# KronoDesk

**KronoDesk<sup>®</sup> Administration Guide** Version 2.0 Inflectra Corporation

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# 1. Introduction

KronoDesk® is an integrated customer support system that includes help desk ticketing, customer support forums and an online knowledge base in a single user interface.

KronoDesk® includes a powerful and flexible help desk ticketing system that can be quickly and easily tailored to meet your support needs. With support for custom fields and workflows you can create different support processes for your different products.

KronoDesk® provides a knowledge base and online support forums. making your customers more self-sufficient with routine issues so that your support personnel can focus their time on the critical issues and complex enquiries.

This administration guide outlines how to setup a working installation of KronoDesk®, and how to perform routine administrative tasks.

It assumes a basic understanding of how to setup and administer a Windows Server<sup>®</sup>, or Windows<sup>®</sup> workstation, and also assumes that you have access to a valid Administrator level account.

For information on how to use the features of KronoDesk®, please refer to the *KronoDesk® User Manual* instead.

# 2. Installing KronoDesk<sup>®</sup>

This section outlines how to prepare your system for installation of KronoDesk<sup>®</sup>, how to actually install the software using the provided installation package, and finally how to ensure that your web-server is correctly configured to ensure secure operation.

The first sub-section will outline what hardware and software configurations are supported and the exact installation sequence for Windows 2012, 2008, 2003, 8, 7, Vista and Windows XP. The second sub-section will explain how to load the KronoDesk<sup>®</sup> software onto the server, and discuss common problems and solutions.

Server Requirements		
Requirement	Minimum Specification	
Processor:	Intel® or AMD® x86 or x64 compatible processor	
Memory:	4 GB, 8 GB recommended	
Operating System:	Windows Server 2008R2 Windows Server 2012 Windows Server 2012R2 Windows Server 2016 Windows 10, 8, 7 (for demoing)	
Database:	Microsoft SQL Server 2016 Microsoft SQL Server 2014 Microsoft SQL Server 2012 Microsoft SQL Server 2008 R2 SQL Server Express is supported, but not recommended for production due to limitations.	
Web Server:	Internet Information Services (IIS) 7.0 or higher .NET 4.5.2 Framework or higher	
Client Requirements		
Requirement	Minimum Specification	
Web Browser:	Mozilla Firefox Google Chrome (Desktop and Android) Apple Safari (Desktop and iOS) Microsoft Edge Opera Internet Explorer 11.0 (not recommended)	

The minimum hardware and software requirements for running the KronoDesk<sup>®</sup> system are:

\*Note that KronoDesk<sup>®</sup> can be loaded onto either Windows Server or workstation editions, provided that the IIS web-server is installed and that SQL Server is available as a database engine. However Windows workstation editions can only support a maximum of 5 concurrent user web sessions. In general unless there are only going to be a couple of client machines hitting the server, we recommend using a Windows Server OS.

## 2.1. System Prerequisites

Assuming that you have already installed the appropriate version of Microsoft Windows onto your computer (or that has been pre-installed for you), you need to then make sure that the various prerequisites have been correctly added to your installation before trying to install KronoDesk<sup>®</sup>. The KronoDesk<sup>®</sup> installer will check to ensure that the various prerequisites are in place, and will abort the installation if any are missing, indicating to you what action needs to be taken.

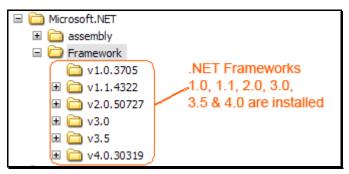
We recommend that you install / configure the prerequisites in the following order:

- ▶ Install the .NET Framework v4.5.2
- Install SQL Server 2008R2, 2012, 2014, or 2016.
- > Install the latest version of Internet Explorer that your server OS allows
- > Ensure that IIS is installed
- > Ensure that ASP.NET 4.5.2 is enabled

#### 2.1.1. Install the .NET Framework v4.5.2.

On Windows 10, 8 and Windows Server 2012+ installations, Microsoft .NET Framework v4.5.2 is usually installed as part of the factory configuration, whereas on earlier operating systems, you might need to manually add the .NET 4.5.2 framework.

To see which version of the Microsoft .NET framework installed, open up Windows Explorer® and navigate to <u>C:\WINDOWS\Microsoft.NET\Framework</u> and then the subfolders listed will indicate which version(s) of the framework you have installed:



To install the .NET Framework, please go to the Microsoft website and install the latest version of the .NET Framework available for your operating system. At the time of writing it was .NET 4.6.

#### 2.1.2. Install SQL Server 2008R2+

Install the appropriate version of the database software, following the instructions provided with the installation. Since KronoDesk is an enterprise-level software, we recommend SQL Server 2008 R2+, Web, Standard, or Enterprise editions. Express editions have limitations on Ram and CPU usage, and can cause significant performance issues. We also recommend enabling FullText indexing, as KronoDesk will take advantage of those extra indexes and dictionaries produced for faster searching and result pages for users.

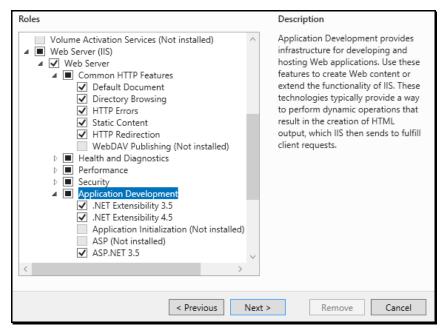
#### 2.1.3. Install Modern Browser

The KronoDesk UI is compatible with all modern browsers, but uses some HTML5 specific features on some pages, so on other third-party mobile browsers, some pages may not appear correctly.

#### 2.1.4. Ensure that IIS is installed

On Widows Server installations, you may have to install the IIS Role if it is not already active.

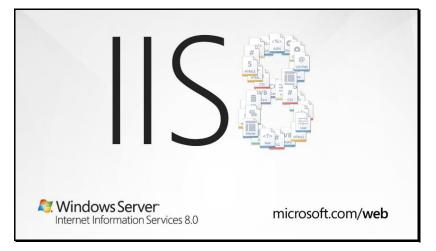
On **Windows Server 2012+**, you need to click on Server Manager, then under the "Roles" heading, choose the option to "Add Role" followed by selecting the new role "Web Server / IIS". Then click "Next" to bring up the role configuration screen:



Make sure that the following features are enabled:

- Web Server (IIS)
  - Veb Server
    - Common HTTP Features
      - Default Document
      - ▷ Directory Browsing
      - ▷ HTTP Errors
      - ▷ Static Content
      - ▷ HTTP Redirection
    - > Application Development
      - ▷ .NET Extensibility 3.5
      - ▷ .NET Extensibility 4.5
      - ▷ ASP.NET 3.5
      - ▷ ASP.NET 4.5
      - ▷ ISAPI Extensions
      - ▷ ISAPI Filters
    - > Management Tools
      - ▷ IIS Management Console
      - ▷ IIS Management Service
- .NET Framework 4.5 Features
  - ▷ .NET Framework 4.5
  - ▷ ASP.NET 4.5
  - ▷ WCF Services
    - HTTP Activation
    - > TCP Port Sharing

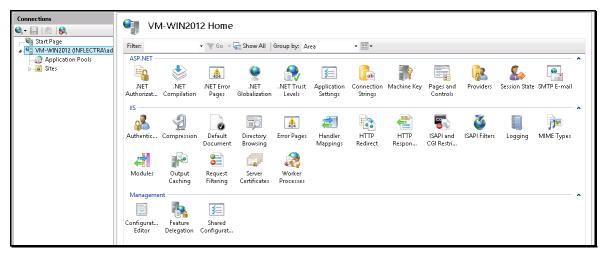
To verify that this IIS is now installed, type <u>http://localhost</u> into the address bar of Internet Explorer on your computer. You should see a screen displaying the initial IIS startup page:



#### 2.1.5. Ensure that ASP.NET is installed

Now that you have both IIS and .NET installed, you need to make sure that the Active Server Pages (ASP.NET) components that allow IIS to access the .NET framework have been correctly configured. If you installed .NET *after* IIS then ASP.NET is typically configured for you, but if you installed IIS afterwards, then further manual steps may be necessary. The settings are different depending on which version of Windows you are using:

To verify that ASP.NET has been correctly configured, click on Start > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager to launch the IIS administrative console:



You should see a section called "ASP.NET" occupying the top third of the IIS screen. If not, then you need to go back to section 2.1.3 and make sure that you chose the option to install ASP.NET when installing IIS.

#### 2.1.7. Ensure the Visual C++ 2013 Runtime is Installed

Make sure you have the Visual C++ 2013 Runtime installed (both the x86 and x64 versions). If you are not sure whether you have that installed or not, please go to <u>https://www.microsoft.com/en-</u>

<u>us/download/details.aspx?id=40784</u> and download the x86 and x64 versions and try installing them. If they are already installed, the installer will let you know.

# 2.2. Installing the Software

Now that all the prerequisites have been correctly installed, you are now ready to install KronoDesk<sup>®</sup> onto your system. To perform the installation, you will need the installation package downloaded from the Inflectra<sup>®</sup> website, the name of the organization that the software is licensed to, and the actual license key code which will be available in the customer area of the Inflectra<sup>®</sup> website.

To start the installation, double-click on the KronoDesk<sup>®</sup> installation package (it will have a filename of the form KronoDesk-v2.0.msi), and the Windows Installer will display the following dialog box:



If you are upgrading from an earlier version of KronoDesk<sup>®</sup>, the dialog box will be similar except that it will instead let you know that you are upgrading from an earlier version to the current one:



In this instance the installer will update the program files on your computer and migrate your data into the new version seamlessly. If for any reason you **don't see the upgrade message** and you have an existing installation, don't continue, but instead **contact Inflectra® customer support first**. This will ensure that your existing data is not overwritten by a clean install.

In either case, click the <Next> button to start the installation wizard which will gather information from you regarding how you want to setup the system, before actually installing the web-server files and database components. The next page of the installation wizard will display a list of all the required pre-requisites and whether the installer could find them or not:

KronoDesk Checking Prerequisites	×
Verifying Prerequisites Checking to make sure prerequisites installed	onoDesk®
The list of prerequisites is displayed below. Please fix any errors the installation. Please click on the details button to learn how to	
Microsoft Internet Information Services (Web Server)	Details
Microsoft ASP.NET Web Server Extensions (4.5.50709)	<u>D</u> etails
Microsoft Visual C++ 2013 Runtime Library	<u>D</u> etails
	Ignore
< <u>B</u> ack	Next > Cancel

If any of the prerequisites were not correctly installed, the installer will display a red 'X' icon next to the missing component(s). If this happens, please refer to section 2.1 for installation of any prerequisites. If

for any reason you have the prerequisite installed but the installer was not able to find it (this can occasionally happen on certain environments), click the <lgnore> button to proceed with the installation.

Once the prerequisites have been correctly installed, clicking <Next> will bring you to the next page in the installation wizard:

🕼 KronoDesk License Agreement	×
End-User License Agreement	ß
Please read the following license agreement carefully	SK
End User License Agreement	^
INFLECTRA SOFTWARE END USER LICENSE AGREEMENT IMPORTANT: THIS SOFTWARE END USER LICENSE AGREEMENT	
( EULA ) IS A LEGAL AGREEMENT BETWEEN YOU AND	
INFLECTRA. READ IT CAREFULLY BEFORE COMPLETING THE INSTALLATION PROCESS AND USING THE SOFTWARE. IT	
PROVIDES A LICENSE TO USE THE SOFTWARE AND CONTAINS WARRANTY INFORMATION AND LIABILITY DISCLAIMERS, BY	
INSTALLING AND USING THE SOFTWARE, YOU ARE CONFIRMING YOUR ACCEPTANCE OF THE SOFTWARE AND AGREEING TO	
I accept the terms in the License Agreement	<b>W</b>
○ I do not accept the terms in the License Agreement	
< <u>B</u> ack <u>N</u> ext > Can	cel

The next screen in the installation wizard outlines the KronoDesk<sup>®</sup> End User License Agreement (EULA). Please read this carefully as it describes the legal contract between you – the user of the software – and Inflectra<sup>®</sup> Corporation, the developer and publisher. Once you have read the agreement and understood your rights and obligations, select the radio button marked "I accept the terms in the License Agreement" and click the <Next> button.

The following screen will be displayed:

KronoDesk Setup Choose the Product being Install Choose the name of the product the	ed hat you are installing: Kronopesk
KronoDesk®	<b>KronoDesk</b> An integrated customer support system that provides help desk ticketing, online forums and a searchable knowled
	۷
	< Back Next > Cancel

Click on the KronoDesk<sup>®</sup> button to confirm that you want to install KronoDesk. Once you have done this, the following screen will be displayed:

🕼 KronoDesk Setup	X
Customer Information	Kuanal
Please enter your customer information	Krono <b>Desk</b> ®
<u>U</u> ser Name:	
Adam Sandman	
Organization:	
Inflectra Corporation	
(Must match the Organization name the	License was issued to)
License Key:	
[	< <u>B</u> ack <u>N</u> ext > Cancel

You need to enter your full name, the *organization that was issued the software license*, and finally the full hexadecimal license key that was provided with the software. Once you click <Next>, the installer will verify that all three were entered, and that the license key matches the product being installed and that it matches the organization name. The installer will warn you of any discrepancies, but will allow you to proceed; however after installation, the system will not operate until a correct license key is entered.

