BCL easyPDF SDK Loader, bclprnmso).
3. Run the Registry tool in Windows, as shown below:
- a. Browse to the **HKEY\_USERS\S-1-5-20** folder:



- b. Right-click the folder and select **Permissions**.
- c. Add a Safety Domain User with **Full Control** permission.



- d. Give permission to Access IIS Metabase to **Safety\_User** with the following command:

```
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>aspnet_regiis.exe -ga "Safety_User"
```

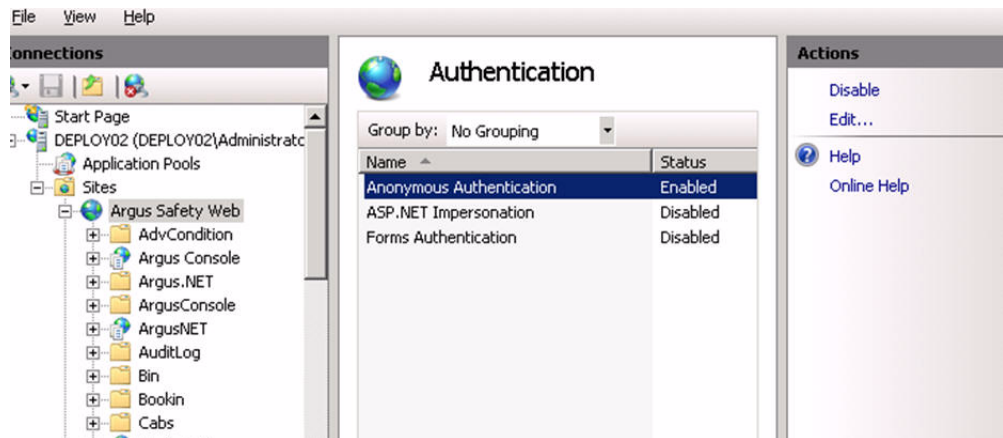
### 3 Configuring Folder Access to Web User Account

We should have a Domain server and all the servers should be configured in that domain.

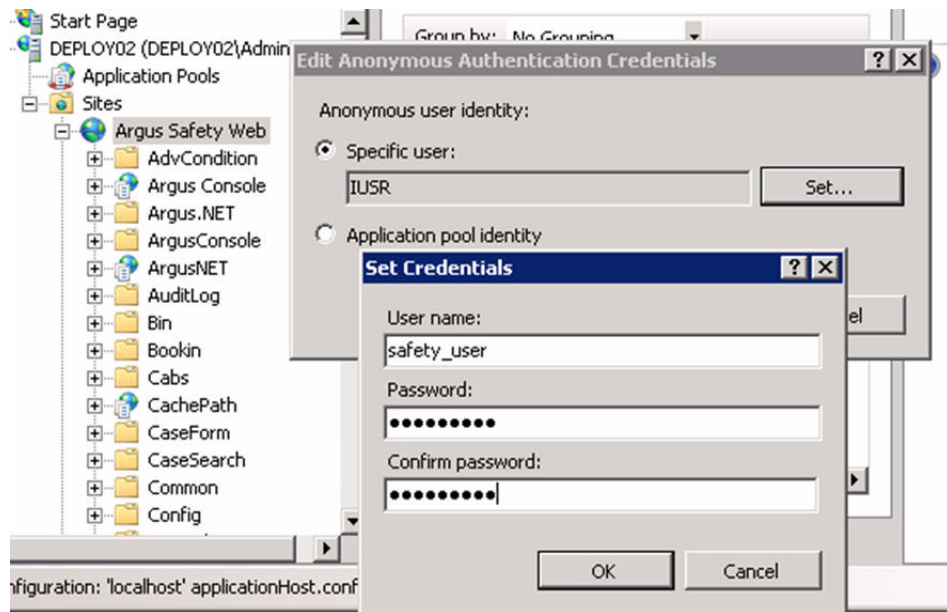
1. On every Web Server/Report Server, Anonymous access should be configured as follows:
  - a. Go to **IIS Configuration Manager > Authentication**:



