



KX EDGE *Studio* FAQ

*New Microsoft Windows Based Display Builder Leveraged for
Cross-Platform HMI Tool*

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"Interactive Data Visualization - On-Demand"

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Background

Over the past several years as Microsoft technologies have become more pervasive in control room application strategies, Kinesix has been requested to provide a “Sammi” type solution that is based purely on the .NET architecture. The result is the new KX EDGE product family from Kinesix.

In addition to the request for a Microsoft.NET based application development kit in general, there has been the expressed need for an updated display builder to either replace or at least augment the current Sammi Format Editor. This requirement has led to the development of KX EDGE Studio, a full-fledged Microsoft.NET based display builder that is both compatible with Sammi and the KX EDGE product lines. Not only does Studio provide a new and more updated interface, it also provides the ability to produce displays that can be accessed via a browser as well.

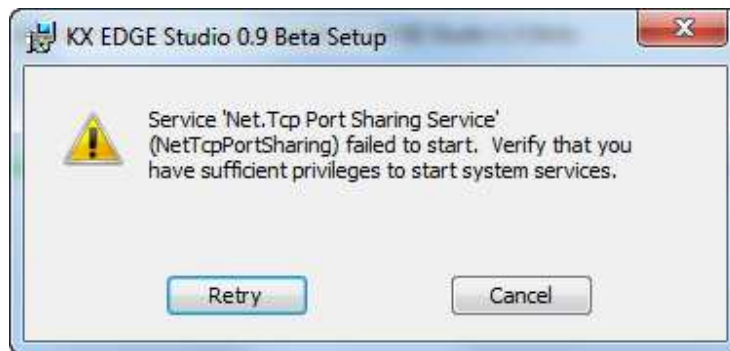
Therefore, the future generation of Kinesix products will continue to be based on the traditional Sammi family of products and the newly released KX EDGE family of products. Although these are separate product lines the overlap in functionality and makes for a development environment that has access to a wide mix of capabilities. Specifically, there is the capability of using Studio as the base display builder for all Sammi and EDGE based solutions.

Installation FAQ

Case 1: .NET Tcp Port error during install

Message:

If you get the following error during installation:



Solution:

Go to Control Panel -> Administration Tools -> Services

1. Locate the Net.TCP Port Sharing Service. If the service is not listed, then you need to ensure the Microsoft .NET 3.0 Framework is properly installed. If the service is listed, proceed to Step 2.
2. Double click on Net TCP Port Sharing service to get the properties dialogue below.

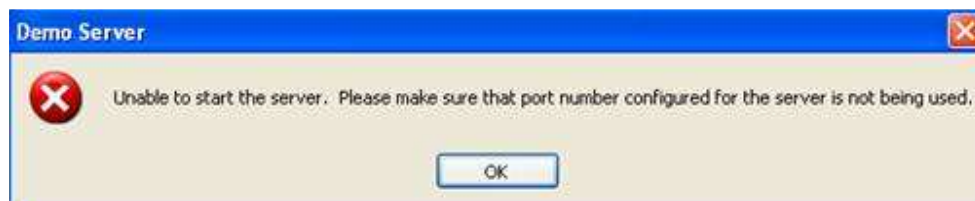


3. Change "Startup type" to "Automatic".
4. Select "Start". Then "OK".

Case 2: Error when Product Tour is automatically started

Message:

If you get the following error during at the end of installation when the Product Tour is automatically started:



Solution:

