# **CenTran 5 Getting Started Guide**

# dormakaba

# dormakaba Welcome

dormakaba is the world's leading manufacturer and supplier of high security, electronic safe locks. Its complete line of self powered, battery, and mechanical locks meets virtually every safe lock requirement. dormakaba is dedicated to satisfying end-user needs for security, safety, and convenience. We welcome you to the world of dormakaba security and the Cencon lock.

# **Manual Conventions**

**Trademarks** 

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# **Manual Conventions**

This CenTran Getting Started Guide contains information on the installation and set up of the hardware and software required to manage locks. Some conventions that are followed are:

- The Smart Keys needed for a particular operation will be shown beside the flowcharts that describe the operation.
- Input to the PC will be shown in **bold type**.
- The screen samples may not look exactly as they do on your system depending on which version of the Windows operating system you are using.
- Highlighted items:

# Note Indicates a point to consider. Helpful Hint Indicates a technique or method that works well. Caution Indicates the need for care and caution to be observed during a procedure or process. Warning Indicates the possibility of loss of data or system integrity.

Before reading the CenTran Getting Started Guide, you should be familiar with basic Windows concepts and techniques. For detailed information, refer to your Windows documentation.

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# Introducing CenTran 5

# **CenTran 5 Getting Started Guide**

# The CenTran Version 5 Package

The CenTran 5 implementation package includes:

- The CenTran Version 5 Install source (DVD, USB drive, or download)
- CenTran 5 Getting Started Guide
- CenTran 5 XML Programming Manual Included on install source (DVD, USB drive, or download) in electronic format
- CenTran 2 Programming Guide Included for legacy CenTran use on install source (DVD, USB drive, or download) in electronic format

If you are missing any of the above items, contact dormakaba Customer Service at 1(800) 950-4744

# **CenTran 5 System Requirements**

To use the CenTran program, the following minimum hardware and software requirements must be met:

• IBM<sup>®</sup> compatible PC that is capable of running the Windows<sup>®</sup> OS's listed below and has an available USB port for the dormakaba USB Key Box.

# Note

The Cencon Key Box requires a fully compliant USB 2.0 connection. Some computers, especially laptops and notebooks, may not provide sufficient power for the Cencon Key Box. In these cases it may be necessary to use a powered USB hub to attach the Cencon Key Box. On laptops or notebooks with "power saving" features that turn off USB power, the computer's Operating System (OS) could disconnect from the Cencon Key Box. In this instance, after awakening the computer and CenTran 5 software, unplug and re-plug the USB cable between the computer and the Cencon Key Box.

# Note on Virtual Machines

It is recommended that the CenTran program be installed on a dedicated physical server. However, CenTran will operate correctly when installed in a virtual machine that fully emulates an IBM-compatible PC that meets all of the system requirements detailed in this section.

Important Note: Many virtual hosting services will not allow the attachment of USB devices directly to the physical machine hosting a given virtual machine. When the CenTran program is running under such a host, the Cencon USB Key Box must be attached through a secure, fully USB-2.0-compliant USB-redirection solution.

- 4 GB RAM Minimum (8 GB RAM or higher is recommended.)
- If your install source is a DVD, a DVD Drive is needed. The install source can be a DVD, USB drive, or download.
- Hard Disk Drive with at least 50 megabytes disk space free
- Please note that systems running more than 25,000 locks should run at higher than 4 GB RAM to ensure optimal system performance. (Please refer to Appendix D of the Cencon Reference Manual for more information.)

# Important Note

If you are upgrading from a previous version of Cencon and CenTran, you should also allow ample disk space for database growth.

- Windows<sup>®</sup> 7 32/64-bit, 8.1 32/64 bit, 10 32/64 bit, Windows<sup>®</sup> 2008 R2 Server 64-bit, 2012 R2 Server 64 bit, or Windows Server 2016, with 4.5.1 or higher .NET Framework.
  - You must be logged into Windows® with Admin authority
- An installed Database Management System (DBMS):
  - Either Microsoft<sup>®</sup> SQL Server<sup>®</sup> 2008 R2, 2012 R2 Server 64 bit, 2014 R2 Server, 2016, or 2017 (including the SQL Server<sup>®</sup> Express, Standard, or Enterprise Editions).
  - The DBMS installation does not have to be on the same computer as CenTran. You will need to have a valid ODBC connection to the DBMS for CenTran to use.
  - The above computer requirements do not include the requirements for the DBMS. If the DBMS is being run on the same computer as CenTran, then the total requirements will be the requirements of CenTran plus those of the DBMS.
  - The requirements of the DBMS installation will vary depending on the number of locks and users being used by Cencon and CenTran and the number of Cencon and CenTran installations connected to that DBMS.
  - A full installation of SQL Server<sup>®</sup> typically also requires .NET Framework 3.5; how this is obtained and installed will depend on the version of SQL Server<sup>®</sup> being installed and the version of Windows<sup>®</sup> on which it is being installed.

#### Note

If you do not have an existing Mcrosoft<sup>®</sup> SQL Server<sup>®</sup> database, you can download a free copy of the latest Mcrosoft<sup>®</sup> SQL Server<sup>®</sup> Express Edition from the Mcrosoft<sup>®</sup> web site at <a href="http://www.microsoft.com/express/sgl/default.aspx">http://www.microsoft.com/express/sgl/default.aspx</a> You should also download and install the SQL Server<sup>®</sup>

Management Studio.

Be sure to read the related Mcrosoft<sup>®</sup> information on system requirements and prerequisites for these components. Contact dormakaba Technical Support for additional information.

Note - The screens shown in the CenTran Software manuals were captured on a Windows®7 system. Your screens may look slightly different.

#### **Important Note**

CenTran 5 also requires an operational Cencon 5 system and associated database, either locally or on a network accessible computer. It is not compatible with previous versions of Cencon System 2000 software.

### **PC Hardware Installation**

#### Note

The Cencon Key Box is not included with the CenTran 5 program package and must be purchased separately if not already installed on your PC system. See the Cencon 5 Getting Started Guide for Key Box installation instructions.

#### **Important Note**

Running the Cencon 5 software and the CenTran 5 software concurrently on a PC system is not recommended.

# Before Installing the CenTran 5 Software

# Warning

If you have not already contacted dormakaba Customer Service at 1(800) 950-4744 in preparation for your installation of CenTran 5, you must do so at this time to review minimum system requirements and database setup for your installation of CenTran 5, and to perform data validity checks on any current Cencon data.

#### Warning

During the CenTran 5 configuration process, you will be required to enter a unique four digit Company Number/ID. If you are a branch of a larger company, this ID must be identical to that used for all other Cencon and CenTran installations by your company. It is helpful to determine what the four-digit number is before you begin the installation process.

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# Cencon ATM Cash Vault Security System Product Overview

# **CenTran Version 5 Getting Started Guide**

# The Challenge

While the front of ATMs are accessed by customers with individual cards and PINs, the back of the ATM is often accessed by service personnel from multiple companies all using the same lock combination. Bank employees, cash replenishers, technical service reps, repair personnel all using the same combination to open an ATM safe poses a significant security risk.

#### The Solution

The Cencon ATM Cash Vault Security System from dormakaba is designed to combat insider theft from ATMs through the combined use of lock hardware, systems software and Smart Keys. The Cencon system offers total access control and accountability with its One Time Combination feature. The One Time Combination is dispatched from a central location and cannot be reused at a later date, thus eliminating temptation.

The Cencon ATM Cash Vault Security System allows locks located anywhere in the world to be controlled and monitored from one central location.

The central location consists of

- · A database describing locks, lock administration personnel, lock service personnel, lock access details and history.
- · dormakaba software that
  - Manages the creation and distribution of One Time Combinations(OTC).
  - Tracks the status of each lock and user.
  - · Provides audit capability.
  - Can be used interactively by a human Dispatcher or programmatically by customer applications such as IVR or Web base interfaces.

#### The software provided by dormakaba consists of

- Cencon Interactive Application: Interactive Central Point of Control
  - Used to create, distribute, manage One Time Combinations (OTC).
- CenTran Service: Background Central Point of Control
   Used by customer, 3rd party applications to create, distribute and manage OTCs.
- CenTran Web Services: Used by customer web applications to communicate with CenTran Service.
- CenTran Agent
  - Remote lock management: Allows CenTran Service to communicate with ATM lock, streamlining lock administration.
- Key Box Agent
  - Remote key management: Allows CenTran Service to communicate with remote key boxes, supporting decentralized lock personnel.

The Cencon ATM Cash Vault Security System supports three Modes of Operation:

## FLM Mode

Designed for First Line Maintenance (FLM) personnel such as cash replenishers, technical service reps, repair personnel, the FLM mode of the Cencon lock permits the dispatch center to give a One Time Combination (OTC) for ATM lock access to a technician "on the fly." FLM personnel are each issued a Smart Key and call their dispatch center to request a One Time Combination. Once used, this combination will not function again, thus ensuring absolute access control. Once the Cencon unit is locked, a Close Seal code is displayed on the lock's LCD. Entering this Close Seal into the dispatch center's computer documents that the Cencon lock is locked and secure.

#### Route Mode

While permitting the same access control as FLM Mode, Route Mode additionally permits pre-defined routes for armored cash replenishers. Route personnel are each issued a Smart Key. A route of locks, along with an OTC for each lock on the route, may be assigned by a dispatch center permitting route personnel to access a series of locks without contacting their dispatch center at each individual lock. Route personnel can either call their dispatch center at the end of the shift to report the Close Seals, or the Close Seals can be read from the Smart Key by the Cencon software.

#### Bank Mode

Bank Mode is designed for bank personnel who may need access to the Cencon system lock but do not wish to operate through a dispatch center. Smart Keys and combinations are issued to bank personnel who may unlock the Cencon lock at any time. An internal audit trail tracks all activity of bank personnel just as it does for FLM and Route personnel. dormakaba Cencon software permits bank administrators to manage Bank Mode on site. Bank users may be added or deleted and audit trails may be downloaded from the lock.

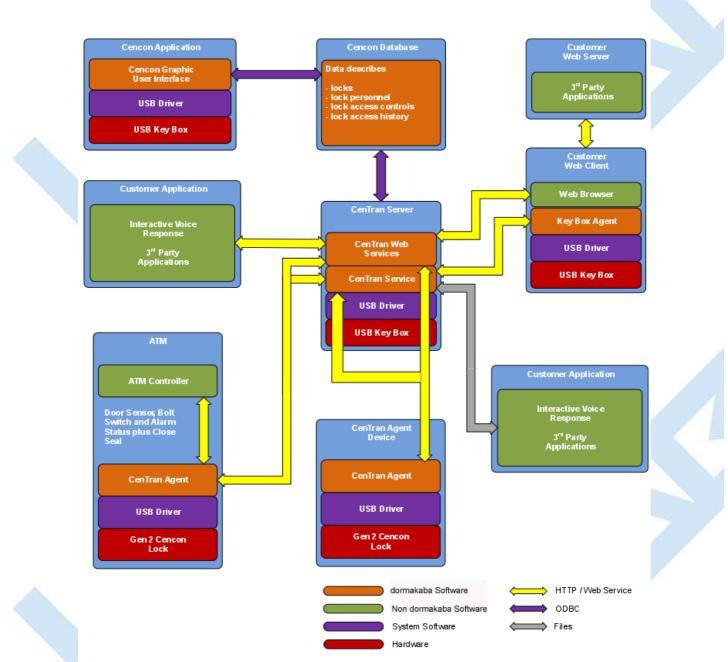
High Level Overview of Cencon ATM Cash Vault Security System Component Architecture

The Cencon ATM Cash Vault Security System consists of several components whose method of use will vary depending on the business model of the supported enterprise. Presented here is a brief high level overview of the Cencon ATM Cash Vault Security System components.





# Cencon ATM Cash Vault Security System Component Architecture



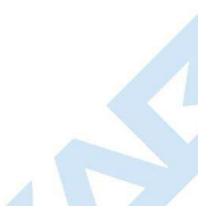
#### Cencon Database:

- Defines locks to be controlled, monitored and audited.
- Defines personnel allowed to access locks.
- Defines Personnel allowed to control access to locks.
- Contains access history for each lock.

# **Cencon Application:**

- Interactive, graphical Windows application used to manage the Cencon Database contents.
- Requires a Cencon Key Box be attached to a USB port of the same computer.

CenTran Service:



- Available for use by customer applications to manage the Cencon Database contents.
- Applications communicate with the service via files or HTTP / Web Services.
- Runs in background as a Windows Service.

# CenTran Web Services:

Available for use by web applications to manage Cencon Database contents.

## Customer Application Using CenTran Service Command File:

- The CenTran Service performs actions against the Cencon Database per commands imbedded in files.
- Results of those actions are reported in output files created by the CenTran Service.

## Customer Application Using CenTran Web Services:

- The CenTran Service performs actions against the Cencon database per commands received via the CenTran Web Services.
- Results of those actions are reported to the customer application via the CenTran Web Services.

# CenTran Agent:

- Allows CenTran Service to monitor lock in a real time manner.
- · Runs on the ATM in the background as a Windows Service.

# Key Box Agent:

- Allows CenTran Service access to Cencon Key Boxes on remote systems.
- Runs on remote Web Client systems in background as a Windows Service.

# **Customer Web Client:**

- Customer developed web browser based user interface used to manage Cencon Database contents as well as Cencon Smart Keys via the CenTran Web Services.
- Can be located remotely.

# Cencon ATM Cash Vault Security System Components and Business Processes

# Examples of Business Processes Supported by Cencon ATM Cash Vault Security System Components:

1. FLM (First Line Maintenance) Operations with human Dispatcher:

- 1. FLM personnel reaches ATM and contacts Dispatcher requesting OTC.
- 2. Dispatcher generates OTC via Cencon interactive application, gives OTC to FLM personnel.
- 3. FLM personnel opens and closes lock, recording the Close Seal.
- 4. FLM personnel gives Close Seal to Dispatcher who enters it into Cencon database via Cencon interactive application.
- 2. Route Operations with human Dispatcher:
  - 1. Before starting route, Route personnel contacts Dispatcher and requests OTCs for each lock on route.
  - 2. Dispatcher generates OTCs via Cencon interactive application, gives OTCs to Route personnel.
  - 3. Route personnel opens and closes each lock on route, recording Close Seals.
  - 4. When the Route has been completed, the Close Seals are given to the Dispatcher who enters them into the Cencon database via Cencon interactive application.
- 3. FLM Operations with IVR (Interactive Voice Response) system:
  - 1. FLM personnel reaches ATM, calls IVR system and requests OTC.
  - 2. IVR system generates OTC via CenTran Command File interface and reports OTC to FLM person.
  - 3. FLM personnel opens and closes lock, recording the Close Seal.
  - 4. FLM personnel calls IVR system and enters Close Seal.
  - 5. IVR system records Close Seal in Cencon database via CenTran Command File interface.

Though business processes will vary between companies there are core lock management tasks that will be used in every enterprise such as:

- Create User and Initialize Smart Key
- Delete User
- Dispatch Lock
- Open / Close physical lock
- Close Lock in Cencon database
- Reassign Lock
- Audit Lock
- Audit Key
- Audit Cencon Database

The following lists describe for a few of the core lock management tasks one possible flow of control through the Cencon ATM Cash Vault Security System components.

#### Create User and Initialize Smart Key:

- Dispatcher ->
- Customer Web Client ->
- CenTran Web Services ->
- CenTran Service ->
- CenTran Web Services ->
- Key Box Agent ( writes KEY ) ->
- CenTran Service ->
- CenTran Web Services ->
- Customer Web Client

# Note:

- Customer Web Client & Key Box Agent will probably be on same location but do not have to be
- Customer Web Client does NOT require a Keybox on the same system

# Dispatch Lock(s):

- Dispatcher ->
- Customer Web Client ->
- CenTran Web Services ->
- CenTran Service ->
- Cencon Database ->
- CenTran Service ->
- CenTran Web Services ->
- Customer Web Client ->
- Dispatcher receives OTC
- Dispatcher transmits OTC to FLM/Route personnel

#### Lock is physically opened and closed:

- Service personnel calls Close Seal in to the Dispatcher who "Closes Lock" in the Cencon Database. The component flow is the same as that described for Dispatch Lock(s).
  - OR
- CenTran Agent Service on ATM uses CenTran Web Services to report Closure to CenTran Service and "Closes Lock" in the Cencon Database programmatically:
  - Lock is closed ->
  - CenTran Agent ->
  - CenTran Web Services ->
  - CenTran Service ->
  - Cencon Database ->
  - CenTran Service ->
  - CenTran Web Services ->
  - CenTran Agent

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# Introducing CenTran 5

# **CenTran 5 Getting Started Guide**

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# Note

The Cencon Key Box requires a fully compliant USB 2.0 connection. Some computers, especially laptops and notebooks, may not provide sufficient power for the Cencon Key Box. In these cases it may be necessary to use a powered USB hub to attach the Cencon Key Box. On laptops or notebooks with "power saving" features that turn off USB power, the computer's Operating System (OS) could disconnect from the Cencon Key Box. In this instance, after awakening the computer and CenTran 5 software, unplug and re-plug the USB cable between the computer and the Cencon Key Box.

# Note on Virtual Machines

It is recommended that the CenTran program be installed on a dedicated physical server. However, CenTran will operate correctly when installed in a virtual machine that fully emulates an IBM-compatible PC that meets all of the system requirements detailed in this section.

Important Note: Many virtual hosting services will not allow the attachment of USB devices directly to the physical machine hosting a given virtual machine. When the CenTran program is running under such a host, the Cencon USB Key Box must be attached through a secure, fully USB-2.0-compliant USB-redirection solution.

- 4 GB RAM Minimum (8 GB RAM or higher is recommended.)
- If your install source is a DVD, a DVD Drive is needed. The install source can be a DVD, USB drive, or download.
- Hard Disk Drive with at least 50 megabytes disk space free
- Please note that systems running more than 25,000 locks should run at higher than 4 GB RAM to ensure optimal system performance. (Please refer to Appendix D of the Cencon Reference Manual for more information.)

# Important Note

If you are upgrading from a previous version of Cencon and CenTran, you should also allow ample disk space for database growth.

- Windows<sup>®</sup> 7 32/64-bit, 8.1 32/64 bit, 10 32/64 bit, Windows<sup>®</sup> 2008 R2 Server 64-bit, 2012 R2 Server 64 bit, or Windows Server 2016, with 4.5.1 or higher .NET Framework.
  - You must be logged into Windows® with Admin authority
- An installed Database Management System (DBMS):
  - Either Microsoft<sup>®</sup> SQL Server<sup>®</sup> 2008 R2, 2012 R2 Server 64 bit, 2014 R2 Server, 2016, or 2017 (including the SQL Server<sup>®</sup> Express, Standard, or Enterprise Editions).
  - The DBMS installation does not have to be on the same computer as CenTran. You will need to have a valid ODBC connection to the DBMS for CenTran to use.
  - The above computer requirements do not include the requirements for the DBMS. If the DBMS is being run on the same computer as CenTran, then the total requirements will be the requirements of CenTran plus those of the DBMS.
  - The requirements of the DBMS installation will vary depending on the number of locks and users being used by Cencon and CenTran and the number of Cencon and CenTran installations connected to that DBMS.
  - A full installation of SQL Server<sup>®</sup> typically also requires .NET Framework 3.5; how this is obtained and installed will depend on the version of SQL Server<sup>®</sup> being installed and the version of Windows<sup>®</sup> on which it is being installed.

#### Note

If you do not have an existing Mcrosoft<sup>®</sup> SQL Server<sup>®</sup> database, you can download a free copy of the latest Mcrosoft<sup>®</sup> SQL Server<sup>®</sup> Express Edition from the Mcrosoft<sup>®</sup> web site at <a href="http://www.microsoft.com/express/sgl/default.aspx">http://www.microsoft.com/express/sgl/default.aspx</a> You should also download and install the SQL Server<sup>®</sup>

Management Studio.

Be sure to read the related Mcrosoft<sup>®</sup> information on system requirements and prerequisites for these components. Contact dormakaba Technical Support for additional information.

Note - The screens shown in the CenTran Software manuals were captured on a Windows® 7 system. Your screens may look slightly different.

#### **Important Note**

CenTran 5 also requires an operational Cencon 5 system and associated database, either locally or on a network accessible computer. It is not compatible with previous versions of Cencon System 2000 software.

## **PC Hardware Installation**

#### Note

The Cencon Key Box is not included with the CenTran 5 program package and must be purchased separately if not already installed on your PC system. See the Cencon 5 Getting Started Guide for Key Box installation instructions.

#### **Important Note**

Running the Cencon 5 software and the CenTran 5 software concurrently on a PC system is not recommended.

# Before Installing the CenTran 5 Software

# Warning

If you have not already contacted dormakaba Customer Service at 1(800) 950-4744 in preparation for your installation of CenTran 5, you must do so at this time to review minimum system requirements and database setup for your installation of CenTran 5, and to perform data validity checks on any current Cencon data.

#### Warning

During the CenTran 5 configuration process, you will be required to enter a unique four digit Company Number/ID. If you are a branch of a larger company, this ID must be identical to that used for all other Cencon and CenTran installations by your company. It is helpful to determine what the four-digit number is before you begin the installation process.

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# Software Installation and Setup

**CenTran 5 Getting Started Guide** 

Complete the following steps to install the software:

- 1. Check the PC Date and Time Properties (date, time, time zone, DST adjustment setting) from the Control Panel to ensure accuracy. Adjust, if necessary, before proceeding.
- 2. Ensure that no other programs are running.
- 3. If you have a previous version of Cencon installed, you should ensure that data has been archived in accordance with the customer archive requirements and then backup the current Cencon database.
- 4. If your install source is a DVD, insert the Cencon 5 Install DVD in the appropriate drive. The install source can be a DVD, USB drive, or download. If you have autorun enabled on your system, the Cencon 5 Installation screen will be displayed. Otherwise, double click Autorun.exe from the CenTran 5 install source (DVD, USB drive, or download) root directory, and the CenTran 5 Installation screen will be displayed. The CenTran Version 5 Software Installation dialog is loaded and the Main Menu is displayed:

CenTran 5 Ins	stallation	œ ×	
	CenTran <sup>®</sup> Version 5	dormakaba 🚧	
8	Install View Maintenance Agreement		
ŏ	Product Documentation View Our Website Contact Us	CHAREA C	
0		Exit	

- 5. From the Main Menu, click on the Install button.
- 6. Depending on your operating system, either the 32 or 64-bit CenTran install page is displayed:







# 7. Install Microsoft<sup>®</sup> SQL Server<sup>®</sup> 2012 Native Client 11.0 ODBC Driver

Install the Microsoft<sup>®</sup> SQL Server 2012 Native Client 11.0 ODBC Driver on your system if you have not already done so. Using the default SQL ODBC Driver available with Windows will result in slow performance. If you have a more recent SQL installation from Microsoft than SQL Server 2012 use that SQL ODBC Driver. To install the provided SQL ODBC Driver select the **SQL ODBC Driver** button.