**b. Edit Anonymous Authentication:**

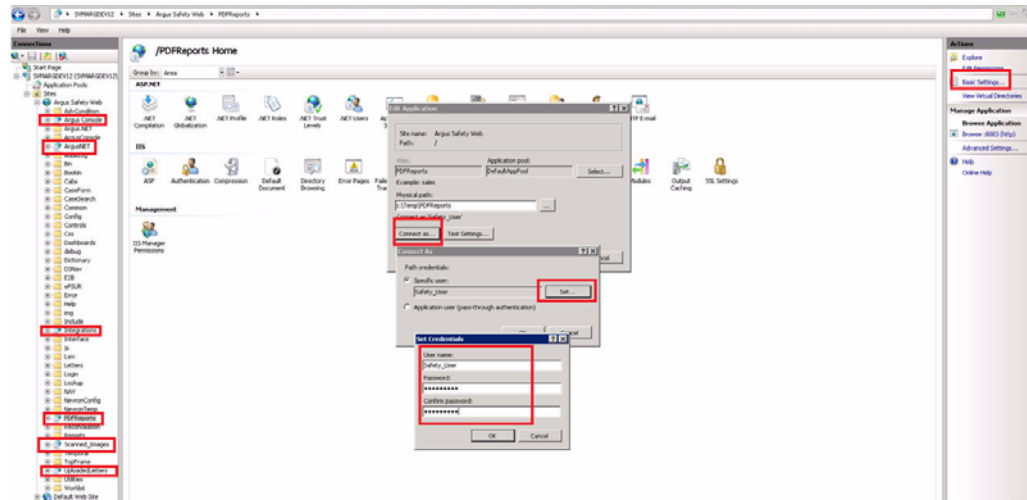


**c. Set user credentials to the Safety domain user (Safety\_User):**



2. On every web server PDFReports, Uploaded Letters, Scanned Images, console, GHM and Integration virtual directory should be configured to connect as Safety Domain User [Safety\_User] as follows:
  - a. Select virtual directory and click on Basic Settings.
  - b. Select Connect as > Set Path Credentials > Enter Safety Domain User [Safety\_User] and Password

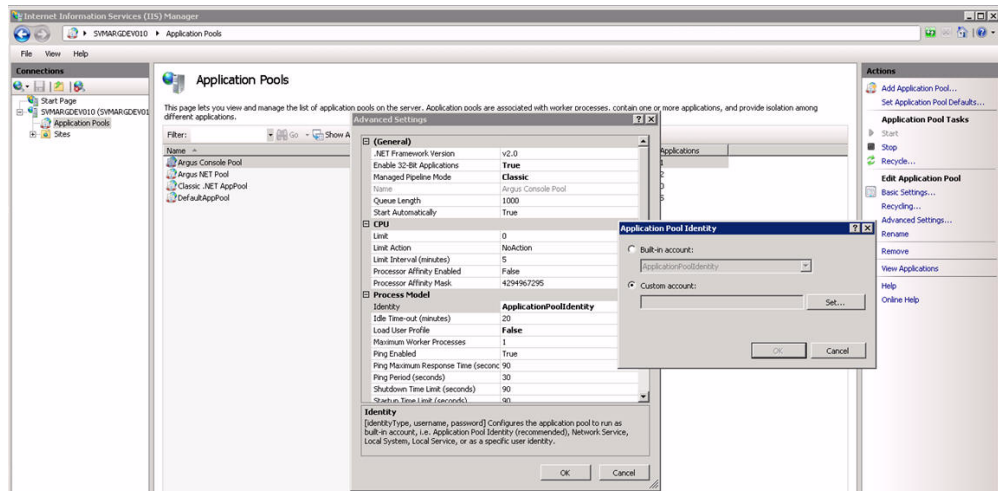




3. Give full access on the following folders or files to Safety\_User:

- C:\Temp\ or Configured Root Folder for temp files
- <ArgusInstallPath>
- <Documentum Installation Path>
- <Windows>\AGService.ini

4. Configure Application Pools.



Configure Argus.net and Argus Console pool to run under the Safety\_User identity.

5. Restart the Web Server.

## 4 Configuring Log Folders, SQLTimes Path, and Access Permissions

## 4.1 Configuring Log Folders

The various modules of Argus Safety Web log information to Log files in the configured folders. The configuration for logging can be found in the *<logConfig>* section in the following files:

```
<ArgusInstallPath>\ArgusConsole\logger.config  
<ArgusInstallPath>\Argus.Net\logger.config  
<ArgusInstallPath>\Argus.Net\Bin\RelsysWindowsService.exe.config  
<ArgusInstallPath>\web.config  
<ArgusInstallPath>\..\Bin\Argusvr2.config  
<ArgusInstallPath>\..\Bin\Argusvr2a.config  
Argus Safety\Agproc.config (on the AG Service Box)
```

By default, the log level is set as 'Error':

```
<add userid="--All--" Enterprise="--All--" logLevel="Error" />
```

This means that the application logs only errors encountered by it on the web server. The log level can be configured to any of the following values:

- Off
- Error
- Warning
- Information
- Verbose

If a higher level log needs to be configured for a specific user or a specific Enterprise, an additional line can be added in the *<LoggerConfigs>* section as shown below:

```
<add userid="thomas" Enterprise="ESN1" logLevel="Verbose" />
```

The above example enables verbose logging for the user "thomas" who belongs to the Enterprise with the EnterpriseShortName "ESN1".