If for any reason you are unable to get the provided license key to work, please contact Inflectra<sup>®</sup> customer support immediately and they will resolve the issue.

After clicking <Next>, you will be given the choice of installation to perform:

🕼 KronoDesk Setup	×
Choose Setup Type Choose the setup type	that best suits your needs Kronopesk®
X N N N N N N N N N N N N N N N N N N N	Complete Installation Installs the full application and all the required database files. Recommended for most users.
1.	Application Only Installs only the application program files. This is useful if you already have the database installed on another server.
	Custom Installation Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.
	< Back Next > Cancel

By default, the installer will install all of the KronoDesk<sup>®</sup> features onto the target system, so we recommend choosing "Complete Installation", which will both install the complete system – application

and database. For advanced users who want to change the folder to which the system is installed (by default it is C:\Program Files (x86)\KronoDesk), change the name of the database created (by default it will be KronoDesk) or to prevent the installation of the optional web-services data integration modules, you can choose the "Custom Installation" option, which allows you to change those settings prior to installation.

The "Application Only" installation is useful when you need to move the application to a different server, but want to leave the database installed on the same server. In this case you can use the "Application Only" installation on the new server, and once the installation is completed, change the name of the database pointed to in the "web.config" file to the existing database server.

This manual assumes that the "Complete Installation" option is chosen, in which case the following screen is displayed:

🔀 KronoDesk		_		×
Select A Virtual Directory			I ®	
Select the web site virtual root	K	ronoD	esk	
This will install KronoDesk in the following v	irtual directory.			
To install to this virtual directory, click "Next below.	.". To use a diffe	rent virtual directory	y, enter the n	ame
Virtual Directory KronoDesk				
				٢
	Cancel	< <u>B</u> ack	<u>N</u> ext	>

This screen allows you to change the name of the web-site URL that will be user to access the system. By default, users would need to type into their browsers: <u>http://<server\_name>/KronoDesk</u>. Should you want to have a different name – other than KronoDesk – change the name in the Virtual Directory box, otherwise simply accept the default name and click <Next>. Note: The installer will check to make sure that the name you have chosen is not already in use, and will warn you if it is.

Upon clicking <Next>, you will be taken the database connection screen:

🛃 KronoDesk		_	
Select A Databa	<b>se</b> nase to install on	KronoDes	-L <sup>®</sup>
Select the data		RIONODE	5K
The installer will i	now collect the information about y	our SQL Server database.	
	name of the database server, and t be used to create the database obj		n-administration
	Windows Authentication	◯ SQL Server Authenticati	on
<u>S</u> erver	TARDIS\SQLEXPRESS		
<u>L</u> ogin	sa		
<u>P</u> assword			
	✓ Install Sample Data		۲
	Cance	el < <u>B</u> ack	<u>N</u> ext >

You can connect to the SQL Server database using either Windows Authentication or SQL Server Authentication, and the process is slightly different for each mode:

#### 2.2.1. Windows Authentication

This is the easiest option when the application and database will be residing on the *same* server. In this case, choose the "Windows Authentication" option and the Login/Password boxes will be disabled. In this case, the installer will connect to the database using your current Windows login to create the application database objects, and KronoDesk<sup>®</sup> will connect to the database during normal operation using either the ASPNET or NETWORK SERVICE Windows accounts (it depends on the version of the operating system).

#### 2.2.2. SQL Server Authentication

This is the recommended and easiest option when the application and databases will be residing on *different* servers across the network. In this case, choose "SQL Server Authentication" and provide a SQL Server Login that has Database Owner (DB-Owner) permissions – e.g. the built in System Administrator (SA) account. The installer will use this DB-Owner account to create the database objects, and KronoDesk<sup>®</sup> will use a special login (called KronoDesk by default) for normal application operations.

For either mode, in the "Server" box, you need to enter the name of the Microsoft SQL Server instance that is running on your system; the installer will default it to the hostname of the server (which in many cases will be correct). The easiest way to find out the database server name is to open up the SQL Server Administrative console (typically by clicking Start > Programs > Microsoft SQL Server > Enterprise Manager) and look for the name of the server.

Once you have entered the various pieces of information, click <Next>. The installer will attempt to connect to the database using the provided information, and it will display an error message if any of the information is incorrect. Assuming the information is correct, the following screen will be displayed:

Advanced Database C	onfiguration		
Please specify the follo	wing database options	Kronod	esk®
The installer will now let	you specify the advanced databa	ase configuration setti	ngs.
Please choose the name created by the installer.	of the database login, database	name and database u	iser that will be
Database <u>L</u> ogin	NT AUTHORITY\NETWORK	SERVICE	
Database <u>N</u> ame	KronoDesk		
Database <u>U</u> ser	KronoDesk		
			Q

This page lets you customize the name of the database login, database name and database user that the application will create. If you chose the "Custom Installation", then the fields will be editable, otherwise they will be read-only. Also if you chose "Windows Authentication" then the Database Login field will be set to the built-in Windows account associated with ASP.NET for the specific operating system being installed on (and cannot be changed). Once you have reviewed this page and made any changes, you should click <Next> to proceed:

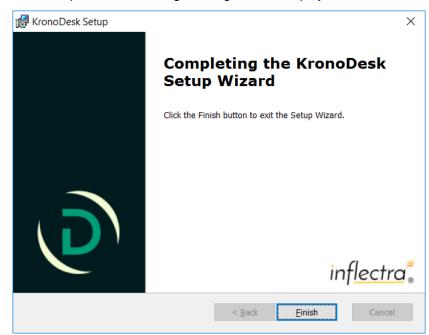
🕼 KronoDesk Setup	×
Ready to Install The Setup Wizard is ready to begin	n the Complete installation rono Desk
Click Install to begin the installation settings, click Back. Click Cancel to	<ul> <li>If you want to review or change any of your installation exit the wizard.</li> </ul>
	< <u>B</u> ack Install Cancel

Click the <Install> button to actually begin the process of installing KronoDesk<sup>®</sup> onto your system. If you are installing KronoDesk<sup>®</sup> onto Windows Vista (or later), then you will first be prompted by the Windows User Access Control (UAC) security system to confirm that you want to install a new piece of software. Click the option that confirms you want to proceed with the install.

The installer will then display a progress bar that gradually fills as the installation proceeds:

🕼 KronoDesk Setup	X
Installing KronoDesk	Krono <b>Desk</b> ®
Please wait while the Setup Wizard inst	alls KronoDesk. This may take several minutes.
Status:	
	< <u>B</u> ack <u>N</u> ext > Cancel

Once the installation is complete, the following message will be displayed:



Congratulations! You have successfully installed KronoDesk<sup>®</sup> onto your system. If you type <u>http://localhost/KronoDesk</u> into your browser you should see the KronoDesk<sup>®</sup> home page, as illustrated in the *KronoDesk<sup>®</sup>* User Manual. If for any reason you don't see the home page, please refer to *Appendix A* – *Troubleshooting IIS* or contact Inflectra<sup>®</sup> Technical Support using one of the methods described at our website <u>http://www.inflectra.com/Support</u>.

The default login/password for accessing KronoDesk is:

- Login: administrator
- Password: PleaseChange

## 2.3. Security Considerations

It is important to note that by default, all web pages served by IIS using the HTTP protocol are unencrypted, and as such, the usernames and passwords used by KronoDesk<sup>®</sup> to log into the application can be read by network sniffing tools. If you are using KronoDesk<sup>®</sup> purely within an intranet environment, this may not be an issue. However if you are externally hosting KronoDesk<sup>®</sup> onto a publicly accessible website, we recommend installing a Secure Sockets Layer (SSL) encryption certificate, and restricting all web-traffic to the secure HTTPS protocol instead. For details on how to perform this task, please refer to *Appendix B - Installing an SSL Certificate*.

# 3. System Administration

Now that you have successfully installed KronoDesk<sup>®</sup>, this section of the guide outlines how to perform the typical system-wide administrative tasks necessary for setting up projects in the system, managing users and verifying the license information. To perform these tasks, you need to login to the system with a user that is a member of the "Administrator" role. The special "administrator" login is created by the installer for this very purpose. You should initially login to KronoDesk® with the username <u>administrator</u>, and the password <u>PleaseChange</u>. It is recommend that this password be changed as soon as possible to something that is secure yet memorable by clicking on the "User Profile" link – see the KronoDesk® User Manual for more details.

Once you have logged in as an Administrator, you need to click the "Administration" link in the main navigation bar. This will display the Administration home page:

KronoDesk®	🏶 Home Page 🛛 🗘 Knowledge Base 🔍 Fe	Forums 🖂 Help Desk 🕍 Reports 🗳 Administration Search Q 🎧 administrator 🗸							
System Settings Users	System Settings: General S	Settings							
Forum Settings Knowledge Base Settings	This page allows you to modify the gener-	This page allows you to modify the general KronoDesk system settings:							
Help Desk Settings	Default Culture:	Invariant Language (Invariant Country)							
	Default Timezone:	Server Default 🔻							
	Attachments Folder*:	C:\Subversion\Projects\KronoDesk\Trunk\Web\Attachments							
	Application Base Url*:	http://localhost/KronoDesk							
	Require SSL*:								
	Default Role::	User							
	Maximum # Invalid Password Attempts	s* 5							
	Minimum Required Password Length*:	6							
	Minimum Required Special Characters*	0							

The page displays a list of the various administration settings pages categorized by the part of the application they relate to. You can expand and collapse the administration group by clicking on the green header bar. By default, the administration home page will display the System Settings > General Settings page described in section 3.1.1 below. Each of the other administration settings pages is described separately below.

# 3.1. System Settings

This section contains all of the application-wide settings that affect the entire system, rather than a specific module. The only exception is that the settings related to authentication and user management are in their own separate group "User Settings".

### 3.1.1. General Settings

The General Settings page is used to set the general application-wide settings that affect the overall application and are used to ensure that the application matches your environment. In the current version, you can specify the default language, specify the base URL, configure the folder used to store document attachments and also specify whether certain parts of the application should require a secure connection.

KronoDesk®	🏶 Home Page 🛛 🖗	Knowledge Base	오 Forums	🖂 Help Desk	III Reports	Administration	Search	۹ 🖡	administrator 🔸
System Settings Users	System	Settings: Gene	eral Setting	gs					
Forum Settings Knowledge Base Settings	This page	This page allows you to modify the general KronoDesk system settings:							
Help Desk Settings	Default C	ulture:	Inva	riant Language (Inva	riant Country)	•			
	Default Timezone:		S	erver Default		•			
	Attachme	nts Folder*:	C:\5	ubversion\Projects\	KronoDesk\Trunk	\Web\Attachments			
	Applicatio	on Base Url*:	http	://localhost/KronoD	esk				
	Require S	SL*:							
	Default Re	ole::	Use	r	•				
	Maximum	# Invalid Password Att	empts* 5						
	Minimum	Required Password Ler	ngth*: 6						
	Minimum	Required Special Chara	cters": 0						

This page lets you specify the following values:

- **Default Culture** KronoDesk can display information in a variety of different languages (assuming that the appropriate language packs have been installed) and number formats. By default, KronoDesk will use the regional settings (language and number formats) of the operating system it has been installed on. However, you can override this default by choosing the appropriate culture from the list of options displayed in the drop-down list. *Note: The list of culture options does not reflect the available language packs, so in some cases, the setting will only change the number formats.*
- **Default Time Zone** KronoDesk stores all dates and times internally in Universal Coordinated Time (UTC) and can therefore display dates/times adjusted for different time zones. By default, KronoDesk will display dates in the time zone specified in the operating system it has been installed on. However, you can override this default by choosing the appropriate display time zone from the list of options displayed in the drop-down list.
- Attachments Folder By default when KronoDesk is installed, the document attachments uploaded in the system get stored inside the <u>C:\Program Files\KronoDesk\Attachments</u> folder located inside the main KronoDesk installation root. However you may want to have the documents stored on a remotely mounted drive or on a different hard disk partition. In which case you can simply change the folder pointed to in the text-box illustrated above and then click [Save] to commit the change. When changing the directory, be sure to move any existing attachment files to the new location, and verify that the IIS User has read and write access to the directory.
- Application Base URL This is the URL that your users use to access the system. Do not put the /Login.aspx or any other page here, as this URL is used to generate links to different pages in

the application. This setting is primarily used in email notifications and RSS feeds to specify the URL of the application.