#### 8. Install Cencon USB KeyBox and Cencon Lock Adapter Device Drivers

Install the Cencon USB KeyBox and Cencon Lock Adapter device drivers by clicking on the Windows Drivers button. The button will state either **Windows 32 Bit Drivers** or **Windows 64 Bit Drivers** depending on if you have a 32 or 64 bit operating system. The Cencon Driver Installer application will be launched by clicking on the button.

<section-header><section-header><section-header></section-header></section-header></section-header>	This installer sets up drivers for the Cencon USB Key Box and Cencon USB Lock Adapter. If these devices are not present on your system, the drivers are preinstalled for when the devices are connected later. You will need administrative logon access on your computer to install the drivers. If this installer is run without administrative access, it will not be able to install the drivers. Select Next to install drivers for the Cencon USB Key Box and Cencon USB Lock Adapter. You may be prompted to reboot after the installation completes. Select Cancel to exit without installing drivers.	
	Cancel	

Click on **Next** to begin installing drivers. The Cencon Driver installer will update existing drivers as needed. It will also preinstall the drivers if you do not have a Cencon USB KeyBox or Cencon Lock Adapter attached yet. You will be prompted for Windows operating system authorization several times as the drivers are installed. You will need to select **Yes** for each one of these approval dialogs. You must have administrative rights on the operating system you are installing drivers to. The driver install can take several minutes, depending on your computer performance.

Once the driver installation is complete, you should see a result page similar to the following:



Driver install finished.		
9. Next, click on the CenTran button on the CenTran install page.	 button on the CenTran install page.	

CenTran<sup>®</sup> 5 only supports using the Cencon USB KeyBox. Cencon PCI or ISA Cards are no longer supported.

The "Welcome to the CenTran Setup Wizard" screen is displayed. The installer is a Windows program that will take you through the rest of the setup process:



	ran 5.4.0.4300 (64-bit) Setup		-		×	
End-	User License Agreement		dor	make	aba	
Plea	ase read the following license agreemen	it carefully				
					_	
	ATTEN	ITION!			^	
	READ THIS AGREEMENT E		LING THE			
	dormakaba SOFTWARE CENTRANº 5		EMENT			
Lexi for	s is a legal agreement betwee ington, KY 40508 and the individua this license (Licensee). By op	al or company purc bening the package	hasing and ge contain	l paying ing the		
	accept the terms in the License Agreem	ent				
	Print	Back	Vext	Can	cel	

Read the Software License Agreement and then click the I accept the terms in the License Agreement button followed by the Next> button.

11. The Destination Folder window is displayed to allow you to select the program folder to which the CenTran 5 program will be added.

Centran 5.4.0.4300 (64-bit) Setup		—		×
Destination Folder		dor	maka	ba 🚧
Click Next to install to the default folder or click	Change to choose a	nother.		
Install Centran 5.4.0.4300 (64-bit) to:				
C:\Centran\				
Change				
	Back Nex	t l	Canc	el
	Door Nex		Cane	<u>.</u>

Note: The default installation directory is shown. If CenTran 5 is already installed on your system, it is recommended that you install CenTran 5 to a new directory. If you want the CenTran 5 software installed in another directory, click on the Browse button and select the new path.

Click on the Next> button to add the programs to the designated folder.

12. Confirm Installation - If there is anything you wish to change, click on the **Back** button. Otherwise, click **Next>** to install the program with the designated settings.





	4 Cantan 5 4 0 4200 (64 hit) Sa			
	Centran 5.4.0.4300 (64-bit) Se		– 🗆 X dormakaba 🚧	
	Ready to install Centran !	5.4.0.4300 (64-DIC)		
	Click Install to begin the install installation settings. Click Can	ation. Click Back to review or change cel to exit the wizard.	any of your	
		Back Install	Cancel	
The Setup Status screen display	s the status of the installation.			
	Centran 5.4.0.4300 (64-bit) Se		– 🗆 X dormakaba 🛩	
	Please wait while the Setup Wiz Status: Copying new files	ard installs Centran 5.4.0.4300 (64-b	it).	
		Back Nex	ct Cancel	
The installation Complete screen	is then displayed indicating the	at the CenTran 5 service has be	een successfully installed	1.
	dormakaba	Completed the Centran State (64-bit) Setup Wizard	– □ × 5.4.0.4300	
		Click the Finish button to exit the Se	etup Wizard.	
		Back Fin	ish Cancel	
Click Finish to complete the inst	allation process.			

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# **ODBC Connection Creation for SQL Server**

# **CenTran Version 5 Getting Started Guide**

#### Note

ODBC (Open Database Connectivity) is a standard C interface for accessing database management systems (DBMS). The designers of ODBC aimed to make it independent of database systems and operating systems. An application can use ODBC to query data from a DBMS, regardless of the operating system or DBMS it uses.

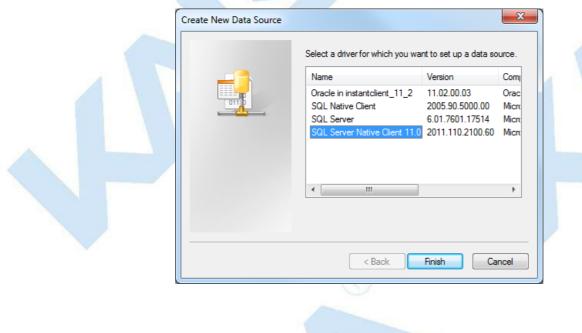
ODBC accomplishes DBMS independence by using an ODBC driver as a translation layer between the application and the DBMS. The application uses ODBC functions through an ODBC driver manager with which it is linked, and the driver passes the query to the DBMS.

1. Go to Control Panel/Administration Tools/Data Sources.

# 2. Select the System DSN tab and click Add.

ODBC Data Source Administrato	or
User DSN System DSN File DSN	Drivers Tracing Connection Pooling About
System Data Sources:	
Name	Driver Add
EngTestSrv24GB Cencon EngTestSrv24GB Test EngTestSrv24GB Test SQL Auth EngTestSrv24GB Test2 EngTestSrv24GB TestData4 EngTestSrv24GB TestData6 EngTestSrv24GB TestData6 SQL	SQL Server Native Client SQL Server Native Client SQL Server Native Client
	source stores information about how to connect to der. A System data source is visible to all users ng NT services.
ОК	Cancel Apply Help

3. Select the driver and click Finish.



4. Type a name and type or use the drop down to select the server and instance.

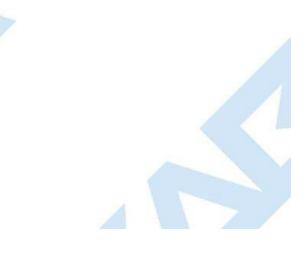
5. Click Next.

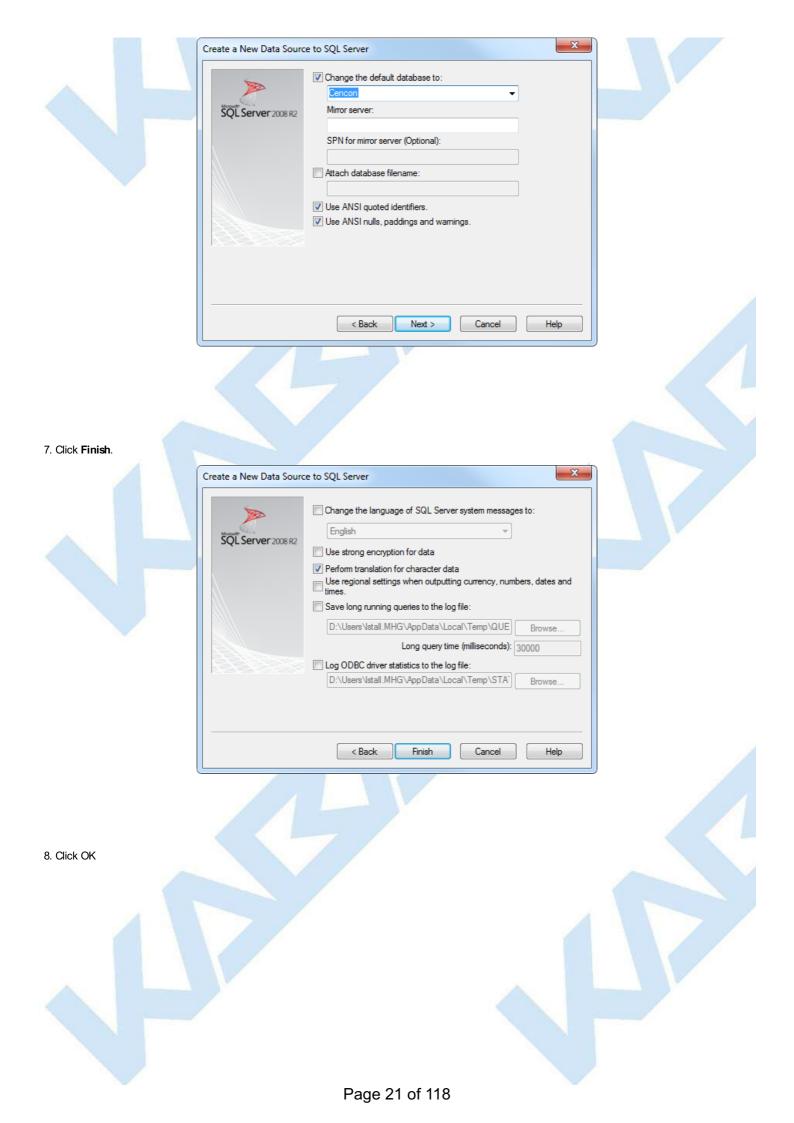
	Create a New Data Source	This wizard will help you create an ODBC data source that you can use to connect to SQL Server. What name do you want to use to refer to the data source? Name: engtestsrv24gb Test3	
		How do you want to describe the data source? Description: Which SQL Server do you want to connect to? Server: engtestsrv24gb	
		Finish Next > Cancel Help	
· · · · · · · · · · · · · · · · · · ·		R	

# 6. Select SQL Server Authentication, and enter your SQL user name and password. Click Next.

Create a New Data Sourc	e to SQL Server	
8	How should SQL Server verify the authenticity of the login ID?	
SQL Server 2008 R2	With Integrated Windows authentication. SPN (Optional):	
	<ul> <li>With SQL Server authentication using a login ID and password entered by the user.</li> </ul>	
	Login ID: Centran User	
	Password: ••••••  Connect to SQL Server to obtain default settings for the additional configuration options.	
	< Back Next > Cancel Help	

6. Make sure the database schema containing the Cencon database set set as default. Click Next.





ODBC Microsoft SQL Server Setup	
A new ODBC data source will be created with the following configuration:	
Microsoft SQL Server Native Client Version 10.50.2500 Data Source Name: engtestsrv24gb Test3 Data Source Description: Server: engtestsrv24gb Use Integrated Security: No Database: Cencon Language: (Default) Data Encryption: No Trust Server Certificate: No Multiple Active Result Sets(MARS): No Mirror Server: Translate Character Data: Yes Log Long Running Queries: No Log Driver Statistics: No Use Regional Settings: No Use ANSI Quoted Identifiers: Yes Use ANSI Null, Paddings and Warnings: Yes Test Data Source OK Cancel	
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Document Number 2101.0513 Rev. G 08/17 CenTran® 5 Getting Started Guide	

# Configure the CenTran Service

# **CenTran Version 5 Getting Started Guide**

The CenTran service has some settings that are manually set in the CenTran service configuration file. This file is named **Centran.exe.config**. Depending on your system settings, the file extension may be hidden.

You can edit the **Centran.exe.config** file by double clicking on it, and a default editor will be opened. You can also edit it with the Notepad application. The file is an XML formatted text file.

The **Centran.exe.config** file contains various configuration settings. If you change settings in the CenTran service configuration file, you will need to restart the CenTran service for the settings to take effect.

There are example **Centran.exe.config** files installed with CenTran. These are contained in the **Configuration Files** directory installed within the application directory. There is one example file for using Windows authentication with the CenTran web service and one example file for using user ID / password authentication with the CenTran web service.

To use one of the example **Centran.exe.config** files, copy the file to the CenTran application directory. Any changes to the **Centran.exe.config** file must be made before starting the CenTran service. If you make changes to the **Centran.exe.config** file while the CenTran service is already running, the changes will not be read until next time the CenTran service is started.

# Warning

When the CenTran service is upgraded from a previous version, the previous configuration file is retained from the previous installation. If new CenTran endpoints or communications methods have been added that the old configuration file does not have support for, those endpoints or communications methods will not be available with the old configuration file.

If new CenTran endpoints or communications methods from an upgrade need to be used, then you will need to replace the previous configuration file with one of the example configuration files and re-set up your CenTran settings.

You may want to retain a copy of your previous configuration file in a different location, to compare to the new settings you apply to CenTran.

# appSettings Section

These settings are specific to the CenTran service. Some of these settings are configured manually. A link to an overview of these settings is provided below.

# system.serviceModel Section Group

These settings are related to the web service communications provided by CenTran. These entries are defined by the Microsoft Windows Communication Foundation. Detailed information about how these settings are used is beyond the scope of this manual. You can look up Microsoft Windows Communication Foundation documentation for more information. Additional documentation is available at: <u>Windows Communication Foundation Configuration Schema</u>

Links to overviews of these settings is provided below.

# **Configuration File Section Descriptions:**

The following sections can be edited within the CenTran configuration file:

- <u>Configuration File system.serviceModel / bindings Section</u>
- <u>Configuration File system.serviceModel / services Section</u>
- <u>Configuration File system.serviceModel / behaviors Section</u>

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# Configuration File - system.serviceModel / bindings Section

# CenTran Version 5 Getting Started Guide

The **bindings** section is part of the system.serviceModel section group used to configure Windows Communication Foundation (WCF) settings. This section defines the various communications settings to be used by the web service endpoints provided by CenTran. The following is a brief overview of this section.

#### • webHttpBinding:

This subsection contains settings for REST model of web service communications. Each **binding** listed within this section defines how a web service endpoint does it's communications across HTTP or HTTPS, using standard HTTP GET and POST operations.

This type of web service communications is easily accessed from web browsers and web sites. It does not have the flexibility of operations that SOAP web service communications has.

The security section under each binding defines the type of encryption and user authentication to be used with the web service endpoint.

#### • wsHttpBinding:

This subsection contains settings for SOAP web service communications. Each **binding** listed within this section defines how a web service endpoint does it's communications using SOAP (Simple Object Access Protocol).

This type of web service communications is not easily accessible from web browsers and web sites. However, it has a much greater degree of flexibility and possible options than REST web service communications. An example of these options provided by SOAP is WS-ReliableMessaging, which allows support for handling network failures.

The security section under each binding defines the type of encryption and user authentication to be used with the web service endpoint.

There are many other types of web service communication bindings available. These two are given as defaults for use by CenTran, but others could potentially be used.

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# Configuration File - system.serviceModel / services Section

# CenTran Version 5 Getting Started Guide

The **services** section is part of the system.serviceModel section group used to configure Windows Communication Foundation (WCF) settings. It is used to define the specific web service endpoints provided by CenTran. The following is a brief overview of this section.

#### • service:

Each service section defines the web service endpoints provided for a service from CenTran. Within a service section is a set of endpoint entries. Each endpoint entry defines a web service URI and method of communications provided by CenTran.

# The service names can be one of the following:

## • Centran.CentranService

This is the main web service implemented by CenTran, using XML message formatting. Any access to operations of this web service contract must have some form of user authentication, otherwise access will be refused (except for the Version and Hello operations). The default behavior used with this web service is **centran\_service\_behavior** already defined in the example CenTran configuration files.

#### Centran.CentranServiceJSON

This is the main web service implemented by CenTran, using JSON message formatting. Any access to operations of this web service contract must have some form of user authentication, otherwise access will be refused (except for the Version and Hello operations). The default behavior used with this web service is **centran\_service\_json\_behavior** already defined in the example CenTran configuration files.

#### • Centran.CentranFeedsService

This is the RSS feeds web service implemented by CenTran. The operations provided by this web service contract are intended to support web RSS feeds to query alert information from CenTran. Encryption and user authentication are not needed for this web service contract. Encryption is recommended, however. The default behavior used with this web service is **centran\_feeds\_service\_behavior** already defined in the example CenTran configuration files.

#### • Centran.CentranAgentService

This is the web service for operations supporting the CenTran Agent Service running on ATM console systems for remote access to Cencon locks. The operations provided by this web service contract are used to update status of locks in response to lock events detected by the CenTran Agent Service. Encryption and user authentication are not needed for this web service contract. Encryption is recommended, however. The default behavior used with this web service is **centran\_agent\_service\_behavior** already defined in the example CenTran configuration files.

Each endpoint entry has the following items that it defines:

#### • address

This is the address or URI that is provided by the web service. It can specify localhost to default to the current host server base address or can define a different address. This can also be used to define a different TCP port for the address.

#### • binding

This is the type of binding used to define the communications used for the web service endpoint. The defaults for CenTran are **webHttpBinding** or **wsHttpBinding**.

#### bindingConfiguration

This is the specific configuration of binding that is being used by the web service endpoint. This name must match one of the names defined from the matching **binding** section. This is used to define the encryption and user authentication used for the web service endpoint.

#### • contract

This is the name of the web service contract implementation calls within CenTran that is to be made accessable through the web service endpoint. The contracts that CenTran provides can be one of the following:

#### Centran.ICentran

This is the main web service contract implemented by CenTran for XML formatted data. It defines access to the Centran.CentranService web service.

## Centran.ICentranJSON

This is the main web service contract implemented by CenTran for JSON formatted data. It defines access to the Centran.CentranServiceJSON web service.

### Centran.ICentranFeeds

This is the RSS feeds web service contract implemented by CenTran. It defines access to the Centran.CentranFeedsService web service.

#### Centran.ICentranAgent

This is the web service contract for operations supporting the CenTran Agent Service running on ATM console systems for remote access to Cencon locks. It defines access to the Centran.CentranAgentService web service.

#### • behaviorConfiguration

This specifies what additional settings are to be used by the web service endpoint. These additional settings are defined by **behavior** entries under the **behaviors / endpointBehaviors** section. Default settings for endpoint behaviors are already defined in the example CenTran configuration files.

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# Configuration File - system.serviceModel / behaviors Section

# CenTran Version 5 Getting Started Guide

The **behaviors** section is part of the system.serviceModel section group used to configure Windows Communication Foundation (WCF) settings. It is used to define additional settings for the web service endpoints provided by CenTran.

The following is a brief overview of this section.

endpointBehaviors

This section defines endpoint behaviors used by the web service endpoints. This includes if help support is to be generated for a specific endpoint.

# • serviceBehaviors

This section defines the web service behaviors for each web service provided by CenTran. This includes what certificate is used for encryption with a web service provided by CenTran, under the **serviceCredentials** section. The **serviceCredentials** section has two entries:

# • serviceCertificate

- This section defines what certificate is used by the web service for communications encryption. It is composed of the following entries:
  - findValue

This is the unique value used to find the certificate in the indicated certificate store. The way this value is used is determined by the **x509FindType** that is set. In the case of **FindByThumbprint**, this value will be composed of a unique hexadecimal thumbprint value associated with the desired certificate.

# storeLocation

This specifies if the certificate is stored associated with the current user account or with a system account. For the CenTran service to access the certificate, this must be set to **LocalMachine** to indicate a system account.

# storeName

This specifies the store name that the certificate is in. For the CenTran service, this must be My to indicate the certificate store for personal certificates.

#### x509FindType

This indicates how the certificate is to be uniquely identifies, based off of various values associated with the certificate. The recommended default is **FindByThumbprint**.

The CenTran Configuration Manager has support for creating self signed certificates for use by the CenTran service. You can also use a server certificate as provided by your network certificate authority server. Using a certificate as provided by your network certificate authority server is the preferrable way to set up your network security.

Whatever the source of your CenTran server certificate, you can specify the certificate within the configuration file manually, or you can set it using the CenTran Configuration Manager.

The CenTran server certificate must have a name matching the way you are going to address the CenTran web service. If it is by server name, then the certificate name must match the server name. If it is by IP address, then the certificate name must match the IP address.

#### • userNameAuthentication

This section defines the internal method of support for user names and passwords implemented by CenTran. The default settings for this entry should not be changed from what is provided with the example CenTran configuration files.

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# Set Up CenTran Server Certificates

# **CenTran 5 Getting Started Guide**

For a web service to make use of encryption or user authentication, it requires a server certificate to be configured for use by that web service. The operation and concepts behind certificates and the Transport Layer Security Protocol (TLS) are beyond the scope of this manual. The following is a link to describe some of these concepts:

# SSL/TLS Strong Encryption: An Introduction

Ideally, your organization will have a server configured to be a certificate authority for managing the security of communications on your network. If you do not have support for managing certificates on your network, you can set up a self signed certificate and distribute it manually to the systems that are going to be accessing the CenTran web service.

To assist with this process, the CenTran Configuration Manager has support for creating certificates and configuring them in the CenTran configuration file for you.

The CenTran Configuration Manager supports the creation of a self signed certificate authority (CA) certificate. It can then use this CA certificate to create a signed CenTran Web Service Server certificate. The CenTran Configuration Manager can then be used to update the CenTran configuration file with information describing the signed CenTran Web Service Server certificate.

Exported Agent Configuration and CA Certificate Files

When the CenTran configuration file is updated with a CenTran server certificate, the CenTran Configuration Managers exports three files to a directory named **AgentConfigurations** under the CenTran installation directory.

- A CenTran Agent configuration file, configured for a persistent connection to this CenTran server
- A Cencon Key Box Agent configuration file, configured for a persistent connection to this CenTran server
- A Certificate Authority certificate file, containing the public key certificate that issued the CenTran server's server certificate

The CenTran Agent configuration file and the certificate can be imported into an installation of the CenTran Agent Configuration Manager and used to configure agents.

To set up CenTran server certificates, select CenTran Configuration Manager from the CenTran entry under the Windows Start menu. Then select the Certificates tab. You should see the following:

Certificates	Certificates	
Service Security		
Service	Certificate Authority	
USB Keybox Setup	Selected Certificate Authority:	
Database Settings	Certificate Authority Name:	
Security Settings	Certificate Authority Organization	
Input / Output File Settings	Certificate Authority Title	
Centran Status	Certificate Authority Thumb Print:	
Web XML Service Settings		
- Web JSON Service Settings	Centran Web Service Server Certification	te
Web RSS Feed Settings	Selected Centran Certificate:	
Centran Agent Settings	Certificate Name:	
Centran Event Log	Certificate Organization:	
Agent Connections	Certificate Title:	
Agent connections	Certificate Thumb Print:	
	Update Certificates	la Muralf
		le Myself

Select Guide Me to be guided through the certificate installation process, or I'll Guide Myself to use the unguided process.