The folder where the log files are generated can be found in the following configuration in the same .config file:

```
<appender name="RollingLogFileAppender"  
type="log4net.Appender.RollingFileAppender">  
  
    <param name="File"  
value="C:\Temp\ArgusLogs\ArgusNet\RelsysWindowsService.log" />
```

Different modules of the application should have different log file names (or paths). By default, the logs are configured to be generated under C:\Temp\ArgusLogs or a subfolder under it.

This folder needs to have Read/Write/Modify permissions to the Domain user with which the Argus Safety Website has been configured to run as.

## 4.2 Configuring SQLTimes Path

The folder where SQLTimes logs are generated is configurable. The configuration needs to be made in argus.ini (present in the Windows folder).

The following example illustrates this configuration:

[Workstation]

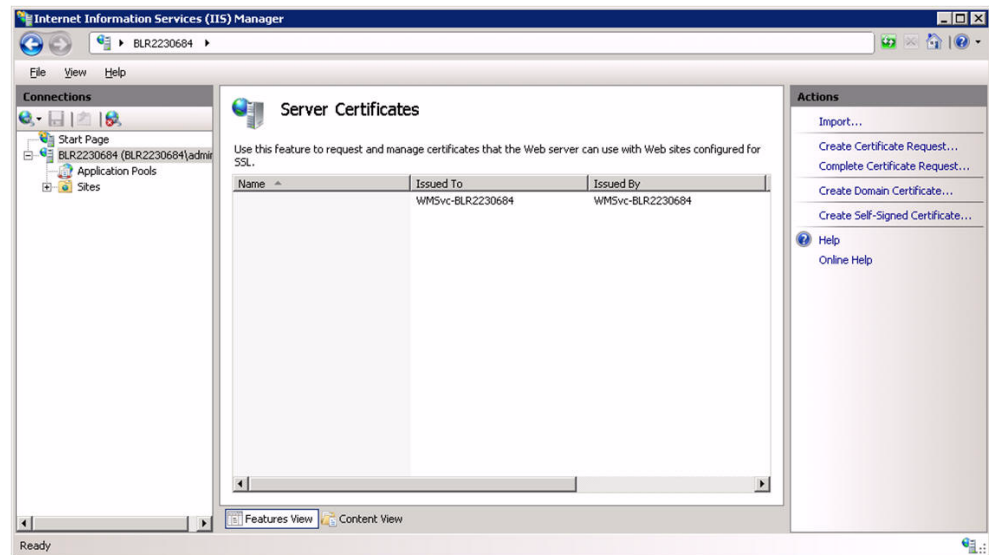
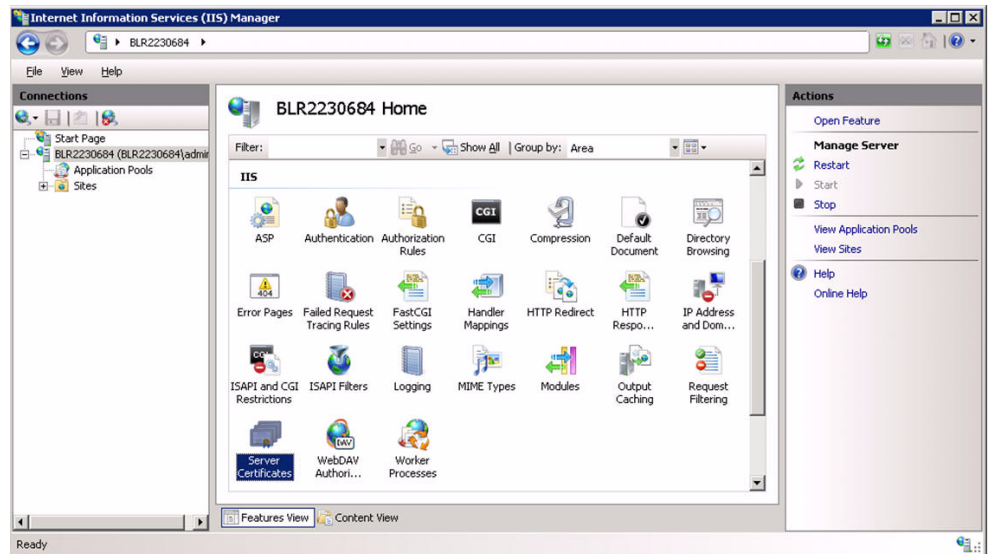
SqlTimesPath=C:\Temp\ArgusLogs\SqlTimes