- **Require SSL** When this is selected, the application will require a secure connection when accessing the Account Profile pages. This is useful if you want to run the site using an unencrypted connection (to maximize performance) but want to require a secure connection for the login pages where a user will have to enter a password. Using this option requires that you have a Secure Sockets Layer (SSL) certificate installed on your web server.
- **Default Role** When a new user registers to access your instance of KronoDesk you have an option of assigning them a default role in the system.
- Maximum # Invalid Password Attempts Set this to the number of times a user can enter an
  incorrect password before their account is temporarily locked out. This is important in preventing
  'brute force' password hacking attempts.
- Minimum Required Password Length Set this to the minimum length of passwords in the system. Choosing a longer password will make it harder for an unauthorized user to crack a password and gain entry into the system.
- **Minimum Required Special Characters** Set this to the minimum number of non-alphanumeric characters that will be required for passwords in the system. Choosing more required special characters will make it harder for an unauthorized user to crack a password and gain entry into the system.
- **Password Attempt Time Window** Set this to the duration (in minutes) after which a user's account will be automatically unlocked (due to repeated incorrect password attempts).
- Authentication Expiration This specifies the amount of time (in minutes) after which a user will be logged out due to inactivity when they login without choosing the 'Remember Me' option.
- Keep Me Logged-In Expiration This specifies the amount of time (in minutes) after which a user will be logged out due to inactivity if they have chosen to login with the 'Keep Me Logged-In' option. This should normally be longer than the previous setting.
- Use SQL Free Text If possible, when running searches and queries, have the application use SQL's Free Text indexing to speed up result pages to users. Note that enabling Free Text Indexing will require higher minimum system requirements for the SQL Server.
- Allowed Domains TODO
- Authoritative Domain/Protocol In case where multiple domains point to the same installation (i.e. www.kronodest.net and kronodest.net), any access to the application will redirect to the domain and protocol entered here.

#### 3.1.2. Enabled Sections

This section allows you to activate and deactivate different parts of the application (for example you might not want to initially make the support forums available to customers). Changes take effect immediately, and no data is lost. You can enable the sections at a later date, and still have all of your information from earlier. You are still able to adjust settings for a disabled section in Administration, but none of the changes will be visible until the section is re-enabled.

	and activate different parts of the application. Changes take effect immediately, and no data is lost. You can enable the sections at a later ion from earlier. You will still be able to adjust settings for that section in Administration, but none of the changes will take effect until th
Enable Forums:	Yes 💌
Enable Knowledgebase:	Yes 💌

#### 3.1.3. Appearance

The Appearance page is used to customize the information displayed in KronoDesk and edit the colors and theme of the application.

#### 3.1.3.1 Theme Tab

The first tab lets you select a pre-generated theme to use or create a new theme or edit an existing theme.

Appearance	Branding	
Appearance	Dranding	
After selectin	ng an existing theme from the dropdown you can pro	eview it, by clicking the "Edit Theme" button. This will
display an int	eractive popup, to dynamically change the look and	I feel of your site. To activate a theme, select it from the
dropdown an	d click Apply.	
Select Theme	5	
Default	Apply	Ihomo
Delault	Арріу	hieme
Edit Selected	Theme Create New Theme	

On this tab, you can select and 'Apply' the theme you want to use for the application. Or, if you select 'Edit Selected Theme' or 'Create New Theme', you will be taken to the theme edit window:

Default Save Cancel			
heming Options	Previews		
Background Colors and Borders	Lorem Ipsum Dolor Sit		
Background Main	Falli	Efficiendi	
Border Color	Usu ea graece hendrerit 07/06/2006	Alii definitionem te duo. Mei in justo laudem. Dic appareat recteque vix id, mel ut elitr definiebas,	
Selecting from a List	Populo essent vix 07/20/1969 Eros labore quaeque ius te	nominati eos eu. Decore sententiae	
Error and Warning	11/05/1955	An ius libris insolens voluptaria, qui at tantas:	
Tabs and Active Uterations		Search	۹
Rounded Corners 4 px			
<b>Fext</b>	Lorem Ipsum Dolor Sit		
Standard Text	Brownies		
Headings 🗾 🗸		Wafer	

By selecting the colors in the selection boxes, the live preview window will update to show how the actual application will work, using a sample page. Once you have your design configured, click the 'Save' button to return to the theme selection. Then, click the 'Apply Theme' button to apply the designed theme to the whole application.

#### 3.1.3.2 Branding Tab

This tab is where you can specify static information relating to your company, external links and other fixed-page items.

This page lets you specify the following values:

#### Images:

- **Company Logo** This is the image that is displayed in the top left corner of the navigation bar, on wider devices. (Desktops, tablets in landscape mode, etc.)
- Mobile Logo This is the image that is used in the top left corner on smaller devices.

#### Company Information:

- Company Name This field is used to change the name of the company that is displayed in the application footer
- Copyright Year This field is used to change the copyright year to match the starting year of your company's website copyright.
- Contact Phone Number This field is used to specify the phone number that should be displayed on the application footer
- Email Address this field is used to specify the email address displayed on various pages within the application. We recommend that you set this to match your primary support email address (e.g. <u>support@mycompany.com</u> or <u>info@mycompany.com</u>).
- RSS Feed The application home page will display a list of recent news headlines from your company's newsfeed. To enable this functionality, simply enter the URL for your company's RSS newsfeed into this text box and it will automatically enable the home page widget and tell it to display news items from your newsfeed.
- **Title Prefix** All of the web pages in KronoDesk prefix the title of the page with the application name (e.g. "KronoDesk | Help Desk" or "KronoDesk | Support Forums"). This setting allows you to choose the text displayed in the prefix. We recommend we set it to your company's name. That way, web pages will be displayed using this name (e.g. "MyCompany | Help Desk").

#### Hyperlinks:

- Header Icon Link This is the URL to take the user to when they click the company logo.
- Useful Link #1 #3 These are the names (text) and the URLs to display to the user. These can be used in Email templates for notifications going out to users, and are displayed on the customer's home page.
- Footer Link #1 #3 These are the names (text) and the URLs to display to the user. These are displayed in the footer of the application.

#### Introduction Text:

- **Description #1** This rich-text section is displayed on the customer's home page under the top heading 'Support Overview'.
- **Description #2** This rich-text section is displayed on the customer's home page under the 'Fill Out a Help Desk Ticket' section.

#### 3.1.5. Email Configuration

This section allows you to change the settings regarding how KronoDesk sends out email notifications. There are several tabs that you contain different settings:

#### 3.1.5.1. Email Options

This tab allows you to change some of the basic high-level email settings:

Email Options	SMTP Server	Message Templates	5	
Allow Outgoir	ng Emails?		Ye:▼	
Send user a welcome email at registration?			No	
Notify the Adr	nin of new user?		No	
From Email Ac	ldress:		administrator@mycompany.com	From Name
Reply-To Emai	l Address:		Reply-To Email	Reply-To Name
Force Email Co	ontrol?		Ye: •	
Send Email Im	porter Separator?		Ye: •	
		1	Save	

#### The options are:

- Allow Outgoing Emails: Turning this off will disable ALL outgoing emails. Note that with this off, the email importer cannot be used, as users created via the importer will not be able to verify their account.
- Send User Welcome Email: When this is enabled, a new registered user will receive a welcome email.
- Notify Admin of New User: When enabled, the administrator account will be sent an email notifying of a new user registration.
- From Email Address: On outgoing emails, this name and address is the email account the email will come from.
- **Reply-To Email Address:** On outgoing emails, this name and address will be in the 'Reply-To' header of the email.
- Force Email Control?: This setting lets the users define their own email options. If enabled, then users will not be able to disable receiving emails from the application. If disabled, they will be able to turn off email notifications.
- Send Email Separator: Recommended if using the Email Importer for importing support tickets from an email account. Enabling this will add a line that will help the Importer keep reply text as minimal as possible.

#### 3.1.5.2 SMTP Server

This page allows for setting up KronoDesk to communicate with your SMTP Server. The fields available and their usage are:

Email Options	SMTP Server	Message Templates			
Outgoin; Use IIS Mail Se	-	nfiguration	No¥		
SMTP Server & Port:			ood.corp.inflectra.com	25	•
Use SSL Connection?		No •			
SMTP Server UserID:					
SMTP Server Password:					
		1	Save		

#### The options are:

- Use IIS Mail Server Settings: If set to 'No', you must define your SMTP server information below. If set to 'Yes', the application will use the defined IIS virtual server settings.
- **SMTP Server Hostname / Port**: The DNS or IP address of the SMTP server, and the port that it accepts incoming mail on.
- Use SSL Connection: Whether or not the SMTP server requires an SSL connection.
- **SMTP Server UserID / Password**: The username or password to log onto the SMTP server with. If no username or password is required, enter in 'anonymous' in both fields.

#### 3.1.5.3 Mail Templates

This tab allows you to customize the email templates that are sent out:

Email Options SMTP Server Message Templates	S
Message Templates	
Select a template to edit. Once a template is saved, the	new templates will take effect immediately.
Select Template:	User: New User Registration
Subject Line:	New \${SiteName} User Account
Format - Font - Size - <b>B</b> I U St B Source	<i>I</i> <sub>x</sub> ▲· ⊠· ;= :=   := :=   := := := := := := := := := := := := :=
\${SiteNar	me} - New User Account
system. Using this accourt	gistering for an account with the \${CompanyName} customer support
1	Save
© Copyright 2006-2017, Inflectra Corporation	Page 22 of 66 This document contains Inflectra proprietary information

To modify a template, you need to select which template you wish to edit. Once you select the template, the page will reload and display the selected template. The subject line is used in all emails sent with this template – note that some templates do not have a subject defined, and in this case the field will be hidden.

With this editor, you can link to external images, but cannot send any images as attachments.

You can modify the template to make it match your company's styles, adding colors and fonts as needed.

Outgoing data uses a Token system. You can select a token to insert using the Token button in the toolbar of the rich text editor (**[T]**). It will open a dialog letting you select the token to insert.

Available templates to edit are:

- User: New User Registration: If the 'Send new user welcome email' setting is set to true, this email template is sent out when a user registers.
- User: Forgot Password: When the user forgets their password.
- Forums: Subscription: Sent when there is an update to a forum that the user is subscribed to.
- **KB: Subscription**: Send when there is an update to a Knowledge Base Article that the user is subscribed to.
- User: Inactive Account Created: Sent out when a user had an account created for them via the Email Importer application. Contains information on how the user can verify their account to be able to log into the website.
- **Ticket: Notification**: Sent out when a notification event is fired off due to a ticket update. This is the master template the template can be edited per notification event when the event is created.

#### 3.1.6. Custom Lists

Custom Lists at this time are used in <u>Custom Field</u> definitions. The main custom property list screen lists all available lists available for assignment to a custom field.

List#	List Name	# Options	Actions
[CL:1]	Operating Systems	9	Edit Values Remove
[CL:2]	Web Browsers	8	Edit Values Remove
			Add List

The table shows all defined custom lists and their information. The Custom List ID, the name of the list, how many selectable options it has, and then actions you can perform on the list – Edit the Values, Remove (delete) the list, or add a new list. Lists must have a unique name.

When creating or editing a list, the following screen is displayed:

List Name:	Operating Systems	
List Description:	List of operating systems	.d.
List Value #	Value	Actions
[CV:1]	Other	Remove
[CV:2]	Windows Phone	Remove
[CV:3]	Windows	Remove
[CV:4]	Windoows Server	Remove
[CV:5]	iOS	Remove
[CV:6]	Android	Remove
[CV:7]	MacOS X	Remove
[CV:8]	Linux	Remove
[CV:17]	Windows Server 2014 R2 SP4 w/ OEM License	Remove
		Add Value

Save

The list name and description are for identification purposes only, and are not visible to other users in the application. Each list item must have a unique name, if you try to add a duplicate or empty value, an error will be thrown. Click the 'Save' button to save your values, and use the link at top to return to the main Custom List page.

#### 3.1.7. Product Definitions

Products are used throughout the system in various ways. For tickets and in the knowledge base, they are used to classify and for organization, and to help the user find information they need to help them. The screen for editing and creating products is:

This is a list of all defined products in the system. Artifacts like Articles and Tickets can be assigned to a product for filtering and reporting. You can add a new product by clicking the 'Add' button. To remove a product, blank out the name or click the 'Remove' button. Removing a product does not delete associated artifacts. The token can be three characters, and must be unique per product.

Prod ID	Token	Display Name	Description	Workflow
[PR:2]	BIS	Book Inventory System	Issues related to the main Book Inventory System application.	Default Workf   Remove
[PR:1]	LCS	Library Catalog System	Issues related to the main Library Catalog System application.	Default Workf   Remove
[PR:3]	WEB	Library Web Portal	Issues related to the main Library Web Portal application.	Default Workf  Remove
				Add new Product
Save				

The fields are used as follows:

- **Token**: Not used at this time, however, each product must have a unique token ID.
- **Display Name**: This is what the product will display to users when selecting or researching a product.

- **Description**: This is a short description for internal use to describe the product.
- Workflow: This is the selected workflow for Tickets assigned to this product. See <u>Workflows</u>, below.

#### 3.1.8. License Details

The license details page displays the information about the installed license for the particular instance of KronoDesk® being used. The information displayed includes: the product name, the license version (e.g. v2.0.0.0), type of license in effect (x-user fixed, x-user concurrent, demonstration, enterprise, etc.), the organization that the license belongs to, the actual license key code and finally the number of agent-users concurrently logged-in. This last piece of information is useful as it helps administrators track down how many agent licenses are being used.

