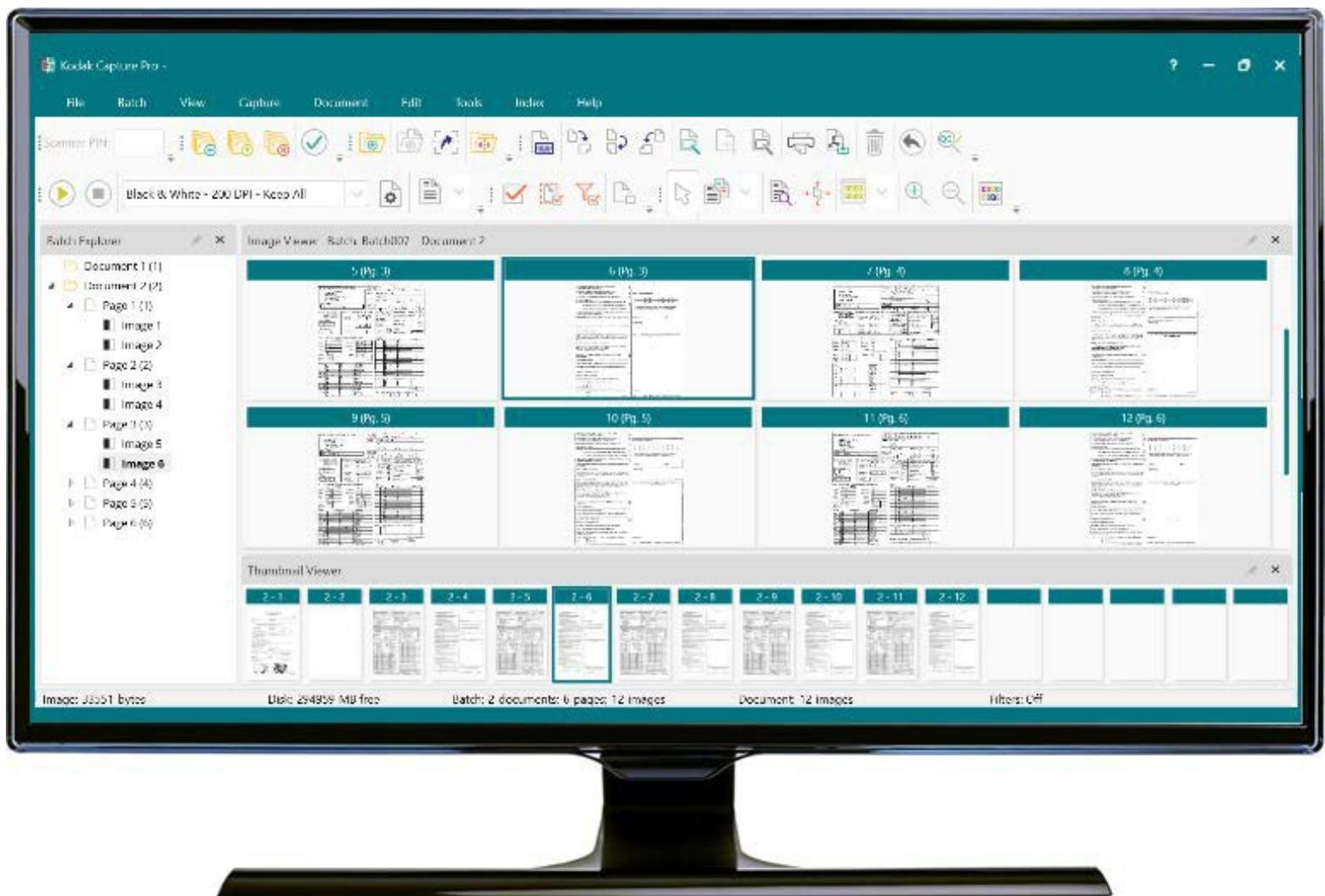


# Kodak

## Capture Pro Software

### Network Edition: System Guide





# Introduction - Capture Pro Network Edition

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This chapter provides an introduction to Capture Pro Network Edition and some of its unique features.

## Purpose

Capture Pro Software Network Edition enables Capture Pro workstations to interoperate with each other using a set of Network Edition servers for the purpose of:

- Remote Administration which automatically shares setups between connected workstations
- a centralized License server which enables dongle-free operation of clients
- centralized batch counters
- Remote Output for off-loading computer-intensive output jobs to output servers

## Remote Administration (RA)

Capture Pro Software maintains its various “setups” (Job, Page, User, etc.) in files. Capture Pro Software Network Edition allows workstations to share a global, common set of setups by replicating these files between participating workstations. If these workstations do not require setup changes or access to other Remote Administration functions (i.e., batch counters), some operations can be performed offline.

All workstations in a Network Edition workgroup share the same setup files. Local, unique setups that are specific to a workstation are not supported. Although the Remote Administration is designed for casual use by a small number of administrators, safeguards are built in to prevent inadvertent data overwrites by users updating the same setup in parallel.

### Initial synchronization

When a Capture Pro Software Network Edition client initially starts up, it will synchronize with its RA server. This may take several minutes.

During synchronization:

- Any setups on the server that do not exist on the client will be copied to the client.
- Any setups on the client that do not exist on the server will be copied to the server.
- If a duplicate setup exists, the server’s setup will overwrite the client’s setup.

When this operation is successful, periodic updates will maintain the common setups across workstations and it is not necessary to resynchronize when the application restarts.

If any errors occur during synchronization, the client will exit and the operation will be restarted.

### Setup updates

Once synchronized, Network Edition clients will periodically poll the RA server to check for updates.

Each specific setup is *versioned* and a database is maintained for each client indicating every setup and current version. If a new setup or newer version of an existing setup is detected on the server, it will automatically be downloaded to the client.

## Data conflicts

Versioning is also used to prevent data conflicts during the creation or update of a setup. When a user creates or changes a setup, the following occurs:

1. The user opens a Setup dialog box.
2. The system checks to be sure no one is currently changing setups. Since some files are shared between setup types, only one workstation at a time is allowed to perform updates. If any setups are open, the user will be prompted to try again later.

NOTE: An override option is available but is not recommended. This will allow a user to *steal* the lock but it may result in data conflicts.

3. The user saves the new or changed setup.
4. The update service verifies that the workstation has the most recent version of the setup (if it previously existed).

If the service detects that the server has a more recent version, a Data Conflict error will be returned to the application. Although this is rare, if this does happen, it is a result of a user *stealing* the setup or some other background update that occurred as a side effect of some other processing. The user can:

- select another name for the setup or discard their changes, or
  - exit the Setup window, wait for the conflict to be resolved and reattempt the change following an update cycle.
5. The update service will lock the setup which prevents other workstations from modifying it while the upload is in progress. If the update service cannot obtain a lock (another user is in the process of updating the setup) a Data Conflict error will result. Remedies for this are the same as described in Step 2.
  6. If no data conflicts occur, the setup will be uploaded to the server which will then increment the version for the specific setup files.
  7. Other workstations will detect the more recent version(s) on the server and download it.

Although changes are submitted from a client to the server when they are made, downloading new setups from the server to the client occurs periodically and is not event-driven. Therefore, a small delay will occur between the time a new setup is created and the time it is replicated and becomes visible on other workstations. It is recommended that at least 2 minutes be allowed for this process to occur. During this time, data conflicts may persist but simply waiting for the update cycle to occur should bring things back into synch and allow update operations to proceed. Following a data conflict, it is recommended that users close out any setup windows and reopen the setup after waiting to allow data refresh to occur.

## **Deleting and renaming setups**

Currently, setups cannot be deleted or renamed on client workstations because it is impossible to detect if other workstations in the NE workgroup have the setup in use.

## **Centralized Batch counters**

The Remote Administration server supports a central batch counting facility, both at a system level and job level.

These counters are shared throughout the NE workgroup. When a batch is created, if a batch counter is included in the batch name formula, the NE client will request the next counter from the RA server and it will be automatically incremented.

Some changes have been made to the NE client to accommodate this. Since the counter is global, users can no longer change batch counters when they create a new batch. The batch name window will be “grayed out”. This implies that jobs which include batch counters in batch name formulas cannot be used in offline mode.

In Network Edition, no one can change the system-level batch counters. Job-level batch counters can still be reset through the job setup; however, use caution when doing this to avoid batch name conflicts.

## Remote Output

The optional Remote Output server transfers entire batches to remote servers for output processing. This feature off-loads processor-intensive output tasks (like creating searchable PDF files) from client workstations. In benchmark tests, remote output has been demonstrated to improve overall system throughput significantly for processor-intensive output jobs compared to local processing or shared folder-based workgroups.

Remote Output is selected on a per-job basis using the Setup menu. Jobs can be assigned to specific servers, or servers can be selected from a list in round-robin fashion.

When a Remote Output batch is output:

- the local output processor detects that it is a remote batch, transfers it to the remote output server, signals the remote server, and sets its local status to “processed”.
- the Remote Output server processes the batch and updates the batch information file.
- the Remote Output server detects changes in the status of the remote batch on the originating client and transfers status information and logs to the client. If the batch is deleted after processing, it will also be deleted on the originating workstation. However, the batch history will be maintained on the Capture Pro Software Server until it is explicitly removed.

If any errors occur during processing, corrections must be made on the originating workstation and the entire batch resubmitted. No Capture Pro client user interface is available on the server.

## Output server configuration

Remote output servers are not self-configuring. Many job setups are dependent on the presence of various plug in's, the existence of particular paths and directories, user dictionaries, and other optional manually configured parameters. The system administrator must configure the Remote Output server so that all necessary support software and other configurations are in place to support the job mix that is intended to be processed on the server.

## License server

The License server provides on-demand licenses to NE client workstations

Licenses are requested and renewed automatically and transparently. A user will be informed only if a failure occurs.

Upon receiving a license request, the License server will look for an available license. The License server maintains a set of licenses at various scanner levels. When the License server receives a license request, it will search the license table for a license that matches the exact scanner level requested.

- If no license is available, the License server issues the next highest available license. Licenses are issued in the following rank order: **A, B, Indexing, C, D, DX, E, F, G**. Therefore, if all A's have been issued, a request for an A license may be fulfilled with a B license or higher.
- Auto Import license requests may result in the issuance of an Auto Import "Edition" license (which only allows Auto Import) or an E or above (which allows Auto Import as well as enabling appropriate scanners).
- If none are available, the request will fail.

Once a client (or output server) receives a license it will be automatically renewed. Administrators can monitor available licenses, when they were granted, and when they will expire using the Capture Pro Dashboard. Sometimes if a workstation goes into "sleep" mode a license renewal may fail. In this event, a message will be displayed informing them that the license renewal failed, but after clicking **OK** a new license will be obtained automatically. Normally, clients renew their licenses transparently in the background.

Each license is granted for a specific duration. If it is not renewed within this period, the client will be unable to operate. This duration is currently set to 10 minutes. The client will continue to operate for this interval while issuing warnings that the license is due to expire.

If a license fails to renew due to sporadic communication failures or other issues, it should only be necessary to acknowledge any error messages and the client will automatically obtain a new license. Some errors may require an application reset.

## Fail over

Network Edition clients have the ability to "fail over" without reconfiguring software. If a server fails, an administrator can enable a backup server which has been pre-configured into each clients' server map and it will automatically find the server.

- **License server fail over** is largely transparent. An initial license renewal failure will be observed, but after a user clicks **OK**, the request will automatically fail over to the next License server on the list. No further user action is required.
- **Remote Administration server fail over** is less transparent than License server fail over. As described above, all workstations in a NE workgroup share identical setups. When moving to a different server, clients will have to perform the initial synchronization operation again to bring them into synch with the new server.

Therefore, when a new server is started up, it should be done with the full awareness of all participating clients which must all be restarted in order for the initial synchronization to occur.