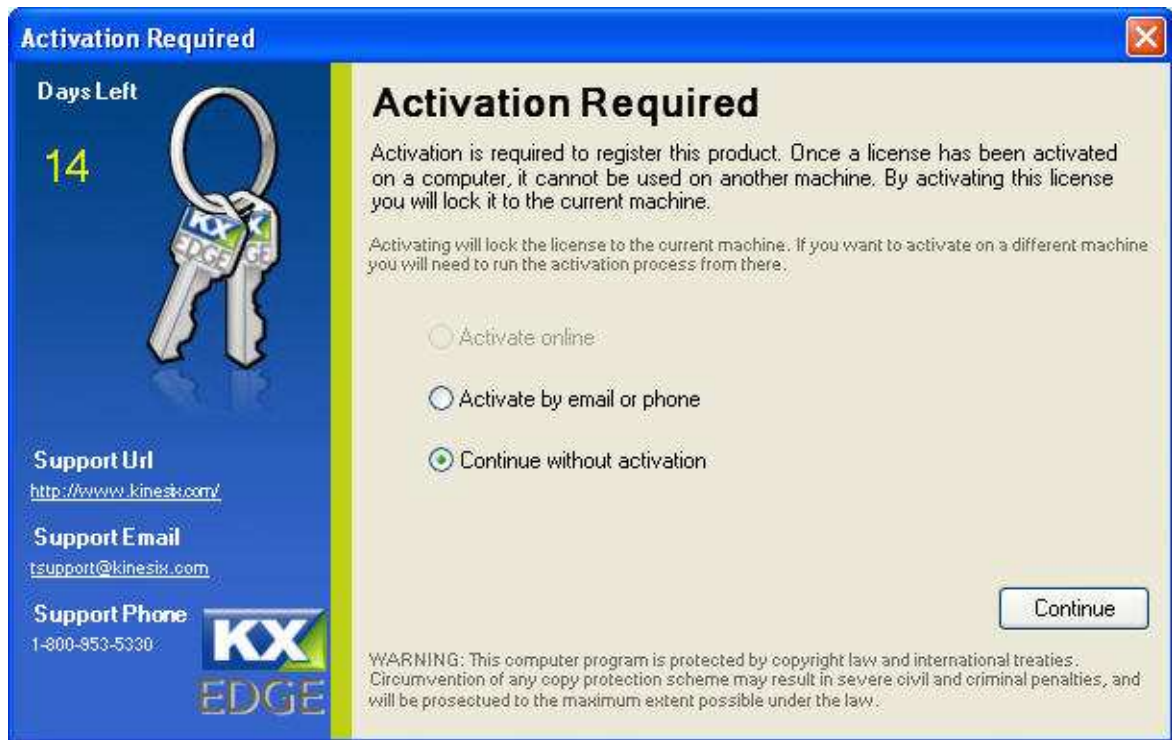
Go to Control Panel -> Administration Tools -> Services

1. Locate the Net.TCP Port Sharing Service
(If the service is not listed, then you need to ensure the Microsoft.NET 3.0 Framework is properly installed.)
2. Double click on Net TCP Port Sharing service to get the properties dialogue below.



3. Change "Startup type" to "Automatic".
4. Select "Start". Then "OK".

Case 3: License Activation Screen



Although the “Activation Required” screen will appear when running Studio for the first time after install, the product will run for 15 days out of the box with out a license key. Just make sure the “Continue without activation” box is checked and click continue.

You will be notified when the 15 days have expired. At that time click “Activate by email or phone”. That will populate an email addressed to our support team who will issue you a permanent license key.

If you have any questions contact support at : tsupport@kinesix.com.

Using Studio with Sammi 7.0- MUST READ

1. Overview

KX EDGE Studio (or just Studio) is a display building tool that can be used with Sammi and KX EDGE product lines. Studio provides a much improved user interface for display building plus many new features that increase efficiency and improve the graphical look and feel. Additionally, Studio enables Sammi and KX EDGE to produce displays for web browser deployment.

Displays created using Studio are compatible with the Sammi 7.0 runtime and Sammi runtime versions supporting the Studio add-on. The Sammi version compatible with Studio support enhanced colors, True Type Fonts, and gradient fill of shapes. All existing Sammi displays and supporting files will work without modification in the Sammi version compatible with Studio. Even though Studio runs on windows, using the existing Sammi ascii file scheme, you can create displays for other platforms.