A sample page is illustrated below:

The following license information is curren	tly being used by the system. You can update the license by entering the organization and license key:
Licensed Product:	KronoDesk
License Version #:	v2.0.0.0
License Type:	Enterprise License
# Concurrent Users:	0 Active (View Active Sessions)
Expiration:	n/a
Organization*:	Inflectra Corporation
License Key*:	1234567890ABCDEF
Note: The license key and organization nan purchase one online today.	ne must match that found in your Customer Home Page. If you do not already have a license for the software, you can

To change the license key used by the system (for example, if to upgrade from Trial edition to Standard edition), you do <u>not</u> need to reinstall KronoDesk. All you need to do is simply change the information in the **organization** and **license key** text-boxes to match the license key and organization name found in the customer area of our website (<u>http://www.inflectra.com/CustomerArea</u>) and click the <Update> button.

If there is an issue with the license key (e.g. a trial version that is passed its expiration date, or where the license key doesn't match the organization name) an error will be displayed describing the specific issue with the information you entered. If you are unable to get the system to work with the license key information, please contact Inflectra<sup>®</sup> customer support at: <a href="support@inflectra.com">support@inflectra.com</a>.

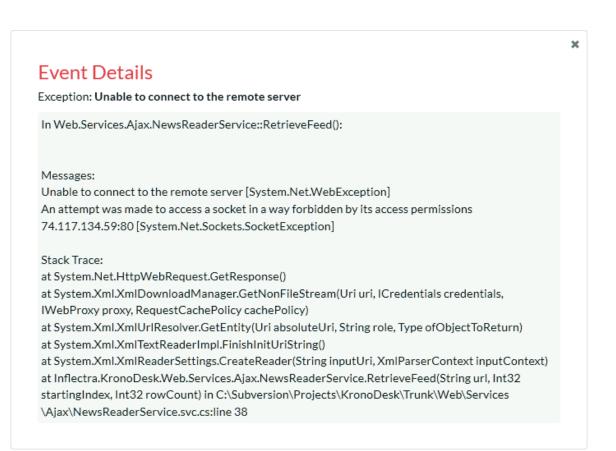
#### 3.1.9. Event Log

The "System Event Log" administration page lets you view all of the errors, warning and other diagnostic messages that have been logged in the system:

The following system events have been logged in the system:

vent Time (UTC) 👻	Type 💠	Category 🖨	Message	Event Code 👙	View Item
2/27/17 09:24:31	Warning	Application	Unable to connect to the remote server	0	View
2/27/17 09:24:25	Warning	Application	Unable to connect to the remote server	0	View
2/27/17 08:44:09	Warning	Application	Unable to connect to the remote server	0	View
2/27/17 08:25:01	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 11:36:36	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 11:34:38	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 11:33:04	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 11:31:56	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 11:08:02	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 11:06:38	Warning	Application	Unable to connect to the remote server	0	View
2/24/17 10:43:08	Error	Application	Bob cannot be left out! Parameter name: bob	0	View
2/24/17 10:28:32	Error	Application	Bob cannot be left out! Parameter name: bob	0	View
2/24/17 10:24:23	Error	Application	Bob cannot be left out! Parameter name: bob	0	View
2/24/17 10:24:06	Warning	Application	Unable to connect to the remote server	0	View
2/23/17 15:13:49	Warning	Application	Unable to connect to the remote server	0	View
now 15 🔻 entries				144 44 1 2	3 🕨 1

Each event entry is displayed along with the date-time it occurred, the type of event (error, warning, information, success audit, failure audit), category (application, source code provider, data-synchronization) and the short name. To view the full details of the error or warning, click on the "View Item" button:



The popup dialog box will display the full error message log and stack trace in a moveable dialog box. This information should be provided to Inflectra customer support if you log a help desk ticket.

#### 3.1.10. Remove Sample Data

This administration link is only available while the system still has sample data in it. This administration option will remove all data that was added in at installation, with the following guidelines:

- **Users**: All users between ID 2 and ID 11 will be removed. The main Administrator account, and any users created after installation will remain.
- **Tickets**: All tickets created at installation will remain, except for the first 28 tickets which were installed
- **Ticket Statuses, Priorities, Resolutions, and Types**: All these will be removed, unless any are used in tickets that were created after installation.
- Custom Property: All custom property definitions for Tickets will be removed.
- Attachments: All attachments created at installation will be removed.
- Articles: Articles 1 to 28 will be removed.
- **Products**: All predefined products will be removed, unless they are in use by any tickets not removed.
- **Categories**: Categories 1 through 4 will be removed, including all forums and threads contained therein, even if they were added after installation.

This can only be run once, and cannot be undone without reinstalling the entire application, so please **use with caution!** 

Some sample data will remain, depending on what data was added before the remove action was run. Depending on the data, there may be some foreign links in the database that will prevent some sample data from being removed.

#### 3.1.10. Orphaned Documents:

In some occasions, there can be attachments stored on the system that are not deleted when their associated item is deleted. This can cause unused files to fill up the attachments storange directory. This page will show the administrator any attachments in the database that have no associated link to a ticket or KB article, or documents on the file server with no record in the database:

Tickets, KB A list to remov	Articles, or Forum posts. Sel re the files form the applicat ese files will be physcially re	ect the attachments that are no lon ion and the server's filesystem.	exist in the database that are not used ger needed, and click the Purge button i URLs will be unlinked (no files on remo	below the	
Showing 0 to 0	of O entries				8
ID 🔺	Filename 🖨	File Size 🗢	Uploaded On 🗢	Uploader 🖨	
		Ν	o data available in table		
There are 3 Purge	orphaned files not included	above.			

By clicking the 'Purge' button, the system will be cleaned of all unused files and unlinked attachments.

## 3.2. Users

This section contains all of the settings related to viewing and managing users in the system. Currently it allows an administrator to view the list of users and modify a user's profile as well as see a list of active sessions.

#### 3.2.1. View/Edit Users

This page will display a list of all the users (both active and inactive) currently0020in the system:

arch:							
ID 🔺	Full Name 💠	Login ID 💠	Email Address 💲	Is Active? 🛊	Is Approved?	Locked Out?	Last Seen 💠
US:1	System Administrator	administrator	donotreply@kronodesk.net	~	~		02/27/2017
US:2	Martha Manager	marthamanager	donotreply1@kronodesk.net	~	~		01/01/2011
US:3	Eric W Employee	ericemployee	donotreply2@kronodesk.net	~	~		
US:4	Evan Employee	evanemployee	donotreply3@kronodesk.net	~	~		12/15/2010
US:5	Carla T Customer	carlacustomer	donotreply4@kronodesk.net	~	~		02/24/2017
US:6	Chris Customer	chriscustomer	donotreply5@kronodesk.net	~	~		02/24/2017
US:7	Charles Customer	charlescustomer	donotreply6@kronodesk.net	~	~		
US:8	Cathy P Customer	cathycustomer	donotreply7@kronodesk.net	~	~		
US:9	Ursula J User	ursulauser	donotreply8@kronodesk.net	~	~		
US:10	Umberto E User	umbertouser	donotreply9@kronodesk.net		~		
<b>c</b> si	howing 1 to 10 of 10 entries						€ 1 )

The users are listed with their name, login, email address, active status, approved status, whether they are currently locked out (for incorrectly entering their password too many times), the date they last logged-in and their user id. You can sort or filter the user list by entering the text in the search box. To view the details of a specific user, simply click on their name which is a hyperlink:

ccount Inform	ation
Login ID:	administrator
Email Address:	donotreply@kronodesk.net
First Name:	System
Middle Initial:	
Last Name:	Administrator
Culture/Locale:	Use Application Default
Timezone:	Use Application Default 👻
Password:	
Security Question:	What is 1+1?
Security Answer:	Leave the Security Answer field empty if you do not want to change it. You need to specify the current password if you want to change the password question/answer.
Spira Login:	fredbloggs
Spira Api Key:	{7A05FD06-83C3-4436-B37F-51BCF0060483} Your valid Login ID and RSS Key. Used to create linked incidents in Spira if configured.
Roles:	Administrator, 👻
Comment:	Format · Font · Size · B J U J, A· Q· 注::::::::::::::::::::::::::::::::::::
Is Active?:	Yes *
Is Approved?:	Yes *
Locked Out?:	No •
Last Login:	58 minutes ago
Last Locked Out:	
Last Activity:	Now

You can update the following fields on this page:

- Email Address a valid email address that notifications will be sent to. This has to be unique.
- First Name the user's first name
- **Middle Initial** the user's middle initial (if applicable)
- Last Name the user's last name
- **Comment** Used for Admin purposes only, the user does not see this on his own account.
- Culture/Locale By default all profiles will be set to use the application's default culture. This
  means that the language and number formats used in the application will be the ones decided by
  the person who installed the system. However there are cases where you want to use a different
  language or number format (for example, a German employee working in the German office of a
  French company might want to use the German culture instead of French). You can change the
  culture to any of the options listed in the dropdown list.
- **Time zone** By default all profiles will be set to use the application's default time zone. This means that the time zone used in the application to accept/display data will be the one decided by the person who installed the system. However there are cases where you want to use a different time zone (for example, a German employee working in the German office of an American company might want to use CET instead of EST). You can change the time zone to any of the options listed in the dropdown list.
- **Password** if you want to change the user's password, you can enter it in the text box. If you don't want to change the password, you can leave this blank.
- Security Question/Answer if you want to change the user's challenge question/answer, enter a question that only they will know the answer to, together with the matching answer to that question. If you don't want to change the question/answer, you can leave these blank.
- **Roles** this displays a list of the available roles in the system, with the ones that the user belongs to selected. You can change the roles by selecting them in the dropdown list.
- Spira Login/API Key If you have your KronoDesk install linked up with a Spira install to keep track of development bugs and fixes, entering the user's login and API Key here will allow this user to create and view incidents related to the ticket the user is viewing. Note that these fields are only available for Internal users, and when Spira integration is enabled.
- Active? Used to specify whether this user account is active or not.
- Approved? Used to specify whether this user account is approved or not. Currently all users in the system are created with approved accounts.
- Locked Out? Used to specify whether this user account is temporarily locked due to the user making too many incorrect login attempts.
- Avatar Each user in KronoDesk can have a small graphic icon (called an avatar) associated with their account. This icon will be displayed next to forum posts, ticket comments, etc. You can click on the [Browse] button to change their avatar or [Remove] to switch their user back to the default image.

Once you are satisfied with the changes, you can click [Update User] to commit the changes. If there are any validation errors, they will be displayed, otherwise the system will display a confirmation box.

#### 3.2.1. User Roles

You can create and modify user roles here. By default, the standard roles are:

This lists all the available roles available to assign users to, and allows creation and editing of specified roles. Note that the the first role, 'Administrator' cannot be changed - that role has access to everything within the application. The second role is assigned to all users browsing the site that have not logged in.

Role Name	Description	Is Active?	Internal?	Is Administrator?	Operations
Administrator	Has full access to the application and its settings.	Yes	Yes	Yes	View
Public	Guests viewing site, not signed in.	Yes	No	No	Edit
User	Userds with accounts and are logged in, but are not customers.	Yes	No	No	Edit
Manager	Employees that have Managerial positions.	Yes	Yes	No	Edit
Employee	Helpdesk / Support employees.	Yes	Yes	No	Edit
Customer	Customers that have bought or used a company's product.	Yes	No	No	Edit
					New Role

The following roles exist in the system and can be used when assigned permissions to users:

- Administrator The most powerful role in the system, they can view, create, modify and delete all artifacts in the system (articles, tickets, forums, threads, replies) as well as access the administration section where they can change all application-wide settings.
- **Public** All users that are viewing the site that are not logged in.
- **Manager** This role can view, create, modify and delete all artifacts in the system (articles, tickets, forums, threads, replies). This role cannot access the Administration section
- **Employee** This role can view everything in the non-administration section of the application. This role can view, modify and create tickets, articles, threads and replies. It cannot delete items in the system.
- **Customer** This role can view all articles and forums, can submit new threads, reply to existing threads, can log help desk tickets and view/modify tickets that they opened only.
- **User** This role can view all articles and forums, can submit new threads, and reply to existing threads. This role does not have any access to the help desk ticketing section of the application.

When editing a role, you can give it certain permissions:

	s permissions. Note that roles are stackable, so if a user has access to an area e they are assigned to, they will be able to access that section regardless of th
Name:	User
Description:	Userds with accounts and are logged in, but are not custom
Is Active?	Yes
Internal?	No
Is Administrator?	No
Role Permissions:	Forum Permissions KB Article Permissions
View	Create Edit Delete
Tickets:	
Ticket Notes:	
Attachments:	
Save Cancel	

The name of the role is used in the Role selection box, when editing a user.

Description is just used for administration purposes, and is not displayed anywhere to end-users.

Internal is a flag – if set to true, Internal users are considered employees of the company, and have some additional permissions granted to them. If this option is set to 'No', then they are considered an External Customer (End-User).

The tabs then let you specify what the role can do in each section of the application.

**Important Note**: Roles can be stacked – that is to say, Users can be assigned to more than one role at a time. Roles will be ANDed together. So if ANY role is marked 'Internal', then the user will be considered an employee. Likewise, if ANY role allows a user to create a ticket, then no matter what the other roles say, the user will be able to create a ticket. It is also important to note that is the section is disable entirely, setting a permission here will not have any effect.