# 1 Administration

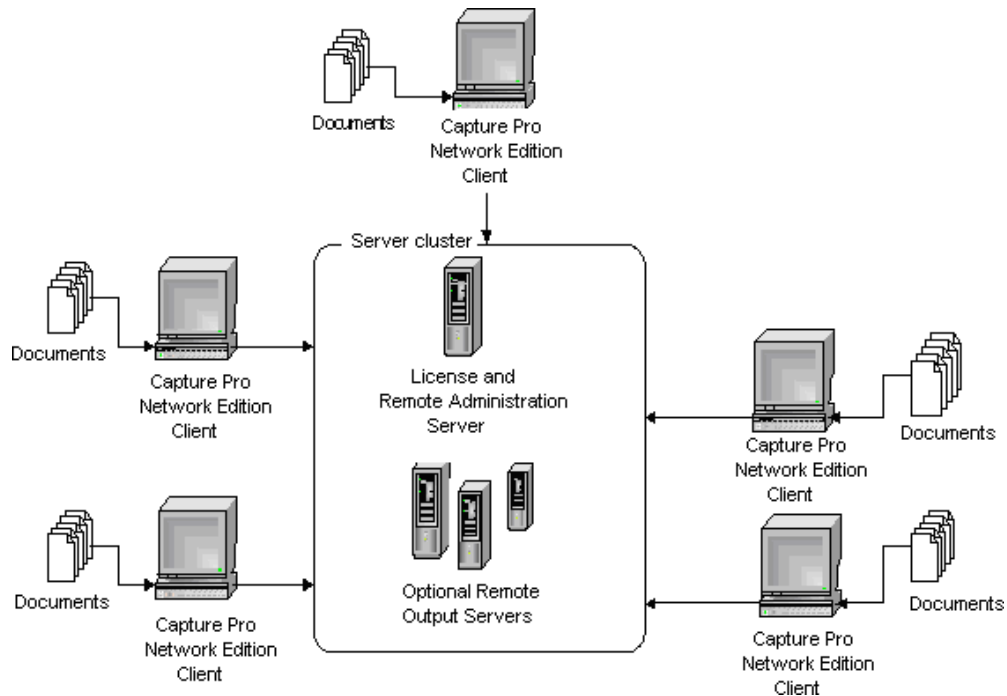
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This chapter provides the required installation and configuration steps to set up a Network Edition workgroup.

## Network Edition overview



The *KODAK* Capture Pro Software Network Edition enables Capture Pro workstations to interact with web-based Internet Information Services (IIS) Network Edition servers to:

- automatically share setups between connected workstations (Remote Administration)
- off-load computer-intensive output jobs to output servers (Remote Output)
- provide centralized management of licenses, batch monitoring, and other operations through a web-based “dashboard” (CPDashboard)

There are two types of servers that support the Network Edition:

- Capture Pro Software Server (the Main server). This supports Remote Administration (RA), License Service (LS), Capture Pro Dashboard and Remote Batch Management features.

One of these servers is required in each Capture Pro Network Edition workstation workgroup.

Following server installation a customer-specific license file will be loaded in the License server to enable any Remote Output servers and Capture Pro Software clients.

- Capture Pro Software Output Server. This server supports Remote Output (RO) capabilities. This package is an optional part of the Network Edition configuration, which may include one or many RO servers.

A Server Map (a xml file) provides path information that allows communication between the workstations and servers. This Server Map is created before installing Capture Pro Software through the use of a special Server Map Manager Utility.

Network Edition servers use firewall friendly protocols (web services sending SOAP messages over HTTP port 80 or HTTPS port 443). Any workstation which can browse to a web page served by any Network Edition server will support Network Edition services. No special firewall configuration on client workstations is required as most firewalls are pre-configured to allow web page browsing.

The Network Edition server PC must be configured to allow Port 80 for HTTP communication or Port 443 for HTTPS communication.

## System requirements

Before installation and configuration, verify that your system meets the system requirements as outlined in our product specifications on the Kodak Alaris website at the following link:

[Capture Pro Software Support Web Page](#)

## Installation and configuration

The following steps are required for setting up a successful installation and configuration of Capture Pro Software Network Edition.

### Step 1: Site planning

Identify all servers which will be included in the configuration. *This information will be used in Step 5 when creating the server map.*

Servers will be identified by:

- **Server name:** a user-friendly name which will be used in the Server Map to identify the server. This can be the actual computer name. This name is just a “label” used to help associate a particular server with its function and hostname.
- **Hostname:** computer name, IP address, or Fully Qualified Domain Name used in URLs to establish network connections.
- **Function (server type):** *License server and Remote Administration server (Main server) or Remote Output server.*

NOTE: Gigabit Ethernet connections between client and servers are recommended for Remote Output, and 100 MB connections are required for all services.

**IMPORTANT:** *Network Edition servers should not be open to the internet.*

### Step 2: Server setup and using a Domain User Account

Server setup is a customer responsibility. See *Appendix A – Configuring Windows Servers and IIS* for details.

By default, a local user account named **KCPNServiceUser** will be added to the *IIS\_IUSRS* group on the server during the installation of the License Server.

There is an option, however, to use a domain user account instead. Follow these instructions:

1. Create a configuration file called **Cred.ini** for the domain user account with the credentials as shown below:

```
[IISUserCredentials]
Username = "domainName\userName"
Password = "password"
```

2. Copy the **Cred.ini** file to the same folder where the Capture Pro installer is located on the Network Edition Server, the optional Remote Output Server, and all of the client workstations.

License and Admin Server	<b>CapProNEServerSW_x_x_x.exe</b>
Remote Batch Output Server	<b>CapProNEOSMSW_x_x_x.exe</b>
Network Edition Client	<b>CapProSW_x_x_x.exe</b>

3. When the Admin runs the **.exe** to install the package, the installer reads the **Cred.ini** file and uses those domain credentials to add Identity to Network Edition-related configuration files and completes the installation.

**NOTES:**

- If either of the Username or Password is empty, the installer will display an error message.
- If both the Username and Password are empty (or) the if the **Cred.ini** file is not present in the same directory as the installer, then the installer will proceed with the installation using the local user account *KCPNIServiceUser*.
- The **Cred.ini** file can be removed from the client PCs and the server after installation.

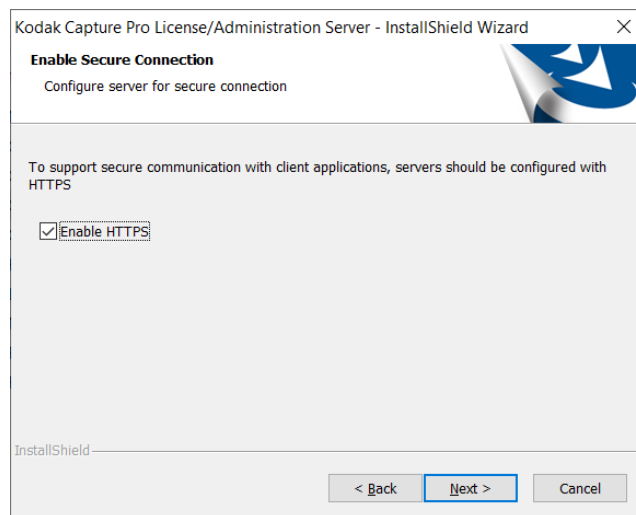
### Step 3: Installing the License server and Remote Admin server software

The Capture Pro Network Edition Server Software may be downloaded from the *Network Edition Server* section of the Capture Pro Software Drivers and Software web page: [Capture Pro Software Drivers and Software](#)

1. Start installation:
  - Download, save and run **CapProNEServerSW\_x\_x.exe** from the web page.
2. At the *Choose Setup Language* screen, select the desired language and click **Next**.
3. On the *License Agreement* screen, click **I accept the terms of the license agreement** after you have read the License Agreement. Select whether to **Send usage data** or **Do not send usage data**. Click **Next** to display the *Hardware License Key* screen.
4. Select **I will not be using a USB Hardware Key** and click **Next**.

NOTE: If you purchased the optional USB Hardware Key, select **I have inserted my USB Hardware Key** and click **Next**.

The *Software Serial Number* screen will be displayed.
5. Enter your **Software Serial Number**. If you don't have a Software Serial Number but instead purchased a Capture Pro subscription, check **I would like a Trial or Subscription license**. Click **Next** to open the *Product Registration* screen
6. Enter your Registration ID, if you previously installed Capture Pro and received a Registration ID. If you do not have a Registration ID, click **Next** to open the Capture Pro Registration Form.
7. Fill out the form and press **Submit**. When your Registration ID is displayed, click **OK** to return to the installation. Remember to save your Registration ID so you can use it for future installations of Capture Pro Software.
8. The *Get License* screen will be displayed while the license is being obtained from the KODAK Alaris License server.
9. To enable a secure client/server connection, select the **Enable HTTPS** checkbox.



NOTE: If you are upgrading existing software, the current connection mode will be retained. To enable an HTTPS connection, refer to Step 6 below: *Upgrading servers from HTTP to HTTPS*.

10. Click **Next**. Installation will begin.

11. At the *InstallShield Wizard Complete* screen, click **Finish**.

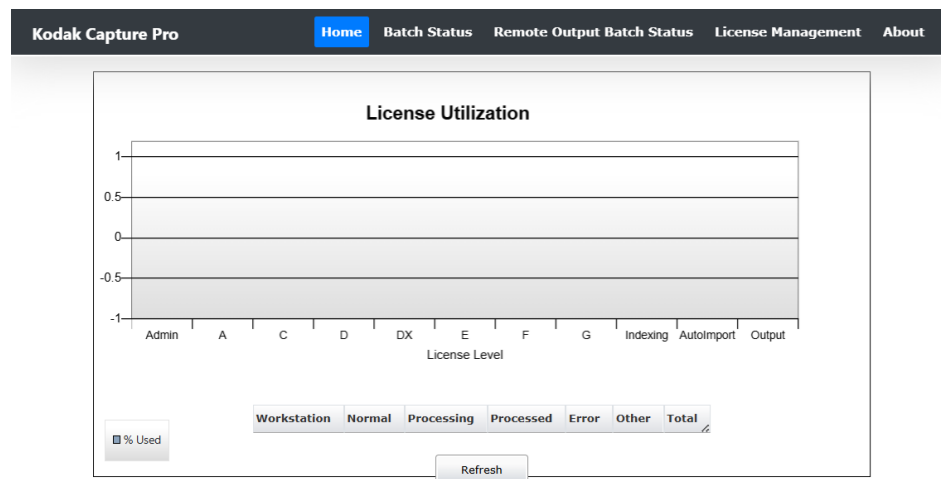
## Step 4: Verify your Network Edition license

1. Log in to an administrator account directly on the License server.
2. Start your web browser and type in the following:  
<http://localhost/KCSNEDashboard/CPDashboardTestPage.aspx#/Home>,

or if **HTTPS is enabled**, type in:

<https://localhost/KCSNEDashboard/CPDashboardTestPage.aspx#/Home>, or  
<https://hostaddress/KCSNEDashboard/CPDashboardTestPage.aspx#/Home>

where hostaddress is the server name or the domain host name associated with the CA certified SSL certificate. The Capture Pro Dashboard will be displayed.



3. Select License Management to verify the number of licenses available in each group.

**NOTE:** The Capture Pro Network Edition installer is shipped with a Self-Signed certificate, which is installed by default when enabling HTTPS in your installation. It is recommended to replace this default certificate with a CA certified SSL certificate (see next Step 5).

If you navigate to the dashboard while the default certificate is still in place, your web browser will display an error. To bypass the error and see the dashboard content and to verify your license, select **Continue to this website (not recommended)**.

## Step 5: Configuring IIS site binding with a CA certified SSL certificate

When HTTPS is enabled, it is recommended to configure IIS with a CA certified SSL certificate. Please refer to "Configuring IIS HTTPS site binding with a CA certified SSL Certificate" in Appendix A.

If you choose this option, after installation of *License and Remote Admin server* software and *Remote output server* software, ensure that there is only one "https" type binding for port 443 in the IIS site bindings (if any other SSL certificates are already installed).

If *License and Remote Admin server* software and *Output Server* software are installed on different Server machines, then IIS configuration with a CA certified SSL certificate must be performed on both machines. If a CA certified SSL certificate is added to IIS at a later point (after the installation of *License and Remote Admin server* software and *Output Server* software), KODAK Alaris recommends:

- uninstalling the software on both server and client.
- regenerating the KCSerMap.xml file with the newly added SSL's host name and reinstall the software on both server and client.

## Step 6 (optional): Upgrading servers from HTTP to HTTPS

You have the option to upgrade the *License and Remote Admin server* software and the *Remote Output server* software from HTTP to HTTPS by running **KCSNetEditionHTTPSCfgTool** from the installed location. The default location is: *C:\Program Files (x86)\Kodak\Tools\HTTP Configuration Tool*.

Before running the tool KCSNetEditionHTTPSCfgTool, ensure that both the *License and Remote Admin server* software and the *Remote Output server* software are upgraded to the same version. If the CPDashboard is open in any browser, close the browser before configuring to HTTPS.

If the *Remote Output server* software is installed on a different server, then copy **KCSNetEditionHTTPSCfgTool** from the *License and Remote Admin server* to the *Remote Output server* and run the program.

If either the *License and Remote Admin server* or the *Remote Output server* is configured to HTTPS, it is required that the other server is also configured to HTTPS.

After upgrading to HTTPS, the Server Map file on all client PCs (and the Remote Output Server, if installed) must be updated to reflect the HTTPS connection. By default, the Server Map file will be named **KCSerMap.xml** and is located in the *C:\Program Files\Kodak\Capture Pro\System* directory. For example:

```
<ConnProtocol>HTTPS</ConnProtocol>  
<ConnPath>https://w177cnep19/KCSNEAdminService/NEServerService.svc</ConnPath>
```

NOTE: Existing Capture Pro NE Client software should be upgraded to the same version of the *License and Remote Admin server* software in order to support an HTTPS connection.