2. Installing True Type Fonts for Sammi

Studio installs a set of true type fonts that must be installed on the runtime platform. Your existing displays can still use the current fonts but displays created or modified in Studio require the true type fonts. Use the following steps to setup the Studio fonts for use in the Sammi runtime.

Ubuntu 8.04 Platforms

- I. *Create a directory called sammifonts in /usr/share/fonts/truetype (you will need to be root to do this).*
- II. *On the windows, copy the fonts from the Studio install to the directory in step one. The font location in a default studio install is C:\Program Files\Kinesix\KX EDGE\KX EDGE Studio\fonts*
- III. *From the command prompt in Ubuntu, change to the directory in step one*
 - a. *Execute the command: mkfontscale – creates fonts.scale file*
 - b. *Execute the command: mkfontdir – creates fonts.dir file*
 - c. *Execute the command: xset +fp /usr/share/fonts/truetype/<yourfontdirectory> - adds the font to the fontpath*
 - d. *Execute the command: xset fp rehash – refreshes the cache for the font path*
- IV. *Update the xorg.conf file to make the true type fonts available at the next login.*
 - a. *Open /etc/X11/xorg.conf file for editing*
 - b. *Add a FontPath entry under “Files” section with path
"/usr/share/fonts/truetype/sammifonts"*

Windows Platforms

- I. *Copy the fonts from C:\Program Files\Kinesix\KX EDGE Studio\fonts to C:\Windows\Fonts*
- II. *Right click on Exceed icon in the status bar and select Tools → Configuration...*
 - a. *In the Configuration dialog, select Font Management*
 - b. *Under the Font tab, select Edit... to bring up Font Database dialog*
 - c. *Click on Add .FDB File... button to bring up Add Font Database File dialog*

- i. Enter in the Font Directory field: `c:\program files\hummingbird\connectivity\8.00\exceed\font\sammifonts`
 - ii. The subdirectory labeled "sammifonts" will be created.
 - iii. In Font Database File field, enter the string: `sammi`
 - iv. Click OK to dismiss the dialog and create the new subdirectory and font database file.
 - d. On the Font Database dialog, click on Add Win Fonts...
 - i. Select a Studio font to add to database and click on Add to add the fonts to database
 - ii. Repeat the step for all Studio fonts
 - iii. When the fonts are all added, click on Close to dismiss the dialog
 - e. In Fonts Database dialog, click on Font List...
 - i. Verify that the Studio fonts have been added to the fonts database
 - ii. Click on OK to dismiss the dialog
- III. Validate and Apply Changes in Exceed.
- IV. Restart Exceed to apply the changes

3. Import existing Sammi formats to Studio

To modify an existing Sammi format in Studio, you must import the format into a Studio project. (see the Studio online help for detailed information on importing formats and Studio features.)

There are 3 basic steps to import Sammi formats to Studio:

- I. Execute the `sammi_to_studio` script to create ascii versions of your files and convert them to windows format. The `sammi_to_studio` script is very similar to the `unload_fmfs` script in Sammi.

Windows Platforms

On the SAMMI system execute the program `sammi_to_studio.bat` with the following options.

```
sammi_to_studio -i sammiFilesLocation -o studioFilesLocation
```

The default command locations are:

```
sammi_to_studio -i %SAMMI%\data_studio -o c:\data_studio
```

Ubuntu 8.04 Platforms

On the SAMMI system execute the program `sammi_to_studio` with the following options.

```
sammi_to_studio -i studioFilesLocation -o sammiFilesLocation
```

The default command is:

```
sammi_to_studio -i $SAMMI/data_studio -o $SAMMI/data_studio
```

- II. Copy the output directory to a location accessible to the Studio installation. It can be local directory or a shared network directory.
- III. In Studio, use the import Sammi feature to add the displays to a Studio project. (see the online Studio help for details on using Studio features)

Important items to note

Your old displays will run in the updated Sammi without any changes.