## Guided Certificate Installation

The guided certificate installation process takes the user through several common scenarios for installing a server certificate for the CenTran server.

Using An Already Installed Server Certificate

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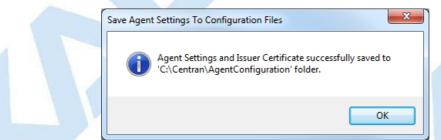
The first of these common scenarios involves using a certificate already created and installed on the server machine:

Yo	ur Web Service Server Certificate may already be installed
	ver certificate is used by the Centran server to secure communications with clients such as th tran Agent and third-party software. It remains on the Centran server.
Selected Centran Certificate:	10.108.6.150
Certificate Issuer:	T=Kaba Mas Lexington Test CA, O=Kaba Mas Lexington, CN=new_kml_test_authority
Certificate Name:	10.108.6.150
Certificate Organization:	Kaba Mas LLC
Certificate Title:	CenTran Server Cert
Certificate ThumbPrint:	639DDF4050EA8C46851B153AB2D7D558EF296EFA

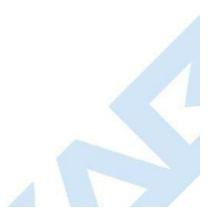
The pull-down menu is populated with server certificates installed on the local machine that are named with the DNS name of the machine or an IP address assigned to the machine. As an item is selected in the list, the fields describing the certificate are filled in on the form. If the user selects an item and clicks **Use Selected Certificate**, the certificate will be installed in the configuration file for the CenTran Server, and a message will be displayed indicating the fact:

Sav	e Certifi	icate Selection To Centran Configuration	<b>.</b> X
	1	Certificate setting saved successfully.	
			ЭК

Click **OK** to close the prompt. Example CenTran Agent and Cencon Key Box Agent configuration files, along with the public key version of the CenTran server certificate, are now exported, and a message is displayed to indicate the fact:



Click OK to close the prompt. The server certificate for the CenTran server is now set up.



ertificates	Certificates		
Service Security			
Service		Certificate Authority	
USB Keybox Setup	Selected Certificate Authority:		
Database Settings	Certificate Authority Name:	new_kml_test_authority	
Security Settings	Certificate Authority Organization	Kaba Mas Lexington	
Input / Output File Settings	Certificate Authority Title	Kaba Mas Lexington Test CA	
Centran Status	Certificate Authority Thumb Print:	601F6D2D476E97B64B87D3CB213E8ADCC701029A	
Web XML Service Settings			
Web JSON Service Settings		entran Web Service Server Certificate	
Web RSS Feed Settings	Selected Centran Certificate:		
Centran Agent Settings	Certificate Name:	10.108.6.150	
Centran Event Log	- Certificate Organization: - Certificate Title:	Kaba Mas LLC CenTran Server Cert	
Agent Connections	Certificate Title:		
	. Certificate I numb Print:	639DDF4050EA8C46851B153AB2D7D558EF296EFA	
		Update Certificates	
		·	
	Guid	e Me I'll Guide Myself	

# Using A Server Certificate Provided In A File

The second common scenario involves the use of a server certificate which has been provided in a certificate file.

	🖳 Guided Certificate Installatio	
	The Centran web service serv	ur Web Service Server Certificate may already be installed ver certificate is used by the Centran server to secure communications with clients such as the tran Agent and third-party software. It remains on the Centran server.
	Selected Centran Certificate:	10.108.6.150
	Certificate Issuer:	T=Kaba Mas Lexington Test CA, O=Kaba Mas Lexington, CN=new_kml_test_authority
	Certificate Name:	10.108.6.150
	Certificate Organization:	Kaba Mas LLC
	Certificate Title:	CenTran Server Cert
	Certificate ThumbPrint:	639DDF4050EA8C46851B153AB2D7D558EF296EFA
	Use	e Selected Certificate Install Another Certificate
In this case, the user s	selects Install Another Certific	cate instead of selecting and using an already installed certificate. A message is displayed:
	Guided Cer	rtificate Installation
		Have you been given a file with a server certificate to install?

Yes

<u>N</u>o

Click Yes to be prompted for the location of the file containing the certificate. This file should be a Personal Information Exchange file with an extension of pfx:

)rganize 🔻 🛛 New fold	ler			i 🔹 🗔 🔞
Favorites	Documents library Certificates		Arrange	by: Folder 🔻
🚺 Downloads	Name	Date modified	Туре	Size
ConeDrive Recent Places	😼 10_108_6_150.pfx	7/26/2017 10:42 AM	Personal Informati	6 KB
🖥 Libraries				
Documents				
J Music				
Pictures				
Subversion				
🛃 Videos				
🖳 Computer 🗸 🔻				

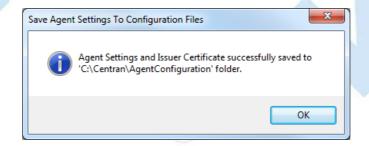
Navigate to the directory containing the file using the Open File dialog, select the file, and click **Open**. Because this file contains the private key with which the server secures communications, it will be protected by a password, for which a password prompt will be displayed:

🖳 Enter String Value	
Enter Certificate Pri	vate Key Password:
ОК	Cancel

Enter the password and click **OK**. The certificate in the file will be installed on the system and the the CenTran server configuration will updated to use it. A message will be displayed indicating the fact:



Click **OK** to close the prompt. Example CenTran Agent and Cencon Key Box Agent configuration files, along with the public key version of the CenTran server certificate, are now exported, and a message is displayed to indicate the fact:



Click OK to close the prompt. The server certificate for the CenTran server is now set up.





Certificates				
Consider Con		Certificates		
Service Secur	ity			
Service	Coltura -		Certificate Authority	
USB Keybox S		Selected Certificate Authority:	new lost test without	- 1
Database Set	-	Certificate Authority Name:	new_kml_test_authority Kaba Mas Lexington	-
Security Setti		Certificate Authority Organization	-	-
	ut File Settings	Certificate Authority Title Certificate Authority Thumb Print:	Kaba Mas Lexington Test CA 601F6D2D476E97B64B87D3CB213E8ADCC701029A	-
Centran Statu		Certificate Autionty Humb Find.	0011002047013700400703C021310000CC701023A	
	rvice Settings	c	entran Web Service Server Certificate	
·	ervice Settings	Selected Centran Certificate:		
Web RSS Fee	-	Certificate Name:	10.108.6.150	
Centran Ager	_	Certificate Organization:	Kaba Mas LLC	
Centran Even	-	Certificate Title:	CenTran Server Cert	
Agent Conne	ctions	Certificate Thumb Print:	639DDF4050EA8C46851B153AB2D7D558EF296EFA	
ng A Server C	ertificate			
Another Certi	enario for install <b>ficate</b> in the ex	ing the CenTran server certificate involution in the central server certificate dialog:	ves creating a new, self-signed certificate. This option is provided if the	ne user s
Another Certi	ficate in the ex	ing the CenTran server certificate invol- tisting server certificate dialog: rtificate Installation	ves creating a new, self-signed certificate. This option is provided if th	ne user s
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Another Certi	Ficate in the ex	risting server certificate dialog: rtificate Installation Your Web Service Server ran web service server certificate is used by the	Certificate may already be installed	ne user s
Another Certi	Ficate in the ex	rtificate Installation Your Web Service Server ran web service server certificate is used by the Centran Agent and third-party s Centran Certificate: 10.108.6.150	Certificate may already be installed	ne user s
Another Certi	Guided Ce The Cent Selected C	rtificate Installation Your Web Service Server ran web service server certificate is used by the Centran Agent and third-party s Centran Certificate: 10.108.6.150 Issuer: T=Kaba Mas Lexington T	Certificate may already be installed e Centran server to secure communications with clients such as the oftware. It remains on the Centran server.	ne user s
Another Certi	Ficate in the ex	itisting server certificate dialog: rtificate Installation Your Web Service Server ran web service server certificate is used by the Centran Agent and third-party s Centran Certificate: I0.108.6.150 Issuer: T=Kaba Mas Lexington T Name: I0.108.6.150 Organization: Kaba Mas LLC	Certificate may already be installed e Centran server to secure communications with clients such as the oftware. It remains on the Centran server.	ne user s
Another Certi	Ficate in the ex Guided Ce The Centr Selected C Certificate Certificate Certificate Certificate	Itisting server certificate dialog:         rtificate Installation         Your Web Service Server         ran web service server certificate is used by the Centran Agent and third-party s         Centran Certificate:       10.108.6.150         Issuer:       T=Kaba Mas Lexington T         Name:       10.108.6.150         Organization:       Kaba Mas LLC         Title:       CenTran Server Cert	Certificate may already be installed a Centran server to secure communications with clients such as the oftware. It remains on the Centran server. Test CA, O=Kaba Mas Lexington, CN=new_kml_test_authority	ne user s
Another Certi	Ficate in the ex Guided Ce The Centr Selected C Certificate Certificate Certificate Certificate	Itisting server certificate dialog:         rtificate Installation         Your Web Service Server         ran web service server certificate is used by the Centran Agent and third-party s         Centran Certificate:       10.108.6.150         Issuer:       T=Kaba Mas Lexington T         Name:       10.108.6.150         Organization:       Kaba Mas LLC         Title:       CenTran Server Cert	Certificate may already be installed e Centran server to secure communications with clients such as the oftware. It remains on the Centran server.	ne user s
Another Certi	Ficate in the ex Guided Ce The Centr Selected C Certificate Certificate Certificate Certificate	Itisting server certificate dialog:         rtificate Installation         Your Web Service Server         ran web service server certificate is used by the Centran Agent and third-party s         Centran Certificate:       10.108.6.150         Issuer:       T=Kaba Mas Lexington T         Name:       10.108.6.150         Organization:       Kaba Mas LLC         Title:       CenTran Server Cert	Certificate may already be installed a Centran server to secure communications with clients such as the oftware. It remains on the Centran server. Test CA, O=Kaba Mas Lexington, CN=new_kml_test_authority	ne user s
	ficate in the ex	itisting server certificate dialog:         rtificate Installation         Your Web Service Server         ran web service server certificate is used by the Centran Agent and third-party s         Centran Certificate:       10.108.6.150         Issuer:       T=Kaba Mas Lexington T         Name:       10.108.6.150         Organization:       Kaba Mas LLC         Title:       CenTran Server Cert         ThumbPrint:       639DDF4050EA8C4685*	Certificate may already be installed a Centran server to secure communications with clients such as the oftware. It remains on the Centran server. Fest CA, O=Kaba Mas Lexington, CN=new_kml_test_authority IB153AB2D7D558EF296EFA	ne user s
	ficate in the ex	itisting server certificate dialog:  rtificate Installation  Your Web Service Server ran web service server certificate is used by the Centran Agent and third-party s  Centran Certificate:  10.108.6.150  Issuer:  T=Kaba Mas Lexington T Name:  10.108.6.150  Organization: Kaba Mas LLC  Title: Cen Tran Server Cert  ThumbPrint: 639DDF4050EA8C4685  Use Selected Certificate  Is been provided in a file:	Certificate may already be installed a Centran server to secure communications with clients such as the oftware. It remains on the Centran server. Fest CA, O=Kaba Mas Lexington, CN=new_kml_test_authority IB153AB2D7D558EF296EFA	ne user s
	ficate in the ex	itisting server certificate dialog: rtificate Installation  Your Web Service Server ran web service server certificate is used by the Centran Agent and third-party s  Centran Certificate:  10.108.6.150  Issuer:  T=Kaba Mas Lexington T Name:  10.108.6.150  Organization: Kaba Mas LLC  Title: CenTran Server Cert  ThumbPrint: 639DDF4050EA8C4685  Use Selected Certificate  Is been provided in a file:  Guided Certificate Installation	Certificate may already be installed a Centran server to secure communications with clients such as the oftware. It remains on the Centran server. Fest CA, O=Kaba Mas Lexington, CN=new_kml_test_authority IB153AB2D7D558EF296EFA	ne user s

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Before a server certificate can be created, a Certificate Authority certificate must exist. A prompt is provided to check whether a Certificate Authority certificate already exists:

This is the certificate that is us	In Certificate Authority Certificate may already be installed sed in the creation of the Centran server certificate. It is also the certificate that will be installed ing the Centran Agent or third-party software to secure communications with Centran.	
Selected Centran Certificate: Certificate Issuer: Certificate Name: Certificate Organization: Certificate Title: Certificate ThumbPrint:	new_kml_test_authority <ul> <li>T=Kaba Mas Lexington Test CA, O=Kaba Mas Lexington, CN=new_kml_test_authority</li> <li>new_kml_test_authority</li> <li>Kaba Mas Lexington</li> <li>Kaba Mas Lexington Test CA</li> <li>601F6D2D476E97B64B87D3CB213E8ADCC701029A</li> </ul> <ul> <li>Eselected Certificate</li> <li>Install Another Certificate</li> </ul> <ul> <li>Install Another Certificate</li> </ul>	

All of the Certificate Authority certificates on the local machine that can be used to create certificates are listed. If one is selected and **Use Selected Certificate** is clicked, a dialog for entering the information needed to create the server certificate is displayed, with the Certificate Authority certificate's information filled in:

🖳 Self Signed Certificate Creation		
Self Si	gned Certificate Creation	
Certif	ficate Authority Information:	
Certificate Authority Name:	new_kml_test_authority	
Certificate Authority Organization:	Kaba Mas Lexington	
Certificate Authority Title:	Kaba Mas Lexington Test CA	
Sen	ver Certificate Information:	
	ne is a unique name identifying your Centran your computer's name or IP address.	
Server Certificate Name:	eng-jurs-w7.ddc.mydorma.com 🔹	
Server Certificate Organization:		
Server Certificate Title:		
Create Certificate	e Cancel	

If, instead, **Install Another Certificate** is clicked, the dialog for entering the information needed to create the server certificate is displayed, with no Certificate Authority certificate's information filled in. In this case, the user must enter information for both a new Certificate Authority certificate and a new Certificate certificate:

Self Signed Certificate Creation Certificate Authority Information:	
The Certificate Authority Name is the unique name identifying this certificate, which will be used to sign and validate your Centran server certificate.	
Certificate Authority Name:	
Certificate Authority Organization:	
Certificate Authority Title:	
Server Certificate Information: Server Certificate Name: eng-jurs-w7.ddc.mydorma.com	
Server Certificate Organization:	
Server Certificate Title:	
Create Certificate Cancel	

Note that descriptive text is displayed above each field while it is being filled in. Also, the certificate name field for the CenTran server certificate must be a valid name or IP address for the CenTran server machine, so that field is a pull-down menu containing only those values.

Self Si	gned Certificate Creation
Certif	icate Authority Information:
Certificate Authority Name:	new_kml_test_authority
Certificate Authority Organization:	Kaba Mas Lexington
Certificate Authority Title:	Kaba Mas Lexington Test CA
	Kaba Mas LLC : is an additional field identifying this Centran server certificate.
Server Certificate Title:	CenTran Server Cert
Create Certificate	e Cancel
Create Certificate	e Cancel

Fill in the fields with the appropriate values and Click Create Certificate. A message will be displayed indicating success. (If the Certificate Authority was also created, a message for that will also be displayed.)



Click OK to close the prompt(s). The CenTran configuration will be updated with the new server certificate, and a message will be displayed indicating the fact:

Save Certificate Selection To Centran Configuration	
Certificate setting saved successfully.	
ОК	

Click **OK** to close the prompt. Example CenTran Agent and Cencon Key Box Agent configuration files, along with the public key version of the CenTran server certificate, are now exported, and a message is displayed to indicate the fact:

ſ	Save Agent Settings To Configuration Files
	Agent Settings and Issuer Certificate successfully saved to 'C:\Centran\AgentConfiguration' folder.
	ок

Click **OK** to close the prompt. The server certificate for the CenTran server is now set up.

Certificates	Certificates		
Service Security			
Service		Certificate Authority	
USB Keybox Setup	Selected Certificate Authority:		
Database Settings	Certificate Authority Name:	new_kml_test_authority	
Security Settings	Certificate Authority Organization	Kaba Mas Lexington	
Input / Output File Settings	Certificate Authority Title	Kaba Mas Lexington Test CA	
Centran Status	Certificate Authority Thumb Print:	601F6D2D476E97B64B87D3CB213E8ADCC701029A	
Web XML Service Settings			
Web JSON Service Settings	c	entran Web Service Server Certificate	
Web RSS Feed Settings	Selected Centran Certificate:		
Centran Agent Settings	- Certificate Name:	10.108.6.150	
Centran Event Log	- Certificate Organization:	Kaba Mas LLC	
Agent Connections	Certificate Title:	CenTran Server Cert	
	Certificate Thumb Print:	639DDF4050EA8C46851B153AB2D7D558EF296EFA	
		Update Certificates	
	Guid	e Me I'll Guide Myself	

Self-Guided Certificate Installation

This dialog allows the user to work more freely with certificates. For example, from this dialog it is possible to create server certificates to be used on other machines.

	Certificate Authority
Selected Certificate Aut	hority:
Certificate Authority Nar	ne:
Certificate Authority Org	anization
Certificate Authority Title	
Certificate Authority Thu	umb Print:
Create(	Certificate Authority Self Signed Certificate Export Public Key
	Centran Web Service Server Certificate
Selected Centran Certifi	
Selected Centran Certifi Certificate Name:	
	cate:
Certificate Name:	cate:
Certificate Name: Certificate Organization:	cate:
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	cate:
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	cate:
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	cate:
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	cate:

You can select an existing certificate authority certificate to sign with, or create a new one.

To use an existing CA certificate select any certificate in the local machine root authority store that you have a private key for from the dropdown menu labeled **Selected Certificate Authority**.

To create a new CA certificate complete the Certificate Authority Name, Certificate Authority Organization and Certificate Authority Title fields with the desired data and select Create Certificate Authority Self Signed Certificate.

A new certificate authority (CA) certificate will be created. The **Selected Certificate Authority** pulldown and the **Certificate Authority Thumb Print** fields will be filled in. The new CA certificate will also be placed in the local machine trusted root certification authorities store.

Self Signed Certificates		
	Certificate Authority	
Selected Certificate Authority:	new_kml_test_authority	
Certificate Authority Name:	new_kml_test_authority	
Certificate Authority Organization	Kaba Mas Lexington	
Certificate Authority Title	Kaba Mas Lexington Test CA	
Certificate Authority Thumb Print:	601F6D2D476E97B64B87D3CB213E8ADCC701029A	
Create Certificate	e Authority Self Signed Certificate Export Public Key	
	Contron Web Sonvice Service Contificate	
Selected Centres Codificates	Centran Web Service Server Certificate	
Selected Centran Certificate:	Centran Web Service Server Certificate	
Certificate Name:	Centran Web Service Server Certificate	
Certificate Name: Certificate Organization:	Centran Web Service Server Certificate	
Certificate Name: Certificate Organization: Certificate Title:	Centran Web Service Server Certificate	
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:		
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	Centran Web Service Server Certificate	
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	Centran Web Service Certificate Export Public Key	
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:		

An existing signed certificate can be used as the CenTran Web Service Server Certificate or a new signed certificate can be created using the selected certificate authority (CA) certificate.

To use an existing signed CenTran Web Service Server Certificate select from the **Selected CenTran Certificate** pulldown the desired certificate. All fields, including those in the **Certificate Authority** section, will be completed with the appropriate data for the selected certificate.

To create a new signed CenTran Web Service Server Certificate first enter the name you will use to access CenTran in the Certificate Name field.

Im	portant	Noto -	CenTran	Sonior	Notwork	Addrage
	JUITAIL		German	Jerver	NELWUIN	Auuress

It is very important that this name matches how you are going to address CenTran in a browser. If this is by server name, then the server name needs to be the name of the certificate. If it is by IP address, then the IP address needs to be the name of the certificate.

If you are accessing the CenTran web service on a company intranet using Windows Active Directory and a Domain Name Server (DNS), it is recommended to use the fully qualified server name for the certificate. This will look like the following: computername.domainname.local

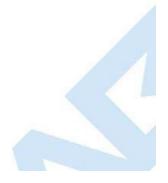
If you are accessing the CenTran web service on a company intranet using Windows Active Directory and a Domain Name Server (DNS) and you do not use the fully qualified computer name, then your proxy server may block network access.

You can find the CenTran server full computer name under the Windows computer properties dialog. This can be accessed by right clicking on **Computer** in the Start Menu or File Explorer and selecting **Properties** from the context menu.

Control Panel Home	0
	View basic information about your computer
🛞 Device Manager	Windows edition
🛞 Remote settings	Windows 7 Enterprise
🛞 System protection	Copyright © 2009 Microsoft Corporation. All rights reserved.
Advanced system settings	Service Pack 1
	System
	Rating: System rating is not available
	Processor: Intel(R) Xeon(R) CPU E5-2687W 0 @ 3.10GHz 3.10 GHz
	Installed memory (RAM): 32.0 GB
	System type: 64-bit Operating System Pen and Touch: No Pen or Touch Input is available for this Display
	Computer name, domain, and workgroup settings
	Computer name:   Computer name:  Computer name
	Full computer name: Computername.domainname.local
	Computer description:
	Domain:
See also	
Action Center	Windows activation
Windows Update	Windows is activated
Performance Information and	Product ID: Change product key Gittorosoft software
Tools	Learn more online
an web service. For IPv4 this will lool	an web service on a network without a Domain Name Server, then you will use the IP address of the k like the following: <mark>192.168.0.111</mark> s by opening a command prompt and entering the following command: ipconfig
or IPv4 Address in the text returned f	or the CenTran server address.
	ice exposed to the internet, then the security certificate used and the name of the certificate will be the T department for the proper certificate configuration in this case.

Default Port	Usage	Setting Location
80	Web Service HTTP	Configuration File: <system.servicemodel><services><service><endpoint> address property</endpoint></service></services></system.servicemodel>
443	Web Service HTTPS	Configuration File: <system.servicemodel><services><service><endpoint> address property</endpoint></service></services></system.servicemodel>
53004	Centran Agent Persistent Connections	Configuration File: <appsettings><add> key="PersistentAgentConnectionsPort" value="port number"</add></appsettings>

Enter the organization name and title as desired, and select Create / Update CenTran Web Service Cerficate. The certificate will be created, and selected in the dropdown menu labeled Selected CenTran Certificate.