## Step 7: Installing the License Manager

The License Manager is used to maintain your Capture Pro Software Network Edition license. The License Manager communicates with the KODAK Alaris License Server to update an existing license, release an existing license or replace a lost license.

The License Manager may be downloaded from the *Network Edition Server* section of the Capture Pro Software Drivers and Software web page:

[Capture Pro Software Drivers and Software](#)

Download, save and run **KodakLicenseManager\_x.exe**.

## Step 8: Server Map configuration

The server map is an XML formatted file named *KCSServerMap.xml*. The Server Map contains the name and URLs of the License server, Remote Administration server and optional Remote Output server.

The Server Map is constructed using the Server Map Manager tool, which is included in the Capture Pro Software Network Edition distribution.

Before running the tool, you will need to know the following:

- **Server Name** — user-friendly label for the server.
- **Hostname** — the machine name, IP address, or Fully Qualified Domain Name of the server.
- **Function** --- the function of that server, either **Main** (License and Remote Administration) or **Output** (optional Remote Output).

This information will be used as input to the Server Map Manager tool for generation of the Server Map which will be used in later steps.

Use the information from "Step 1: Site planning".

See *Appendix B, Server Map* for using the Server Map Manager tool.

## Step 9: *Optional:* Installing the Output Server

Output servers are not self-configuring. Many job setups are dependent on the installation of various plug-ins, the existence of particular paths and directories, or other optional manually configured parameters. It is the responsibility of the system administrator to configure the Output server so that all necessary support software and other configurations are in place to support the job mix that is intended to be processed on the server.

### **IMPORTANT:**

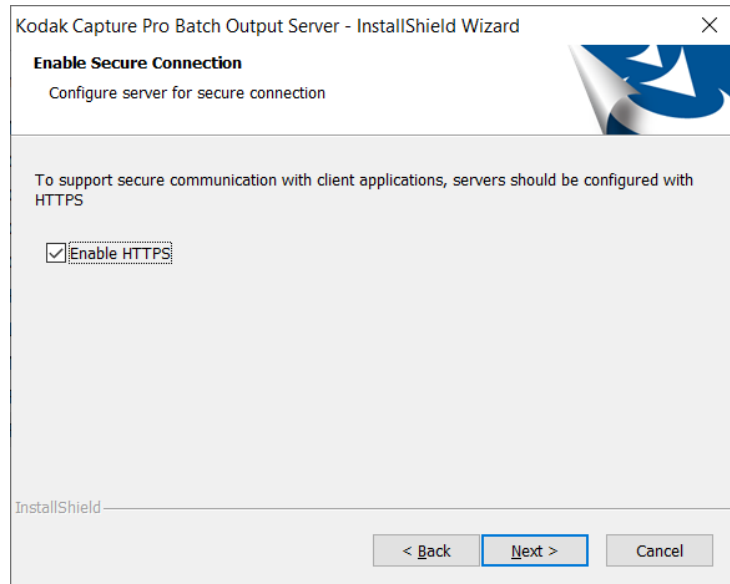
- *The Remote Output server can now be installed on the same server as the Capture Pro Server Software. However, it is still recommended, for overall system performance, to have the Capture Pro Server and Remote Output Server on separate servers.*
- *If the Remote Output Server is installed on the same server as the Capture Pro Server Software, do not uninstall the Remote Output Server or the Capture Pro Server Software will no longer work. You will need to uninstall and re-install the Capture Pro Server Software in order to get the Capture Pro Server working correctly.,*

The KCSServer Map.xml file created earlier must be available through the file system while installing the Capture Pro Output Server Software.

The Output Server Module Software may be downloaded from the *Network Edition Server* section of the Capture Pro Software Drivers and Software web page: [Capture Pro Software Drivers and Software](#)

1. Start installation:
  - Download, save and run CapProNEOSMSW\_x\_x.exe from the website.
2. At the *Choose Setup Language* screen, select the desired language and click **Next**. The *License Agreement* screen is displayed.
3. Click **I accept the terms of the license agreement** after you have read and agreed with the terms of the Software License Agreement. Select whether to **Send usage data** or **Do not send usage data**. Click **Next**. The *Server Configuration* screen will be displayed.
4. Click **Browse** and locate the server map file (KCSServerMap.xml) that you created using Appendix B and click **Open**, then click **Next**.

5. To enable a secure client/server connection, select the **Enable HTTPS** checkbox.



NOTE: If License server and Remote Admin server software are installed with the HTTPS option enabled, then check the Enable HTTPS option here for Remote Output server software, as the configurations must be identical.

NOTE: If you are upgrading existing software, the current connection mode will be retained. To enable an HTTPS connection, refer to “Configuring IIS HTTPS site binding with a CA certified SSL Certificate” in Appendix A.

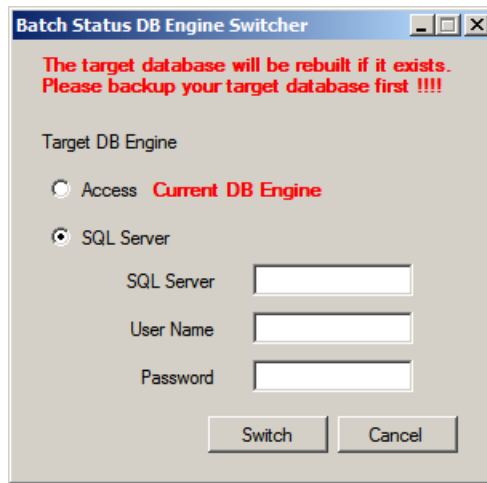
6. Click **Next**. The *Setup Type* screen will be displayed.
7. Select **Typical** and click **Next**.
8. Click **Next** on the *Information* screen.
9. Click **Install** on the *Ready to Install the Program* screen.
10. When the installation has completed, click **Finish** on the *Installation Finished* screen.

NOTE: Output servers initiate connection with the License/Admin server immediately upon completion of installation.

TIP: When outputting to external shares, the use of Credentials in the Job Setup will provide access to the external shares. See the section entitled “Credentials” (Job Setup Output tab), in Chapter 2 of the Administrator’s Guide for KODAK Capture Pro Software.

## Step 10: *Optional*: Use SQL Server database

The batch information used for batch monitoring is stored in a default Microsoft Access database. In situations where a large number of batches are monitored, the use of a Microsoft SQL Server database may improve performance. Capture Pro Software includes a default Microsoft Access database. You have the option of providing your own Microsoft SQL Server database for use by the Capture Pro Remote Admin Server.



The Batch Status DB Engine Switcher utility is used to create a new Access or SQL Server database and configure the database for use by the Capture Pro Software Server.

**NOTE:** Each time you switch between Access and SQL Server or SQL Server and Access **a new database is created. Your existing data will be lost.**

The Batch Status DB Engine Switcher may be downloaded from the *Network Edition Server* section of the Capture Pro Software Drivers and Software web page: [Capture Pro Software Drivers and Software](#)

Complete the installation of the Capture Pro Server Software as outlined in Steps 2 through 6 above.

1. If this is not a new installation, backup all data from the existing database for any data that you want to keep.
2. Start the installation:
  - Download and save the Batch Status DB Engine Switcher zip file from the web page.
  - Unzip the contents of the zip file to a directory on the server and run **BatchMonDBTool.exe**.
3. Select the target DB engine that you want to use.
  - When selecting SQL Server, provide the SQL Server host name and the user name and password required to access the database.
4. Select the **Switch** button to create and configure the selected database. A database named BatchStatus will be created.

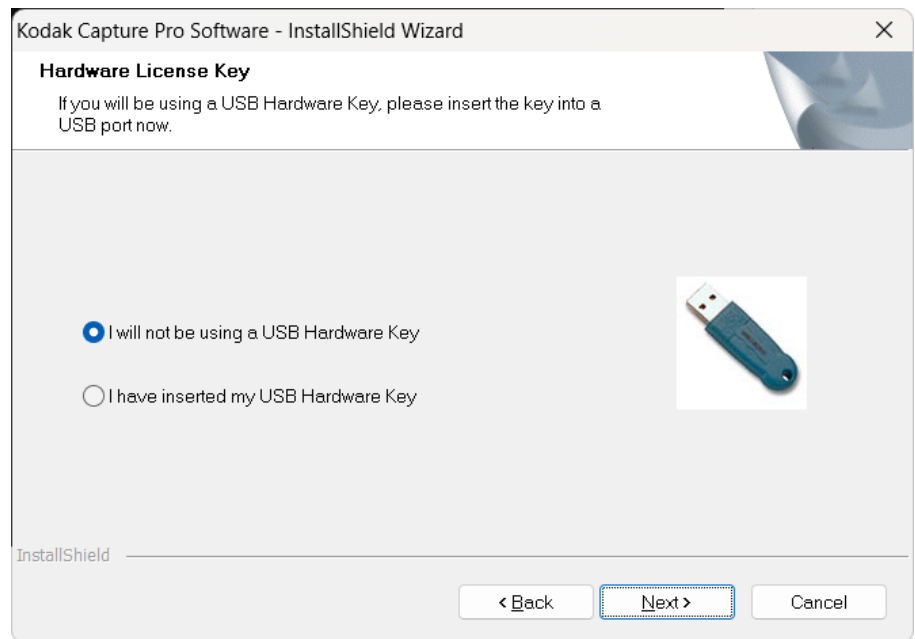
## Step 11: Installing the Network Edition client software

The KCSServerMap.xml file created earlier must be available through the file system while installing the Capture Pro Software Network Edition client. The installer will prompt you to browse to and select the KCSServerMap.xml file. This can be accomplished by shared or mapped folder, portable media device or any convenient mechanism.

1. Start installation:

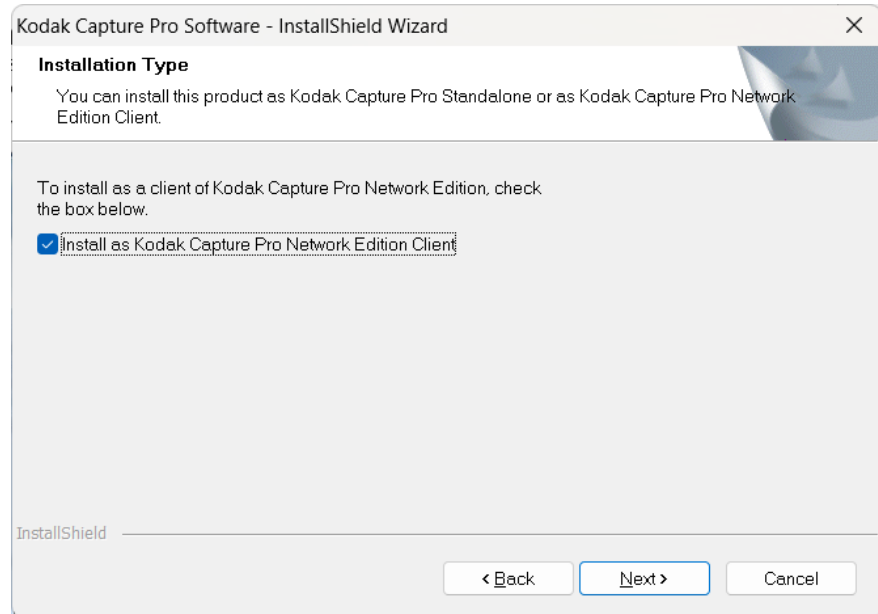
Download, save and run **CapProSW\_x\_x.exe** from the Capture Pro Software Drivers and Software web page: [Capture Pro Software Drivers and Software](#)

2. From the menu, select a language, then select **Install Capture Pro Software**. The License Agreement screen will be displayed.
3. Click **I accept** after reading the License Agreement and click **Next**. The Hardware License Key screen will be displayed.

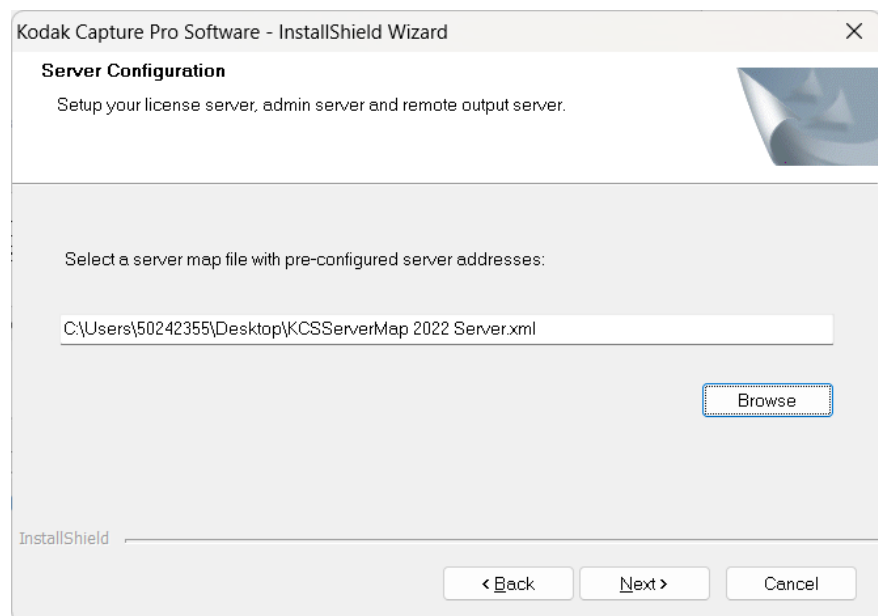


4. If you will be using an optional hardware key, check that the hardware key is plugged in and select **I have inserted my USB hardware key**, then click **Next**.