Studio uses true type fonts and the displays created in older version of Sammi will use platform specific fonts. During the import process, Studio will modify the font to the default

font setting in Studio. You may need to manually set the font properties for any text on the display. Studio 1.2 will provide a mapping interface so that you can predefine the mapping of the original Sammi font to a Studio True Type Font.

Displays created in Studio no longer use the color index in user_colors.dat file. Studio displays contain the hexadecimal color value and the Sammi runtime is able to read the hexadecimal color value. Previously, Sammi was restricted to using only a subset of true colors as defined in user_colors.dat. Sammi can now access all colors.

A Studio compatible runtime has a new font file (alt_studio_fonts.dat) in addition to the alt_std_fonts.dat file. This new font file is used for displays modified or created in Studio. Displays not imported into Sammi will still use the original alt_std_fonts.dat file. If you add additional true type fonts to Studio, you will need to generate a alt_studio_fonts.dat file and copy it to the Sammi runtime installation.

The Sammi formats must be from at least Sammi 6.7.x version. To import older displays, unload using the older version of Sammi, re-load in Sammi 6.7.

4. **Exporting Studio displays to Sammi**

Studio creates ascii versions of formats that can be used on any platform. If Sammi is installed on the windows machine running Studio, Studio will create binary versions of the displays.

Studio Export Steps

While running Studio, open the project to export.
Right click on the project and select "export to SAMMI".
Provide a Sammi Output directory. The "SAMMI Projects Output" directory is configured in the Tools/General in the options bar in Studio.

The exported files will be placed in the following:

<SAMMI Projects Output>\<project name>

Sammi Steps - Windows Platforms

If Sammi is installed on the local machine, Studio will convert the ascii files to Sammi binary files. Otherwise, you will need to perform the following steps.

If the SAM2_DATAFILE is set to include the <SAMMI projects output>\<project name> path, the formats can be opened in the runtime. Otherwise, you will need to copy to the contents to a directory in the SAM2_DATAFILE path.

To complete the conversion, on the SAMMI system execute the program studio_to_sammi.bat with the following options.

```
studio_to_sammi -i studioFilesLocation -o sammiFilesLocation
```

where studioFilesLocation is the location of the files exported from Studio and sammiFilesLocation is the location for the Sammi binaries.

The default command locations are:

```
studio_to_sammi -i c:\data_studio -o %SAMMI%\data_studio
```

Once the program completes the Studio displays are now available for use with the SAMMI runtime.

Sammi Steps - Ubuntu 8.04 Platforms

Copy the files under <SAMMI Projects Output>\<project name> to a directory on the Ubuntu system (\$SAMMI/data_studio). NOTE: If your windows and Ubuntu machine have shared files you may not need to copy the directories when exporting files. You can export directly to a directory accessible a Ubuntu user.

On the SAMMI system, "cd \$SAMMI/bin" and execute studio_to_sammi with the following:

```
studio_to_sammi -i studioFilesLocation -o sammiFilesLocation
```

The default command is:

```
studio_to_sammi -i $SAMMI/data_studio -o $SAMMI/data_studio
```

Once the program completes the Studio displays are now available for use with the SAMMI runtime.

The displays will be located in the output directory passed to the studio_to_sammi script. This directory must be defined in the SAM2_DATAFILE environment variable so that Sammi will find the files. Otherwise, you will need to copy the contents to a directory in the SAM2_DATAFILE path.

5. Sammi Features Supported

Studio 1.0 Shapes and Controls

Advanced lists	Meter	Trend
Bar	Move-scale meter	Vector symbols
Bar chart	Plot	Line
Custom time	Push button	Rectangle
Dynamic object	Real	Arc
Fix-scale meter	Slider	Pie
Gauge	Text field	Circle
Integer	Toggle button	Ellipse
Menu	Toolbar	Frame
Polyline	Spline	Text
Polygon	Closed Spline	

Studio 1.2 Shapes and Controls

Advanced menu	Annotated text	Button group
Alarm	Bitmap symbols	Curve set

Drawport

Equation

Formatted numeric

Graphic data field

List manager

Object icon

Option menu

Pane

Pie chart

Region

Scroll bar

Tabular

Text symbols

Text Browser

Image

Using Studio FAQ

1. **What is KX EDGE Studio?**

KX EDGE Studio (or just Studio) is a new state-of-the-art display building tool that can be used with Sammi and KX EDGE product lines. Studio provides a much improved user interface for display building plus many new features that increase efficiency and improve the graphical look and feel. Additionally, Studio enables Sammi and KX EDGE to produce displays for web browser deployment.