	Certificate Authority
Selected Certificate Authority:	new_kml_test_authority -
Certificate Authority Name:	new_kml_test_authority
Certificate Authority Organization	Kaba Mas Lexington
Certificate Authority Title	Kaba Mas Lexington Test CA
Certificate Authority Thumb Print:	601F6D2D476E97B64B87D3CB213E8ADCC701029A
Create Certificat	te Authority Self Signed Certificate Export Public Key
Selected Centran Certificate:	10.108.6.150
Certificate Name:	10.108.6.150
Certificate Name:	10.100.0.130
Certificate Name: Certificate Organization:	Kaba Mas LLC
Certificate Organization:	Kaba Mas LLC
Certificate Organization: Certificate Title: Certificate Thumb Print:	Kaba Mas LLC Cen Tran Server Cert
Certificate Organization: Certificate Title: Certificate Thumb Print:	Kaba Mas LLC Cen Tran Server Cert 639DDF4050EA8C46851B153AB2D7D558EF296EFA
Certificate Organization: Certificate Title: Certificate Thumb Print:	Kaba Mas LLC         Cen Tran Server Cett         639DDF4050EA8C46851B153AB2D7D558EF296EFA         e Centran Web Service Certificate         Export Public Key

Lastly, you can have the CenTran Configuration Manager set up the selected certificate in the CenTran configuration file. Select the **Save Certificate** Selection To CenTran Configuration File. This will update the CenTran configuration file with information for your selected server certificate.

Any systems that are required to trust the CenTran web service through browser access will need to have the selected certificate authority (CA) certificate (not including private key) imported into the systems' local computer trusted root certification authorities store. A set of example steps of one method for accomplishing this on Windows 7 is as follows:

You can export the public keys for the CenTran certificates to certificate files (.cer) using the CenTran Configuration Manager:

elf Signed Certificates		
	Certificate Authority	
Selected Certificate Authority:	new_kml_test_authority	
Certificate Authority Name:	new_kml_test_authority	
Certificate Authority Organization	Kaba Mas Lexington	
Certificate Authority Title	Kaba Mas Lexington Test CA	
Certificate Authority Thumb Print:	601F6D2D476E97B64B87D3CB213E8ADCC701029A	
	Centran Web Service Server Certificate	
Selected Centran Certificate:	Centran Web Service Server Certificate 10.108.6.150	
Selected Centran Certificate: Certificate Name:		
	10.108.6.150	
Certificate Name:	10.108.6.150     ▼       10.108.6.150	
Certificate Name: Certificate Organization:	10.108.6.150 10.108.6.150 Kaba Mas LLC	
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	10.108.6.150         ▼           10.108.6.150            Kaba Mas LLC            Cen Tran Server Cert	
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	10.108.6.150       ▼         10.108.6.150       ■         Kaba Mas LLC       ■         Cen Tran Server Cert       ■         639DDF4050EA8C46851B153AB2D7D558EF296EFA       ■	
Certificate Name: Certificate Organization: Certificate Title: Certificate Thumb Print:	10.108.6.150         10.108.6.150         Kaba Mas LLC         Cen Tran Server Cert         639DDF4050EA8C46851B153AB2D7D558EF296EFA         e Centran Web Service Certificate         Export Public Key	

#### Note

You can also manually export the CenTran certificates using the Microsoft Management Console:

Export the selected certificate authority (CA) certificate:

- 1. Open Microsoft Management Console (Start -> Run -> mmc.exe).
- Choose File -> Add/Remove Snap-in.
   Choose the Certificates snap-in, and click Add.
- In the vitzerd, choose the Computer Account, and then choose Local Computer.
   Press Finish followed by OK to end the wizard.
   Navigate to Certificates (Local Computer).
   Select Trusted Root Certification Authorities.

- 8. Expand Certificates.
- 9. Right click the CA certificate specified in CenTran Configuration Manager.
- 10. Select All Tasks --> Export and follow the prompts; Do NOT export the private key; Record the specified target file name.

#### Note

To import the selected certificate authority (CA) certificates to a system that needs to trust the CenTran Web Services:

- Logon to the system that is to trust the CenTran Web Services.
   Copy the file containing the exported CA certificate onto this system.
   Open Microsoft Management Console (Start -> Run -> mmc.exe).
   Choose File -> Add/Remove Snap-in.
- 5. Choose the Certificates snap-in, and click Add.
- In the wizard, choose the Computer Account, and then choose Local Computer.
   Press Finish followed by OK to end the wizard.

- Navigate to Certificates (Local Computer).
   Right click Trusted Root Certification Authorities.
   Select All Tasks -> Import and follow the prompts; Provide the name of the file containing the exported CA certificate.



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## Set Up CenTran Management Security

### **CenTran 5 Getting Started Guide**

The CenTran Management Security Settings tab provides control over various security related attributes of the CenTran web services.

To modify these attributes select **CenTran Configuration Manager** from the CenTran entry under the Windows Start menu and click on the **Service Security** tab to access this tab page:

Service Security       Authentication Method         Service       Type of Authentication to use for Centran Web Services         Use Keybox Setup       Use Windows Authentication         Database Settings       Use Cencon User ID and Password         Security Settings       Centran Management Web Access         Input / Output File Settings       Centran Management Web Access         Web XML Service Settings       Centran Agent Service Security         Web XSS Feed Settings       Centran Agent Service Security         Web RSS Feed Settings       Centran Agent Service Communications         © Both HTIP and HTIPS should be available       Only HTIPS should be available         © Only HTIPS should be available       Only HTIPS should be available         Only HTIPS should be available       Discard Changes         Changes and Discard Changes buttons will be enabled when any data on this tab is changed.       Ne Save Changes button will set the tab data to the CenTran configuration file.         the Discard Changes button will set the tab data to the values currently in the CenTran configuration file.       The Save Changes button will set the tab data to the values currently in the CenTran configuration file.	Certificates	Centran Manage	ement Security Settings	
USB Keybox Setup       Use Windows Authentication         Database Settings       Use Windows Authentication         Security Settings       Use Cencon User ID and Password         Security Settings       Centran Management Web Access         Credentals for using Centran Configuration Manager through Web Interface         User ID admin       Password         Web XML Service Settings       Centran Agent Service Security         Web JSON Service Settings       Centran Agent Service Security         Web JSON Service Settings       Both HTTP and HTTPS should be available         Centran Event Log       Both HTTP and HTTPS should be available         Agent Connections       Save Changes         Discard Changes buttons will be enabled when any data on this tab is changed.         ne Save Changes button will save the tab data to the CenTran configuration file.         ne Discard Changes button will save the tab data to the values currently in the CenTran configuration file.         the Save Changes button will save the tab data to the values currently in the CenTran configuration file.	Service Security			
USB Keybox Setup Database Settings Security Settings Input / Output File Settings Centran Management Web Access Credentials for using Centran Configuration Manager through Web Interface User ID admin Password Centran Agent Settings Centran Agent Service Settings Centran Agent Settings Centran Agen	Service	Authenticatio		
Database Settings <ul> <li>Use Cencon User ID and Password</li> </ul> Security Settings              Centran Management Web Access             Credentials for using Centran Configuration Manager through Web Interface             User ID             admin             Password          Web XML Service Settings              Centran Agent Service Security             Possword          Web XSD Service Settings              Centran Agent Service Security             Possword          Centran Event Log              Agent Connections          Agent Connections              Save Changes          Centages and Discard Changes buttons will be enabled when any data on this tab is changed.          ne Save Changes button will save the tab data to the VenTran configuration file.          me Discard Changes button will save the tab data to the values currently in the CenTran configuration file.          me Discard Changes button will set the tab data to the values currently in the CenTran configuration file.          me Discard Changes button or the Discard Changes button will disable both buttors.	USB Keybox Setup			
Security Settings       Centran Management Web Access         Input / Output File Settings       Credentials for using Centran Configuration Manager through Web Interface         Web XML Service Settings       admin         Web JSON Service Settings       Password         Web SSF Feed Settings       Centran Agent Service Security         Protocol for Centran Agent Service Communications       Input / Output File Settings         Centran Event Log       Both HTTP and HTTPS should be available         Agent Connections       Save Changes         Discard Changes       Discard Changes         Changes and Discard Changes buttons will be enabled when any data on this tab is changed.         ne Save Changes button will save the tab data to the VenTran configuration file.         ne Discard Changes button will set the tab data to the values currently in the CenTran configuration file.         there it be Save Changes button or the Discard Changes button will disable both buttons.	Database Settings	-	-	
Input / Output File Settings Centran Status Web XML Service Settings Web SSON Service Settings Web SSON Service Settings Centran Agent Service Security Protocol for Centran Agent Service Communications Both HTTP and HTTPS should be available Only HTTPS should be available Only HTTPS should be available Only HTTPS should be available Discard Changes Discard Changes Discard Changes button will save the tab data to the CenTran configuration file. te Discard Changes button will save the tab data to the values currently in the CenTran configuration file. the Discard Changes button will save the tab data to the values currently in the CenTran configuration file. The Discard Changes button will save the tab data to the values currently in the CenTran configuration file.	Security Settings	-	-	
Centran Status       User ID       admin         Web XML Service Settings       Password       Show         Web JSON Service Settings       Centran Agent Service Security       Protocol for Centran Agent Service Communications         Web JSON Service Settings       Both HTTP and HTTPS should be available       Only HTTPS should be available         Centran Agent Settings       Only HTTPS should be available       Only HTTPS should be available         Agent Connections       Save Changes       Discard Changes	Input / Output File Settings		-	
Web XML Service Settings       Password       Image: Settings       Centran Agent Service Security       Frotocol for Centran Agent Service Communications         Web RSS Feed Settings       Image: Both HTTP and HTTPS should be available       Image: Only HTTPS should be available       Image: Only HTTPS should be available         Centran Event Log       Agent Connections       Save Changes       Discard Changes         Centane Event Log       Save Changes       Discard Changes         Agent Connections       Save Changes       Discard Changes         Changes and Discard Changes buttons will be enabled when any data on this tab is changed.       Image: Save Changes button will save the tab data to the CenTran configuration file.         Ine Save Changes button will set the tab data to the values currently in the CenTran configuration file.       Image: Save Changes button will set the tab data to the values currently in the CenTran configuration file.		-	admin	
Web JSON Service Settings       Centran Agent Service Security         Web RSS Feed Settings       Protocol for Centran Agent Service Communications         Centran Agent Settings       Image: Settings         Centran Event Log       Only HTTPS should be available         Agent Connections       Save Changes         Discard Changes       Discard Changes         Centran Settings       Enter the Save Changes buttons will be enabled when any data on this tab is changed.         Images and Discard Changes buttons will be enabled when any data on this tab is changed.       Image: Save Changes button will save the tab data to the CenTran configuration file.         Images button will set the tab data to the values currently in the CenTran configuration file.       Images button or the Discard Changes button will disable both buttons.		-	******	Show
Web RSS Feed Settings       Protocol for Centran Agent Service Communications         Centran Agent Settings       Both HTTP and HTTPS should be available         Centran Event Log       Only HTTPS should be available         Agent Connections       Save Changes         Discard Changes       Discard Changes         Changes and Discard Changes buttons will be enabled when any data on this tab is changed.         Re Save Changes button will save the tab data to the CenTran configuration file.         the Discard Changes button will set the tab data to the values currently in the CenTran configuration file.         ther the Save Changes button or the Discard Changes button will disable both buttons.		_	t Carries Casurity	
Both HTTP and HTTPS should be available     Only HTTPS should be available     Only HTTPS should be available     Only HTTPS should be available     Discard Changes  Changes and Discard Changes buttons will be enabled when any data on this tab is changed.  Re Save Changes button will save the tab data to the CenTran configuration file.  Re Discard Changes button will set the tab data to the values currently in the CenTran configuration file.  It is a currently in the Cen		- Centran Agen		
Centran Event Log Agent Connections Save Changes Discard Changes Discard Changes Discard Changes buttons will be enabled when any data on this tab is changed. te Save Changes button will save the tab data to the CenTran configuration file. te Discard Changes button will set the tab data to the values currently in the CenTran configuration file. ther the Save Changes button or the Discard Changes button will disable both buttons.		-	Both HTTP and HTTPS should be available	
Agent Connections Save Changes Discard Changes Changes and Discard Changes buttons will be enabled when any data on this tab is changed. Re Save Changes button will save the tab data to the CenTran configuration file. Re Discard Changes button will set the tab data to the values currently in the CenTran configuration file. Re Discard Changes button will set the tab data to the values currently in the CenTran configuration file. Re Discard Changes button will set the tab data to the values currently in the CenTran configuration file. Re Discard Changes button or the Discard Changes button will disable both buttons.		-	Only HTTPS should be available	
Changes and Discard Changes buttons will be enabled when any data on this tab is changed. The Save Changes button will save the tab data to the CenTran configuration file. The Discard Changes button will set the tab data to the values currently in the CenTran configuration file. The Discard Changes button or the Discard Changes button will disable both buttons.		-		
The Save Changes button will save the tab data to the CenTran configuration file. The Discard Changes button will set the tab data to the values currently in the CenTran configuration file. The Save Changes button or the Discard Changes button will disable both buttons.				
lote	ne Save Changes button ne Discard Changes butt	will save the tab on will set the tab	data to the CenTran configuration file.	

#### Authentication Method

Select the authentication method of Windows Authentication or Cencon User ID and Password to use to access operations in the main CenTran web services

- Centran.CentranService which uses XML message formatting
- Centran.CentranServiceJSON which uses JSON message formatting

See CenTran Web Service Configuration for CenTran web service information.

When **Windows Authentication** is selected the CenTran service must be running on a computer that is a member of a Windows logon domain on which the Windows logon user ID to be used is authorized.

When Cencon User ID and Password is selected the user ID and password to be used must be in the Cencon database to which the CenTran service is

#### connected. The Cencon User ID must be of type dispatcher, supervisor or special supervisor.

### Valid Cencon User ID with invalid password in HTTP Credentials

If the Cencon User ID is specified with an incorrect password in 5 consecutive HTTP requests

• The Cencon User ID will be locked out from use in HTTP request credentials for 5 minutes. A message to that effect will be placed in the CenTran Event Log and in the Cencon Activity Log.

During the lockout period HTTP requests using this Cencon user ID in the credentials will return a result of "(403) Forbidden".

A user of type special supervisor can end the lockout prematurely via the "Disable User" attribute on the Cencon Client "Edit User" dialog "Access Control" tab

#### Invalid Cencon User ID in HTTP Credentials

Each HTTP request in which the credentials contain an invalid Cencon User ID will be rejected returning to the sender a result of "(403) Forbidden".

If an excessive number of HTTP requests with an invalid Cencon User ID are received a message will be recorded in the CenTran Event Log and the Cencon Activity Table (CENAUD) warning of a possible denial of service attack.

#### **CenTran Management Web Access**

Define the user name and password that must be provided when accessing the CenTran Configuration Manager via a web browser.

See Log on to CenTran Management in Configure the CenTran Service using Web Management Interface for more information on the access process.

The default user name is admin.

The default password is password.

Authentication		
	Type of Authentication to use for Centran Web Services	
	<ul> <li>Use Windows Authentication</li> <li>Use Cencon User ID and Password</li> </ul>	
Cartan Mara	-	
User ID	admin	
Password	******	Show
Centran Agent	Service Security	
-		
	Both HTTP and HTTPS should be available	
	Only HTTPS should be available	
	Save Changes Discard Changes	
6		
	User ID Password Centran Agent	Password  ******  Centran Agent Service Security  Protocol for Centran Agent Service Communications   Both HTTP and HTTPS should be available  Only HTTPS should be available

Click the Hide button to hide the password characters as they are typed.



Certificates Cent	tran Manag	ement Security Settings
Service Security		
Service Au	thenticatio	
USB Keybox Setup		Type of Authentication to use for Centran Web Services
Database Settings		<ul> <li>Use Windows Authentication</li> <li>Use Cencon User ID and Password</li> </ul>
Security Settings	ntran Mana	gement Web Access
Input / Output File Settings		Credentials for using Centran Configuration Manager through Web Interface
Centran Status	User ID	admin
Web XML Service Settings	Password	password Hide
Web JSON Service Settings	ntran Agen	t Service Security
Web RSS Feed Settings		Protocol for Centran Agent Service Communications
Centran Agent Settings		<ul> <li>Both HTTP and HTTPS should be available</li> <li>Only HTTPS should be available</li> </ul>
Centran Event Log		
Agent Connections		Save Changes Discard Changes

### CenTran Agent Service Security

Specify whether or not the CenTran Agent web service operations can be accessed using HTTP (hypertext transfer protocol) which is not encrypted, as well as with HTTPS (Hypertext Transfer Protocol Secure) which is encrypted.

Certificates	Centran Management Security Settings	
Service Security		
Service	Authentication Method	
USB Keybox Setup	Type of Authentication to use for Centran Web Services	
Database Settings	Use Windows Authentication	
	Use Cencon User ID and Password	
Security Settings	Centran Management Web Access	
Input / Output File Settings	Credentials for using Centran Configuration Manager through Web Interface	
Centran Status	User ID admin	
Web XML Service Settings	Password *******	Show
Web JSON Service Settings	Centran Agent Service Security	
Web RSS Feed Settings	Protocol for Centran Agent Service Communications	
Centran Agent Settings	Both HTTP and HTTPS should be available	
Centran Event Log	<ul> <li>Only HTTPS should be available</li> </ul>	
Agent Connections	Save Changes Discard Changes	

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## Set Up CenTran Diagnostics / Logging

### **CenTran 5 Getting Started Guide**

The Logging tab provides control over the output of Windows Communication Foundation (WCF) diagnostic ouput for tracing operations. This may be useful for diagnosing issues with communications with the CenTran web servce.

To modify these attributes select **CenTran Configuration Manager** from the CenTran entry under the Windows Start menu and click on the **Logging** tab to access this tab page:

	Logging			
Service Security				
Logging	Type of Logging	Source	Level	
Service	Production	System.ServiceModel	Warning	•
USB Keybox Setup	Reduced Diagnostic	Microsoft.IdentityModel	Off	•
Database Settings	<ul> <li>Full Diagnostic</li> </ul>	System.ServiceModel.MessageLogging	Off	•
Security Settings	🔘 Custom	System.Net	Off	•
Input / Output File Settings	🔿 None	System.Net.HttpListener	Off	•
Centran Status		System.Net.Sockets	Off	•
Web XML Service Settings		System.Net.Cache	Off	•
Web JSON Service Settings		Centran Internal	ActivityTracing	•
Web RSS Feed Settings				
		D1 1.01		
Centran Agent Settings	Save	Changes Discard Changes		
Centran Agent Settings Centran Event Log		Discard Changes		
	-	Discard Changes		
Centran Event Log	-	Discard Changes		
Centran Event Log		Discard Changes		
Centran Event Log	-	Discard Changes		
Centran Event Log	-	Discard Changes		
Centran Event Log	-	Discard Changes		
Centran Event Log	-	Discard Changes		
Centran Event Log	-	Discard Changes		
Centran Event Log		Discard Changes		

Clicking the Discard Changes button will set the tab data to the values currently in the CenTran configuration file.

Clicking either the Save Changes button or the Discard Changes button will disable both buttons.

### Note If changes are saved the CenTran service must be stopped and started for the changes to take effect.

#### Type of Logging

The radio buttons shown under Type of Logging allow for quick selection of pre-defined logging settings.

- Production: initial / default setting. Captures limited information for diagnostics in order to maintain performance.
- Reduced Diagnostic: Additional information is captured. May be useful in initial problem diagnosis.
- Full Diagnostic: Detailed information is captured. May be useful in diagnosis of more difficult issues.
- Custom: Detailed information for selected WCF components is captured. May be useful in diagnosis of more difficult issues. Selecting this radio button
  does not change the loggers that are enabled, nor the log levels. It is used to indicate that the enabled loggers or log levels do not match any of the
  other predefind settings.
- None: No information is captured. This setting disables the capturing of any WCF diagnostic information.

Any diagnostic information for WCF events is recorded in a file named WcfServiceTrace.svclog. This file will be created within the application directory in Page 46 of 118

which the CenTran service is installed. The file can be viewed using the Microsoft Service Trace Viewer (SvcTraceViewer.exe). Double clicking on the file will automatically open the file in the Microsoft Service Trace Viewer.

The Microsoft Service Trace Viewer is available as a free download within the Windows Platform SDK.

#### Logging Sources and Logging Levels

The logging sources indicate the various WCF components or modules for which diagnostic information can be recorded. The logging level indicates the types of events for which diagnostic information will be recorded. The Log Levels are:

- Off: No information for the associated source is captured.
- Critical: Captures unexpected processing conditions.
- Error: Captures severe error conditions.
- Warning: Captures error conditions.
- Information: Captures events that mark successful processing.
- Verbose: Captures detailed information concerning successful processing.
- ActivityTracing: Captures flow between components.
- All: Captures all events. This may degrade application performance.

As log levels change from "Off" to "All" the event information at all prior levels is also recorded. Example: at a log level of "Warning", events that would be recorded at either the "Critical" or "Error" levels are also recorded.

For more information about WCF logging, look at the documentation provided online by Microsoft.

See Appendix C - Troubleshooting: Check Run Time Error for more information on viewing the Windows Communication Foundation (WCF) Trace log.

#### Message Content Logging

Once logging is enabled for **System.ServiceModel.MessageLogging**, an option is provided to also record the contents of the messages. If the "Log content of messages" checkbox is checked, then the content of WCF messages will be recorded.

Source	Level
System.ServiceModel	Off
Microsoft.IdentityModel	Critical
System.ServiceModel.MessageLogging	Error
System.Net	Warning
System.Net.HttpListener	Information
System.Net.Sockets	Verbose
System.Net.Cache	ActivityTracing
Centran Internal	All
V L	og content of messa
	-
Save Changes Discard Changes	
	System.ServiceModel Microsoft.IdentityModel System.ServiceModel.MessageLogging System.Net System.Net.HttpListener System.Net.Sockets System.Net.Cache Centran Internal

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## Set Up CenTran Management Web Access

### **CenTran 5 Getting Started Guide**

The Service tab provides the ability to Install, Start, Stop and Uninstall the CenTran Servce. The Service tab also provides control over the URL endpoint for managing the CenTran Service over the network; as well as the ability to provide a localized (translated) web page for managing the CenTran Service.

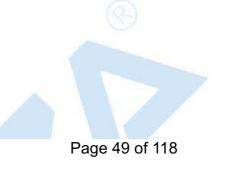
This tab provides the information for customizing the URL endpoint for accessing the CenTran Management via the web browser and localization of the web page presented in the browser when access CenTran Management.

See <u>Install / Start the CenTran Service</u> for details on installing or starting the CenTran Service. See <u>Stop / Uninstall the CenTran Service</u> for details on stopping or uninstalling the CenTran Service.