#### 3.2.2. View Active Sessions

Often an administrator of the system will want to know how many users are currently logged into the system, especially on installations licensed by concurrent-user. Clicking on the 'Active User Sessions' administration option will display a list of all the users who currently have active sessions in the system:

The following users currently have active sessions on this instance of KronoDesk. To end a user's session and log them out, please click on the appropriate 'End Session' link next to their entry.							
Login	Full Name	Session ID	Uses License	Interface	Last Logon	User #	Operations
administrator	System Administrator	kxfcve2jolg25vahkopar1rq	No	Web Application	2/27/2017 2:24:24 PM	1	End Session

Each user is displayed along with their user ID, whether they're connected through the application or via a third-party add-on, the date they last logged-in, and whether they are being counted as concurrent-user from a licensing perspective. With a concurrent-user license, KronoDesk allows an unlimited number of general user sessions, but only a certain number of customer service agent user sessions.

The administrator is able to forcibly end a user's session using the 'End Session' link to the right of their name. Clicking this link will result in that user being logged out when they try and perform an operation in the system. <u>Warning:</u> You should make sure that the user is not actively using the system to prevent any unsaved data being lost.

# 3.3. Forum Settings

This section contains all of the settings that affect the customer support forums part of the application.

#### 3.3.1. Appearance

This page allows an administrator to customize the appearance of the customer support forums so that the standard text that is displayed matches the support policies of the organization. It also allows the administrator to customize some of the web page meta-data fields that can be used to optimize the support forums for Search Engine Optimization (SEO).

orums Name*:	
MyCompany Support Fo	ums
escription #1:*:	
Format - Font	- Size - B I U I, A- O- 语:非非的 !! 主 主 @ 噢 B 丽 蕾 6 3
Welcome to the MyCom	any customer forums, where you can discuss MyCompany products with others and contribute to the MyCompany community.
escription #2:*:	
Format <b>-</b> Font	- Size - B J U J A- O- ほに 非 非 22 ミュ ● ◎ □ 慶 田 昌 @ 33
	/Company employees try to maintain a presence on the forums, they are not a reliable way to contact MyCompany. If you require a timely ny on a supported topic, please file a help desk request. For sales and licensing questions, please email sales@mycompany.com.
leta-Description:	
Welcome to the MyCom	any customer forums, where you can discuss MyCompany products with others and contribute to the MyCompany community.
1eta-Keywords:	
	rums, MyCompany support, software support, hosting support, technical support, configuration issues, training, processes, customizatio

This page lets you specify the following values:

- Forums Name You can change the title displayed for the online support forums to match your company's name. For example you might want to rename the forums "Acme Inc. Support Forums".
- **Description #1** This rich text box contains the first paragraph of introductory text displayed on the support forums home page.

- **Description #2** This rich text box contains the second paragraph of introductory text displayed on the support forums home page.
- **Meta-Description** This plain text box contains the HTML Meta-Description field that is not displayed in the web browser, but is often used by search engines to rank the content. You may want to modify this to ensure that your support forums are ranked highly on Internet search engines. It should contain a brief description of your company, its products, and the support forums
- Meta-Keywords This plain text box contains the HTML Meta-Keywords field that is not displayed in the web browser, but is often used by search engines to rank the content. You may want to modify this to ensure that your support forums are ranked highly on Internet search engines. It should contain a comma-separated list of keywords related to your company and products/services.

#### 3.3.2. Categories & Forums

This page lets administrators manage the different categories and forums used in the KronoDesk customer support forums. The customer forums are divided up into categories and each category has a set of forums. Typically the forum categories are associated with a particular product or service, although there may be some general categories that are product agnostic.

	These are all the available categories defined for the support forums. To add a new category, click the 'Add' link. To remove a category, remove the name or click the 'Remove' link, To view the list of forums associated with each category, click on the 'View Forums' link:							
Id	Url Token	Display Name	Description	Product	Is Active? Position	# Forums		
1	library-catalog	Library Catalog Forums	These forums provide help and support on the library catalog system that was developed to allow	Library Catalog Sys 🔻	1	3	View Forums	Remove
2	book-inventory	Book Inventory Forums	These forums provide help and support on the book inventory system that was developed to allow	Book Inventory Sys *	2 🕈	3	View Forums	Remove
3	web-portal	Web Portal Forums	These forums provide help and support on the web portal that was developed to allow borrowers to	Library Web Portal	3 🕈	2	View Forums	Remove
4	other	Other	These forums are for discussions not specific to any of the products in the other forums.	None 👻	4	2	View Forums	Remove
							Add New Catego	iry
Sour								

When you first open this page, the system will list all the forum categories already in the system. You can use this page to perform the following operations:

- **Modify an Existing Category** to do this, you simply need to update the URL-Token, Display Name, Description, Product, Active flag and Position value for the category and click [Save].
  - URL Token This is the URL segment that will be used to create the hyperlink to access this forum category (e.g. <u>http://myserver/KronoDesk/Forum/url-token.aspx</u>). Url Tokens have to be unique and can only contain alphanumeric characters and hyphens.
  - Display Name This is the name of the category that will be displayed in the category details page.
  - Description This is the long description of the category that will be displayed in the category details page.
  - **Product** If the category is related to a specific product, you should select the product.

- **Active** This should be checked if you want the category to be visible within the application. Old categories that are no longer in use should be made inactive.
- **Position** This should be used to specify the order of the categories.
- Create a New Category to this, you simply need to click on the "Add New Category" hyperlink in the bottom row and then enter the new category information and click [Save].
- **Delete an Existing Category** to do this, simply click on the "Remove" hyperlink next to the category. You will be asked to confirm the deletion, after which the category will be deleted from the system. *Note: If you delete a forum category, the system will delete all the forums, threads and message contained within that category.*

To view the list of forums associated with a particular category, you should click on the "View Forums" link that will display the appropriate list of forums:

These are all the available forums defined for the 'Book Inventory Forums' category. To add a new forum, click the 'Add' link. To remove a forum, remove the name or click the 'Remove' link:								
Id	Url Token	Display Name	Description	Is Active?	Position			
4	issues-and-questions	Book Inventory Issues & C	General discussions surrounding the use of the Book Inventory	Y	1	Remove		
5	enhancement-suggestions	Book Inventory Enhancem	Discuss ideas and suggestions for customising and	Y	2	Remove		
6	best-practices	Book Inventory Best Pract	Discussions of best practices for using the Book Inventory product	Y	3	Remove		
Save	1					Add Forum		

You can use this page to manage the various forums in the category:

- **Modify an Existing Forum** to do this, you simply need to update the URL-Token, Display Name, Description, Active flag and Position value for the forum and click [Save].
  - URL Token This is the URL segment that will be used to create the hyperlink to access this forum (e.g. <u>http://myserver/KronoDesk/Forum/category/url-token.aspx</u>). Url Tokens have to be unique for the specific category and can only contain alphanumeric characters and hyphens.
  - **Display Name** This is the name of the forum.
  - **Description** This is the long description of the forum that will be displayed in the forum details page.
  - **Active** This should be checked if you want the forum to be visible within the application. Old forum that are no longer in use should be made inactive.
  - **Position** This should be used to specify the order of the forums in the category.
- **Create a New Forum** to this, you simply need to click on the "Add Forum" hyperlink in the bottom row and then enter the new forum information and click [Save].
- Delete an Existing Forum to do this, simply click on the "Remove" hyperlink next to the forum. You will be asked to confirm the deletion, after which the forum will be deleted from the system. Note: If you delete a forum, the system will delete all the threads and message contained within that forum.

# 3.4. Knowledge Base Settings

This section contains all of the settings that affect the online knowledge base part of the application.

#### 3.4.1. Article Categories

This page lets administrators manage the different article categories used in the KronoDesk online knowledge base. Each article in the knowledge base is assigned to one or more article category which is used to make finding information easier. Typically the article categories are associated with a particular product or service, although there may be some general categories that are product agnostic.

Id	Url Token	Display Name	Description	Parent Category	Product	Is Active?
2	book-invento	Book Inventory Articles	Contains knowledge base articles related to the book inventory system	None 🔻	Book Inventory Sys	Remove
1	library-catalc	Library Catalog Articles	Contains knowledge base articles related to the library catalog system	None 🔻	Library Catalog Sys 🔻	Remove
4	misc	Misc Articles	Contains knowledge base articles not related to specific products or	None 🔻	None 🔻	Remove
3	web-portal	Web Portal Articles	Contains knowledge base articles related to the web portal that was	None 🔻	Library Web Portal	Remove
6	library-catalc	Library Catalog News Arti	Contains news knowledge base articles related to the library	Library Catalog Articles	Library Catalog Sys 🔻	Remove
5	library-catalc	Library Catalog Technical	Contains technical knowledge base articles related to the library	Library Catalog Articles	Library Catalog Sys 🔻	Remove
8	book-invento	Book Inventory News Arti	Contains news knowledge base articles related to the book	Book Inventory Articles	Book Inventory Sys	Remove
7	book-invento	Book Inventory Technical ,	Contains technical knowledge base articles related to the book	Book Inventory Articles	Book Inventory Sys	Remove
						Add New Category

When you first open this page, the system will list all the article categories already in the system. You can use this page to perform the following operations:

- Modify an Existing Category to do this, you simply need to update the URL-Token, Display Name, Description, Parent Category, Product and Active flag value for the category and click [Save].
  - URL Token This is the URL segment that will be used to create the hyperlink to access this forum category (e.g. <u>http://myserver/KronoDesk/KnowledgeBase/url-token/List.aspx</u>). Url Tokens have to be unique and can only contain alphanumeric characters and hyphens.
  - Display Name This is the name of the category that will be displayed in the category details page.
  - Description This is the long description of the category that will be displayed in the category details page.
  - **Parent Category** If this is a top-level category, you should leave it set to "None", otherwise you need to set this to the name of the existing article category that the category will be listed under.
  - **Product** If the category is related to a specific product, you should select the product.

- **Active** This should be checked if you want the category to be visible within the application. Old categories that are no longer in use should be made inactive.
- **Create a New Category** to this, you simply need to click on the "Add New Category" hyperlink in the bottom row and then enter the new category information and click [Save].
- Delete an Existing Category to do this, simply click on the "Remove" hyperlink next to the category. You will be asked to confirm the deletion, after which the category will be deleted from the system. *Note: If you delete an article category, the system will delete all the child categories and articles contained within that category.*

# 3.5. Help Desk Settings

This section contains all of the settings that affect the help desk ticketing part of the application.

#### 3.5.1. Custom Fields

Tickets in the Help Desk system can have up to 20 custom fields. There are different types of custom fields allowed:

- **Text**: Normal or Rich-Text field.
- Integer: Whole-Number entry.
- Decimal: Fractional number entry (currency, etc.)
- **Boolean**: Simple yes/no (on/off) checkbox.
- **Date**: Date selector.
- List: Custom List selector.
- Multi-List: Custom List selector that allows multiple values.
- User: List of assignable users.

Each custom field can have optional settings applied to it. Optional settings are as follows. (Note that not all settings are allowed for all field types.)

- **Default**: The default value when a new ticket is opened up.
- Allow Empty: Whether or not an empty value is allowed.
- Precision: (Decimal Only) How many decimal places is allowed (or the value is rounded to).
- Minimum Value: The minimum value allowed.
- Maximum Value: The maximum value allowed.
- Minimum Length: The minimum length of the data required in the field.
- Maximum Length: The maximum length of the data allowed in the field.
- Rich Text: Whether or not the text field allows HTML or not.
- **Custom List**: The defined Custom List for the field that users can select from.

*Important*: Note that setting 'Allow Empty' to No will override any <u>Workflow</u> step definitions, and will always require a value to be entered in, even if the workflow is configured to have the field disabled!

Going to the main page, you will see a list of custom field defined for Tickets:

Field #	Property Name	Туре	Actions
1	Operating System	MultiList	Edit Definition Remove
2	Browsers Affected	MultiList	Edit Definition Remove
3	Server OS	MultiList	Edit Definition Remove
4	Notes	Text	Edit Definition Remove
5	Hosted System?	Boolean	Edit Definition Remove
6	Target Date	Date	Edit Definition Remove
7	Reviewed By	User	Edit Definition Remove
8	Phone Extension	Integer	Edit Definition Remove
9	Response Time (mins)	Decimal	Edit Definition Remove
10			Edit Definition Remove
11			Edit Definition Remove
12			Edit Definition Remove
13			Edit Definition Remove
14			Edit Definition Remove
15			Edit Definition Remove
16			Edit Definition Remove
17			Edit Definition Remove
18			Edit Definition Remove
19			Edit Definition Remove
20			Edit Definition Remove

To edit a definition, click the Edit Definition link on a field, and you will get a popup:

Custom Property #6	Definition	:
Definition Options		
Alias:	Target Date	
Type:	Date	
		Save Cancel

The fields visible will vary depending on the type of custom field you have selected, but every custom field will need to have an Alias and a Type. The Alias is what is shown to the user when viewing or editing the ticket. The type is the type of data the ticket allows.

Under the Options tab will be available options that can be set for the custom field.