The Installation Type screen will be displayed.



5. Check **Install as Capture Pro Network Edition Client** and click **Next**. The Server Configuration screen will be displayed.



6. Click **Browse**. The Select File dialog box will be displayed.
7. Locate the KCSServerMap.xml file and click **Open**.
8. On the Server Configuration screen, click **Next**.
9. Select **Typical** on the Setup Type screen and click **Next**. The Information screen will be displayed.

10. Click **Next**. The Ready to Install the Program screen will be displayed.
11. Click **Install**. A progress bar will be displayed while the software is being installed. After the window closes, there will be about a 25-second delay before the Installation Finished screen is displayed.
12. Click **Finish**.

The client installation is complete and you can start Capture Pro Network Edition Client.

## Step 12: Initially starting up the Network Edition client

Remote Administration requires that each client have an identical set of setup files except Page setups since they are scanner specific. When each client starts up for the first time, it will “synchronize” with the server.

*Synchronization* refers to the initial process of making the setups on the Remote Administration server and client identical. This occurs each time Capture Pro software is launched on a client. Once clients have performed their initial synchronization, periodic automatic updates will maintain identical setups on each client and the server.

The Remote Administration server does not come pre-loaded with an initial set of setup files; therefore, whichever client starts up first following installation will have its entire collection of setups copied to the server. Subsequent clients will, upon startup, have their local copies of any identically named setups overwritten by those on the server. (Uniquely named setups on a client will always copy up to the server then be automatically downloaded to all clients.)

**IMPORTANT:** *For initial synchronization following installation, it may be desirable to identify a client to act as the “seed” client; any setups from this client will be copied to other clients, overwriting setups with identical names. It is recommended to back up each client before proceeding with initial startup or take other steps to ensure that identically named but differently configured setups are not accidentally overwritten, for example, during an upgrade installation.*

1. Select a client to act as the “seed” for the NE workgroup. Setups from this workstation will be transferred up to the server, and then down to the other workstations in the group.
2. Start the client. A dialog box will be displayed indicating that synchronization is in progress.
3. After the initial client synchronization is complete, other clients may be started in any order.

### NOTES:

- During subsequent startups, each client will detect that initial synchronization has occurred and this “seed” client process will not be necessary.
- To avoid confusion when reviewing information on the CPDashboard, each client should be given a unique Workstation ID and Name.

## Fail over setup

Fail over is a semi-automatic operation which is intended to make it easier for an administrator to recover from a server outage by having a pre-configured backup server waiting off line which can easily be brought on line and utilized by clients without having to update each individual client's server map.

To set up a server for fail over:

1. Use the Server Map Manager tool to add two License/Admin (Main) servers to the Server map. Install that Server Map on all clients and Remote Output servers.
2. Install the Capture Pro Software on the primary server as instructed in the server installation procedures.
3. Using the License Manager on the primary server, release the license by selecting **Release License** on the Release License tab.
4. Install the Capture Pro Software on the secondary server using the server installation procedures and the same Software Serial number as used on the primary server.
5. Using the License Manager on the secondary server, release the license by selecting **Release License** on the Release License tab.
6. Using the License Manager on the primary server, get a license by selecting **Get License**.

If primary server fails:

- Using the License Manager on the secondary server, replace the lost license by selecting **Replace Lost License** on the Replace License tab. After receiving your replacement license, contact KODAK Alaris Service and Support and request that your "replacement license count" be reset.

NOTE: After getting or replacing a license IIS must be restarted.







# 2 Using the CPDashboard

---

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The Capture Pro Dashboard (CPDashboard) is a browser-based application which can be run from any PC that can access the Capture Pro Software Server.

The CPDashboard is implemented using ASP.NET core and can be launched using browsers such as Google Chrome and Microsoft Edge.

Some CPDashboard functions (such as deleting Setup files) are ONLY available when the application is run directly from the server (i.e. from localhost). Most functions are available from all clients.

## Running the CPDashboard

To run the CPDashboard, enter the following URL:

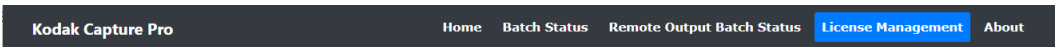
<http://hostaddress/KCSNEDashboard/CPDashboardTestPage.aspx#/Home>,

or if HTTPS is enabled, type in:

<https://hostaddress/KCSNEDashboard/CPDashboardTestPage.aspx#/Home>.

where *host address* is the *server name* or the *domain host name* associated with the CA certified SSL certificate.

All CPDashboard panels share a common navigation bar.



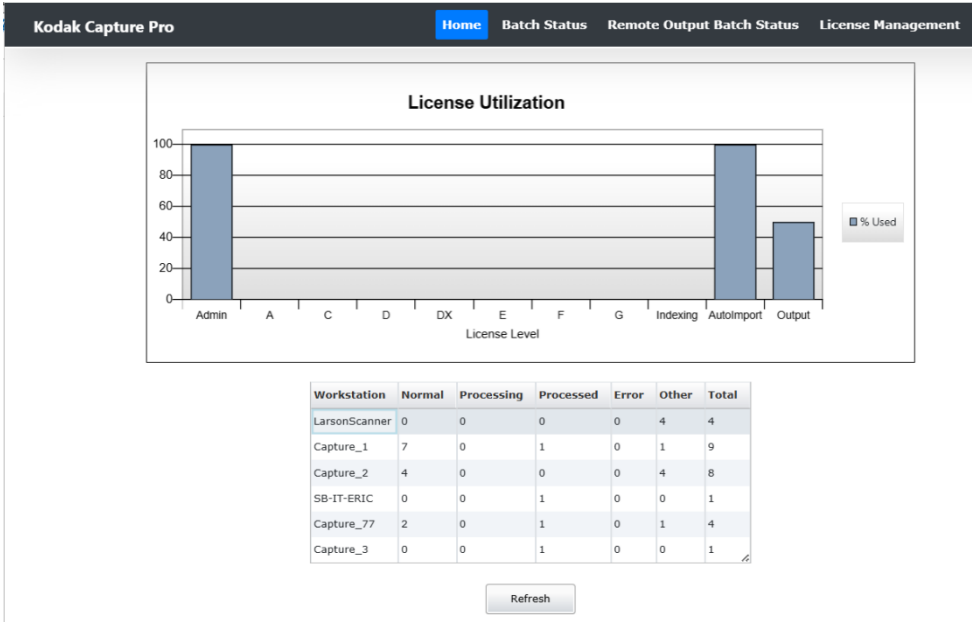
The navigation bar provides the following options:

- **Home** — contains graphs and other meters to convey high level system operation, such as license utilization and batch counts.
- **Batch Status** — provides information on batches in the system and allows an operator to selectively view the state of a filtered subset.
- **Remote Output Status** — provides information on batches currently being processed by the Remote Batch Output server(s).
- **License management** — Displays details of license usage.
- **About** — provides general information about the CPDashboard, and a localization interface for CPDashboard language selection.

The information on the panels can be sorted by selecting one or more (shift-click) column headers. This sort will remain in effect until the table is refreshed at which point it will revert to its original order and any selected line items will revert to the first entry in the table.

Home

The Home panel contains the following:



**License Utilization graph** — displays the percent utilization for each license level contained in the currently loaded license file. It will automatically refresh and rescale based on current usage.

**Batch Count chart** — displays the current batch counts for various states on each workstation. These are **Normal**, **Processed**, **Processing**, **Error** and **Other**. **Other** represents miscellaneous transitional states and **Deleted**. This chart does not update automatically.

To refresh the chart, click **Refresh**.

Batch Status

The Batch Status panel of the CPDashboard can be used to view information about batches in the system. Every batch in the system will be reported to the Batch Monitor service which maintains a database of in-process batches. A batch is added to the database upon creation, and every status change will result in a new entry in the batch’s history file and an update to its detailed batch information.

*Each batch is primarily identified by the workstation which created it (simply referred to as “Workstation”), Job Name and Batch Name.* This primary identifier will remain with the batch as it moves from workstation to workstation for indexing or remote output steps, if other workstations perform indexing operations, or if it is moved to another server for remote output.

## Batch Status operation

Upon initial entry to the Batch Status panel, a Filters dialog box will be displayed. You can enter filter criteria into the auto-fill boxes for *Workstation*, *Job Name*, *User*, or *Status*. The auto-fill box will present a drop-down menu which shows possible selections based on the character(s) entered and current database contents. Filters can contain any combination of the four possible selection criteria. To view only selected batches within a specific period of time, a *Start Date* and *End Date* may be specified. The *Maximum statuses to display* may be used to change the maximum number of batch status entries that will be shown in the table. To view information for all batches, up to the number of *Maximum statuses to display*, do not enter any filter criteria.

The 'Filters' dialog box is shown in its initial 'Empty' state. It contains the following fields: 'Workstation', 'Job', 'User', 'Status', 'Maximum number of batch statuses' (set to 350), 'Start Date' (with a date picker showing 15), and 'End Date' (with a date picker showing 15). A 'Select' button is at the bottom.

Empty

The 'Filters' dialog box is shown with the letter 'c' entered in the 'Workstation' field. The other fields remain the same as in the empty state. A 'Select' button is at the bottom.

with "c" entered

NOTE: After initial display, the dialog box will also contain a Cancel button.

When **Select** is clicked, the Batch Monitor service will return batch information for all matching batches.

The screenshot shows the 'Batch Status' panel of the Kodak Capture Pro software. The 'Batch Summary' table lists various batches with columns for Workstation, Job, Batch, Creation Date, Status, and Error. The 'Selected Batch Detail' panel on the right provides a comprehensive overview of the selected batch (Batch019), including details like Computer Name, Job, Status, Creating Workstation, Creating User, Creation Date, Modifying Workstation, Modifying User, Modification Date, Output Workstation, Remote Output Server, Output User, Location, Starting Doc ID, First Doc ID, Last Doc ID, Size Of Images, and Document Count.

Workstation	Job	Batch	Creation Date	Status	Error
LarsonScanner	Ready to Scan	Batch002	2025.05.20 12:37:50.0766	DELETED	
LarsonScanner	Ready to Scan	Batch001	2025.05.20 12:27:34.4232	DELETED	
Capture_1	Ready to Scan - Chris	Batch013	2025.06.05 11:10:49.9603	NORMAL	
Capture_1	Scan to PDF	Batch001	2025.02.18 13:20:15.6207	PROCESSED	
Capture_77	Scan to PDF-9	PDF019	2025.06.18 15:52:47.7650	PROCESSED	
Capture_77	Scan to PDF-9	PDF018	2025.06.18 15:37:57.8036	NORMAL	
Capture_3	Scan to PDF-9	PDF002	2025.06.18 15:17:50.1107	PROCESSED	
Capture_1	Waybills	Batch015	2025.06.09 09:28:52.2083	NORMAL	
Capture_1	Waybills	Batch014	2025.06.06 12:52:43.3624	NORMAL	

Computer Name	Event Time	Status	Error
W177CNEP19	06/18/2025 03:52:47 PM	NORMAL	
W177CNEP19	06/18/2025 03:53:33 PM	PROCESSING	
W177CNEP19	06/18/2025 03:56:59 PM	PROCESSED	

Selected Batch Detail	
Computer Name	W177CNEP19
Job	Scan to PDF-9
Batch	PDF019
Status	PROCESSED
Error	
Creating Workstation	Capture_77
Creating User	sysadmin
Creation Date	2025.06.18 15:52:47.7650
Modifying Workstation	Capture_77
Modifying User	sysadmin
Modification Date	2025.06.18 15:53:32
Output Workstation	Capture_77
Remote Output Server	Local
Output User	sysadmin
Location	C:\ScanPro\Scan to PDF-9\PDF019
Starting Doc ID	1
First Doc ID	1
Last Doc ID	1
Size Of Images	1036494
Document Count	1

**Batch Summary** — contains summary information for batches currently in the Network Edition workgroup which match the filter criteria.

When a batch is selected in the Batch Summary panel, the batch information detail will be displayed in *Selected Batch Detail* panel and the batch's history will be displayed in the *Selected Batch History* panel.