This folder needs to have Read/Write/Modify permissions to the Domain user with which the Argus Safety Website has been configured to run.

## 5 Configuring HTTPS

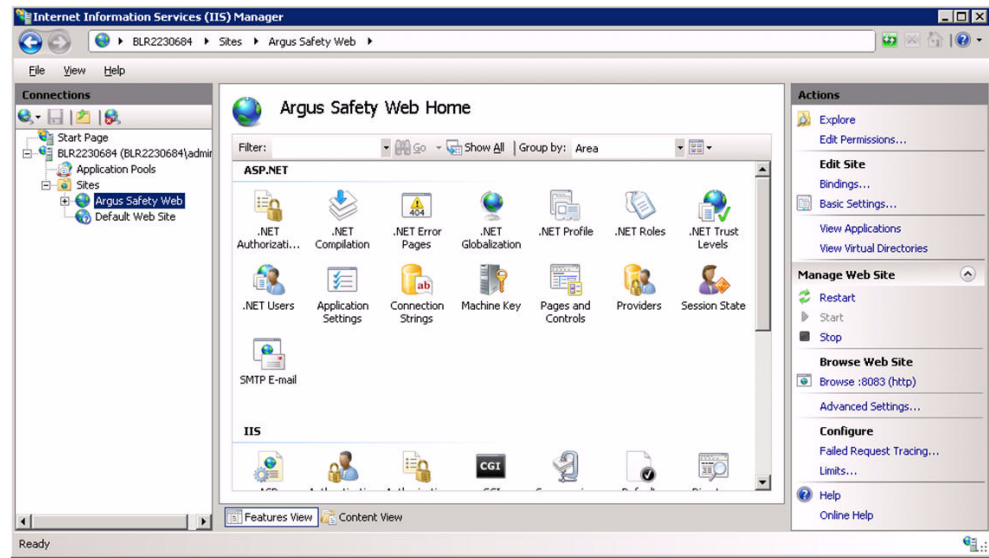
Execute the following steps to configure HTTPS:

1. Login to each Web Server and Report Server and perform the following steps to configure HTTPS.
2. Launch the **Internet Information Services (IIS) Manager**.
3. Select the server node as shown in the diagram below and then open the **Server Certificates** under the IIS section.

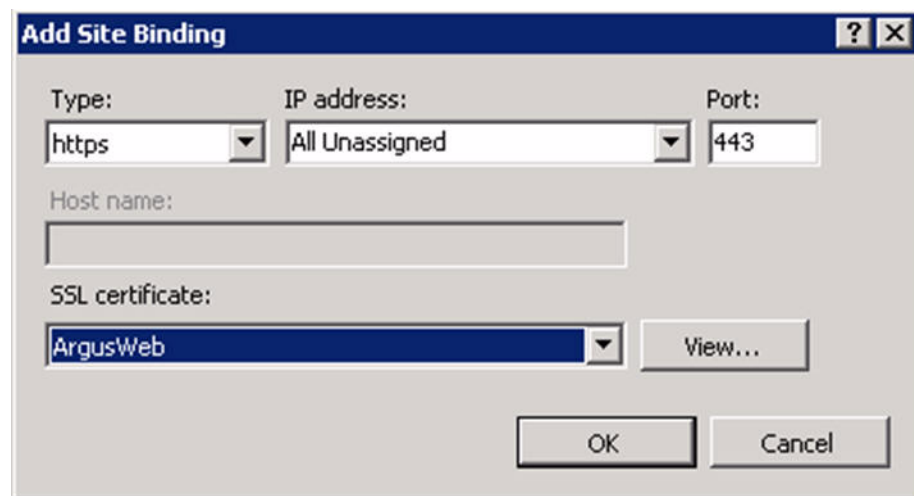


4. Create/import your SSL certificate.

5. After the certificate is created, select **Argus Safety Web** under the **Sites** option and go to **Actions > Bindings**.