When finished, click the 'Save' button and you will be returned to the Custom Field list.

*Important Note:* When changing a custom field's type or removing a field, the data is not actually removed from the ticket. Therefore, if you change a custom field of a date into a text, the field will display the old date value until it is changed by the user.

#### 3.5.2. Ticket Statuses

Ticket statuses can be edited using the grid that displays all defined statuses.

Status ID	Display Name	for	Closed for External?	Default?	
[TS:2]	Assigned			0	Remove
[TS:5]	Closed	$\checkmark$	$\checkmark$	0	Remove
[TS:6]	Duplicate	$\checkmark$	$\checkmark$	0	Remove
[TS:7]	Non-Issue	$\checkmark$	$\checkmark$	0	Remove
[TS:1]	Open			۲	Remove
[TS:3]	Waiting on Customer	$\checkmark$		0	Remove
[TS:4]	Waiting on Development			0	Remove
					Add New Status

All statuses must have a display name, which is viewed by the user editing or viewing the ticket. The other fields are:

- **Closed for Internal?** Whether this status is considered as inactive for internal users (employees, support agents, etc.). For example the sample status 'Waiting on Customer' would be considered 'Closed for Internal' because customer support agents do not want to see such tickets in their list when it's waiting for a customer to respond.
- **Closed for External** Whether this status is considered as inactive for external users (customers, etc.). For example the sample status 'Waiting on Customer' would be considered 'Open for External' because end users / customers would definitely want to see such tickets in their list since the support agent is waiting for their response.
- Default? The status selected as the default is the status that new tickets are opened as.

To add a new Status, click the Add New Status link – a new row will be inserted into the table where you can save the new status.

To remove a status, click the Remove link. Any tickets with a status that has been removed will stay that status, until the next time a user edits the ticket.

In addition to this screen that lets you edit the ticket statuses, if you click on the "Advanced" option in the left hand navigation, it will bring up the screen that lets you specify some additional status change rules:

Default Open Status:	Assigned
When an employee bulk-assi change the status of the ticke	gns a ticket to themselves or another person using the ticket list page, the system will automatic It to the following status:
Default Assigned Status:	Assigned
open for internal (customer s	n open ticket can be automatically closed. This will only happen if a ticket is set to a status that is ervice), but is open externally (for customers).

There are several options you can configure:

- The Default Open Status this allows you to specify the status that a ticket will be automatically switched to when a new note is added by the person who originally opened the ticket. This is useful when a customer accesses one of their existing tickets that's in a closed status but forgets to change the status back to an open status. This ensures that such tickets do not get forgotten about.
- The Default Assigned Status this allows you to specify the status that a ticket will be automatically switched to when you use the bulk assign tools on the main Help Desk page. For example five new tickets arrive and you select them and choose the option to "Assign Tickets to Me". When they are assigned in this way, the system will automatically change their status to the default assigned status option (if specified).
- **Closed Status** After a set amount of time, an open ticket can be automatically closed. This will only happen if a ticket is set to a status that is not open for internal (customer service), but is open externally (for customers). The dropdown list contains the status that the ticket will be switched to.
  - Age of Ticket Allowable values: 7-365. After the ticket is this number of days old, the status will be automatically closed.

#### 3.5.3. Ticket Types

The Ticket Type page defines values allowed for the standard Type field for tickets. Types must have a unique display name, which is what the user sees when they view or edit a type.

These are all the available types defined for tickets. To add a new type, click the 'Add' link. To remove a type, remove the name or click the 'Remove' link.

Type ID	Display Name	
[TT:1]	Sales	Remove
[TT:2]	Support	Remove
		Add New Type
Save		

To add a new type, click the Add New Type link, and fill out the new empty row.

To remove a type, click the Remove button to the right of the defined type. Note that any tickets assigned to a type that is removed will retain their type, until the next time a user tries to edit the ticket.

#### 3.5.4. Ticket Priorities

The Ticket Priorities page defines values allowed for the standard Priority field. Like types, priorities must have a unique name.

These are all the available priorities defined for tickets. To add a new priority, click the 'Add' link. To remove a priority, remove the name or click the 'Remove' link.

Priority ID			
[TP:1]	1 - Critical	•	Remove
[TP:2]	2 - High	•	Remove
[TP:3]	3 - Medium	•	Remove
[TP:4]	4 - Low	•	Remove
			Add New Priority
Save			

To add a new priority, click the Add New Priority link, and fill out the new empty row.

To remove a priority, click the Remove button to the right of the priority. Note that any tickets assigned to a priority that is removed will retain their value, until the next time a user tries to edit the ticket. Colors assigned to the priority will appear in the Ticket List page in the Priority column.

#### 3.5.5. Ticket Resolutions

Res ID	Display Name	Description	
[TR:2]	Customer Issue - Configuration	There was a mis-configuration in the application.	Remove
[TR:3]	Customer Issue - Hardware	There was a hardware failure.	Remove
[TR:1]	Customer Issue - Network	The issue was on the customer's side, affected by the network.	Remove
[TR:5]	Development - Enhancement	This is an enhancement request and has been added to the maintained list of requests.	Remove
[TR:4]	Development - Unintended Bug	This was verified as an issue with the application's code, issue has been moved to Development.	Remove
[TR:6]	Documentation - Incorrect	Documentation states incorrect information.	Remove
			Add New Resolution
Save			

The Ticket Resolutions page defines values allowed for the standard Resolution field. Like types and priorities, resolutions must have a unique name. The description is used internally, and should just contain a short summary of the meaning of the resolution.

To add a new resolution, click the Add New Resolution link, and fill out the new empty row.

To remove a resolution, click the Remove button to the right of the resolution. Note that any tickets assigned to a resolution that is removed will retain their value, until the next time a user tries to edit the ticket.

#### 3.5.6. Spira Integration

When customer support agents work on tickets received from customers, they may find that the issue is actually a product defect rather than a customer support matter. In which case, they can take advantage of the built-in integration with SpiraTeam® - Inflectra's award winning Application Lifecycle Management (ALM) solution that has a powerful product incident management system.

KronoDesk® has the ability to connect to an instance of SpiraTeam® and add new product incidents into the system that are linked to the originating KronoDesk Ticket. That allows customer service agents to monitor the status of the associated product incidents and inform customers when the appropriate patches or fixes are available to correct the problem.

This screen allows the administrator to setup the connection between SpiraTeam and KronoDesk.

This page lets you configure the of associated incidents with eac	integration with Spira so that you can create Spira incidents from the second structure of the second s	n KronoDesk tickets and view the list
Spira URL:	http://romana1/Spira	
	The URL to your instance of SpiraTest, SpiraPlan or SpiraTeam (e.g. http://myserver/SpiraTest or https://mycompany.spiraservice.net)	
	Save	
Test Integration		
Login:		
	A valid login for your Spira instance.	
Api Key:		Test
	A valid RSS Token used to access your instance of Spira. Each Spira user has an RSS token configured in his/her profile.	

You should enter the URL that your users use to access their instance of SpiraTest, SpiraPlan or SpiraTeam (including the HTTP or HTTPS prefix) together with the SpiraTeam login and RSS Token for a valid SpiraTeam user. The login and associated RSS Token is used to verify the connection.

Once you have entered the information, you should click the [Test] button to verify that the URL is accessible. If there are connectivity issues, and error will be displayed, otherwise a green confirmation message will appear. Once the connection information has been successfully verified, you need to click the [Save] button to save the connection settings in the system.

#### 3.5.7. Ticket Article Templates:

Templates can be created for quick replies to support tickets. This allows for support agents to quickly respond to support tickets referencing a related KB Article.

This page lets you define templates that support agents can use in quick replies to customers when directing them to a KB article.

Text edited below will be inserted into the Ticket when a support agent selects a KB article to link to. To insert data from the article, or other information, use the Token button [T] to select data to display to the user.

Link With Excerpt   Create New
Format - Font - Size - B I U I I A A I - I I I I I E = 三 ● 『 I B 臣 言   @ [T] Y   @ Source   ]]
\$(Title)
Summary: <mark>\$[Summary]</mark>
Read complete article
Save Remove

You can edit or create a new template, and to reference the selected KB Article, you can use a set of templates, available in the ([T]) toolbar button. The support agent can then select one of these templates on the Ticket Details page, along with a KB article to insert into the agent's reply.

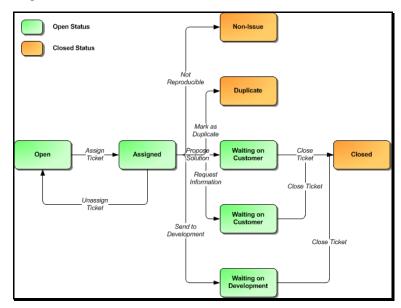
#### 3.6. Workflows

This section displays a list of the defined ticket workflows in the system. A workflow is a predefined sequence of ticket statuses linked together by "workflow transitions" to enable a newly created ticket to be reviewed, prioritized, assigned, resolved and closed, as well as to handle exception cases such as the case of a duplicate or non-reproducible ticket. The initial workflow list screen when you first use the system is illustrated below:

There are the various workflows available in the system. To add a new workflow, click the Add button, to edit an existing workflow, click on the Steps hyperlink.						
Workflow Name	Default Active	Workflow #	Operations			
Default Workflow	• Yes	1	Steps	Copy Delete		
Save + Add Workflow						

To modify the name, default status, and/or active flags, simply change the values in the appropriate textbox, radio-button or drop-down list and click the [Save] button. To add a new workflow, simply click the [Add Workflow] button and a new workflow will be created with the standard KronoDesk steps and transitions.

You can have as many workflows as you like in a project, but only one can be marked as the default. Each KronoDesk product is assigned to a workflow; this allows you to have support tickets for different products follow different paths from creation to closure. However when a new product is created, it will be initially associated with the default workflow. The steps and transitions that make up the default workflow are illustrated in the diagram below:



Note: You can only assign an active workflow to a KronoDesk product, and similarly you cannot make a workflow inactive that is currently linked to at least one product. This is important as all products need to be linked to an active workflow at all times.

#### 3.6.1. Edit Workflow Details

Clicking on the <Steps> button of an inactive workflow brings up the following screen that lists all the workflow steps and workflow transitions that comprise the workflow:

Step Name	Transitions	Status Id	Operations
Assigned	Mark as Duplicate       X       >       Duplicate         Not Reproducible       X       >       Non-Issue         Propose Solution       X       >       Waiting on Customer         Request More Information       X       >       Waiting on Customer         Send to Development       X       >       Waiting on Development         Unassign Ticket       X       >       Open	2	Add Transition
Closed >	Reopen Ticket × + Assigned	5	Add Transition
Duplicate >	Close Ticket X  Closed Return to Support X  Assigned	6	Add Transition
Non-Issue	Close Ticket X  Closed Return to Support X  Assigned	7	Add Transition
Open (Default)	Assign Ticket 🗙 🗲 Assigned	1	Add Transition
Waiting on Customer	Close Ticket     X     >     Closed       Return to Support     X     >     Assigned	3	Add Transition
Waiting on Development	Close Ticket X > Closed Reassign to Support X > Assigned	4	Add Transition

This page lists in the left-most column all the various incident statuses defined in the system. The next column lists all the possible transitions that can occur *from that status*. In addition, with each transition is listed the name of the resulting *destination status* that the transition leads to. E.g. from the assigned status, depending on your role (see later) you can move the ticket to either Open, Waiting On Customer, Waiting on Development, Duplicate and Non-Issue depending on which transition the user takes.

Clicking on the name of a step or transition takes you to the appropriate details page (see below) where you can set the properties of the step or transition respectively. To delete an existing transition, simply click the <Delete> button after the transition name, and to add a new transition, click the <Add Transition> button in the Operations column.

### 3.6.2. Edit Workflow Transition

When you click on the transition name link from the previous screen, you are taken to the workflow transition details screen:

Assigned (2) > Mark as Du	plicate (6)	Duplicate (6)
Conditions The following users / roles are allowed to exe The opener of the Ticket can execute: The assignee of the Ticket can execute: In addition to the above, users with the speci These settings only apply to users who are ne	No ▼ Yes ▼	cute:
	Administrator:	
	Administrator:	
	Public:	
	User:	
	Manager:	
	Employee:	$\checkmark$
	Customer:	
	Save	

The top part of the screen is the "workflow browser" which illustrates how the transition relates to the workflow as a whole. It displays the current transition in the middle, with the originating and destination steps listed to either side. Clicking on either ticket status name will take you to the appropriate workflow step details page. This allows you to click through the whole workflow from start to finish without having to return to the workflow details page.

Each transition has a series of conditions which need to be satisfied for a user to actually execute the transition (i.e. move the ticket from the originating status to the destination status). The conditions allow you to set three types of user role:

- The opener of the ticket can be allowed to execute the transition when the transition occurs. For example, when a ticket is marked as Waiting on Customer, the opener should be the only one who's allowed to move it to Closed.
- The assignee of the ticket can be allowed to execute the transition when the transition occurs. For example, when a ticket is marked as Assigned, the assigned agent should be the only one who's allowed to move it to Waiting on Customer.
- A user with a specified role can be allowed to execute the transition, when the transition occurs regardless of whether they are the opener or assignee. For example a user with role "Manager" might want the power to close all tickets regardless of assignee status.