**Selected Batch Detail** — contains the most recent batch information. Each time the status of a batch changes, the new information overwrites the previous detail in the database.

**Selected Batch History** — contains one entry for each reported batch status change. The same status may appear several times if a batch is reprocessed or sent to a Remote Output server.

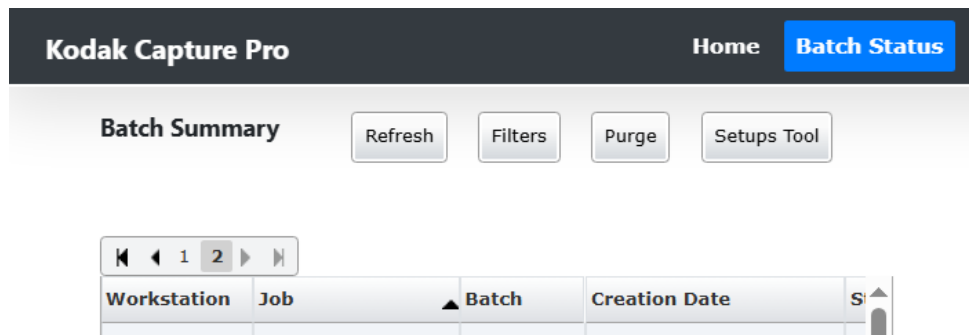
**Refresh** — redisplay the dataset using the last selected filter set.

**Filters** — displays the Filters dialog box enabling the entry of new filter criteria and selection of new batch information.

**Purge**— this button is only displayed when the CPDDashboard is run on "localhost". It is used to periodically purge the database of deleted batches. Performing this operation will remove deleted batches from the summary and history tables, and also remove related counters from the batch statistics table.

## Setups Tool

The Setups Tool is a convenient way to delete or rename Job, Page, User, Group, Shortcut, Scanner and Auto Import setups. The Setups Tool can only be run when the CPDDashboard is run on the "localhost".

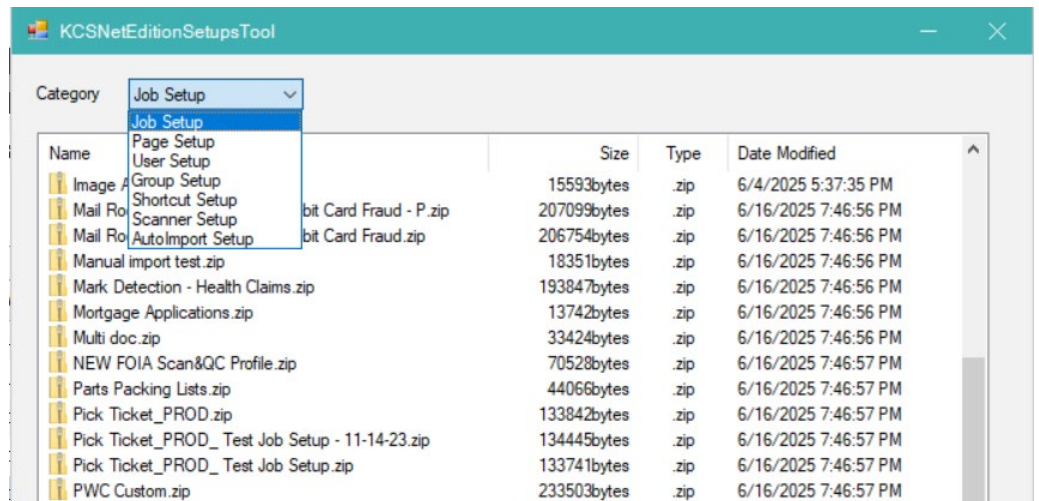


1. Click the **Setups Tool** button on the Batch Status page. The Setups Tool will be displayed.

NOTE: If the security error message, **Your browser Security Settings do not allow this option. Please see the Network Edition System Guide for more information** is displayed, then you will need to change the security settings of your browser or launch the tool manually. For more information, see the next section.

2. Select the appropriate **Category** for the type of setup file you want to delete or rename.
3. Right-click on the desired setup file in the list.

4. Select **Rename** or **Delete**.



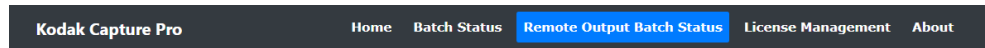
**NOTE:**

If the Setups Tool does not launch due to your browser's security settings, the tool may be launched manually by running the executable file found at:

*C:\inetpub\wwwroot\KCSNEAdminService\bin\KCSNetEditionSetupsTool.exe*

# Remote Output Batch Status

When the optional Remote Output server is used to process and output batches from clients, the Remote Output Batch Status panel may be used to display the status of these batches. The primary purpose of this table is to provide a view of the batches currently being processing or waiting to be processed by the Remote Output Server(s).



When the Remote Output server completes processing of a batch, the information will be removed from the table and sent to the Batch Status table. If the batch fails, the status will be *Error* and the description will be displayed. The full description may be found in the Output log.

OutputServer	Workstation	Job	Batch	Status Time	Status	Description
Local Output Server	Capture_1	Ready to Scan -	Batch081	11/20/2013 5:04:16 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch082	11/20/2013 5:04:18 PM	DELETED	
Local Output Server	Capture_1	Ready to Scan -	Batch083	11/20/2013 5:04:20 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch084	11/20/2013 5:04:22 PM	DELETED	
Local Output Server	Capture_1	Ready to Scan -	Batch085	11/20/2013 5:04:24 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch086	11/20/2013 5:04:27 PM	DELETED	
Local Output Server	Capture_1	Ready to Scan -	Batch087	11/20/2013 5:04:29 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch088	11/20/2013 5:04:31 PM	DELETED	
Local Output Server	Capture_1	Ready to Scan -	Batch089	11/20/2013 5:04:33 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch090	11/20/2013 5:04:35 PM	DELETED	
Local Output Server	Capture_1	Ready to Scan -	Batch091	11/20/2013 5:04:38 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch092	11/20/2013 5:04:40 PM	DELETED	
Lab Server	Capture_1	Ready to Scan -	Batch096	11/21/2013 6:58:59 AM	PROCESSED	
Local Output Server	Capture_1	Ready to Scan -	Batch097	11/21/2013 6:59:20 AM	PROCESSED	

The *Batches per page* is used to set the number of status items to display on each page.

The *Maximum statuses to display* may be changed to view one or more pages of statuses. The size of the Remote Output Batch status table is dependent on your specific NE environment. For example, if the Remote Output server processes mostly small batches from a small number of clients, then the queue of batches waiting to be processed may be small and the *Maximum statuses to display* may be set at 25. However, if during a peak period, you have many clients sending many batches to the Remote Output server, you may need to set the size to 300 to see all the queued batches. This value may only be set from the Capture Pro Software Server (the Main server). This table will be cleared whenever the Main server is restarted.



# License management

Network Edition clients obtain licenses from a central license server. License server administration is managed by the License Management panel of the CPDashboard.

Kodak Capture Pro

HomeBatch StatusRemote Output Batch StatusLicense ManagementAbout

Serial Number  
HWID00b5ceef6df0a58bca4177fd3724d8dbe412

Refresh

License Level	Quantity	Available
Admin	1	0
A	3	3
C	3	2
D	2	2
DX	2	2
E	2	2
F	2	2
G	2	2
Indexing	3	3
AutoImport	1	1

Optional Features	Quantity	Available
Arabic OCR	2	2

User	Workstation	Level	Time Granted	Expiration	Options
Admin	localhost	Admin	07/01/2025 08:12:11 PM	07/01/2026 08:12:11 PM	
sysadmin	LUSROC-C8Z6VW3	C	07/02/2025 04:44:01 PM	07/02/2025 04:54:01 PM	
BatchOutputServer	W177CNER22.kodal	Output	07/02/2025 02:04:17 PM	07/02/2025 04:47:18 PM	

The License Management panel contains:

- A serial number which identifies the customer’s license.
- The Hardware ID that uniquely identifies the computer.
- A table of licenses which shows, for each license level, the quantity purchased and the quantity available.
- A table of current users which provides user name, computer address, the time the license was granted, and the time the license will expire. Licenses are automatically renewed every 10 minutes as long as Capture Pro is still running on the user’s PC.

**Refresh** — refreshes all displays.

# About

Kodak Capture Pro

HomeBatch StatusRemote Output Batch StatusLicense ManagementAbout

About

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LanguageEnglish

**Language** — allows you to select a language to apply to all CPDashboard displays. Upon selecting a different language, you must use the browser’s **Refresh** button to reload the page. The navigation bar will not reflect a different language selection until a page refresh occurs.



# 3 Troubleshooting

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## Error logging and reporting

All Network Edition components (processes, services, etc.) use the Windows Event Log facility for reporting errors. Following is a brief overview of the Event Viewer. Please refer to Microsoft documentation for details.

### The Windows Event Log

- **Network Edition** event logs are located under **Application and Services Logs** on both the client workstations and the Network Edition Server.
- Enables Capture Pro to use the same well established event reporting mechanism as all other Microsoft applications and operating systems.
- Provides a single, chronologically ordered record of all Network Edition related events without having to open multiple text files. This allows Technical Support to get a single view of a set of messages that may surround a single failure yet originated from different places in the system.
- Provides basic filtering and sorting on **Event Source**, **Severity Level** (information, warning, error), **Time and Date**, **Source**, and **ID**.
- Use other third-party tools such as Windows PowerShell to write scripts to directly monitor and sort events and help flag errors and other events such as batch counters, licenses issued, etc.
- Allows administrators to export logs in various forms, including .csv, for analysis using other tools.

The event log can be accessed by right-clicking on **Computer** and selecting **Manage** or by selecting **Administrative Tools** from the Control Panel.

### Capture Pro “Classic” logs

A plain text file **NE.log** is included on the client workstations in the same directory as other Capture Pro text-based logs (by default *C:\Users\Public\Public Documents\KCS Pro\Log*). Information in this log typically reflects user visible dialogs and echoes the content of the Windows Event Log.

## Validating communication and connectivity

1. Start the Server Map Manager application.
2. Open the server map and individually select each server and click the **Check Server** button.
  - If the test is successful, a server will show as available in the Status list.
  - If the test fails, a server will show with *Health Check failed* in the Status list. The failure of the Server Map Manager test may be due to an error in the Server Map. Use the Server Map Manager to delete any failed servers, then add them again and test with Check Server.

If the *License and Remote Admin server* still fails, attempt to connect to the web service directly by entering the URLs below into a browser running on NE Client:

`http://mylicenseserver/LicenseService/LicService.svc`

`http://mylicenseserver/KCSNEAdminService/NEServerService.svc`

or if HTTPS is enabled, type in:

`https://mylicenseserver/LicenseService/LicService.svc`

`https://mylicneseserver/KCSNEAdminService/NEServerService.svc`

Replace *mylicenseserver* in the URL with the name, IP address, or Fully Qualified Domain Name of the actual License and Remote Admin server or domain/host name associated with CA certified SSL certificate.

If there is a problem with web service, Kodak Alaris recommends uninstalling and reinstalling the software on both the server and the client. If the problem still persists, contact customer support.

### LicService Service

You have created a service.

To test this service, you will need to create a client and use it to call the service. You can do this using the svcutil.exe tool from the command line with the following syntax:

```
svcutil.exe http://eastman-ofrrf90/LicenseService/LicService.svc?wsdl
```

This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the generated client class to call the Service. For example:

**C#**

```
class Test
{
    static void Main()
    {
        LicServiceClient client = new LicServiceClient();

        // Use the 'client' variable to call operations on the service.

        // Always close the client.
        client.Close();
    }
}
```

**Visual Basic**

```
Class Test
    Shared Sub Main()
        Dim client As LicServiceClient = New LicServiceClient()
        ' Use the 'client' variable to call operations on the service.
```

If you do not see the **LicService Server** screen (or similarly the **NEServer Service** screen), troubleshoot the License/Admin server (see the next section).

## License/Admin Server troubleshooting

1. Confirm that the server was properly set up to run web services by repeating the web service connection test (see the section entitled, “Validating communication and connectivity”) on the server itself using *localhost* in the *mylicenseserver* field of the URL. If you do not see the LicService screen, the server may not be properly configured to recognize web services. Use *Appendix A, Configuring Windows Servers and IIS*, to check the configuration. Re-boot the PC when done and run the web service connection test again on localhost.

NOTE: If the LicService still does not run after doing the above, it will be necessary to consult KODAK Alaris Technical Support.