6. Add a new **Binding** for the SSL Port. Select **https** as the port to bind and the SSL certificate in the **SSL Certificate** drop-down list that was created previously.



7. Click **OK**.
8. HTTPS is now enabled for Argus Safety. To ensure that the SSL connection is required, select **SSL Settings** under the **Argus Safety Web** node.



9. Select **Require SSL** and click **Apply**.

## 6 Configuring Password Complexity

Execute the following steps to configure password complexity:

1. Log in to Argus Safety with access to Argus Console.
2. Open Argus Console.
3. Go to **System Configuration > System Management**.
4. Select **Security** from the left-hand pane.
5. Configure the following options to control password complexity:
  - a. Number of non-alpha characters in password: The number entered here will ensure that the users enter that many non alpha characters during password updates. Setting this value to a 0 will not require a non-alpha character.
  - b. Minimum number of characters in the password: This defines the minimum length of a password.
  - c. Number of previous passwords that cannot be repeated: This will prevent users from using the same password again after the number entered in this field.

## 7 Configuring Case Intake Folders and Security

The Argus Intake service should be configured to run under a Domain user, who has read-write access onto the IN and OUT folder paths. There are no other security guidelines for Intake.

## 8 Configuring Security for Interface Web Service

The PSL Web Service has been built on top of Microsoft Windows Communication Foundation. The following gives a very detailed understanding of the concepts of

WCF Security and the various configurations that are possible to configure security on the WCF Web Service.

Execute the following steps to configure the PSL Web Service to use Transport and Message Security:

1. Locate the `<system.serviceModel>` section in the `<ArgusInstallPath>\Integrations\web.config` file.
2. By default, the `bindingConfiguration` used by the Service Endpoint is `wsHttpUnsecure`.
3. Security can be configured in the same binding Configuration or a new configuration can be created. The steps mentioned in this section uses a new binding configuration called `wsHttpSecure`.
4. To achieve this, modify the endpoint configuration to use the new `bindingConfiguration`:

```
<services>
  <service
behaviorConfiguration="Relsys.InterfaceLibrary.RelsysServiceBehavior"
name="Relsys.InterfaceLibrary.RelsysService">
    <endpoint address="" binding="wsHttpBinding"
contract="Relsys.InterfaceComponents.IRelsysService"
bindingConfiguration="wsHttpSecure"/>
  </service>
</services>
```

5. Create a new binding configuration under the hierarchy `<bindings><wsHttpBinding>`, as shown below:

```
<bindings>
  <wsHttpBinding>
    <binding name="wsHttpSecure">
      <security mode="TransportWithMessageCredential">
        <transport clientCredentialType="Certificate"/>
        <message clientCredentialType="Certificate" />
      </security>
    </binding>
  </wsHttpBinding>
</bindings>
```

The different values available for the `clientCredentialType` for transport and message elements can be found in the WCF documentation mentioned at the beginning of this section.

- 6. Modify the Service Behavior configuration as follows:**

```
<behaviors>  
  <serviceBehaviors>  
    <behavior name="Relsys.InterfaceLibrary.RelsysServiceBehavior">  
      <serviceCredentials>  
        <clientCertificate findValue="00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
00 00 00 00 00 00 00" x509FindType="FindByThumbprint" >  
          </clientCertificate>  
          <serviceCertificate findValue="00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

```

00 00 00 00 00 00 00" x509FindType="FindByThumbprint"/>
    </serviceCredentials>
  </behavior>
</serviceBehaviors>
</behaviors>

```

In the above configuration, configure the findValue and x509FindType according to the Server Certificate and the Client Certificate.

## 9 Configuring Security for ESM

The Argus Interchange service should be configured to run under a Domain user. This domain user should have appropriate privileges to some Interchange related folders, as given below:

- <Interchange Service Install Path>\DTDFiles - Read-Write
- Outgoing Folder - Read-Write
- Attachment Outgoing Folder - Read-Write
- Incoming Folder - Read
- Log Folder - Read-Write

For E2B Viewer, the folder referred to as the Template path in Argus.ini (<ArgusInstallPath>\E2BViewer\Templates\) should be given Read-Write access. This folder is used for CIOMS and MedWatch views.

## 10 Configuring Security for AG Service

For AG Service to correctly show the status of all the processes on AG Service Configuration screen, the Safety\_User needs R/W access to AGService.INI file.

## 11 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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