You can set any of these conditions by changing the drop-down list and/or check-boxes and clicking the appropriate <Save> button.

#### 3.6.3. Edit Workflow Step

When you click on the ticket status name link from either of the previous screens, you are taken to the workflow step details screen:

Assign Ticket (1)	⇒		⇒	Mark as Duplicate (6)
Reassign to Support (10)	⇒		⇒	Not Reproducible (7)
Reopen Ticket (12)	⇒	Assigned (2)	÷	Propose Solution (3)
Return to Support (8)	⇒	Assigned (2)	→	Request More Information (4)
Return to Support (13)	→		÷	Send to Development (5)
Return to Support (15)	⇒		→	Unassign Ticket (2)

#### **Ticket Standard Fields**

The following Ticket standard fields are hidden/disabled/required at this step in the workflow:

Field Name	Internal Users			External Users		
	Hidden	Disabled	Required	Hidden	Disabled	Required
Last Accessed On						
Assignee			$\checkmark$		$\checkmark$	
Closed Date				$\checkmark$		
Concurrency Date	2			$\checkmark$		
Created Date						
Summary						
Deleted				$\checkmark$		
Last Updated						
Name			$\checkmark$			V
Ticket Note						
Opener		$\checkmark$			$\checkmark$	
Priority					$\checkmark$	
Product					$\checkmark$	
Resolution					$\checkmark$	
Status					$\checkmark$	
ID					$\checkmark$	
Туре					$\checkmark$	

### Save

#### Ticket Custom Fields

The following Ticket custom properties are hidden/disabled/required at this step in the workflow:

Name	Туре	Internal Us	ers		External U	ers	
		Hidden	Disabled	Required	Hidden	Disabled	Required
Operating System	MultiList	$\checkmark$			$\checkmark$		
Browsers Affected	MultiList		$\checkmark$			$\checkmark$	
Server OS	MultiList			$\checkmark$			$\checkmark$
Notes	Text						
Hosted System?	Boolean					$\checkmark$	
Target Date	Date				Y		
Reviewed By	User				Y		
Phone Extension	Integer				$\checkmark$		
Response Time (mins)	Decimal				Y		
Save							

The top part of the screen is the "workflow browser" which illustrates how the step relates to the workflow as a whole. It displays the current ticket status in the middle, with the possible originating and destination transitions listed to either side. Clicking on either workflow transition name will take you to the appropriate workflow transition details page. This allows you to click through the whole workflow from start to finish without having to return to the workflow details page.

This page allows you to define the behavior of the various ticket fields (i.e. those that are a standard part of KronoDesk such as Priority) and ticket custom properties for this particular step in the workflow. You can set each of the fields/custom properties as being hidden, disabled, and/or required for each step in the workflow, and for Internal (support) users, and External (end-user) users. Note that you cannot set a

field/property as being required and disabled since this would prevent a user from ever updating the ticket. For example, when a ticket is in the Open status, you might make the assignee field inactive (since the opener shouldn't need to know who will ultimately work on it), when it gets to the Assigned status, you might make the field enabled and required. This allows you to tailor the information gathered to the appropriate place in the workflow.

To actually make these changes, all you need to do is select the appropriate checkboxes in the list of fields and custom properties and click the corresponding <Save> button.

## 3.7. Event Notifications

This section allows you to customize the email notifications that are sent out by KronoDesk when specific help desk events occur in the system. When you first click on the section link, the system will display a list of any notification events that already exist:

Edit your ticket notification event he ticket changes that match.	ere. If saved a	and active, the	event will immediately	become active, sending out notifications for any
Name	Product	Is Active?	Ticket Creation?	
New Ticket Creation		Yes	Yes	Edit Delete
				New Event

To create a new event, click on the 'Create New Event' hyperlink. That will display the page that lets you add or edit help desk notification events:

Event Name:		New Ticket Creation	The name of the event. For display purposes only.
Active:		This Event is Active	
Product:		None 💌	
Save Cancel		The product that this event is activ	e for. If a ticket changes product, then the <b>new</b> product's event will take effect.
Firing Events	Notified Users	Email Template	
The followin	g users (or user grou	ups) will be sent the notification emai	il when this event is matched.
Ticket Opene	er: 🗌		
Original Owr	ner: 🗌 lf.ch	necked, and the ticket's owner was cha	anged, a message will be sent to the original owner.
Current Owr	ner: 🗌 lf ch	ecked, the notification will be sent to	the current (or new, if changed) owner.
Notification When selected		out to all members of the role not direc	stly involved with the Ticket
		out to all members of the role not direct	ctly involved with the Ticket
When selecte	ed, an email will go o		ctly involved with the Ticket
When selecte	ed, an email will go o	Is Active?	ctly involved with the Ticket
When selecte Role Administra	ed, an email will go o	Is Active?	ctly involved with the Ticket

For each event you need to specify the name of the event, this is not used in the email and is just used to help you identify what the purpose and scope of the notification is (e.g. "Send emails to customers when a new ticket is logged"). In addition, you should specify if the event is active or not and what product that the event is active for. That way you can have different events occur for different products.

#### This event will fire off when any of the following are matched.

New Ticket: 🗹 Fire off Event on New Ticket Creation

Note Added: Fire off Event on a Note Added to Ticket

#### Any of the following checked fields will fire off the event:

Field Name	Is Active?
Ticket's Summary	
Ticket Description	
Opener	
Product	
Priority	
Assignee	
Status	
Resolution	
Туре	
Closed On	

The **Firing Events** section of the notification lets you specify which events will trigger the notification being sent. There are three types of event that can occur:

- New Ticket When a new help desk ticket is created (by a customer) this event is triggered. If you want the notification to be sent when a new ticket is created, you should check this option.
- Note Added When a note is added by a user to an existing help desk ticket, this event is triggered. If you want the notification to be sent when a note is added, you should check this option.
- Field Changed When one of the checked fields is changed by a user, this event is triggered. Check any of the fields that you want to trigger the notification in question.

The following users (or user gro	ups) will be sent the notification email when this event is matched.
Ticket Opener:	
Original Owner:	□ If checked, and the ticket's owner was changed, a message will be sent to the original owner.
Current Owner:	□ If checked, the notification will be sent to the current (or new, if changed) owner.

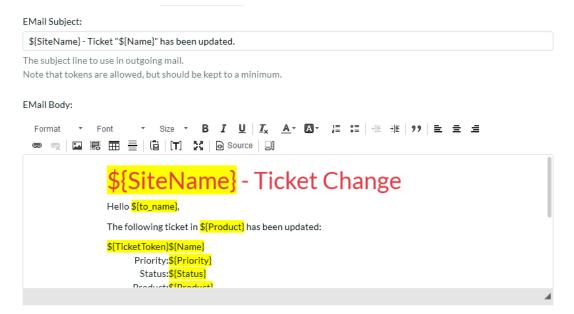
#### Notification Roles:

When selected, an email will go out to all members of the role not directly involved with the Ticket

Role	Is Active?
Administrator	
Manager	
Employee	

The **Notified Users** section of the notification lets you specify which users will receive the email notifications when the event gets triggered. There are four types of user that can be specified:

- Ticket Opener This option will result in the notification being sent to the person that originally opened the ticket.
- Original Owner This option will result in the notification being sent to the person that the ticket was originally assigned to.
- Current Owner This option will result in the notification being sent to the person that the ticket is now assigned to.
- Notification Roles These options allows you to specify which other roles in the system will get notified about changes to the ticket. Only Internal roles can be selected.



The **Email Template** section lets to specify the template used for the email notification in question. The template consists of the email subject line and body.

Similar to the settings in System -> Email, tokens can insert relevant data to the ticket into the email. Using the token button ([T]) in the toolbar.

Tokens will be replaced when the email is sent out with information relevant to the ticket or system configuration at that time.

# 4. Appendices

# 4.1. Appendix A – Troubleshooting

If you receive the dreaded "IIS 500 Internal Error" or the "Server Application Not Available" webpage when you try and access KronoDesk® for the first time, there can be a myriad of causes. However a good first place to look for the cause is inside the Windows Event Viewer, which stores all errors raised in the system.

To open the Event Viewer, click Start > Settings > Control Panel > Administrative Tools > Event Viewer. This will open up the event viewer:

Event Viewer	_	-	_	_	_ 🗆 🔀
	-				
Event Viewer (Local)	Event Viewer (Local)				
Application Security	Name	Туре	Description	Size	
System	Application	Log	Application Error Records	512.0 KB	
Internet Explorer	B Security	Log	Security Audit Records	64.0 KB	
	System	Log	System Error Records	128.0 KB	
	Internet Explorer	Log	Custom Log Error Records		

Click on the Application and System folders in turn and look for errors raised by "MSSQLSERVER", "KronoDesk", "DCOM", "ASPNET" or "IIS". Click on the error message, and copy the text of the message into a text editor (e.g. Notepad).

Before contacting Inflectra<sup>®</sup> customer support with the specific error message, here are a couple of common causes for the above errors together with the appropriate resolutions:

#### > The ASP.NET process account has been disabled

Go to Start > Control Panel > Administrative Tools > Computer Management and launch the Windows computer management console. Expand Local Users and Groups > Users and then double-click on the 'ASPNET' account. Make sure that the ASPNET user is not disabled. If you are using Windows 2003 or 2008 Server the ASPNET user is set per-application pool and typically is set to the built-in NETWORKSERVICE account, so this won't apply.

#### > The ASP.NET process account does not have sufficient permissions

Right-click on the C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319 folder (and any other versions of .NET that are listed) and make sure that the ASPNET, NETWORKSERVICE and LOCALSERVICE accounts are all listed with Full Control. If that doesn't fit the issue and you are using Windows 2003 or 2008 Server, open up the IIS manager and right-click on the Application Pool that KronoDesk® is running under and make sure that the identity listed has Full Control permissions on the same folders.

### > The Windows Event Log is full

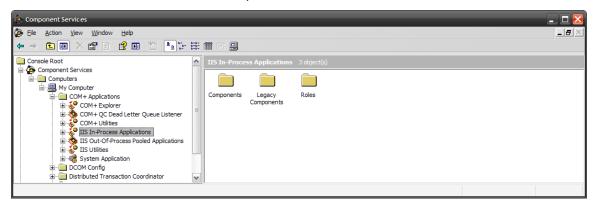
Open up the Application and System event logs, right-click on the log name and choose Properties. Make sure that both are set to "overwrite events as needed". If they are not set to overwrite as needed, change the setting then manually clear both logs.

If the resolutions above were not able to resolve the issue, please send an email to <a href="mailto:support@inflectra.com">support@inflectra.com</a> and include the error message from both the web page and the Windows Event Logs.

#### 4.1.1. Missing MSDTC Issue

There is one common error that has been found with installations where Microsoft SQL Server was installed *after* IIS was installed. This typically affects only Windows XP Professional, but could occur in other situations. What happens is that the SQL Server installation inadvertently removes the *Microsoft Distributed Transaction Coordinator* (MSDTC) service from the system during the installation.

To determine if this is indeed the cause of the observed error, you need to click on Start > Settings > Control Panel > Administrative Tools > Component Services:



Once the window has opened, expand the folders marked "Component Services", "Computers", "My Computer" and "COM+ Applications" in turn. If the window opens correctly and displays the information illustrated above, then your IIS 500 error is being caused by something else.

However if you receive an error message that indicates an inability to connect with the "Distributed Transaction Coordinator", then you have to fix the MSDTC service to enable IIS and ASP.NET to operate properly.

To fix the issue, you need to make changes to the Windows System Registry (hereafter referred to as "the registry"). This is a process that should **not** be attempted by novice users, since any incorrect changes can complete wreck the Windows installation, requiring a complete reinstallation of the operating system.

To open the registry, click Start > Run, and type "Regedit.exe" into the dialog box, and the registry will open:

ile Edit	View Favorites Help											
	🗉 🧰 MSDAIPP	^	Name	Туре	Data							
	I MSDN		(Default)	REG_SZ	(value not set)							
			AllowOnlySecureRpcCalls	REG_DWORD	0x00000001 (1)							
	I MSE		ClusteringVersion	REG_DWORD	0xffffffff (4294967295)							
	MSLicensing	-	FallbackToUnsecureRPCIfN	REG_DWORD	0x00000000 (0)							
	MSMQ								MaxLogSize	REG_DWORD	0x00000200 (512)	
	I		TurnOffRpcSecurity	REG_DWORD	0x00000000 (0)							
	🗈 🧰 MSSQLServer	~										
		>	<									

Expand the folders marked "My Computer", "HKEY\_LOCAL\_MACHINE", "SOFTWARE" and "Microsoft" in turn and navigate to the folder marked "MSDTC". Click the <Delete> button on your keyboard, and click <OK> on the confirmation box. Now close the registry editor.