2. If the LicService successfully runs from localhost, try to ping the server from a client, using the server’s machine name. If this fails, ping again using the server’s IP address. If you cannot ping using either the machine name or IP address, it is possible that a firewall on the server is blocking access. Ensure that http Port 80 (or https Port 443) is open. If there is not a firewall problem, consult your network administrator.
3. If you are not using a domain user account for Network Edition Server operation, confirm that the *KCPNServiceUser* on the Windows Server has been successfully created and is a member of the *IIS\_IUSRS* group. If the client gets the following message upon startup of Capture Pro: **“Could not communicate with the Remote Admin Server. You have to exit Capture Pro now”**, then it could be that the *KCPNServiceUser* was not properly created during the installation of the Network Edition Server. In this situation, manually add the local user called *KCPNServiceUser* to the *IIS\_IUSRS* group.

## Configure DefaultAppPool recycle interval

By default, IIS will recycle the DefaultAppPool, and in the process the license server will restart. This is generally a harmless process as logged in clients will simply experience a license renewal failure which automatically recovers. Some dialogs may become visible, however, which describe some detailed errors related to encryption key resets and the renewal failure itself.

To eliminate these errors, the DefaultAppPool recycle can be configured so that it occurs during “off hours” or by memory-based methods. The license service does not require a great deal of memory, but specific settings should be determined for each installation based on typical user loads.

The DefaultAppPool recycling interval should be set to periods where users are typically logged off.

Edit Application Pool Recycling Settings

**Recycling Conditions**

**Fixed Intervals**

☐ Regular time intervals (in minutes):

☐ Fixed number of requests:

☒ Specific time(s):

Example: 8:00 PM, 12:00 AM

**Memory Based Maximums**

☐ Virtual memory usage (in KB):

☐ Private memory usage (in KB):

Previous Next Finish Cancel

NOTE: It is recommended that clients log off while configuring the DefaultAppPool and then log in again.

## Remote Output server

If the Remote Output server fails to start or you notice that the output server on the License Management dashboard has not retrieved a license, make sure the **Desktop Experience** feature is installed on the server.

## Adding a new user

When a client is first launched after a new user has been added to the system, you may find that you are not able to log in using the new user ID. You must first log in using an existing user ID. After the client has synchronized with the server, you may log off and log in using the new user ID.

# License renewal

A client license may become stale when the IIS Default App Pool recycles. When this occurs, a message box will be displayed asking the user if they want to renew their client license. To suppress this message box the following may be added to the **Env.info** file. The **Env.info** file by default is located in the *C:\Program Files\Kodak\Capture Pro\System* directory on the client PC:

```
[Network Edition]
MaxRetryRenew = 5
RenewWithMsgBox = 0
```

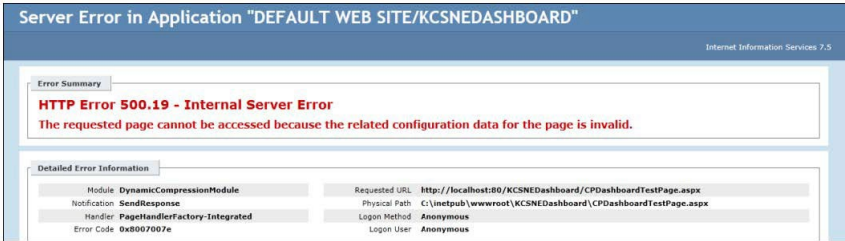
If **RenewWithMsgBox = 0**, the client renewal message will not be displayed.

If **RenewWithMsgBox** is not defined or if **RenewWithMsgBox = 1**, the renewal message box will be displayed.

Setting **RenewWithMsgBox = 0** is especially useful for Auto Import clients that may not have an operator to acknowledge the renewal message.

# Internal Server Error 500

If you are using a Windows Server to also host an Active Directory Domain Controller or the Windows Server Update Services (WSUS), you may encounter the Internal Server Error 500.



The error may be related to the compression scheme used by the Update Service. Disabling compression may allow the 32- and 64-bit applications on the server to work well together.





# Appendix A   Configuring Windows Servers and IIS

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## Requirements for using Capture Pro Server Software with Windows Server

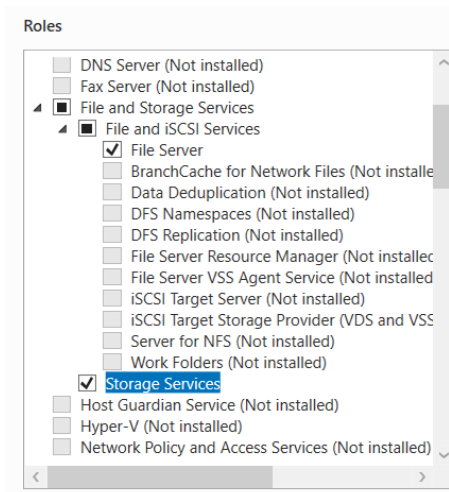
Before you install Capture Pro Server Software:

- Verify that Windows updates are installed.
- Install **Microsoft .NET Core 8.0.x Windows Hosting Bundle**. If .NET Core 8 is not installed on the server, the installation wizard for the Capture Pro Network Edition Server will initiate it.
- Run the **Add Roles and Features** Wizard on the server and enable the roles and features listed in the next section.
- Configure the **DefaultAppPool** in Internet Information Services (IIS). Please see the corresponding section below.

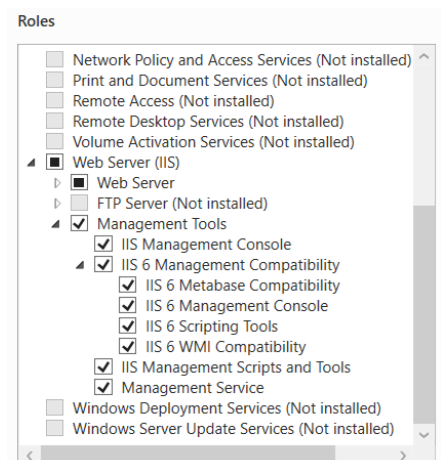
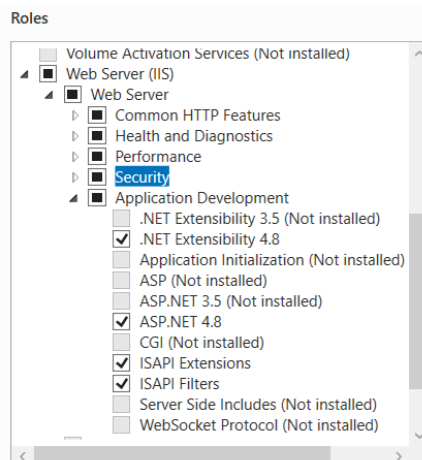
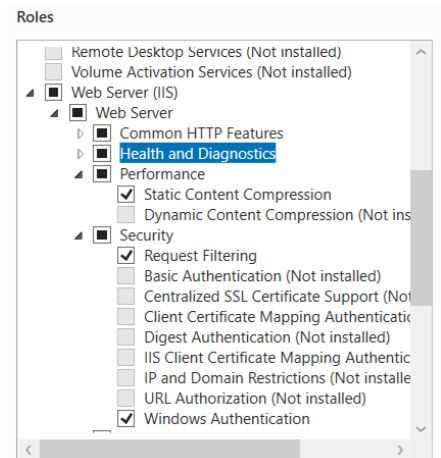
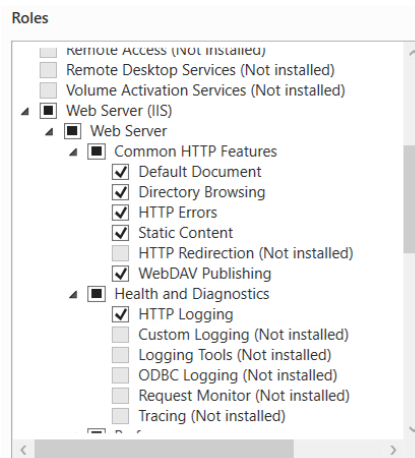
## Roles and Features requirements

1. The following **Roles** must be enabled. The screen captures were taken from a Windows Server 2022 system. What you see may be different depending on the Windows Server version you are running:

- **File and Storage Services**
  - File Server
  - Storage Services

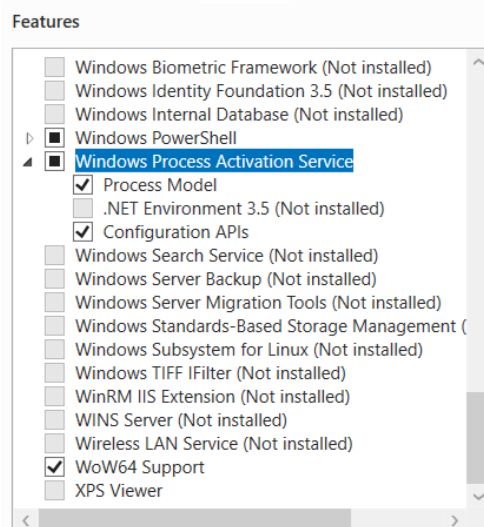
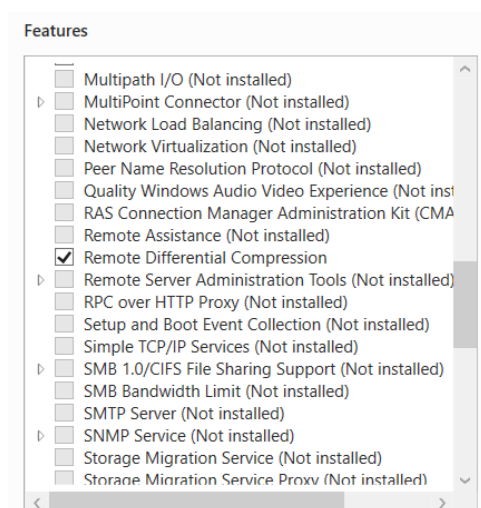
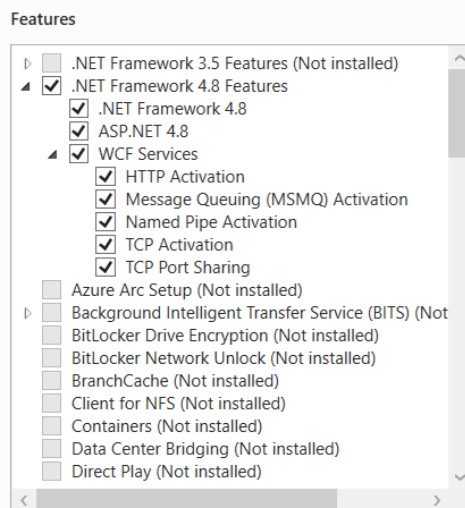


- **Web Server (IIS)**
  - Common HTTP Features
    - Default Document
    - Directory Browsing
    - HTTP Errors
    - Static Content
    - WebDAV Publishing
  - Health and Diagnostics
    - HTTP Logging
  - Performance
    - Static Content Compression
  - Security
    - Request Filtering
    - Windows Authentication
  - Application Development
    - .NET Extensibility 4.x
    - ASP.NET 4.x
    - ISAPI Extensions
    - ISAPI Filters
  - Management Tools
    - IIS Management Console
    - IIS 6 Metabase Compatibility
    - IIS 6 Management Console
    - IIS 6 Scripting Tools
    - IIS 6 WMI Compatibility
    - IIS Management Script and Tools
    - Management Service



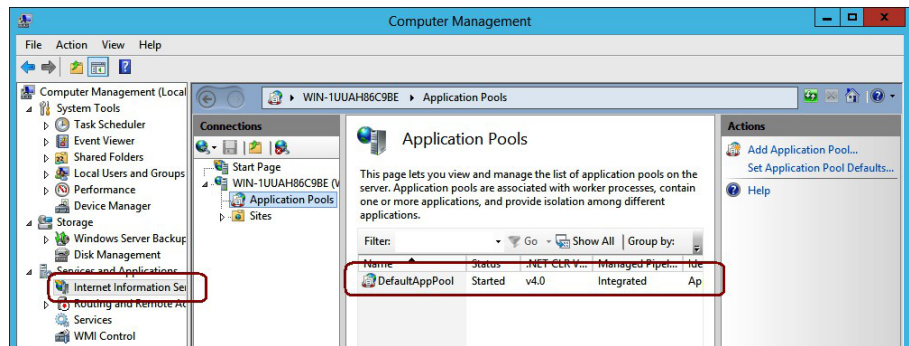
2. The following **Features** must be enabled:

- **.NET Framework 4.x Features**
  - .NET Framework 4.x
  - ASP.NET 4.x
  - WCF Services
    - HTTP Activation
    - Message Queuing (MSMQ) Activation
    - Named Pipe Activation
    - TCP Activation
    - TCP Port Sharing
- **Remote Differential Compression**
- **Windows Process Activation Service**
  - Process Model
  - Configuration APIs
- **WoW64 Support**