2. **How does Studio work with Sammi?**

Studio is a fully functional display builder that can be used instead of the traditional Sammi Format Editor. Studio (currently) only runs on Microsoft boxes, but displays can be created for deployment on any platform by exporting to traditional Sammi ascii files.

3. **Do I have to "touch" each of my displays to upgrade to new Sammi version that uses Studio?**

Realizing that our customers may have hundreds or even thousands of displays Kinesix has made sure that there is "zero" effort to upgrade previous displays for use with the new Sammi release that works with Studio. Unless you want/need to edit an old display, the upgrade process is the same as it always has been – use `fmt_load/unload`.

4. **Can Studio produce displays for web?**

Although this functionality is not activated in the current release, Studio can produce displays that can run in an IE browser and connect back to a Sammi peer.

5. **Can web displays be connected to Sammi peers?**

Yes.

6. **How does Studio work with KX EDGE?**

Studio is the default display builder for the KX EDGE product line. This product line is similar to Sammi but is targeted solely at Microsoft based deployments.

7. **Can Studio run on Linux or other UNIX platforms?**

Currently Studio only runs on Microsoft based systems but internally we have versions running on Linux. The roadmap for Studio is to provide it on Linux and other UNIX based platforms in addition to the default Microsoft platform.

8. **What is a topic?**

"Topics" are what were referred to as "read keys" and "write keys" previously in Sammi. The change in name came about through the offering of a completely configurable "read key"

interface in Studio. Due to these changes, a generic name, "topics" was used. This has zero effect on your Sammi peer application. For example, you Sammi API based application will receive "topic" information in the same way as it has previously received "read key" information – no code changes are necessary.

9. What happened to "read keys"?

(see FAQ #1) Read keys and write keys have been replaced by a "topics" property.

10. What is a "data adapter"?

The "data adapter" property takes the place of the "logical server / read key" dialogue that was previously provided in the Sammi Format Editor. This now provides a generic, customizable interface for setting properties to connect to your application.

11. What version of Sammi does Studio work with?

Studio can import any Sammi 6 display. The Sammi Runtimes must be upgraded with a special "Studio add-on" before Studio created displayed can be deployed. For example, after applying the Studio Add-on the Sammi version would be: Sammi 6.7.14S. All Sammi 7 Runtimes will work directly with Studio and will not require an add-on.

12. Why is a Runtime "add-on" necessary?

Many new features have been introduced within Studio such as true color pallets, shading, new font management, etc that require the current Sammi Runtime to be updated for compatibility. BY applying the Studio add-in to your Runtime, all features are activated in the deployed displays.

13. What is the difference between Sammi and KX EDGE?

KX EDGE is a "Microsoft" based development kit similar to Sammi but is built entirely on Microsoft technologies and targeted at enterprise deployment on Microsoft platforms.

14. Will Sammi be replaced by KX EDGE?

Absolutely not. Although both product lines can share the new Studio display builder, each is an independent product that will continue to be a part of the Kinesix future offerings.

15. Will the Format Editor be replaced by Studio?

There are no plans to replace the Format Editor with Studio at this time. Studio is simply being offered as an option for building displays on your desktop Microsoft box.

16. How do I open/edit my Sammi formats in KX EDGE Studio?

To modify a format in Studio, you must import the file first. You only need to import your Sammi files one time. Once a file is imported, you can maintain the file from within Studio. Studio imports the ascii version of formats and vector symbols so files must be "unloaded".