To modify the configuration settings for controlling web access to the Centran Managment application: select **Centran Configuration Manager** from the Centran entry under the Windows Start menu and then click on the **Service** tab to access this tab page within the application (the actual page may vary slightly based on the state of the Centran Service):

🕤 Centran Configuration Mar	nager 5.3.1.4184 (64-Bit)					- 0	23
Certificates	Service						
Service Security							
Logging	Centran Service Status:	Service is not installed.					
Service	The Centron convice mus	t be installed and started wit	h the Window	onorating autor	o to be susilable	foruse	
USB Keybox Setup		be configured to change the					
Database Settings		ace. The Centran service mu					
Security Settings	Install	Start	Stop	Uninstall	Settings	]	
Input / Output File Settings							
Centran Status							
Web XML Service Settings							
Web JSON Service Settings							
Web RSS Feed Settings							
Centran Agent Settings							
Centran Event Log							
Agent Connections							
							1

Click on the **Settings** button to access the controls for modifying the configuration settings for the web connection to the Centran Management application. The page will look like:





	Service			
Service Security				
Logging	Centran Service Status: Ser	vice is not installed.		
Service	The Control contice must be	والمتراجع والمعارفة والمراجع والمراجع	ha Windawa anantina ay	
USB Keybox Setup	The Centran service must be The Centran Service can be c			
Database Settings				o these settings to take effect.
Security Settings	Install	Start Stop	Uninstall	Hide Settings
Input / Output File Settings				
Centran Status	Centran Management URL:	https:://+:443/CentranM	anagement/	
Web XML Service Settings	Centran Management Port:	443		
Web JSON Service Settings	Centran Management Path	CentranManagement		
Web RSS Feed Settings	Localization folder:	<u>C:\Centran\CentranMar</u>	agement	
Centran Agent Settings	_	Save Changes	Discard Changes	
Centran Event Log	_	Save changes	Discard changes	
Agent Connections				
	-			

### CenTran Management URL

The Centran Management URL shows the URL used to connect to the server's Centran Management application using the Web Browser. There are two parts to this URL that can be modified: the port and the path.

- 1. The Port: the port number to fully designate the network connection to the server's Centran Management application using the web browser. The default port is 443.
- 2. The Path: Default value is CentranManagement.

As the Port and Path are changed the resulting URL is updated as long as the values are valid. A warning messages will indicate if / when an invalid value is entered. You will NOT be able to save invalid settings.

These settings change the URL used to access the Centran Management application in the browser.

### Localization Folder

The Localization folder allows you to translate (or localize) the CentranManagement web page. To localize the CenTran Management web application:

- 1. Make a copy of the orginal CentranManagement folder. The original CenTran Management folder is named 'CentranManagement' and is in the Centran service install folder.
- 2. Edit the index.html in the copy folder.
- Select the copy folder by clicking on the Localization Folder link, and
   Navigate to the copy folder, select it, and then click on the OK button.

This setting does NOT change the URL used to access the CenTran Management application in the browser. It does change where the application loads the files used to display the CenTran Management application in the browser.

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# Set Up CenTran Event Logging

### **CenTran 5 Getting Started Guide**

The Centran Event Log tab provides a view of the most recent events that have been processed by the Centran Service, and the means to refresh, save, and to load additional (older) events.

The Centran Event Log tab also provides control over the settings to configure the maximum number of events audited and the granularity with which that maximum limit is checked.

See <u>View CenTran Event Log</u> for details on viewing the Audit trail.

To modify these settings select **CenTran Configuration Manager** from the CenTran entry under the Windows Start menu and click on the **Centran Event** Log tab to access this tab page:

Certificates	_ Centran Event Log			🧬 Settinas	🔛 Save As	Refresh	Load More	
Service Security			1		gr	-1		
Logging	Row ID	Time	Lock	Description				
Logging	62	2017-09-18 11:		Centran Event - Read Keyb	ox Install I	<ey< td=""><td>_</td><td></td></ey<>	_	
Service	61	2017-09-18 11:		Centran Event - Read Keyb	ox Install H	Key (fai		
	60	2017-09-18 11:		Centran Event - Started Pro	cessing (f	ailed)		E
USB Keybox Setup	59	2017-09-15 12:		Centran Event - Stopped Pr	rocessing			
Database Settings 58	58	2017-09-15 09:		Centran Event - Stopped Pr	rocessing			
bacabase occarigs	- 57	2017-09-15 09:		Centran Event - Stopped Pi	rocessing			
Security Settings	56	2017-09-14 16:		Centran Event - Stopped Pr	rocessing			
Level ( Order d File Cettinger	55	2017-09-14 16:		Centran Event - Stopped Pi	rocessing			
Input / Output File Settings	54	2017-09-14 15:		Centran Event - Stopped Pi	rocessing			
Centran Status	53	2017-09-14 15:		Centran Event - Stopped Pi	rocessing			
	52	2017-09-14 09:		Centran Event - Stopped Pi	rocessing			
Web XML Service Settings	51	2017-09-14 09:		Centran Event - Stopped Pi	rocessina			
Web JSON Service Settings	50	2017-09-14 09:		Centran Event - Stopped Pr	-			
web soon a covice betangs	- 49	2017-09-14 09:		Centran Event - Stopped Pr	-			
Web RSS Feed Settings	48	2017-09-14 09:		Centran Event - Stopped Pi				
o	47	2017-09-14 09:		Centran Event - Stopped Pi				
Centran Agent Settings	46	2017-09-14 09:		Centran Event - Stopped Pi	-			
Centran Event Log	45	2017-09-14 09:		Centran Event - Stopped Pi	-			
	44	2017-09-13 13:		Centran Event - Stopped Pi Centran Event - Stopped Pi				
Agent Connections	44	2017-09-13 13:		Centran Event - Stopped Pi Centran Event - Stopped Pi	-			

Click on the **Settings** button to access the controls for modifying the configuration settings for the web connection to the Centran Management application. The page will look like:

Certificates C	entran E	vent Log				Settings S	🚽	2 Refrech	Load More
Service Security						setungs 3	dve As	Kerresn	Luau More
Logging		Maximum	n Number of Event Log	Entries:	500000_	Settings	1		
Logging			Log Limit Gra	nularity:	1000		-		
Service			-	-					
USB Keybox Setup			Save Changes	]	Discard Chan	ges			
Database Settings				r					
Database Settings	Row ID	Time	Lock	Descrip	+i				
Security Settings		2017-09-18 11:	LUCK			h			
	62 61	2017-09-18 11:			n Event - Read Key n Event - Read Key		<i>.</i>		E
	60	2017-09-18 11:			n Event - Keau Key n Event - Started Pi				
Centran Status	59	2017-09-15 12:			n Event - Stopped I		ieuy in		
	58	2017-09-15 09:			n Event - Stopped I n Event - Stopped I	_			
-	57	2017-09-15 09:			n Event - Stopped I				
Web ISON Service Settings	56	2017-09-14 16:			n Event - Stopped I				
Web RSS Feed Settings	55	2017-09-14 16:			n Event - Stopped I	-			
	54	2017-09-14 15:			n Event - Stopped I	-			
Centran Agent Settings	53	2017-09-14 15:			n Event - Stopped I	-			
Centran Event Log	52	2017-09-14 09:			n Event - Stopped	-			
	51	2017-09-14 09:		Centra	n Event - Stopped I	Processing			
Agent Connections	50	2017-09-14 09:		Centra	n Event - Stopped I	Processing			
	40	2017 00 18 00.		· · · · · · · · ·	Frank Charles	n			*

The Save Changes and Discard Changes buttons will be enabled when either setting on this tab is changed.

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#### Clicking the Save Changes button will update these settings in the CenTran configuration file.

Note

Clicking the Discard Changes button will set the tab data to the values currently in the CenTran configuration file.

Clicking either the Save Changes button or the Discard Changes button will disable both buttons.

If changes are saved the CenTran service must be stopped and started for the changes to take effect.

#### Maximum Number of Event Log Entries

This setting controls the total number of most recent audit events that are recorded. It limits the size of the Centran Event Log. Once the log reaches the set limit, it will delete the oldest audits to remain within the limit. The check for the limit size is controlled by this setting and the **Log Limit Granularity**. The event log may grow slightly larger than the set limit based upon the granularity. The lowest valid value for this setting is 10,000. The highest valid value for this setting is 1,000,000. The default value for this setting is 500,000.

#### Log Limit Granularity

The Log Limit Granularity determines the number of new events that must be added before the number of event log entries is checked against the limit. This "granularity" minimizes the impact on performance. The lowest valid value for this setting is 100. The highest valid value for this setting is 5,000. The default value for this setting is 1000.

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## Install / Start the CenTran Service

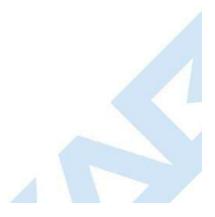
CenTran 5 Getting Started Guide

To install and start the CenTran service, select **CenTran Configuration Manager** from the CenTran entry under the Windows Start menu. Click on the **Service** tab. You should see the following tab page:

	Service						
Service Security							
Logging	Centran Service S	Status: Se	ervice is not instal	led.			
Service	The Contran con-	ice must b	e installed and sta	uted with the Wir	ndows operating sy	rtana ta ha au	pilable for use
USB Keybox Setup					ts (URLs) used for		
Database Settings	management we	b interface	. The Centran sei	vice must be rest	arted for changes	o these settin	gs to take effect.
Security Settings	Ins	tall	Start	Stop	Uninstall	Setti	ings
Input / Output File Settings							
Centran Status							
Web XML Service Settings							
Web JSON Service Settings							
Web RSS Feed Settings							
Centran Agent Settings							
Centran Event Log							
Agent Connections							
Install button to install the	CenTran service with	the operation	ating system.				
Install button to install the	CenTran service with	the opera	ating system.				
e Install button to install the	CenTran service with	the operation	ating system.				
e Install button to install the	CenTran service with	the operation the operation of the opera	ating system.				
e Install button to install the	CenTran service with	the operation	ating system.				
e Install button to install the	CenTran service with	the opera	ating system.				
e Install button to install the	CenTran service with	the operative	ating system.				
e Install button to install the	CenTran service with	the operative	ating system.				
e Install button to install the	CenTran service with	the operative	ating system.				
Install button to install the	CenTran service with	the operative	ating system.				
e Install button to install the	CenTran service with	a the opera	ating system.				
Install button to install the	CenTran service with	a the opera	ating system.				
Install button to install the	CenTran service with	a the opera	ating system.				
Install button to install the	CenTran service with	a the opera	ating system.				
Install button to install the	CenTran service with	a the opera	ating system.				

ertificates	Service						
Service Security							
Logging	Centran Service Status:	Service is stopped.					
Service	The Centran service mu	ist be installed and started with the Windows operating system to be available for use.					
USB Keybox Setup	The Centran Service ran be configured to change the endpoints (URLs) used for the web service and the						
Database Settings		ace. The Centran service must be restarted for changes to these settings to take effect.					
Security Settings	Install	Start Stop Uninstall Settings					
Input / Output File Settings							
Centran Status							
Web XML Service Settings							
Web JSON Service Settings							
Web RSS Feed Settings							
Centran Agent Settings							
Centran Event Log							
Agent Connections							

Make su system.



The Centran Service can	Service is running.         Centran Management (Web Browser)         ust be installed and started with the Windows operating system to be available for use.         n be configured to change the endpoints (URLs) used for the web service and the frace. The Centran service must be restarted for changes to these settings to take effect.         Start       Stop         Uninstall       Settings
The Centran service mus The Centran Service can management web interfa	<u>Centran Management (Web Browser)</u> ust be installed and started with the Windows operating system to be available for use. n be configured to change the endpoints (URLs) used for the web service and the rface. The Centran service must be restarted for changes to these settings to take effect.
The Centran Service can management web interfa	ust be installed and started with the Windows operating system to be available for use. n be configured to change the endpoints (URLs) used for the web service and the rface. The Centran service must be restarted for changes to these settings to take effect.
The Centran Service can management web interfa	ust be installed and started with the Windows operating system to be available for use. n be configured to change the endpoints (URLs) used for the web service and the rface. The Centran service must be restarted for changes to these settings to take effect.
The Centran Service can management web interfa	n be configured to change the endpoints (URLs) used for the web service and the rface. The Centran service must be restarted for changes to these settings to take effect.
management web interfa	rface. The Centran service must be restarted for changes to these settings to take effect.
Install	Start Stop Uninstall Settings

You will now have a link available to open the CenTran Management interface in your default web browser. Your web browser must support HTML5 and CSS3. This includes the following browsers:

- 1. Internet Explorer 9 or higher
- 2. Firefox 10 or higher
- 3. Google Chrome 16 or higher
- 4. Apple Safari 5 or higher

If you are using Internet Explorer, you must have compatibility mode for intranet sites turned off under the Tools menu. Press Alt-T to open the tools menu in Internet Explorer to get to this setting.

You can now manage CenTran settings either directly through the CenTran Configuration Manager or through the web browser CenTran Management interface. You will now need to set up the CenTran settings using one of these two methods, and then you can start processing lock transactions using CenTran.

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# Configure the CenTran Service using CenTran Configuration Manager

### CenTran 5 Getting Started Guide

The CenTran Configuration Manager supports directly managing a running CenTran service on the same computer. It does not support managing a CenTran service running on a different computer. To manage a running CenTran service, you must have already set up the appropriate CenTran configuration file settings and certificates. You must have also installed and started the CenTran service.

### Managing the CenTran service:

The following sections describe setting up and managing the CenTran service using the CenTran Configuration Manager:

- <u>Setup Keybox</u>
- <u>Select ODBC Database Connection</u>
- <u>Set Company Number</u>
- Set File Settings
- <u>Start Transaction Processing</u>
- <u>View Web Service XML Settings</u>
- <u>View Web Service JSON Settings</u>
- <u>View Web RSS Feed Settings</u>
- <u>View CenTran Agent Settings</u>
- <u>View CenTran Event Log</u>
- <u>View CenTran Agent Persistent Connections</u>
- <u>Stop Transaction Processing</u>

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# Setup Keybox

### CenTran 5 Getting Started Guide

Click on the USB Keybox Setup tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

Certificates	USB Keybox Setup	
Service Security		
Service	Is Keybox Connected / Responding:	Present
JSB Keybox Setup	Is Keybox Firmware Version Good:	Firmware Version is up to date
Database Settings	Is Keybox Setup:	USB Keybox installation has not been set up
Security Settings	Hardware Type:	Cencon USB Key Box
Input / Output File Settings	Firmware Version ID:	200712
Centran Status	Firmware Version:	1.3.4022 2016/04/21 14:46:48
	Hardware Serial Number:	01E268DE1500003E
Web XML Service Settings	Device ID:	0160
Web JSON Service Settings	Customer ID:	Brink's Route ALL BRINK'S
Web RSS Feed Settings	Kaba Mas Customer Number:	LLID#026
Centran Agent Settings	Kaba Mas Order Number	2016-12-06 13:18:47Z
Centran Event Log	Device Initialization Date:	2016-12-06
Agent Connections	Abbreviated Device ID:	0651
-	Abbreviated Customer ID:	0063
	Device Description:	Bank FLM Route Enterprise
	Max FLM Locks Restriction:	0
	Max Route Locks Restriction:	0
	Max Bank Locks Restriction:	0
	Max Device Reinstall Restriction:	20
		Read USB KeyBox Install Key

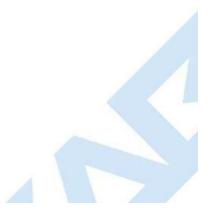
Place your Keybox install key in the first port of the keybox: (This will be the port farthest away from the USB connection.)







Click on the **Read USB Keybox Install Key** button on the **USB Keybox Setup** tab page. You should see the following in the **USB Keybox Setup** tab page.

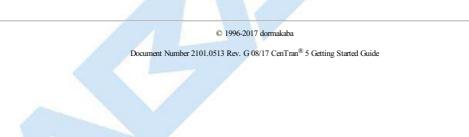


ertificates	USB Keybox Setup		
ervice Security			1
Service	Is Keybox Connected / Responding:	Present	
USB Keybox Setup	Is Keybox Firmware Version Good:	Firmware Version is up to date	
Database Settings	Is Keybox Setup:	USB Keybox installation has not been set up	
Security Settings	Hardware Type:	Cencon USB Key Box	
Input / Output File Settings	Firmware Version ID:	200712	
Centran Status	Firmware Version:	1.3.4022 2016/04/21 14:46:48	
	Hardware Serial Number:	01E268DE1500003E	
Web XML Service Settings	Device ID:	0160	
Web JSON Service Settings	Customer ID:	Brink's Route ALL BRINK'S	
Web RSS Feed Settings	Kaba Mas Customer Number:	LLID#026	
Centran Agent Settings	Kab Centran Management		
Centran Event Log Agent Connections	Abb Abb Abb	5B KeyBox Install Key successfully!	
	Dev Max	ОК	
	Max Bank Locks Restriction:	0	
	Max Device Reinstall Restriction:	20	
		Read USB KeyBox Install Key	٦l

Click on the **OK** button on message box.

You should see the following in the USB Keybox Setup tab page.

Certificates	USB Keybox Setup	
ervice Security		
Service	Is Keybox Connected / Responding:	Present
USB Keybox Setup	Is Keybox Firmware Version Good:	Firmware Version is up to date
Database Settings	Is Keybox Setup:	USB Keybox installation has been set up
Security Settings	Hardware Type:	Cencon USB Key Box
Input / Output File Settings	Firmware Version ID:	200712
Centran Status	Firmware Version:	1.3.4022 2016/04/21 14:46:48
	Hardware Serial Number:	01E268DE1500003E
Web XML Service Settings	Device ID:	0160
Web JSON Service Settings	Customer ID:	Brink's Route ALL BRINK'S
Web RSS Feed Settings	Kaba Mas Customer Number:	LLID#026
Centran Agent Settings	Kaba Mas Order Number	2016-12-06 13:18:47Z
Centran Event Log	Device Initialization Date:	2016-12-06
Agent Connections	Abbreviated Device ID:	0651
-	Abbreviated Customer ID:	0063
	Device Description:	Bank FLM Route Enterprise
	Max FLM Locks Restriction:	0
	Max Route Locks Restriction:	0
	Max Bank Locks Restriction:	0
	Max Device Reinstall Restriction:	20
		Read USB KeyBox Install Key



# Select ODBC Database Connection

### **CenTran 5 Getting Started Guide**

#### **Important Note**

CenTran no longer runs under the permissions of the logged on user. It has been changed to run as a background service on the host server you install it on, and is independent of who is logged on. The CenTran service will run in the background even if no one is logged onto the host server.

By default, the CenTran service runs logged on under a **Local System** account. This gives it access to resources and settings on the host server you install it on. However, the **Local System** account only has access to the host server, not to resources on your network.

If the CenTran service is configured to run logged onto the default Local System account, you will need to use SQL authentication for CenTran to access the SQL Server database.

If the CenTran service is configured to run logged onto an account configured for it on your network domain, then that account must have administrative privileges on the host server CenTran is on.

If you use Windows authentication for CenTran's database authentication, then the account CenTran is logged onto must be a network domain account and have authorization to access the SQL Server database.

You can view and edit the CenTran service settings from the Microsoft Management Console:

- Open the Start Menu.
- Right click on Computer.
- Select Manage from the displayed context menu. You must have administrative privileges.
- The Computer Management console will be displayed. Expand the Services and Applications section on the left side.
- Select Services from the Services and Applications section.
- Locate Centran from the list of services. Right click on Centran and select Properties from the context menu.
- A service Properties dialog will be displayed. Select the Log On tab to examine the account the service is set up to log on as.

Click on the Database Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

好 Centran Configuration Ma	mager 5.3.0.4135 (64-Bit)		
Certificates	Open Database Connectivity (ODBC) Dat	tabase Settings	
Service Security			
Service	Data Source Name		
USB Keybox Setup	User ID		
Database Settings	Is Database Administrator		
Security Settings	Is Database System Administrator:		
Input / Output File Settings	Default Schema Name:		
Centran Status	Database Management System Name:		
	Database Management System Version:		
Web XML Service Settings	Server Name:		
Web JSON Service Settings	Database Name:		
Web RSS Feed Settings	Instance Name		
Centran Agent Settings	Is Case Sensitive:		
Centran Event Log			
Agent Connections		Select ODBC Data Source	

You will need to have set up an ODBC database connection specifying the database you want to use. The ODBC database connection will need to be configured to use SQL authentication. Click on the **Select ODBC Data Source** button. You should see the following dialog displayed:

auti Da Da	ase select the ODBC hentication. The use atabase Authentication atabase Connection atabase Connection	User ID:	equired for data sources that use SQL dows authentication.	
Name EngTestSrv24GB	Test SQL Auth	Description SQL Server Native Client 10.0	Type System	

Select the ODBC database connection you want to use. For SQL authentication, you will also need to enter a user name and password for the CenTran service to use with the database connection.

You should see the following tab page displayed by the CenTran Configuration Manager:

Centran Configuration Ma	mager 5.3.0.4135 (64-Bit)			
Certificates	Open Database Connectivity (ODBC) Database Settings			
Service Security				
Service	Data Source Name	Engtestsrv24gb Test SQL		
USB Keybox Setup	User ID	CentranUser		
Database Settings	Is Database Administrator	The current user is a database administrator The current user is not a database system administrator		
Security Settings	Is Database System Administrator:			
Input / Output File Settings	Default Schema Name:	dbo		
Centran Status	Database Management System Name:	Microsoft SQL Server		
Web XML Service Settings	- Database Management System Version:	12.00.5203		
	Server N Centran Management	x l		
Web JSON Service Settings	Databas			
Web RSS Feed Settings		BC database connection successfully!		
Centran Agent Settings	Is Case S	nsitive		
Centran Event Log		ОК		
Agent Connections				
	·			

Click on the **OK** button on message box.