Now you need to click on Start >Settings > Control Panel > Add or Remove Programs and click on the tab marked "Add/Remove Windows Components":

Windows Components Wizard				
Windows Components You can add or remove components of Windows XP.	t			
To add or remove a component, click the checkbox. A shar part of the component will be installed. To see what's includ Details.				
Components:				
Accessories and Utilities	18.0 MB 🔺			
Fax Services	3.8 MB			
✓ Indexing Service	0.0 MB			
C C Internet Explorer	0.0 MB			
Internet Information Services (IIS)	13.5 MB			
Description: Includes Windows Accessories and Utilities for your computer.				
Total disk space required: 56.3 MB				
Space available on disk: 38370.1 MB	Details			
<pre> Back</pre>	Next > Cancel			

Don't change any of the selected components, but instead simply click the <Next> button. The Windows installer will detect that the MSDTC is missing (due to the registry change you made) and will now reinstall it correctly. Once this has finished, reboot the system and you should now be able to access ASP and ASP.NET applications from within IIS.

#### 4.1.2. Application Session Pooling Issues (Windows Vista, 7 or 2008)

This issue can affect Windows Vista, 7 or Server 2008 using IIS 7.0. Since the 6.0 release of IIS, there is the ability to separate the web-server into different "Application Pools". Sometimes, web hosting companies will host multiple websites in the same application pool (which we do not recommend). When resources are maxed out for an application pool IIS 7 starts to recycle these sites causing application variables to be lost for those recycled sites. *By default, KronoDesk installs on these operating systems in its own application pool*.

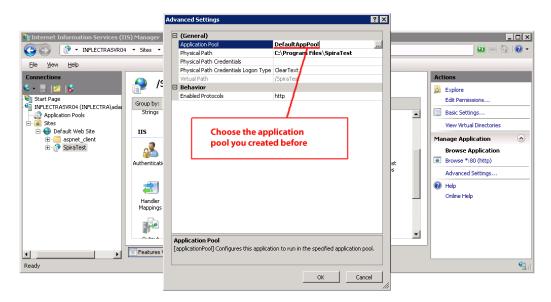
*If you are experiencing application/session loss symptoms* then we recommend asking your web hosting company to verify that your instance of KronoDesk is running in its own application pool with all recycling options disabled and the recycle worker process set to recycle only once during the day at a set time.

To make these changes yourself, you need to follow these steps:

Add new application pool for "KronoDesk" (if one does not already exist) and make sure it is set to use the .NET Framework v4.0 and the "Integrated Pipeline":

Internet Information Services (II)							
G C INFLECTRASVR04	<ul> <li>Application Po</li> </ul>	ols					🖬 🗠 🟠 i 🔞 -
File View Help							
Connections	This page lets yo worker processes cation Pool Click it an	, contain one or mo	the list of applic ore applications, Go ~ 💭 Shor NET Frame v2.0 name	ation pools on the se and provide isolation w All Group by: <u>N</u> Managed Pipeli Classic Integrated	rver. Application pools among different appli lo Grouping Identity NetworkService NetworkService	are associated with cations.  Applications 0 2	Actions Add Application Pool Set Application Pool Defaults Help Online Help
Ready	Features View	Content View					- • <u>1</u>

Next, choose your own application pool in the KronoDesk web site properties:



# 4.2. Appendix B – Using with SSL

This section outlines how you can install a Secure Sockets Layer (SSL) certificate onto IIS to allow users to access KronoDesk® via an encrypted protocol, so that usernames, passwords and sensitive project data cannot be "sniffed" across the network. This is especially important if your web-server is being accessed across the Internet.

This section assumes that you already have a Certificate Authority (CA) available to generate an SSL certificate for you. This can either be a third-party provider (e.g. Verisign) or a tool used to generate "self certificates" that can be used internally to your organization. For more information on the differences between these two options, please read the following documents:

http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/8d3bb71a-0a7f-443f-8084-908d0dab9caa.mspx?mfr=true (installing self or third-party certificate on Windows Server 2003)

http://www.somacon.com/p42.php (installing self-certificate on Windows XP)

Once you have decided how you will generate the certificate, you next need to generate the request for the certificate from your web server. First, click Start > Settings > Control Panel > Administrative Tools > Internet Information Services to bring up the IIS management console:

🝓 Internet Information Services	5			
File Action View Help				
🝓 Internet Information Services	Name	Path		
SANDMAN (local computer)	🛞 IISHelp	c: \windows \help \iishelp		
🖃 🦲 Web Sites	Generation Scripts	C:\Inetpub\Scripts		
🖻 🌧 Default Web Site	vti_bin	C:\Program Files\Common Files\Micr		
🗄 🏷 Default SMTP Virtual Server	Printers	C:\WINDOWS\web\printers		

Now, right-click on the "Default Web Site" and choose "Properties", then click the "Directory Security" tab:

Default Web Site	e Properties		? 🛛			
Web Site Directory Securit	ISAPI Filters	Home Directory Custom Errors	Documents Server Extensions			
Anonymous act	Anonymous access and authentication control					
	domain name restriction		<u>E</u> dit			
A G	rant or deny access to the addresses or internet d	nis resource using	Edit			
	Secure communications					
	nable client certificates w source is accessed.		ew Certificate			
			E <u>d</u> it			
	ОК	Cancel	pply Help			

Now, click the button marked "Server Certificate", click <Next> and choose the option marked "Create a new certificate", and click <Next>. You can then choose to either prepare the certificate request and sent

it later, or to send the certificate request immediately to an online CA. If you are using a third-party CA and are connected to the Internet choose the second option, otherwise choose the first option.

IIS Certificate Wizard	$\mathbf{X}$
Name and Security Settings Your new certificate must have a name and a specific bit length.	
Type a name for the new certificate. The name should be easy for you to refer to and remember. Name:	
Spira Test Installation - Development Server The bit length of the encryption key determines the certificate's encryption strength. The greater the bit length, the stronger the security. However, a greater bit length may decrease performance. Bit length	
Bit length: 2048  Server Gated Cryptography (SGC) certificate (for export versions only)  Select cryptographic service provider (CSP) for this certificate	
Back Next > Cancel	

Enter the name for the certificate, typically this will contain the name of the organization, purpose of the certificate and any other pertinent information that will help you distinguish it.

You should choose a bit-length of at least 2048 bits, and leave the other options unchecked unless you are using the server outside of the United States, in which case you will need to choose the "Server Gated Cryptography (SGA)" option. Click the <Next> button when you are finished.

Certificat	te Wizard				×
Your certif	n Information icate must include ies it from other org		oout your organi:	zation that	
	ype your organizati e of your organizati				the
For further	information, consu	It certification	authority's Web	site.	
Organizati	on:				
Inflectra (	Corporation			~	
Organizati	onal unit:				
0.0	Development				

Now enter the organization and organizational unit name that best describes who is requesting the certificate. Click <Next> when you are finished.

IIS Certificate Wizard
Your Site's Common Name Your Web site's common name is its fully qualified domain name.
Type the common name for your site. If the server is on the Internet, use a valid DNS name. If the server is on the intranet, you may prefer to use the computer's NetBIOS name. If the common name changes, you will need to obtain a new certificate.
Common name:
sandman
Kart Sack Next > Cancel

Next enter the "common name" for the web site that will be using the certificate. For a website that will be accessed across the Internet, this should the fully qualified domain name (e.g. <u>www.mysite.com</u>), whereas for a website that is limited to a local intranet, the computer name will suffice (e.g. myhost). Click <Next> when you are finished.

IIS Certificate Wizard
Geographical Information The certification authority requires the following geographical information.
Country/Region: US (United States)  State/province: Maryland  City/locality: Silver Spring State/province and City/locality must be complete, official names and may not contain abbreviations.
< Back Next > Cancel

Next enter the country / region, state / province and city / locality that best describe where the web-server will operate or where the organizational entity resides. Once you are finished, click <Next>.

IIS Certificate Wizard	
Certificate Request File Name Your certificate request is saved as a text file with the file name you specify.	
Enter a file name for the certificate request.	
File name:	
c:\sandman_spiratest_certreq.txt	Browse
< Back Next >	Cancel

Next, enter the filename that you want to use for the *certificate request file*. This is the file that you will send to the Certificate Authority (CA) to request an SSL certificate. This filename should be memorable and describe what the certificate is for. The file extension should be .txt. Click <Next> once you have finished entering the filename.

IIS Certificate Wizard	
Request File Summary You have chosen to generate	a request file.
To generate the following requ File name: c:\sandman_spira Your request contains the follo	atest_certreq.bd
Issued To Friendly Name Country/Region State / Province City Organization Organizational Unit	sandman SpiraTest Installation - Development Server US Maryland Silver Spring Inflectra Corporation Software Development
	< Back Next > Cancel

Finally, you will get a confirmation screen that verifies the information you have entered. If you want to make changes, click the <Back> button, otherwise click <Next> to actually generate the certificate. Once finished, you will now have the certificate request file that you can send to the Certificate Authority (CA) to process your request.

Once the CA has processed your request, they will send back the actual SSL certificate that you can install onto your web-sever. The next steps will describe how to install the certificate once you receive it back from the CA.

Once you have received the SSL certificate back from the CA, save the file onto your hard-disk with the file-extension .cer. Now open up the IIS management console (as described above), right-click on the "Default Web Site" icon and choose "Properties". Now select the "Directory Security" tab, and click the button marked <Server Certificate> under the heading "Secure Communications". When the dialog box appears, choose the second option – to process an existing request. This will bring up the following dialog box:

IIS Certificate Wizard	X
Process a Pending Request Process a pending certificate request by retrieving the file that contains the certification authority's response.	
Enter the path and file name of the file containing the certification author	ity's response.
Path and file name:	
c:\*.cer	Browse
< Back Next >	Cancel

Now, browse to the place on your hard disk where you saved the SSL certificate (with extension .cer) and select the file you saved. Click <Next> to load the certificate. Once the certificate has been loaded, all that remains is to tell IIS to require a secure HTTPS connection, so that users don't attempt to access the website over the unencrypted HTTP protocol.

From the IIS properties dialog box, click the button marked <Edit> under the "Secure Communications" heading:

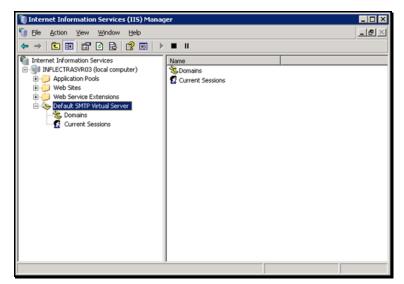
Secure Communications	×
Require secure channel (SSL)	
Require 128-bit encryption	
Client certificates	
<ul> <li>Ignore client certificates</li> </ul>	
Accept client certificates	
Require client certificates	
Enable client certificate mapping	-
Client certificates can be mapped to Windows user accounts. This allows access control to resources using client certificates.	
Enable certificate trust list	
Current CTL:	
New Edit	
OK Cancel Help	

Check the box marked "Require secure channel (SSL)", and click the <OK> button. You have now successfully configured IIS for secure HTTPS data transmission.

## 4.3. Appendix C – Sending Email through IIS

This section outlines the steps that you need to take to configure your IIS web server to send email notifications from KronoDesk®. Since email configurations can vary greatly between environments, please check with your local IT personnel for the correct settings that should be used. This section assumes that you have an SMTP mail-server available on your network that is capable of relaying the email from the IIS server.

First open up the Internet Information Services (IIS) Manager on your server and expand the Default SMTP Virtual Server node:



Right-click on the "Default SMTP Virtual Server" node and click on "Properties". Then select the "Delivery" tab on the dialog box that pops-up:

Default SMTP Virtual Server Properties	? ×	
General Access Messages Delivery LDAP Routing Security		
Outbound		
Eirst retry interval (minutes):	15	
Second retry interval (minutes):	30	
Third retry interval (minutes):	60	
Subsequent retry interval (minutes):	240	
Delay notification:	12 Hours 💌	
Expiration timeout:	2 Days 💌	
Local		
Delay notification:	12 Hours 💌	
Egpiration timeout:	2 Days	
Outbound Security Outbound connections Advanced		
OK Cancel	Apply Help	

Now, click on the <Advanced> button to bring-up the advanced delivery configuration screen:

Advanced Delivery	×
Maximum hop count:	
Masquerade <u>d</u> omain:	
inflectra.com	
Eully-qualified domain name:	
inflectrasvr03	<u>C</u> heck DNS
<u>S</u> mart host:	
mail.inflectra.com	
Attempt direct delivery before sending to smart host	
Perform reverse DNS lookup on incoming messages	
OK Cancel	Help

In this dialog box, you should enter the following information:

> Masquerade domain:

This is the domain name that you want emails from KronoDesk® to look like their being sent from. This is typically the domain name of your organization (e.g. mycompany.com)

#### > Fully-qualified domain name:

This is the fully qualified domain name of the IIS server that KronoDesk® is installed on (e.g. iisserver.mycompany.com).

#### > Smart host:

This is the fully qualified domain name of the SMTP mail-server that will actually be used in delivering the emails. (e.g. mail.mycompany.com). You will need to get the name of this from your IT personnel.

Once you have updated the settings, click the various <OK> buttons and you should now see emails being delivered from KronoDesk®. Note: the email address that is used as the 'from address' for all emails generated by KronoDesk® is the email address stored in the Administrator user's profile. You should edit that user's account and make sure their email address is a valid email address in your environment.

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