The Sammi add-on provides a script, `sammi_to_studio`, to “unload” files and stage them for import to Studio.

17. How do I import my Unix-based formats into the Windows based Studio?

The Sammi Studio add-on provides utility scripts to assist in the process. The Unix-based formats must be converted to the Sammi ascii format, moved to location accessible to Studio, and imported. The `sammi_to_studio` script is a utility that converts the contents of a directory to a format for import to Studio. It also converts certain Unix based images into a Windows format.

18. What is the `sammi_to_studio` script?

Studio imports the ascii version of formats so formats must be converted to ascii before importing them. The `sammi_to_studio` script converts Sammi files to format that Studio can import and stages the files for import to Studio. The script parameters are similar to the `unload_fmtns` utility provided with Sammi. The script is located in the `$(SAMMI)/bin` directory.
`sammi_to_studio -i input_dir -o output_dir`

When executing the script, you provide an input directory and an output directory. The script converts all files that need to be converted to ascii and stages the files in the output directory. After moving this directory to a location accessible to your Studio installation, you use the import feature from within Studio.

19. How do I export my displays/formats to Sammi?

Studio provides a menu item to export one or all your displays/files to a staging area for Sammi. You define the staging directory using the Tools/General in the options bar in Studio. The files will be in ascii format so you must load the files using `studio_to_sammi` utility.

20. How do I export my displays to a Unix-based Sammi runtime?

When use the export feature of Studio, it saves the platform independent version of the Sammi files in the export directory. You must then copy the export directory to your Unix-based Sammi environment and execute the `studio_to_studio` script to convert the files to the binary format of your platform.

21. What is the `studio_to_sammi` script?

Displays created in studio and exported to Sammi are in ascii format. The `studio_to_sammi` script is a utility to convert all the files for use in the Sammi runtime. The script is located in the `$(SAMMI)/bin` directory and performs the reverse operation as the `sammi_to_studio` script.
`sammi_to_studio -i input_dir -o output_dir`

22. What are the exact steps for importing to Studio?

Windows Platforms

On the SAMMI system execute the program `sammi_to_studio.bat` with the following options.

```
sammi_to_studio -i sammiFilesLocation -o studioFilesLocation
```

The default command locations are:

```
sammi_to_studio -i %SAMMI%\data_studio -o c:\data_studio
```

In Studio, use the import Sammi feature to add the displays to the project.

Ubuntu 8.04 Platforms

On the SAMMI system execute the program `sammi_to_studio` with the following options.

```
sammi_to_studio -i studioFilesLocation -o sammiFilesLocation
```

The default command is:

```
sammi_to_studio -i $SAMMI/data_studio -o $SAMMI/data_studio
```

Now copy the `$SAMMI/data_studio` directory to your windows machine.

In Studio, use the import Sammi feature to add the displays to the project.

23. What are the exact steps for exporting to Sammi?

Windows Platforms

While running Studio, open the project to export.

Right click on the project and select "export to SAMMI". This will create the required files for processing the files into the SAMMI format. The export files will be placed in the following directory:

```
"SAMMI Projects Output"\project name
```

The "SAMMI Projects Output" directory is configured in the Tools/General in the options bar in Studio.

NOTE: If the SAMMI project is not on the same computer or accessible by the SAMMI user you will need to copy the directories and files located in "SAMMI Projects Output\project name" to your target machine/user account.

To complete the conversion, on the SAMMI system execute the program `studio_to_sammi.bat` with the following options.

```
studio_to_sammi -i studioFilesLocation -o sammiFilesLocation
```

The default command locations are:

```
studio_to_sammi -i c:\data_studio -o %SAMMI%\data_studio
```

Once the program completes the Studio displays are now available for use with the SAMMI runtime.

Ubuntu 8.04 Platforms

Follow steps 1 – 3 on exporting for Windows Platforms above.

NOTE: If your windows and Ubuntu machine have shared files you may not need to copy the directories when exporting files.