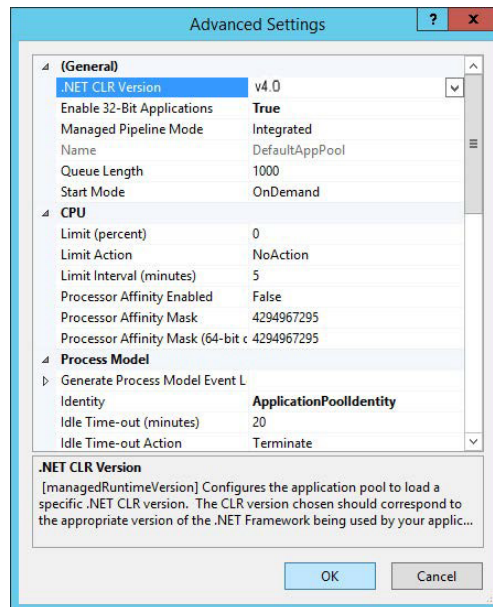


## Configuring the DefaultAppPool

1. Open IIS Manager and select **Application Pools**.



2. Right-click **DefaultAppPool** and select **Advanced Settings**.

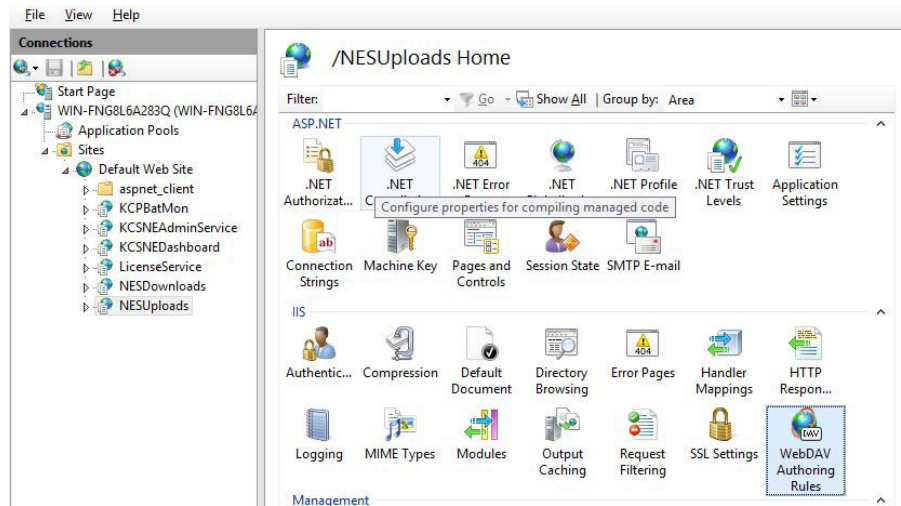


3. Set **.NET CLR Version** to **v4.0** and set **Enable 32-Bit Applications** to **True**.

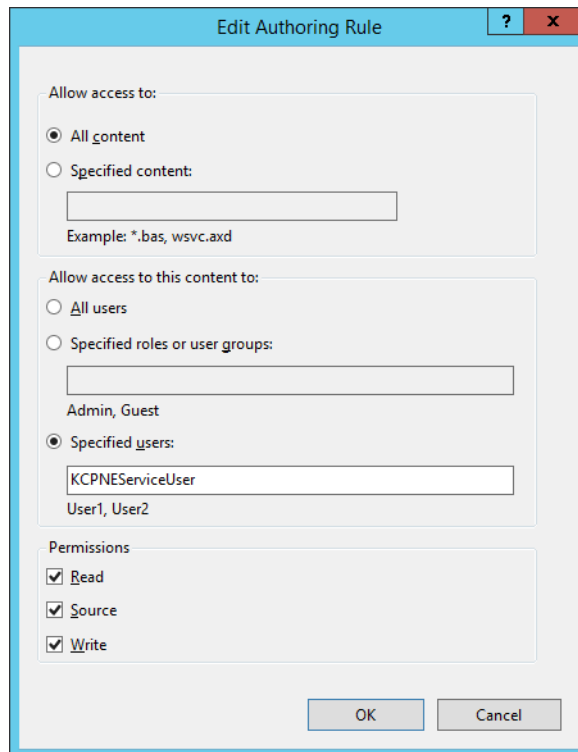
## Improved WebDAV Security

In some environments installing and enabling WebDAV may cause security concerns. WebDAV security may be improved by specifying Authoring Rules.

1. Launch IIS.
2. Expand *Sites* and on the *Default Web Site* select *NESUploads*.



3. Select **WebDAV Authoring Rules**.
4. Select the default Authoring Rule.
5. Update the Authoring Rule to specify the user *KCPNServiceUser* (or the domain user if that option was chosen when the Network Edition Server was installed).
6. Click **OK**.



7. If the Remote Output Server has been installed, select **NESRemoteBatch** on the *Default Web Site*
8. Select the default Authoring Rule.
9. Update the Authoring Rule to specify the user *KCPNServiceUser* (or the domain user if that option was chosen when the Remote Output Server was installed) and disable **Read** and **Source** permissions.
10. Click **OK**.

**Edit Authoring Rule**

Allow access to:

☒ All content

☐ Specified content:

Example: \*.bas, wsvc.axd

Allow access to this content to:

☐ All users

☐ Specified roles or user groups:

Admin, Guest

☒ Specified users:

User1, User2

Permissions

☒ Read

☒ Source

☒ Write

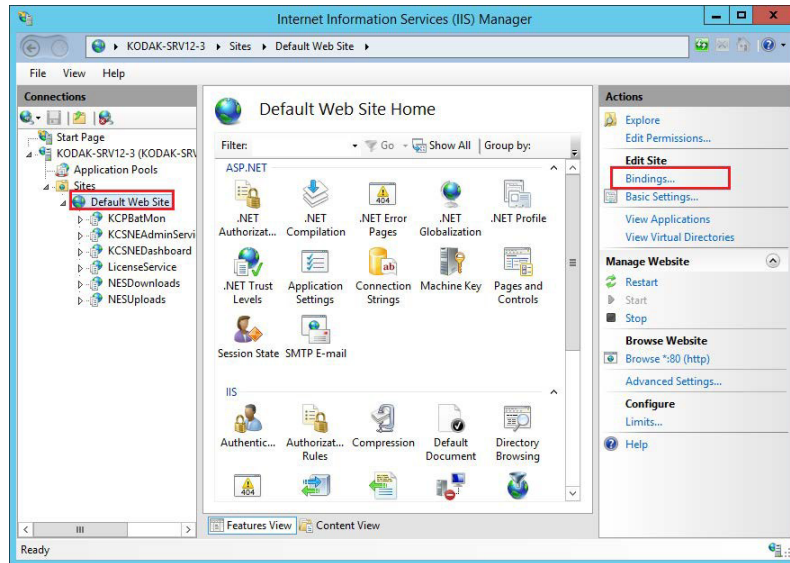
OK Cancel

## Configuring IIS HTTPS site binding with a CA certified SSL Certificate

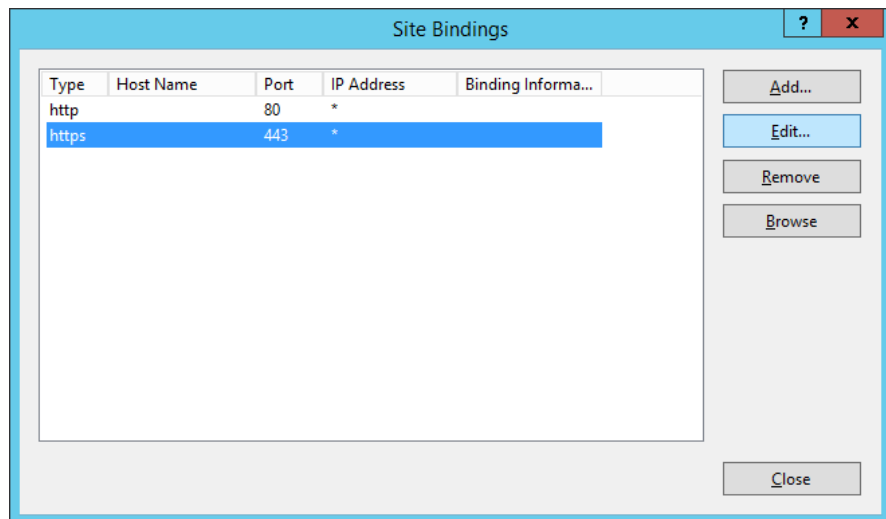
If you want to use your own CA certified SSL Certificate, it must be installed and added to Certificate manager under Local machine/Personal store.

Once the certificate is installed, follow these steps:

1. Launch IIS manager
2. Select **Default Web Site**, then open **Bindings...** under **Edit Site**

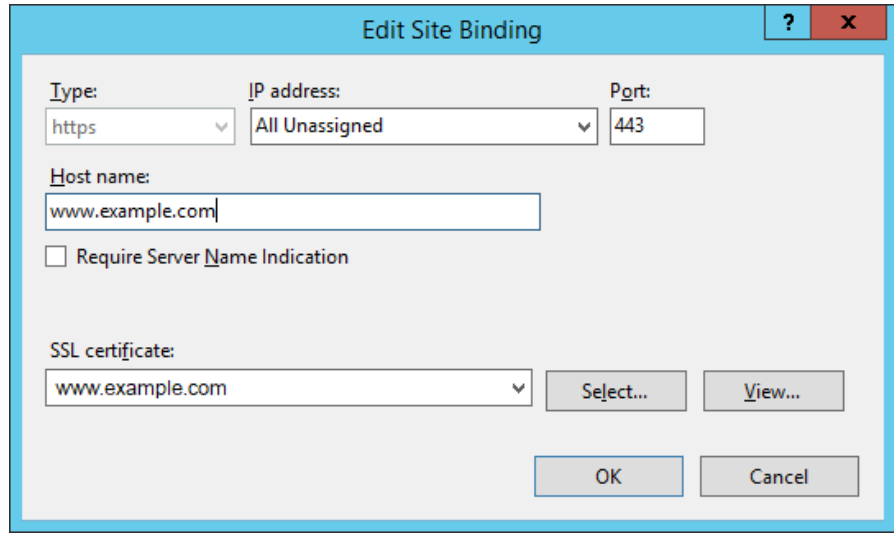


3. Select **https** and click **Edit**





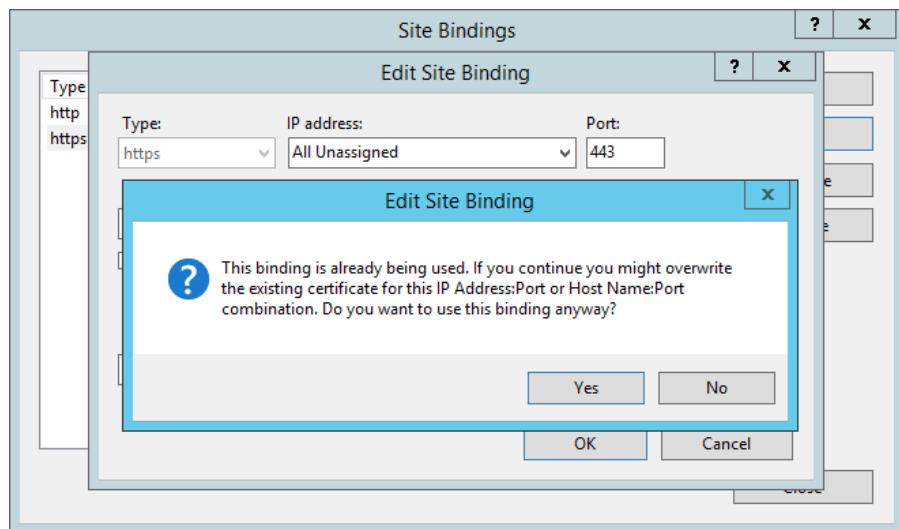
4. Enter domain/host name (For e.g www.example.com), if the certificate is associated with domain/host name. The SSL certificate drop down lists the name of certificates. Click Select to view and select the certificate you installed in Step 1.



The 'Edit Site Binding' dialog box is shown. It has a title bar with a question mark and a close button. The dialog contains the following fields and controls:

- Type:** A dropdown menu with 'https' selected.
- IP address:** A dropdown menu with 'All Unassigned' selected.
- Port:** A text box containing '443'.
- Host name:** A text box containing 'www.example.com'.
- Require Server Name Indication:** An unchecked checkbox.
- SSL certificate:** A dropdown menu with 'www.example.com' selected.
- Select...** and **View...** buttons next to the SSL certificate dropdown.
- OK** and **Cancel** buttons at the bottom right.