You should see something similar to the following tab page displayed by the CenTran Configuration Manager, depending on your database configuration:

Certificates	Open Database Connectivity (ODBC) Database Settings		
Service Security		-	
Service	Data Source Name	Engtestsrv24gb Test SQL	
JSB Keybox Setup	User ID	CentranUser	
Oatabase Settings	Is Database Administrator	The current user is a database administrator	
Security Settings	Is Database System Administrator:	The current user is not a database system administrator	
nput / Output File Settings	Default Schema Name:	dbo	
Centran Status	Database Management System Name:	Microsoft SQL Server	
Web XML Service Settings	- Database Management System Version:	12.00.5203	
	Server Name:	ENGTESTSRV24GB	
Web JSON Service Settings	Database Name:	Loomis	
Web RSS Feed Settings	Instance Name	MSSQLSERVER	
Centran Agent Settings	Is Case Sensitive:	The database is not configured to be case sensitive	
Centran Event Log	- F		
Agent Connections		Select ODBC Data Source	

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## Set Company Number

### **CenTran 5 Getting Started Guide**

Click on the Security Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

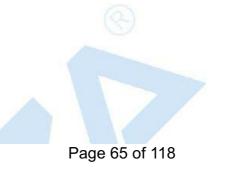
Certificates	Security Settings	
Service Security		
Service	Is Keybox Connected / Responding:	Present
USB Keybox Setup	Is Keybox Firmware Version Good:	Firmware Version is up to date
Database Settings	Is Keybox Setup:	USB Keybox installation has been set up
Security Settings	Is Database Connection Set:	Database Connection is set
Input / Output File Settings	Is Company Number Set:	Company number has not been set
Centran Status	Is Database Configuration Data Present:	Cencon system configuration data is present in the database
Web XML Service Settings	Keybox Security Match Cencon Configuration:	USB Keybox matches Cencon system configuration
Web JSON Service Settings	. Company Number Match Cencon Configuration:	Company number does not match Cencon system configuration
Web RSS Feed Settings	Se	t Company Number
Centran Agent Settings		
Centran Event Log	-	
Agent Connections	-	
	-	

Click on the Set Company Number button. You should see the following dialog displayed:

	Set Compar	ny Number	
	?	Please enter the company number used to secure your Cencon installation. Security Settings Company Number:	
		Ok Cancel	

Enter the 4 digit company number you are using with Cencon. This is a sensitive piece of security information that is part your security with the Cencon system. You should record it and keep it in a secure place. The company number you enter for use by the CenTran service must match the one you are using with Cencon.

You should see the following tab page displayed by the CenTran Configuration Manager:





Certificates		
Service Security	Security Settings	
Service	Is Keybox Connected / Responding:	Present
	Is Keybox Firmware Version Good:	Firmware Version is up to date
USB Keybox Setup	Is Keybox Setup:	USB Keybox installation has been set up
Database Settings	Is Database Connection Set:	Database Connection is set
Security Settings	Is Company Number Set:	Company number has not been set
Input / Output File Setting	Is Database Configuration Data Present:	Cencon system configuration data is present in the database
Centran Status	Keybox Security Match Cencon Configuration:	USB Keybox matches Cencon system configuration
Web XML Service Settings	Company Numbe Centran Management	Configuration
Web JSON Service Setting	s	
Web RSS Feed Settings	Centran set the c	ompany number security settings successfully!
Centran Agent Settings		
Centran Event Log		
Agent Connections		ОК
he <b>OK</b> button on messa Id see the following tab p	ge box. bage displayed by the CenTran Configuration Mana	ager:
		age:

g

Certificates	Security Settings	
Service Security		
Service	Is Keybox Connected / Responding:	Present
USB Keybox Setup	Is Keybox Firmware Version Good:	Firmware Version is up to date
Database Settings	Is Keybox Setup:	USB Keybox installation has been set up
Security Settings	Is Database Connection Set:	Database Connection is set
Input / Output File Settings	Is Company Number Set:	Company number is set correctly
Centran Status	<ul> <li>Is Database Configuration Data Present:</li> </ul>	Cencon system configuration data is present in the database
Web XML Service Settings	<ul> <li>Keybox Security Match Cencon Configuration:</li> </ul>	USB Keybox matches Cencon system configuration
Web JSON Service Settings	Company Number Match Cencon Configuration:	Company number matches Cencon system configuration
Web RSS Feed Settings		• C Nu
Centran Agent Settings	Se	t Company Number
Centran Event Log	-	
	-	
Agent Connections	-	

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## Set File Settings

### **CenTran 5 Getting Started Guide**

#### **Important Note**

CenTran no longer runs under the permissions of the logged on user. It has been changed to run as a background service on the host server you install it on, and is independent of who is logged on. The CenTran service will run in the background even if no one is logged onto the host server.

By default, the CenTran service runs logged on under a **Local System** account. This gives it access to resources and settings on the host server you install it on. However, the **Local System** account only has access to the host server, not to resources on your network.

If you are configuring CenTran to access a shared file location on your network, not on the host server, then you will need to set up CenTran with a network domain account.

The account you set up CenTran to run logged onto must have administrative privileges on the host server CenTran is on. It must also have read / write access to the directories you are using for file input / output.

In this case, the file directories must be identified by UNC (Universal Naming Convention) paths: "\\server\share\path\"

You can not use mapped drive letters for network paths for a service. Mapped drive letters for network paths are specific to an account. They are not accessable from other accounts. If you set up a mapped drive letter for your logged on account, that does not mean that CenTran can access it from its account.

You can view and edit the CenTran service settings from the Microsoft Management Console:

- Open the Start Menu.
- Right click on Computer.
- Select Manage from the displayed context menu. You must have administrative privileges.
- The Computer Management console will be displayed. Expand the Services and Applications section on the left side.
- Select Services from the Services and Applications section.
- Locate Centran from the list of services. Right click on Centran and select Properties from the context menu.
- A service Properties dialog will be displayed. Select the Log On tab to examine the account the service is set up to log on as.

1. Click on the Input / Output File Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

🐠 Centran Configuration Mar	nager 5.3.0.4135 (64-Bit)	
Certificates	Input / Output File Settings	
Service Security		
Service	Input File Directory:	
USB Keybox Setup	Input File Extension:	
Database Settings	Delay Before Reading Input Files (Milliseconds):	10
Security Settings	Output File Directory:	
Input / Output File Settings	Output File Extension:	
Centran Status	Save Diagnostic Information:	Not saving diagnostics information.
Web XML Service Settings	Diagnostic File Path:	
	Default Dispatcher ID:	CENTRAN
Web JSON Service Settings	Force Default Dispatcher To Be Used:	Not forcing default dispatcher ID to be used for transaction processing.
Web RSS Feed Settings		
Centran Agent Settings		Set File Settings
Centran Event Log		
Agent Connections	Set D	efault Dispatcher Settings



- 2. You will need to setup an input directory and an output directory for CenTran to receive file transactions and return the response.
  - Input Directory The input directory is the directory where CenTran reads transactions being sent to it. It looks in this directory for files representing lock transactions to be processed. You will need to create an input directory that you want to use for CenTran to listen for incoming file transactions.
  - Input File Extension The input file extension defined here is the file extension CenTran looks for when attempting to find transaction input files in the input directory that has been identified. If an input file extension is not set, then the CenTran service will attempt to read any file placed in the input directory.
  - Input File Delay The delay before reading next input transaction file setting is intended to allow a delay after detecting a file and before reading it. It is possible for an error in reading the input file to occur if it has not been completely written to the input directory yet. This delay allows the write of the input file to complete before the CenTran service reads the file. This delay begins when a transaction file is detected in the input directory by CenTran.
  - **Output Directory** The output directory is the directory where CenTran places the output files containing the results of processed transactions. This directory can be the same directory as the one used to contain input files. If the two directories are the same, then the files must have different extensions assigned. You will need to create an output directory that you want to use for CenTran to write output files to.
  - Output File Extension The output file extension is the file extension placed by CenTran at the end of output file names. The file names will be the same as the input file names, except for the file extension. If an output file extension is set, then that extension will be placed at the end of output files produced by CenTran.

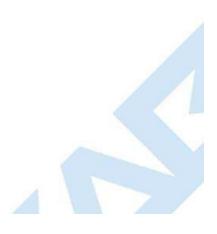
Note	
CenTran has been validated against the SuperSpeed RamDisk Plus software. This software allows you to used for transferring CenTran transaction files. This improves performance and speed of transferring CenT eliminates hard drive wear from transferring CenTran transaction files. This software is available at <a href="http://www.superspeed.com/desktop/ramdisk.php">http://www.superspeed.com/desktop/ramdisk.php</a> . SuperSpeed RamDisk is a Mcrosoft Certified software.	ran transaction files, and

3. Click on the Set File Settings button. You should see the following dialog displayed:

	Please enter the file settings for C	entran to process transactions.	
?	Input File Settings		
	Input File Directory:	R:\CentranIn	Browse
	Input File Extension:	tip	
	Input File Delay (Milliseconds):	10	
	Output File Settings		
	Output File Directory: R:\Ce	ntranOut	Browse
	Output File Extension: top		
	Diagnostic Settings		
	E E	Enable Diagnostic Information	
	Diagnostic File Location:		Browse

4. Enter the input and output directories and extensions for the CenTran service to process files. Optionally, you can enable CenTran to record diagnostic output to a file, but this slows down performance. Once you have entered the settings you want to use, click on the **OK** button.

You should see the following tab page displayed by the CenTran Configuration Manager:



	Input / Output File Settings	
Service Security		
Service	Input File Directory:	
USB Keybox Setup	Input File Extension:	
Database Settings	Delay Before Reading Input Files (Milliseconds):	10
Security Settings	Output File Directory:	
Input / Output File Settin	Output File Extension:	
Centran Status	Save Diagnostic Information:	Not saving diagnostics information.
Web XML Service Settings	— Diagnostic File Path:	
Web JSON Service Settings	Default Dispatcher ID:	CENTRAN
Web RSS Feed Settings		Not forcing default dispatcher ID to be used for transaction
	Centran Managemen	
Centran Agent Settings		
Centran Event Log	Centran	set the file settings successfully!
Agent Connections	_	
		ОК
on the <b>OK</b> button on mes	sage box.	
	sage box. b page displayed by the CenTran Configuration I	Manager:
		Vanager:
		Manager:
		Vanager:
		Manager:
		Manager:

Certificates	Input / Output File Settings	
Service Security		
Service	Input File Directory:	R:\CentranIn\
USB Keybox Setup	Input File Extension:	tip
Database Settings	Delay Before Reading Input Files (Milliseconds):	10
Security Settings	Output File Directory:	R:\CentranOut\
Input / Output File Settings	Output File Extension:	top
Centran Status	Save Diagnostic Information:	Not saving diagnostics information.
Web XML Service Settings	Diagnostic File Path:	
	Default Dispatcher ID:	CENTRAN
Web JSON Service Settings	Force Default Dispatcher To Be Used:	Not forcing default dispatcher ID to be used for transaction processing.
Web RSS Feed Settings		P
Centran Agent Settings		Set File Settings
Centran Event Log		
Agent Connections	Set D	efault Dispatcher Settings

6. You will also need to set the default dispatcher ID to be used for the CenTran service when a dispatcher ID is not available for a transaction being processed. Optionally, you can force this dispatcher ID to be used instead of the dispather ID associated with a transaction. Click on the Set Default Dispatcher Settings button. You should see the following dialog displayed:

You should see the following dialog displayed:

ĺ	Set Default [	Dispatcher Settings
		Please enter the default dispatcher settings for Centran to process transactions.
	(?)	Default Dispatcher Settings
		Default Dispatcher ID: CENTRAN
		Force Use of Default Dispatcher ID
		Ok Cancel
	K	
<ol><li>Enter the default dispatcher I</li></ol>	D you want t	o use. This default dispatcher ID must have been already set up under Cencon, and be present in the
database. The role that the d	ofault disnate	ther is assigned to will effect what authorizations the default dispatcher has. Once you have entered the default

database. The role that the default dispatcher is assigned to will effect what authorizations the dispather ID you want to use, click on the **OK** button.

You should see the following message displayed by the CenTran Configuration Manager:





ertificates	Input / Output File Settings	
ervice Security		
ervice	Input File Directory:	R:\CentranIn\
SB Keybox Setup	Input File Extension:	tip
atabase Settings	Delay Before Reading Input Files (Milliseconds):	10
ecurity Settings	Output File Directory:	R:\CentranOut\
put / Output File Settings	Output File Extension:	top
entran Status	Save Diagnostic Information:	Not saving diagnostics information.
/eb XML Service Settings	- Diagnostic File Path:	
-	_ Default Dispatcher ID:	CENTRAN
/eb JSON Service Settings	Force Default Dispatcher To Be Used:	Not forcing default dispatcher ID to be used for transaction processing.
/eb RSS Feed Settings		
entran Agent Settings	Centran Management	
entran Event Log		
gent Connections	Centran set the default	dispatcher settings successfully!
		ОК

# **Start Transaction Processing**

### CenTran 5 Getting Started Guide

Click on the CenTran Status tab on the CenTran Configuration Manager.

You should see the following tab page displayed by the CenTran Configuration Manager:

Certificates	Centran Status		
Service Security			11
Service	Is Monitoring For Transaction Files:	Centran is not event monitoring for received transaction files	
USB Keybox Setup	Is Polling For Transaction Files:	Centran is not polling for received transaction files	
Database Settings	Is Processing XML Web Requests:	Centran is not processing XML web service transaction requests	
Security Settings	Is Processing JSON Web Requests:	Centran is not processing JSON web service transaction requests	
Input / Output File Settings	Is Processing Web Feeds Requests:	Centran is not processing web feeds requests	
Centran Status	Is Processing Centran Agent Requests:	Centran is not processing Centran Agent requests	
Web XML Service Settings	Product Name:	Centran	
-	Version:	5.3.0.4135 (64-Bit)	
Web JSON Service Settings	Major Version Number:	5	
Web RSS Feed Settings	Minor Version Number:	3	
Centran Agent Settings	Maintenance Version Number:	0	
Centran Event Log	Build Version Number:	4135	
Agent Connections	Server Date Time (UTC):	2017-07-14T15:06:19.447Z	
	Server Date Time (Local):	2017-07-14T11:06:19.447-04:00	
	Server Time Zone Bias:	-04:00	
		Start Transaction Processing	
		Stop Transaction Processing	

Click on the Start Transaction Processing button. You should see the following message dialog displayed:



Central Suits         Central Suits           Service         Exclusion of For Transaction Files:         Service Security         Exclusion of For Transaction Files:         Service Security           US Keybex Stup         Exclusion of For Transaction Files:         Service Security         Exclusion of For Transaction Files:         Service Security           Database Strings         Exclusion of Foresting SION Web Requests:         Exclusion of Foresting SION Web Requests:         Service Security	Service Security Service Security Service Is Mo USB Keybox Setup Is Pol Database Settings Is Pro Security Settings Is Pro Input / Output File Settings Centran Status Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings Majo Centran Agent Settings Main Centran Event Log Build Agent Connections	nitoring For Transaction Files: ling For Transaction Files: cessing XML Web Requests: cessing JSON Web Requests: cessing Web Feeds Requests: cessing Centran Agent Requests: uct Name: on: r Version Number: r Version Number: centran Management	Centran is not polling for received transaction files Centran is not processing XML web service transaction requests Centran is not processing JSON web service transaction requests Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.3.0.4135 (64-Bit) 5
Service       Ls Monitoring For Transaction Files:       Centran is not event monitoring for received transaction files         USB Keybox Setup       Ls Polling For Transaction Files:       Centran is not event monitoring for received transaction files         Security Settings       Ls Processing XML Web Requests:       Centran is not event monitoring for received transaction requests         Input / Output File Settings       Ls Processing Veb Feeds Requests:       Centran is not processing Veb reads requests         Web XML Service Settings       Processing Centran Agent Requests:       Centran is not processing Veb reads requests         Web XML Service Settings       Mainprance Version Number:       S         Web SS Feed Settings       Mainprance Version Number:       S         Minor Version Number:       S       S         Build       Centran Management       S         Build       Centran has successfully started processing transactions!         Serve       Serve       S         Serve       Serve       S         Serve       Stop Transaction Processing         Serve       Stop Transaction Processing         Hord OK button.       S	Service Is Mo USB Keybox Setup Is Pol Database Settings Is Pro Security Settings Is Pro Input / Output File Settings Is Pro Centran Status Version Web JSON Service Settings Majo Web RSS Feed Settings Majo Centran Agent Settings Main Centran Event Log Build Agent Connections Serve	ling For Transaction Files: cessing XML Web Requests: cessing JSON Web Requests: cessing Web Feeds Requests: cessing Centran Agent Requests: uct Name: on: r Version Number: r Version Number: tenance Version Number: Centran Management	Centran is not polling for received transaction files Centran is not processing XML web service transaction requests Centran is not processing JSON web service transaction requests Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.3.0.4135 (64-Bit) 5
USB Keybox Setup       Is Polling For Transaction Files:       Centran is not processing XML web service transaction files         Database Settings       Is Processing JSON Web Requests:       Centran is not processing JSON web service transaction requests         Security Settings       Is Processing Veb Feeds Requests:       Centran is not processing Veb Feeds requests:         Centran Status       Product Name:       Centran         Web XML Service Settings       Nair tenance Version Number:       5         Moor Version Number:       5         Minor Version Number:       3         Centran Agent Settings       Maintenance Version Number:       2         Server       Centran has successfully started processing transactions!         Server       OK	USB Keybox Setup Is Pol Database Settings Is Pro Security Settings Is Pro Input / Output File Settings Is Pro Centran Status Produ Web XML Service Settings Majo Web RSS Feed Settings Main Centran Agent Settings Build Agent Connections Serve	ling For Transaction Files: cessing XML Web Requests: cessing JSON Web Requests: cessing Web Feeds Requests: cessing Centran Agent Requests: uct Name: on: r Version Number: r Version Number: tenance Version Number: Centran Management	Centran is not polling for received transaction files Centran is not processing XML web service transaction requests Centran is not processing JSON web service transaction requests Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.3.0.4135 (64-Bit) 5
Database Settings       Is Processing XML Web Requests:       Centran is not processing XML web service transaction requests         Security Settings       Is Processing JSON Web Requests:       Centran is not processing JSON web service transaction requests         Input / Output File Settings       Is Processing Centran Agent Requests:       Centran is not processing Centran Agent requests         Web XML Service Settings       Product Name:       Centran         Web JSON Service Settings       Major Version Number:       5         Minor Version Number:       3         Centran Agent Settings       Maintenance Mersion Number:       1         Build       Centran Management       Stop         Build       Centran has successfully started processing transactions!       Stop Transaction Processing         Nerver       Stop Transaction Processing       OK         Processing OKK button.       Stop Transaction Processing       Stop Transaction Processing	Database Settings       Is Pro         Database Settings       Is Pro         Security Settings       Is Pro         Input / Output File Settings       Is Pro         Centran Status       Product         Web XML Service Settings       Wajo         Web RSS Feed Settings       Maino         Centran Agent Settings       Maino         Centran Event Log       Build         Agent Connections       Server	cessing XML Web Requests: cessing JSON Web Requests: cessing Web Feeds Requests: cessing Centran Agent Requests: cessing Centran Agent Requests: cessing Centran Agent Requests: r Version Number: r Version Number: centran Management	Centran is not processing XML web service transaction requests Centran is not processing JSON web service transaction requests Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.3.0.4135 (64-Bit) 5
Security Settings Security Settings Input / Output File Settings Urb XML Service Settings Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings Centran Agent Settings Web RSS Feed Settings Centran Agent Settings Centran Settings Centran Agent Settings Cent	Security Settings Is Produced Comput / Output File Settings Is Produced Computer Status Produced Settings Web XML Service Settings Majo Web RSS Feed Settings Main Centran Agent Settings Build Agent Connections Server	cessing JSON Web Requests: cessing Web Feeds Requests: cessing Centran Agent Requests: uct Name: on: r Version Number: r Version Number: tenance Version Number: centran Management	Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.3.0.4135 (64-Bit) 5
Input / Output File Settings Centran Status Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings Centran Agent Settings Centran Successfully started processing transactions! Serve	Is Produce The Settings Is Produce The Settings Is Produce The Settings Produce Settings Major Web RSS Feed Settings Main Centran Agent Settings Build Agent Connections Server	cessing Centran Agent Requests: uct Name: on: r Version Number: r Version Number: tenance Version Number:	Centran is not processing Centran Agent requests Centran 5.3.0.4135 (64-Bit) 5
Centran Status       Is Processing Centran Agent Requests:       Centran Is not processing Centran Agent requests         Web XML Service Settings       Product Name:       Centran         Web JSON Service Settings       Major Version Number:       5         Web RSS Feed Settings       Minor Version Number:       3         Centran Agent Settings       Centran Management       Imagement         Build       Centran has successfully started processing transactions!       Serve         Serve       Serve       OK         Serve       Stop Transaction Processing       OK	Centran Status       Is Product         Web XML Service Settings       Verside         Web JSON Service Settings       Majo         Web RSS Feed Settings       Mino         Centran Agent Settings       Main         Centran Agent Settings       Main         Centran Event Log       Build         Agent Connections       Servet	uct Name: on: r Version Number: r Version Number: tenance Version Number:	Centran 5.3.0.4135 (64-Bit) 5
Product Name:       Centran         Web XML Service Settings       Version:       5.3.0.4135 (64-Bit)         Web XSS Feed Settings       Major Version Number:       5         Web XSS Feed Settings       Minor Version Number:       3         Centran Agent Settings       Maintenance Version Number:       0         Gentran Event Log       Build       Serve       Serve         Serve       Serve       Centran has successfully started processing transactions!         Serve       Serve       OK         Serve       Serve       OK         Peroduct Name:       OK       Stop Transaction Processing	Product       Web XML Service Settings     Version       Web JSON Service Settings     Majo       Web RSS Feed Settings     Mino       Centran Agent Settings     Main       Centran Event Log     Build       Agent Connections     Servet	on: r Version Number: r Version Number: tenance Version Number:	5.3.0.4135 (64-Bit) 5
Version:       5.30.4135 (64-Bit)         Web JSON Service Settings       Major Version Number:       5         Web RSS Feed Settings       Minor Version Number:       3         Centran Agent Settings       Maintenance Version Number:       0         Centran Event Log       Build       Serve       Serve         Serve       Serve       OK       OK         Serve       OK       Stop Transaction Processing	Version     Version       Web JSON Service Settings     Majo       Web RSS Feed Settings     Mino       Centran Agent Settings     Main       Centran Event Log     Build       Agent Connections     Servet	r Version Number: r Version Number: tenance Version Number:	5
Web RSS Feed Settings   Minor Version Number:   3   Centran Agent Settings   Maintenance Version Number:   0   Build   Serve   Stop Transaction Processing	Web RSS Feed Settings Mino Centran Agent Settings Main Centran Event Log Build Agent Connections Serve	r Version Number: tenance Version Number:	
Centran Agent Settings Centran Event Log Agent Connections Serve Serve Serve Serve Serve Serve Serve Serve Serve Serve Stop Transaction Processing Transaction Processing	Centran Agent Settings Main Centran Event Log Build Agent Connections Serve	tenance Version Number Centran Management	3
Centran Event Log Agent Connections Serve Serve Serve Serve Serve Stop Transaction Processing Transaction Processing Transaction Processing	Centran Event Log Build Agent Connections Serve	Centran Management	
Centran Event Log       Build         Agent Connections       Serve         Serve       OK         OK       OK	Agent Connections Serve		
Agent Connections	Agent connections		
Notes and the serve of the serv	Sen/e	Centran has success	sfully started processing transactions!
OK         Stop Transaction Processing			
ne message dialog <b>OK</b> button.	Serve		
ne message dialog <b>OK</b> button.			ОК
ne message dialog <b>OK</b> button.		( <u> </u>	
			Stop Transaction Processing
	I see the following tab page displ	ayed by the CenTran Configura	tion Manager:
		4	

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Certificates	Centran Status	
Service Security		
ervice	Is Monitoring For Transaction Files:	Centran is event monitoring for received transaction files
JSB Keybox Setup	Is Polling For Transaction Files:	Centran is polling for received transaction files
Database Settings	Is Processing XML Web Requests:	Centran is processing XML web service transaction requests
Security Settings	Is Processing JSON Web Requests:	Centran is processing JSON web service transaction requests
nput / Output File Settings	Is Processing Web Feeds Requests:	Centran is processing web feeds requests
Centran Status	Is Processing Centran Agent Requests:	Centran is processing Centran Agent requests
	Product Name:	Centran
Web XML Service Settings	Version:	5.3.0.4135 (64-Bit)
Web JSON Service Settings	Major Version Number:	5
Veb RSS Feed Settings	Minor Version Number:	3
Centran Agent Settings	Maintenance Version Number:	0
Centran Event Log	Build Version Number:	4135
Agent Connections	Server Date Time (UTC):	2017-07-14T15:06:19.447Z
	Server Date Time (Local):	2017-07-14T11:06:19.447-04:00
	Server Time Zone Bias:	-04:00
		Start Transaction Processing
		Stop Transaction Processing

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## View Web Service XML Settings

### CenTran 5 Getting Started Guide

The web service settings are configured in the sytem.serviceModel section of the CenTran service configuration file. The resultant web service based on the settings can be viewed while the CenTran service is processing transactions.