On the SAMMI system "cd \$SAMMI/bin" and execute `studio_to_sammi` with the following:

```
studio_to_sammi -i studioFilesLocation -o sammiFilesLocation
```

The default command is:

```
studio_to_sammi -i $SAMMI/data_studio -o $SAMMI/data_studio
```

Once the program completes the Studio displays are now available for use with the SAMMI runtime.

Studio Web Client FAQ

Client System Requirements:

The following is the client configuration needed to use the KX EDGE Web Client application.

- ✓ Internet Explorer – version 5.5 or greater. Visit <http://www.microsoft.com/windows/internet-explorer/default.aspx> to download latest version.
- ✓ Internet Explorer – enable the Active X control option allows .Net frame work – version 3.0 or greater. Visit <http://www.microsoft.com/net/> to download.
- ✓ Permissions in .NET security to allow the hosting URL to run .NET applications.

Case 1. Microsoft .NET Framework version 3.0 or higher is required

Message:

“The KX EDGE Web Client requires Microsoft .NET Framework version 3.0 or greater”

Solution:

Most Microsoft Windows versions have a version of .NET installed. The following is copied from MSDN support on how to determine the .NET version installed. From <http://msdn.microsoft.com/en-us/kb/kb00318785.aspx>:

*Inspect the **%systemroot%\Microsoft.NET\Framework** folder to determine which version is installed. The following folders contain the released versions of the .NET Framework:*

- v3.5
- v3.0
- v2.0.50727
- v1.1.4322
- v1.0.3705

Visit <http://www.microsoft.com/net/> to download .NET Framework. It may be necessary to download the full .NET framework package.

Case 2. .NET security settings will not allow the KxEdgeWebClient to run

Message:

"The KX EDGE Web Client could not run do to security settings.

Please run the Security Script file installed with the KX EDGE Web Server. When prompted with a certificate, please click Allow on the security certificate to register settings. After running the script, you must close all Internet Explorer windows.

Re-open a new Internet Explorer window and try to access KxEdgeWebClient.aspx to see the changes. Run ScurityScript "

Solution:

The .NET security settings must allow the KX EDGE Web Client URL to run. The security script provided with KX EDGE will update the security.config file in

%systemroot%\Microsoft.NET\Framework\v2.0.50727\CONFIG

to allow the KX EDGE Web Client to run from the hosting URL. The script will modify the security settings to allow "FullTrust" for the URL.

To resolve this issue, please run the provided security script on the client machine. The script is named SecurityScript located in the <install_dir>\KX EDGE\KX EDGE Web Server folder

The system administrator of the web server may want to develop a custom script and custom security settings.

Case 3. Maximum clients in use. No licenses available

Message:

"The maximum clients for the current license are in use. There are no licenses available until another client disconnects."

Solution:

The number of clients equals the maximum allowed simultaneous users according to the installed license. When a client disconnects, a license will be freed.

You must wait until another client disconnects and try again. If this problem persists, your system administrator may need to increase the maximum users by purchasing a license upgrade.

Case 4. Internet Explorer "add-on's" disabled

Message:

"KxEdgeWebClient Control failed to load."

Solution:

The KX EDGE Web Client requires ActiveX controls are enabled in your Internet Explorer browser and that add-ons are enabled. Please make sure your Internet Explorer browser supports ActiveX controls and add-ons are enabled.

Case 5. License Manager not running on web server

Message:

"There was an error in acquiring the license."

Solution:

The KX EDGE Web Server installs a service called "LicenseManager". The KX EDGE Web Client was not able to communicate with license manager to acquire a license.

Please contact your web server system administrator and ask them to check the status of the license manager. If the service is not running, start the service.

If the service is started, please verify the correct URL is being used to connect to the license manager.

Case 6. Lower version of Internet Explorer detected

Message:

"You must use Internet Explorer version 5.5 or greater for this application."

Solution:

Upgrade Internet Explorer to version 5.5 or higher. It is recommended to use the latest Internet Explorer release.