5. When the warning message appears, select **Yes**

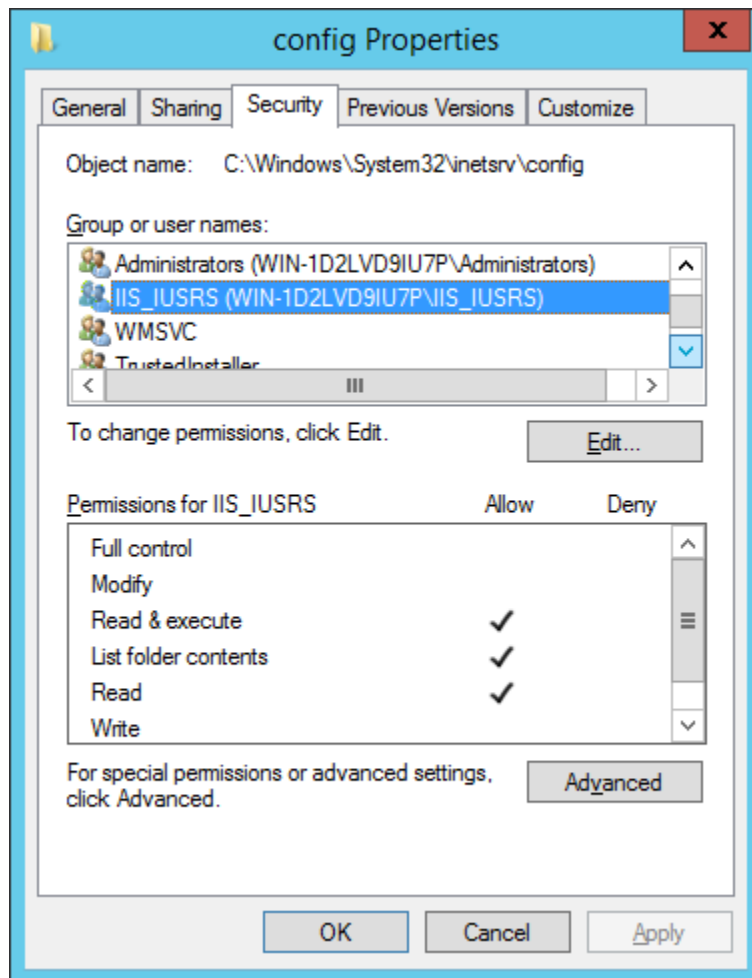


The 'Site Bindings' window is shown in the background. It has a title bar with a question mark and a close button. The window contains a list of bindings with columns for 'Type', 'IP address', and 'Port'. The list shows 'http' and 'https' bindings. Overlaid on top of the 'Site Bindings' window is the 'Edit Site Binding' dialog box, which is the same as the one in the previous screenshot. In the center of the 'Edit Site Binding' dialog box is a warning message box with a question mark icon. The message reads: 'This binding is already being used. If you continue you might overwrite the existing certificate for this IP Address:Port or Host Name:Port combination. Do you want to use this binding anyway?'. Below the message are 'Yes' and 'No' buttons. At the bottom of the 'Edit Site Binding' dialog box are 'OK' and 'Cancel' buttons.

6. Click **OK** to close the **Site Bindings** window

7. Read access has to be provided to the folder  
“C:\Windows\System32\inetsrv\config.”

Select the **Security** tab and add the group name “IIS\_IUSRS.”



# Appendix B    Server Map

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## Contents

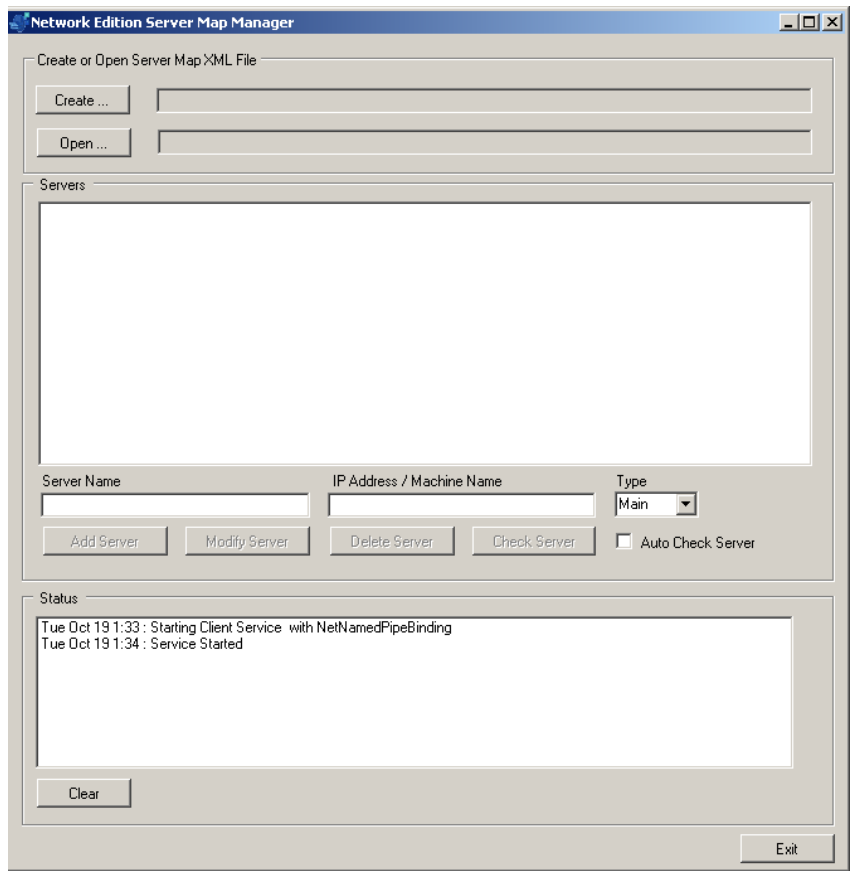
Creating a new server map .xml file	
(adding servers) .....	B-2
KCSServerMap.xml    contents.....	B-4

The Network Edition Server Map Manager (SMM) is an application used during the installation of Capture Pro Software Network Edition. It allows the user to create and edit the *initial* KCSServerMap.xml file used by Capture Pro Network Edition.

The KCSServerMap.xml contains the name and URLs of the License Server, Remote Administration Server, and optional Remote Output server(s). The Server Map is required when installing client workstations and any optional Remote Output servers.

The Server Map Manager Tool may be downloaded from the *Network Edition Server* section of the Capture Pro Software Drivers and Software web page: [Capture Pro Software Drivers and Software](#). Run the EXE file to unzip the contents to a directory on your PC.

Run the downloaded EXE to unzip the contents to a directory on your PC. Run the executable *ServerMapManagerApplication.exe* to launch the Server Map Manager application.



## Creating a new server map .xml file (adding servers)

1. Select **Create**. A folder browser will be displayed.
2. Select the folder where you want to create a new Server Map .xml file.

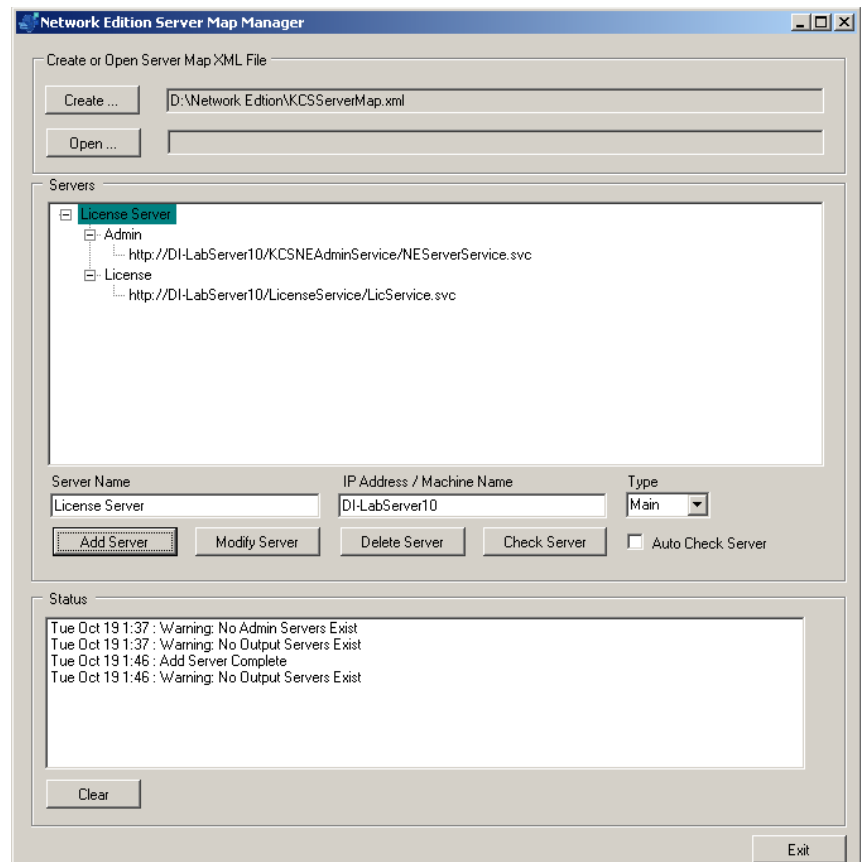
### NOTES:

- The file name KCSServerMap.xml will be appended to this path. There is no way to override the file name. If a server map file already exists in that folder, an overwrite warning will be displayed. If you select **Yes**, an empty server map file will replace the existing file. There is no undo. If you select **No**, the existing file will be unchanged.
- Information from Step 1: Site Planning in Chapter 1 is needed for the remaining steps.
- For each defined server, *Server Name* and *IP address/Machine Name* must be unique.

3. Add the License/Admin (Main) server first. Type in the user-friendly name in the *Server Name* field and the IP address, machine name, or Fully Qualified Domain Name in the *IP Address/Machine Name* field.

NOTE: If you have performed IIS site binding (HTTPS), enter the host name associated with the SSL certificate in the *IP Address/Machine Name* field.

4. Select **Main** from the *Type* drop-down box.
5. **If the server has already been installed**, check **Auto Check Server** to verify communication to the License server.
6. Select **Add Server**. The SMM will validate the information before adding it to the contents of the current KCSServerMap.xml file. When you add the Main server, both the Admin server and License server will be added at the same time. To add a backup Main server, repeat Steps 3-6.



7. Click **Exit** to close the Network Edition Server Map Manager window or continue with the next step to add a Remote Output server.

NOTE: The Remote Output server can now be installed on the same server as the License/Remote Administration server. However, it is still recommended, for overall system performance, to have the Capture Pro Software server and Remote Output server on separate servers.

8. Add the Remote Output server, if one is to be installed. Type in the user-friendly name in the *Server Name* field and the IP address, machine name, or Fully Qualified Domain Name in the *IP Address/Machine Name* field.
9. Select **Output** from the *Type* drop-down box.
10. Make sure **Auto Check Server** is **not** enabled.
11. Select **Add Server**. To add additional Output servers, repeat Steps 8-11.
12. Click **Exit** to close the Network Edition Server Map Manager window. The completed server map .xml file will be saved in the folder selected in Step 2.

**Open** — use to browse to and select an existing server map .xml file.

**Modifying a server** — changes made to server will overwrite the current information in the servers list and in the current KCSServerMap.xml file. There is no undo operation. When you select **Modify Server**, the SMM will validate the information before adding it to the contents of the current KCSServerMap.xml file. For each defined server, *Server Name* and *IP Address/Machine Name* must be unique.

**Deleting a server** — deleting a server will remove the current information in the Servers list and the current KCSServerMap.xml file. There is no undo operation. When you select **Delete Server**, the selected item in the Servers list will be removed along with the information in the KCSServerMap.xml file.

**Auto Check Server** — allows you to verify the connectivity of the server. **Auto Check Server** is not checked by default. When it is checked, the server connection will be verified any time a server is added or modified. If a connection cannot be established, the appropriate errors will be displayed in the Status list.

If **Auto Check Server** is selected at the time a KCSServerMap.xml file is opened, each server's Connection Path is checked for connectivity. For each connection that cannot be established, the appropriate errors will be displayed in the Status list.

**Check Server** — allows the user to manually check any server selected from the Servers list. If a connection cannot be established, the appropriate errors will be displayed in the Status list.

## KCSServerMap.xml contents

```
<?xml version="1.0" encoding="utf-8"?>
<KCP_Server_Map xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Servers>
    <Server Type="Admin">
      <ServerName>F90</ServerName>
      <ConnProtocol>HTTP</ConnProtocol>
      <ConnPath>http://EASTMAN-OFRRF90/KCSNEAdminService/
NEServerService.svc</ConnPath>
      <UserName />
      <Password />
    </Server>
    <Server Type="License">
      <ServerName>F90 License</ServerName>
      <ConnProtocol>HTTP</ConnProtocol>
      <ConnPath>http://EASTMAN-OFRRF90/LicenseService/LicService.svc</
ConnPath>
      <UserName />
      <Password />
    </Server>
    <Server Type="Output">
      <ServerName>CU</ServerName>
      <ConnProtocol>HTTP</ConnProtocol>
      <ConnPath>http://EASTMAN-0NPT0CU/KCSNEOutputService/
NEServerService.svc</ConnPath>
      <UserName />
      <Password />
    </Server>
  </Servers>
</KCP_Server_Ma
```