Click on the Web XML Service Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

Certificates W	eb XML Service Set	tings	
Service Security		Webse	
	Name	Value	
	Endpoint Name	NetNamedPipeBinding_ICentran	E
Job Reybox Setup	Endpoint Address	net.pipe://localhost/CentranService	
	Endpoint Binding	NetNamedPipeBinding ICentran	
	Endpoint Contract Contract Configura		
Security Settings	Operation	SayHello	
nput / Output File Settings	operation	Version	
nput/output/ne settings		AvailableTimeZoneQuery	
Centran Status		HandleOptions	
		LockDispatch	
Veb XML Service Settings		LockReassign	
Web JSON Service Settings		LockUnassign	
Male DCC Frank Cattlines		LockClose	
Web RSS Feed Settings		LockNamesData	
Centran Agent Settings		LockSerialNumbersData	
		LockUpdate	
Centran Event Log		LockRename	
Agent Connections		LockDelete	
-		LockInitSAKeyAuditDownload	
		LockReadSAKeyAuditDownload	
		LockInitSAKeyActivate	
		LockReadSAKeyActivate	
		LockInitResyncKey	
		LockReadResyncKey	
		LockResyncWithKey	
		LockCancelResync	
		LockInitTimeSetKey	
		LockReadTimeSetKey	
		LockQuery	
		LockQueryCount	<b>~</b>

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## View Web Service JSON Settings

### CenTran 5 Getting Started Guide

The web service settings are configured in the sytem.serviceModel section of the CenTran service configuration file. The resultant web service based on the settings can be viewed while the CenTran service is processing transactions.

Click on the Web JSON Service Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

Certificates	Web JSON Service Se	ttings	
Service Security			
ervice	Name	Value	
	Endpoint Name	WebHttpBinding_ICentranJSON	
JSB Keybox Setup	Endpoint Address	https://localhost/CentranServiceJSON/rest/	
Database Settings	Endpoint Binding Endpoint Contract	WebHttpBinding ICentranJSON	=
stabase settings		CentranJSON	
Security Settings	Operation	SayHello	
nput / Output File Settings		Version	
nput/ output/ne octangs	-	AvailableTimeZoneQuery	
Centran Status		HandleOptions	
Veb XML Service Settings		LockDispatch	
Teo Aine Service Settings	1	LockReassign	
Veb JSON Service Settings		LockUnassign	
Veb RSS Feed Settings		LockClose	
veb hoo reed betangs	-	LockNamesData	
Centran Agent Settings		LockSerialNumbersData	
Centran Event Log		LockUpdate	
central Event Log		LockRename	
Agent Connections		LockDelete	
		LockInitSAKeyAuditDownload	
		LockReadSAKeyAuditDownload	
		LockInitSAKeyActivate	
		LockReadSAKeyActivate	
		LockInitResyncKey	
		LockReadResyncKey	
		LockResyncWithKey LockCancelResync	
		LockInitTimeSetKey	
		LockReadTimeSetKey	
		LockQuery	
		LockQueryCount	-
	L		

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# **View Web RSS Feed Settings**

### CenTran 5 Getting Started Guide

The web rss feed settings are configured in the **sytem.serviceModel** section of the CenTran service configuration file. The resultant web rss feeds based on the settings can be viewed while the CenTran service is processing transactions.

### Click on the Web RSS Feed Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

Centran Configuration M	anager 5.5.6.4155 (04 bit)		
Certificates	Web RSS Feed Setting	JS	
Service Security	- Name	Value	
Service	Endpoint Name	WebHttpBinding_ICentranFeeds	
USB Keybox Setup	Endpoint Address Endpoint Binding	https://localhost/CentranFeedsService/ WebHttpBinding	
Database Settings	Endpoint Contract	ICentranFeeds	
Security Settings	Contract Configura Operation Endpoint Name Endpoint Address Endpoint Binding	Centran.ICentranFeeds ReadAuditRecordHTML	
Input / Output File Settings		SyndicationFeed_RSS_Text_LockErrors	
Centran Status		SyndicationFeed_RSS_Text_LockEvents WebHttpBinding_ICentranFeeds	
Web XML Service Settings		http://localhost/CentranFeedsService/ WebHttpBinding	
Web JSON Service Settings	Endpoint Contract	ICentranFeeds	
Web RSS Feed Settings	Contract Configura Operation	Centran.ICentranFeeds ReadAuditRecordHTML	
Centran Agent Settings	operation	SyndicationFeed_RSS_Text_LockErrors	
Centran Event Log		SyndicationFeed_RSS_Text_LockEvents	
Agent Connections			
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	Dogument	Number 2101.0513 Rev. G 08/17 CenTran® 5 Getting Started Guide	

# View CenTran Agent Settings

### CenTran 5 Getting Started Guide

The CenTran Agent settings are configured in the **sytem.serviceModel** section of the CenTran service configuration file. The resultant web service based on the settings can be viewed while the CenTran service is processing transactions.

Click on the CenTran Agent Settings tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

Certificates	Centran Agent Setting	s	
Service Security			
Service	Name	Value	
Service	Endpoint Name	WSHttpBinding_ICentranAgent	
USB Keybox Setup	Endpoint Address	https://localhost/CentranAgentService/soap/	
Dista dist	Endpoint Binding	WSHttpBinding	
Database Settings	Endpoint Contract	ICentranAgent	
Security Settings	Contract Configura	Centran.ICentranAgent	
	Operation	Version	
Input / Output File Settings		LockRemoteStatus	
Centran Status		LockRemoteDownloadAudits	
		LockRemoteEvaluateEvent	
Web XML Service Settings	Endpoint Name	WSHttpBinding_ICentranAgent	
Web JSON Service Settings	Endpoint Address	http://localhost/CentranAgentService/soap/	_
Web 556W Service Settings	Endpoint Binding	WSHttpBinding	=
Web RSS Feed Settings	Endpoint Contract	ICentranAgent	
C		Centran.ICentranAgent	
Centran Agent Settings	Operation	Version	
Centran Event Log		LockRemoteStatus	
	-	LockRemoteDownloadAudits	
Agent Connections		LockRemoteEvaluateEvent	
	Endpoint Name	WebHttpBinding_ICentranAgent	
	Endpoint Address	https://localhost/CentranAgentService/rest/	
	Endpoint Binding	WebHttpBinding	
	Endpoint Contract	ICentranAgent	
	Contract Configura	Centran.ICentranAgent Version	
	Operation	version LockRemoteStatus	
		LockRemoteDownloadAudits	
	Endnaint Name	LockRemoteEvaluateEvent	
	Endpoint Name	WebHttpBinding_ICentranAgent	
	Endpoint Address Endpoint Binding	http://localhost/CentranAgentService/rest/ WebHttpBinding	

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## View Event Log

### **CenTran 5 Getting Started Guide**

Click on the CenTran Event Log tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

ertificates C	entran E	vent Log		6 ++•?	P 🛃 ings S <u>a</u> ve As	2 Refresh	Load More
ervice Security			L		ings save As	Kenesh	Load More
ogging	Row ID		Lock	Description			^
- 333	62	2017-09-18 11:		Centran Event - Read Keybox In	2	-	
ervice	61	2017-09-18 11:		Centran Event - Read Keybox In	stall Key (fai		
	60	2017-09-18 11:		Centran Event - Started Process	ing (failed)		E
SB Keybox Setup	59	2017-09-15 12:		Centran Event - Stopped Proces	ssing		
atabase Settings	58	2017-09-15 09:		Centran Event - Stopped Proces	sing		
	57	2017-09-15 09:		Centran Event - Stopped Proces	sing		
ecurity Settings	56	2017-09-14 16:		Centran Event - Stopped Proces	sing		
nput / Output File Settings	55	2017-09-14 16:		Centran Event - Stopped Proces	ssing		
iput / Output File Settings	54	2017-09-14 15:		Centran Event - Stopped Proces	ssing		
entran Status	53	2017-09-14 15:		Centran Event - Stopped Proces	sing		
	52	2017-09-14 09:		Centran Event - Stopped Proces	sing		
/eb XML Service Settings	51	2017-09-14 09:		Centran Event - Stopped Proces	sing		
/eb JSON Service Settings	50	2017-09-14 09:		Centran Event - Stopped Proces	2		
seb soor voervice octaings	49	2017-09-14 09:		Centran Event - Stopped Proces	-		
/eb RSS Feed Settings	48	2017-09-14 09:		Centran Event - Stopped Proces	-		
	47	2017-09-14 09:		Centran Event - Stopped Proces	-		
entran Agent Settings	46	2017-09-14 09:		Centran Event - Stopped Proces	2		
entran Event Log	45	2017-09-14 09:		Centran Event - Stopped Proces	-		
g	44	2017-09-13 13:		Centran Event - Stopped Proces	-		
gent Connections	44 43	2017-09-13 13:		Centran Event - Stopped Proces	-		

The CenTran Management interface loads event log audits 100 at a time. To load additional audits for viewing, click on the Load More button.

You can also save the CenTran event log to an HTML file. Click on the **Save As** button to save the event log. This will display a save file dialog to allow you to choose the file to save to. The entire event log will be saved to the file.

The CenTran event log is limited in size based on the settings you made in the CenTran service configuration file. Once the event log reaches the limit you set, it will delete the oldest audits to remain within the limit when new audits are added. This occurs based off of the granularity you set in the configuration file. The event log will be allowed to grow slightly larger than the set limit based off of the granularity size used to regulate how often the check is made. Click on the **Settings** button to change these settings.

See Setup CenTran Event Logging for information on changing these settings.

Additional information is available in the CenTran event log registered with the operating system. Service start and stop events are recorded there. Additionally, if internal errors occur within CenTran, the description of the error is recorded there also. This can be accessed by opening the administrative tools section of the control panel for your computer. Under that is an item labled **Event Viewer**. Open the **Event Viewer**, and you will see a CenTran event log under the application and services event logs section.

Also, additional information is available in the Windows Communication Foundation (WCF) diagnostic output set up from the CenTran configuration file. The default settings from the CenTran configuration file creates a diagnostic output file for Windows Communication Foundation (WCF) events, named **WcfServiceTrace.svclog**. This file will be created within the application directory the CenTran service is installed to. This file can be viewed using the Microsoft Service Trace Viewer (SvcTraceViewer.exe). Double clicking on the file will automatically open the file under the Microsoft Service Trace Viewer.

The Microsoft Service Trace Viewer is available as a free download within the Windows Platform SDK.

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## View CenTran Agent Persistent Connections

### CenTran 5 Getting Started Guide

Click on the Agent Connections tab on the CenTran Configuration Manager:

You should see the following tab page displayed by the CenTran Configuration Manager:

🚺 Centran Configuration Ma	anager 5.3.0.4136 (64-Bit)			-	- 🗆 X
Certificates	Centran Agent Persistent Connections				Refresh
Service Security					
Service	Device ID	Agent Type	Version	IP Address	Last Update
USB Keybox Setup	LockSerialNumber:1000098 KeyBoxSerialNumber:01625F9412000080	Cencon Lock Cencon KeyBox	5.03.00.4134 2017-07-07 20:00:00 (DST) 5.03.00.4134 2017-07-07 20:00:00 (DST)	10.108.6.132:61599 10.108.6.132:61594	2017-07-14 12: 2017-07-14 12:
Database Settings					
Security Settings					
Input / Output File Settings					
Centran Status					
Web XML Service Settings					
Web JSON Service Settings					
Web RSS Feed Settings					
Centran Agent Settings					
Centran Event Log					
Agent Connections					
	<				>

The CenTran agents use persistent connections from each agent to CenTran to avoid issues with network firewalls. Connections from client systems to a server are generally permitted by firewalls, however connections initiated from outside the firewall are denied. To allow CenTran to do network operations with an agent service, the agent services set up persistent connections that are identified by the lock or keybox. CenTran can be commanded to do an operation with a lock or keybox using these identifiers.

If you are not running any firewalls between your client systems (either ATMs or Host PCs) and CenTran, then the CenTran address does not have to be configured with the client system agent services. In this case, the agent services will default to using a direct network address for operations.

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# **Stop Transaction Processing**

### CenTran 5 Getting Started Guide

Click on the CenTran Status tab on the CenTran Configuration Manager.

You should see the following tab page displayed by the CenTran Configuration Manager:

ervice Security ervice ISB Keybox Setup	Is Monitoring For Transaction Files:	
	Is Monitoring For Transaction Files:	Contraction and the fact for the fact of t
ISB Keybox Setup		Centran is event monitoring for received transaction files
	Is Polling For Transaction Files:	Centran is polling for received transaction files
atabase Settings	Is Processing XML Web Requests:	Centran is processing XML web service transaction requests
ecurity Settings	Is Processing JSON Web Requests:	Centran is processing JSON web service transaction requests
nput / Output File Settings	Is Processing Web Feeds Requests:	Centran is processing web feeds requests
entran Status	Is Processing Centran Agent Requests:	Centran is processing Centran Agent requests
	Product Name:	Centran
Veb XML Service Settings	Version:	5.3.0.4135 (64-Bit)
Veb JSON Service Settings	Major Version Number:	5
Veb RSS Feed Settings	Minor Version Number:	3
entran Agent Settings	Maintenance Version Number:	0
entran Event Log	Build Version Number:	4135
gent Connections	Server Date Time (UTC):	2017-07-14T15:06:19.447Z
	Server Date Time (Local):	2017-07-14T11:06:19.447-04:00
	Server Time Zone Bias:	-04:00
		Start Transaction Processing
		Star Taranatian December
		Stop Transaction Processing

Click on the Stop Transaction Processing button. You should see the following message dialog displayed:





Certificates	Centran Status				
Service Security					
Service	Is Monitoring For Transaction Files:	Centran is event monitoring for received transaction files			
USB Keybox Setup	Is Polling For Transaction Files:	Centran is polling for received transaction files Centran is processing XML web service transaction requests			
Database Settings	Is Processing XML Web Requests:				
Security Settings	Is Processing JSON Web Requests:	Centran is processing JSON web service transaction requests			
nput / Output File Settings	Is Processing Web Feeds Requests:	Centran is processing web feeds requests			
Centran Status	Is Processing Centran Agent Requests:	Centran is processing Centran Agent requests			
	Product Name:	Centran			
Web XML Service Settings	Version: Centran Management	5.3.0.4135 (64-Bit) 83			
Web JSON Service Settings	Major Ver				
Web RSS Feed Settings	_ Minor Ver	ccessfully stopped processing transactions!			
Centran Agent Settings		ccessiuily stopped processing transactions:			
Centran Event Log	Build Vers				
Agent Connections	Server Dat	ОК			
	Server Dat	-04:00			
	Server Time Zone Blas:	-04:00			
		Start Transaction Processing			
		Stop Transaction Processing			
e message dialog <b>OK</b> bu	tton.				
e message dialog <b>OK</b> bu	tton. ge displayed by the CenTran Configurat	tion Manager:			
		tion Manager:			

Certificates	Centran Status	
Service Security		
Service	Is Monitoring For Transaction Files:	Centran is not event monitoring for received transaction files
USB Keybox Setup	Is Polling For Transaction Files:	Centran is not polling for received transaction files
Database Settings	Is Processing XML Web Requests:	Centran is not processing XML web service transaction requests
Security Settings	Is Processing JSON Web Requests:	Centran is not processing JSON web service transaction requests
Input / Output File Settings	Is Processing Web Feeds Requests:	Centran is not processing web feeds requests
Centran Status	Is Processing Centran Agent Requests:	Centran is not processing Centran Agent requests
Web XML Service Settings	Product Name:	Centran
Web JSON Service Settings	Version:	5.3.0.4135 (64-Bit)
	Major Version Number:	5
Web RSS Feed Settings	Minor Version Number:	3
Centran Agent Settings	Maintenance Version Number:	0
Centran Event Log	Build Version Number:	4135
Agent Connections	Server Date Time (UTC):	2017-07-14T15:06:19.447Z
	Server Date Time (Local):	2017-07-14T11:06:19.447-04:00
	Server Time Zone Bias:	-04:00
		Start Transaction Processing
		Stop Transaction Processing

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# Configure the CenTran Service using Web Management Interface

### CenTran 5 Getting Started Guide

The web browser CenTran Management interface supports remotely managing a running CenTran service. To manage a running CenTran service, you must have already set up the appropriate CenTran configuration file settings and certificates. You must have also installed and started the CenTran service.

### Managing the CenTran service:

The following sections describe setting up and managing the CenTran service using the web browser CenTran Management interface:

- Log on to CenTran Management
- Setup Keybox
- <u>Select ODBC Database Connection</u>
- <u>Set Company Number</u>
- <u>Set File Settings</u>
- Start Transaction Processing
- <u>View Web Service XML Settings</u>
- <u>View Web Service JSON Settings</u>
- <u>View Web RSS Feed Settings</u>
- <u>View CenTran Agent Settings</u>
- <u>View CenTran Event Log</u>
- <u>View CenTran Agent Persistent Connections</u>
- <u>Stop Transaction Processing</u>

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## Log on to CenTran Management

### **CenTran 5 Getting Started Guide**

Note: To access the CenTran Management interface in a web browser, the CenTran service must be installed and started.

Your web browser must support HTML5 and CSS3. This includes the following browsers:

- 1. Internet Explorer 9 or higher
- 2. Firefox 10 or higher
- 3. Google Chrome 16 or higher
- 4. Apple Safari 5 or higher

If you are using Internet Explorer, you must have compatibility mode for intranet sites turned off under the Tools menu. Press Alt-T to open the tools menu in Internet Explorer to get to this setting.

The URL of the CenTran web management interface is of the form:

#### https://centran\_host\_server\_name/CentranManagement/index.htm

You will need to replace the centran\_host\_server\_name in the URL with the name you gave the CenTran Web Service Certificate you created earlier.

Open the URL in your preferred web browser, and you should see a dialog similar to the following:

Windows Security           The server 10.108.6.90 at requires a username and password.	
User name Password Remember my credentials	
OK Cancel	

Enter the user name and password specified in the <u>CenTran Management Web Access</u> section of the Service Security tab in the CenTran Configuration Manager and select **OK**. The default user name is **admin**. The default password is **password**.

You should see the following in your web browser:

KARA	CenTran Manag	ement
CenTran Status	CenTran Status	
USB Keybox Setup		
Database Settings	Is Monitoring For Transaction Files:	Centran is not event monitoring for received transaction files
Security Settings	Is Polling For Transaction Files:	Centran is not polling for received transaction files
Input / Output File Settings	Is Processing Web XML Requests:	Centran is not processing web XML service transaction requests
Web XML Service Settings	Is Processing Web JSON Requests:	Centran is not processing web JSON service transaction requests
	Is Processing Web Feeds Requests:	Centran is not processing web feeds requests
Web JSON Service Settings	Is Processing CenTran Agent Request	
Web RSS Feed Settings	Product Name: Version:	Centran 5.2.0.3568 (64-Bit BETA)
CenTran Agent Settings	Major Version Number:	5
CenTran Event Log	Minor Version Number:	2
-	Maintenance Version Number: Build Version Number:	0 3568
Agent Connections	Server Date Time (UTC):	2014-10-27T19:00:47.452Z
	Server Date Time (Local):	2014-10-27T15:00:47.452-04:00
	Server Time Zone Bias:	-04:00
		Start Transaction Processing
	· · · · · · · · · · · · · · · · · · ·	

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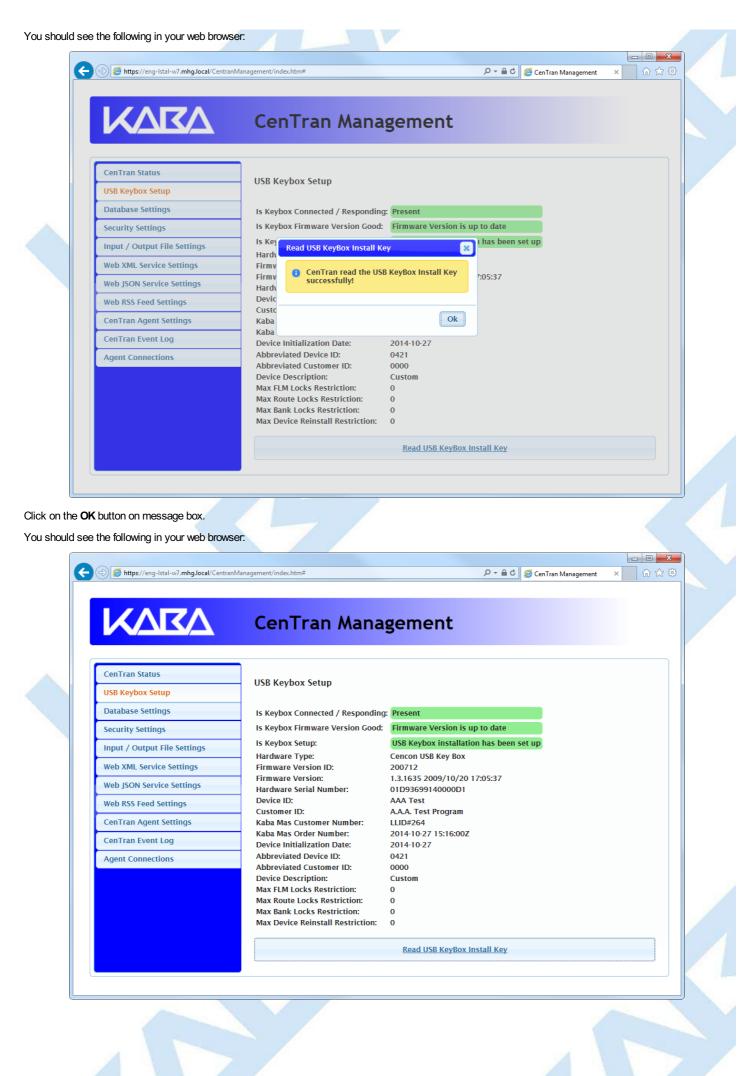
# Setup Keybox

### **CenTran 5 Getting Started Guide**

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the USB Keybox Setup tab on the left side:

You should see the following in your web browser:





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# Select ODBC Database Connection

### **CenTran 5 Getting Started Guide**

#### **Important Note**

CenTran no longer runs under the permissions of the logged on user. It has been changed to run as a background service on the host server you install it on, and is independent of who is logged on. The CenTran service will run in the background even if no one is logged onto the host server.

By default, the CenTran service runs logged on under a **Local System** account. This gives it access to resources and settings on the host server you install it on. However, the **Local System** account only has access to the host server, not to resources on your network.

If the CenTran service is configured to run logged onto the default Local System account, you will need to use SQL authentication for CenTran to access the SQL Server database.

If the CenTran service is configured to run logged onto an account configured for it on your network domain, then that account must have administrative privileges on the host server CenTran is on.

If you use Windows authentication for CenTran's database authentication, then the account CenTran is logged onto must be a network domain account and have authorization to access the SQL Server database.

You can view and edit the CenTran service settings from the Microsoft Management Console:

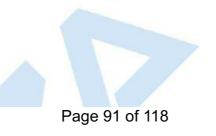
- Open the Start Menu.
- Right click on Computer.
- Select Manage from the displayed context menu. You must have administrative privileges.
- The Computer Management console will be displayed. Expand the Services and Applications section on the left side.
- Select Services from the Services and Applications section.
- Locate Centran from the list of services. Right click on Centran and select Properties from the context menu.
- A service Properties dialog will be displayed. Select the Log On tab to examine the account the service is set up to log on as.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Database Settings tab on the left side:

You should see the following in your web browser:

enTran Status			
ISB Keybox Setup	Open Database Connectivity (ODB	C) Database Settings	
Database Settings	Data Source Name:		
ecurity Settings	User ID:		
nput / Output File Settings	Is Database Administrator:	The current user is not a database administrator	
	Is Database System Administrator: Default Schema Name:	The current user is not a database system administrator	
Veb XML Service Settings	Database Management System Name:		
Veb JSON Service Settings	Database Management System Version: Server Name:		
Veb RSS Feed Settings	Database Name:		
CenTran Agent Settings	Instance Name: Is Case Sensitive:	The database is not configured to be case sensitive	
CenTran Event Log		The database is not comigared to be case sensitive	
gent Connections		Select ODBC Data Source	

Click on the Select ODBC Data Source button. You should see the following dialog displayed:



			nent/index.htm#	<u>۵</u> + ۵		
		Select ODBC Data Source			×	
		Place calact the ODPC data	source you want to use. The us	er ID and password is required for o	data cources that use SOL	
		authentication. The user ID	and password can be omitted if	your database connection uses Win	dows authentication.	
		Database Authentication S	ettings			
		Database Connection User	-			
		Database Connection Pass				
	CenTrai	Database Connection Pass	word:			
	USB Key	Name	Da	scription	Туре	
	Databas	Engtestsrv24gb Test		L Server Native Client 11.0	System	
	Databas	Engtestsrv24gb Test SQL		L Server Native Client 11.0	System	
	Security	Engtestsrv24gb TestData10		L Server Native Client 11.0	System	
	Input /	Engtestsrv24gb TestData11		L Server Native Client 11.0	System	
	mput /	Engtestsrv24gb Testdata12		L Server Native Client 11.0	System	
	Web XM	Engtestsrv24gb TestData6		L Server Native Client 11.0	System	
	Web JSC	Engtestsrv24gb TestData6 SQ	-	L Server Native Client 11.0	System	
	Web J30	Engtestsrv24gb Testdata8		L Server Native Client 11.0	System	
	Web RS	Engtestsrv24gb TestData9		L Server Native Client 11.0	System	
	CenTra	Engtestsrv24gb TestFrenchCe		L Server Native Client 11.0	System	
		Engtestsrv24gb testsetupdb		L Server Native Client 11.0	System	
	CenTrai	Engtestsrv24gb testsetupdb2		L Server Native Client 11.0	System	
	Agent C	Native Cencon3 local		BC Driver 11 for SQL Server	System	
		Oracle CENCON_DATA	Ora	acle in instantclient_11_2	System	
		Oracle LAN SYSTEM	Ora	acle in instantclient_11_2	System	
		Oracle TESTDATA6	Ora	acle in instantclient_11_2	System	
		Oracle TESTDATA8	Ora	acle in instantclient_11_2	System	
		temp	SQ	L Server Native Client 11.0	System	
		TestData6 Local	OD	BC Driver 11 for SQL Server	System	
		TestData8 local	OD	BC Driver 11 for SQL Server	System	
					Ok Cancel	
	DC databa	a connection you want to	a life out are using COL of	thatiation you will also not	ad to optor a upor name or	
		ith the database connection		thentication, you will also nee	eu lo enller a user name ar	iu passworu io
		in the database connection				
d se	e the follov	ving in your web browser:				
_						
K	🔵 🕘 🥭 http	s://eng-lstal-w7.mhg.local/CentranManager	nent/index.htm#	<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	🖒 <i>ể</i> CenTran Management 🛛 🗙	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				roment		
			Len ran Mana	agement		
	CenTran					

Web RSS Feed Settings     Datatinsta       CenTran Agent Settings     Insta       CenTran Event Log     Is Ca:       Agent Connections     Select ODBC Data Source	stem administrator	Ok to be case so	Database Administrator: Da Select ODBC Data Source ofat tat CenTran set the OD connection success rve tat stat	ttings Is Data ngs Defau Datal ings Dataf Serve Datat gs Instan
--	--------------------	------------------	--	---

KARA	CenTran Manage	ement
CenTran Status	Open Database Connectivity (ODB	C) Database Settings
USB Keybox Setup	open batabase connectivity (obb	c) batabase settings
Database Settings	Data Source Name:	Engtestsrv24gb TestData6 SQL
Security Settings	User ID: Is Database Administrator:	CentranUser The current user is a database administrator
Input / Output File Settings	Is Database System Administrator:	The current user is not a database system administrator
Web XML Service Settings	Default Schema Name: Database Management System Name:	dbo Microsoft SQL Server
Web JSON Service Settings	Database Management System Version:	
Web RSS Feed Settings	Server Name: Database Name:	ENGTESTSRV24GB TestData6
CenTran Agent Settings	Instance Name:	MSSQLSERVER
CenTran Event Log	Is Case Sensitive:	The database is not configured to be case sensitive
Agent Connections		Select ODBC Data Source
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# Set Company Number

### CenTran 5 Getting Started Guide

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Security Settings tab on the left side:

You should see the following in your web browser:

	Database Settings Security Settings Input / Output File Settings Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings CenTran Agent Settings CenTran Event Log	Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present: Keybox Security atch Cencon Configuration: Company Number Match Cencon Configuration:	Present Firmware Version is up to date USB Keybox installation has been set up Database Connection is set Company number has not been set Cencon system configuration data is present in the database USB Keybox matches Cencon system configuration Company number does not match Cencon system configuration
	Agent Connections	Se	et Company Number
the S	et Company Number button. Y	ou should see the following dialog displayed	
the So	(-) Mttps://eng-lstal-w7.mhg.local/Centrat	nManagement/index.htm#	ローローズ クィームで @ CenTran Management × 100 公 33
the Se	(-) Mttps://eng-lstal-w7.mhg.local/Centrat		ローローズ クィームで @ CenTran Management × 100 公 33
the S		nManagement/index.htm≠ CenTran Managem Security Settings	P ← L C @ CenTran Management × û û ☆ 3 ent
the So	Attps://eng-Istal-w7.mhg.local/Central	Management/index.htm≢ CenTran Managem Security Settings Is Keybox Connected / Responding:	P - E C CenTran Management × û 2 3 ent Present sion is up to date
the So	Attps://eng-lstal-w7.mhg.local/Central   CenTran Status   USB Keybox Setup   Database Settings	Management/index.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Key Is Key Set Company Number Is Key	P - D C CenTran Management × D 2 2 3 P - D C CenTran Management × D 2 2 3 Present Present sion is up to date nstallation has been set up
he So	https://eng-Istal-w7.mhg.local/Central   CenTran Status   USB Keybox Setup   Database Settings   Security Settings	Management/index.htm≠ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Key Is Key Is Key Is Key Set Company Number Is Co Please enter the company number Is Co	P - D C CenTran Management × D 2 2 3 P - D C CenTran Management × D 2 2 3 Present Present sion is up to date nstallation has been set up
the Si	https://eng-Istal-w7.mhg.local/Central   CenTran Status   USB Keybox Setup   Database Settings   Security Settings   Input / Output File Settings   Web JSON Service Settings	Management/index.htm≠ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Key Is Key Is Key Is Data Please enter the company number Is Data Please enter the company number Secure your Cencon installation	P - D C CenTran Management × D 2 2 3 P - D C CenTran Management × D 2 2 3 Present Present sion is up to date nstallation has been set up rr used to inection is set
C C	Attps://eng-Istal-w7.mhg.local/Central   CenTran Status   USB Keybox Setup   Database Settings   Security Settings   Input / Output File Settings   Web XML Service Settings   Web JSON Service Settings   Web RSS Feed Settings	Management/index.htm≠ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Key Is Key Set Company Number Is Key Is Da Is Con Security Settings	P - D C CenTran Management × D 2 2 3 P - D C CenTran Management × D 2 2 3 Present Present sion is up to date nstallation has been set up mection is set iber has not been set
the Si	Attps://eng-Istal-w7.mhg.local/Central   CenTran Status   USB Keybox Setup   Database Settings   Security Settings   Input / Output File Settings   Web XML Service Settings   Web JSON Service Settings   Web RSS Feed Settings   CenTran Agent Settings	Management/index.htm≢ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Key Is Key Is Key Is Da Is Co Is Da Is Co Is Da Keybi Comp	Present Sion is up to date nstallation has been set up rused to nection is set not been set n configuration data is present in the
he Si	Attps://eng-Istal-w7.mhg.local/Central   CenTran Status   USB Keybox Setup   Database Settings   Security Settings   Input / Output File Settings   Web XML Service Settings   Web JSON Service Settings   Web RSS Feed Settings	Management/index.htm≢ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Key Is Key Is Da Is Co Is Da Is Co Is Da Keybi Comp	Present       ×       • </td

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Enter the 4 digit company number you are using with Cencon. This is a sensitive piece of security information that is part your security with the Cencon system. You should record it and keep it in a secure place. The company number you enter for use by the CenTran service must match the one you are using with Cencon.

You should see the following in your web browser:

KARA	<u> </u>	ent	
CenTran Status USB Keybox Setup	Security Settings		
Database Settings	Is Keybox Connected / Responding:	Present	
Security Settings Input / Output File Settings	Is Keyoox Firmware Version Good:	Firmware Version is up to date installation has been set up	
Web XML Service Settings	Set Company Number	nnection is set	
Web JSON Service Settings	Is Col CenTran set the company numb security settings successfully!	em configuration data is present in the	
Web RSS Feed Settings	Is Da	matches Cencon system configuration	
CenTran Agent Settings	Comr Confi	Ok Imber matches Cencon system configuration	
CenTran Event Log	Com		
Agent Connections	Se	et Company Number	
e OK button on message box. see the following in your web brows		P -	
see the following in your web brows			
see the following in your web brows		P マ 量 C 🧟 CenTran Management 🗙 🕼 🏠	
see the following in your web brows	nManagement/index.htm#	P マ 量 C 🧟 CenTran Management 🗙 🕼 🏠	
see the following in your web brows	nManagement/index.htm#	P マ 量 C 🧟 CenTran Management 🗙 🕼 🏠	
see the following in your web brows	Management/index.htm# CenTran Managem Security Settings	ନ କ ଛ ତ 🧟 CenTran Management × 🕠 🏠	
see the following in your web brows	Management/index.htm#	P マ 量 C 🧟 CenTran Management 🗙 🕼 🏠	
see the following in your web brows	Management/index.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup:	P - @ C       @ CenTran Management       X       In       In	
see the following in your web brows	Management/index.htm≠ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good:	P - D C CenTran Management × D 2 ent Present Firmware Version is up to date	
see the following in your web brows	Management/index.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set:	Present         Firmware Version is up to date         USB Keybox installation has been set up         Database Connection is set         Company number is set correctly         Cencon system configuration data is present in the	
see the following in your web brows	Management/indec.htm≠ CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present: Keybox Security atch Cencon Configuration:	P - @ C       @ CenTran Management       X       In       In	
see the following in your web brows	Management/index.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present:	Present         Firmware Version is up to date         USB Keybox installation has been set up         Database Connection is set         Company number is set correctly         Cencon system configuration data is present in the database	
see the following in your web brows	Management/indec.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present: Keybox Security atch Cencon Configuration: Company Number Match Cencon Configuration:	Present         Firmware Version is up to date         USB Keybox installation has been set up         Database Connection is set         Company number is set correctly         Cencon system configuration data is present in the database         USB Keybox matches Cencon system configuration         Company number matches Cencon system configuration	
see the following in your web brows	Management/indec.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present: Keybox Security atch Cencon Configuration: Company Number Match Cencon Configuration:	Present   Present Firmware Version is up to date USB Keybox installation has been set up Database Connection is set Company number is set correctly Cencon system configuration data is present in the database USB Keybox matches Cencon system configuration	
see the following in your web brows	Management/indec.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present: Keybox Security atch Cencon Configuration: Company Number Match Cencon Configuration:	Present         Firmware Version is up to date         USB Keybox installation has been set up         Database Connection is set         Company number is set correctly         Cencon system configuration data is present in the database         USB Keybox matches Cencon system configuration         Company number matches Cencon system configuration	
see the following in your web brows	Management/indec.htm# CenTran Managem Security Settings Is Keybox Connected / Responding: Is Keybox Firmware Version Good: Is Keybox Setup: Is Database Connection Set: Is Company Number Set: Is Database Configuration Data Present: Keybox Security atch Cencon Configuration: Company Number Match Cencon Configuration:	Present         Firmware Version is up to date         USB Keybox installation has been set up         Database Connection is set         Company number is set correctly         Cencon system configuration data is present in the database         USB Keybox matches Cencon system configuration         Company number matches Cencon system configuration	

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## Set File Settings

### **CenTran 5 Getting Started Guide**

#### **Important Note**

CenTran no longer runs under the permissions of the logged on user. It has been changed to run as a background service on the host server you install it on, and is independent of who is logged on. The CenTran service will run in the background even if no one is logged onto the host server.

By default, the CenTran service runs logged on under a **Local System** account. This gives it access to resources and settings on the host server you install it on. However, the **Local System** account only has access to the host server, not to resources on your network.

If you are configuring CenTran to access a shared file location on your network, not on the host server, then you will need to set up CenTran with a network domain account.

The account you set up CenTran to run logged onto must have administrative privileges on the host server CenTran is on. It must also have read / write access to the directories you are using for file input / output.

In this case, the file directories must be identified by UNC (Universal Naming Convention) paths: "\\server\share\path\"

You can not use mapped drive letters for network paths for a service. Mapped drive letters for network paths are specific to an account. They are not accessable from other accounts. If you set up a mapped drive letter for your logged on account, that does not mean that CenTran can access it from its account.

You can view and edit the CenTran service settings from the Microsoft Management Console:

- Open the Start Menu.
- Right click on Computer.
- Select Manage from the displayed context menu. You must have administrative privileges.
- The Computer Management console will be displayed. Expand the Services and Applications section on the left side.
- Select Services from the Services and Applications section.
- Locate Centran from the list of services. Right click on Centran and select Properties from the context menu.
- A service Properties dialog will be displayed. Select the Log On tab to examine the account the service is set up to log on as.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Input / Output File Settings tab on the left side:

You should see the following in your web browser:

KARA	CenTran Manage	ement
CenTran Status USB Keybox Setup Database Settings	Input / Output File Settings	
Security Settings Input / Output File Settings	Input File Extension: Delay Before Reading Input Files (Milliseconds): Output File Directory:	10
Web XML Service Settings Web JSON Service Settings	Output File Extension: Save Diagnostic Information: Diagnostic File Path:	Not saving diagnostics information.
Web RSS Feed Settings CenTran Agent Settings	Default Dispatcher ID: Force Default Dispatcher To Be Used:	CENTRAN Not forcing default dispatcher ID to be used for transaction processing.
CenTran Event Log Agent Connections		Set File Settings
	Se	et Default Dispatcher Settings

2. You will need to setup an input directory and an output directory for CenTran to receive file transactions and return the response.

- Input Directory The input directory is the directory where CenTran reads transactions being sent to it. It looks in this directory for files representing lock transactions to be processed. You will need to create an input directory that you want to use for CenTran to listen for incoming file transactions.
- Input File Extension The input file extension defined here is the file extension CenTran looks for when attempting to find transaction input files
   Page 97 of 118

in the input directory that has been identified. If an input file extension is not set, then the CenTran service will attempt to read any file placed in the input directory.

• Input File Delay - The delay before reading next input transaction file setting is intended to allow a delay after detecting a file and before reading it. It is possible for an error in reading the input file to occur if it has not been completely written to the input directory yet. This delay allows the write of the input file to complete before the CenTran service reads the file. This delay begins when a transaction file is detected in the input directory by CenTran.

#### Note

CenTran can also be used with an input file delay of zero. In this case, CenTran will attempt to detect file events for when the file is finished being written. CenTran will then immediately process the transaction file without a delay. If your file server supports CenTran detecting the file events, then an input file delay of zero can improve your CenTran performance.

- Output Directory The output directory is the directory where CenTran places the output files containing the results of processed transactions. This directory can be the same directory as the one used to contain input files. If the two directories are the same, then the files must have different extensions assigned. You will need to create an output directory that you want to use for CenTran to write output files to.
- Output File Extension The output file extension is the file extension placed by CenTran at the end of output file names. The file names will be the same as the input file names, except for the file extension. If an output file extension is set, then that extension will be placed at the end of output files produced by CenTran.

Note

CenTran has been validated against the SuperSpeed RamDisk Plus software. This software allows you to use a ram disk as the file location used for transferring CenTran transaction files. This improves performance and speed of transferring CenTran transaction files, and eliminates hard drive wear from transferring CenTran transaction files. This software is available at <a href="http://www.superspeed.com/desktop/ramdisk.php">http://www.superspeed.com/desktop/ramdisk.php</a>. SuperSpeed RamDisk is a Microsoft Certified software.

3. Click on the Set File Settings button. You should see the following dialog displayed:

	Set File Settings	
CenTran Status	Set the settings	
USB Keybox Setup	Please enter the file settings for CenTran to process transactions.	
Database Settings	Input File Settings	
Security Settings	Input File Directory: R:\CentranIn\ Input File Extension: tip	×
Input / Output File Settings	Input File Delay	
Web XML Service Settings	(Milliseconds):	
Web JSON Service Settings	Output File Settings	n.
Web RSS Feed Settings	Output File Directory: R:\CentranOut\	
	Output File Extension: top	to be used for transaction
CenTran Agent Settings	Diagnostic Settings	
CenTran Event Log	Enable Diagnostic Information: Disabled Enabled	
Agent Connections	Diagnostic File	
	Ok	Cancel

4. Enter the input and output directories and extensions for the CenTran service to process files. Optionally, you can enable CenTran to record diagnostic output to a file, but this slows down performance. Once you have entered the settings you want to use, click on the **OK** button.

You should see the following in your web browser:

KARA	CenTran Manage	ment		
CenTran Status				
USB Keybox Setup	Input / Output File Settings			
Database Settings	Input File Directory:	R:\CentranIn\		
Security Settings	Input File Extension: Delay Before Reading Input Files	tip 10		
Input / Output File Settings	(Milli: Outpr Set File Settings	- TU - X		
Web XML Service Settings	Outpi	tout file		
Web JSON Service Settings	Save Save Settings successfully!	iput me	nostics information.	
Web RSS Feed Settings	Defai			
CenTran Agent Settings	Force	Ok	ult dispatcher ID to be used for trans	action
CenTran Event Log				
Agent Connections		<u>Set File Settir</u>	ngs	
	35	<u>t Default Dispatch</u>	er setungs	
the <b>OK</b> button on message box.				
the <b>OK</b> button on message box. uld see the following in your web bro		ment	P ← 🗎 C 🧭 CenTran Management	- • •
uld see the following in your web bro	<sup>Vanagement/indec.htm≠</sup>	ment	P ~ ■ C @ CenTran Management >	
uld see the following in your web bro	Management/ïndex.htm≇	ment	P ~ ≜ C Ø CenTran Management →	
uld see the following in your web bro	Management/Indec.htm≠ CenTran Manage Input / Output File Settings Input File Directory:	R:\CentranIn\	P ← 🗎 C CenTran Management →	
uld see the following in your web bro	Vanagement/index.htm# CenTran Manage Input / Output File Settings Input File Directory: Input File Extension: Delay Before Reading Input Files	R:\CentranIn\ tip	P ~ ≜ C @ CenTran Management →	
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uld see the following in your web brooks Method Sectors and Secto	Vanagement/indec.htm≠ <b>CenTran Manage</b> Input / Output File Settings Input File Directory: Input File Directory: Delay Before Reading Input Files (Milliseconds): Output File Directory:	R:\Centranin\ tip 10 R:\CentranOut\ top		
uld see the following in your web bro Centran Status USB Keybox Setup Database Settings Security Settings Input / Output File Settings Web XML Service Settings	Vanagement/indec.htm≠ CenTran Manage Input / Output File Settings Input File Directory: Input File Extension: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Directory: Duput File Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag	gnostics information.	< û ☆
Uld see the following in your web brook Centran Status USB Keybox Setup Database Settings Security Settings Input / Output File Settings Web JSON Service Settings	Vanagement/indec.htm≠ CenTran Manage Input / Output File Settings Input File Directory: Input File Extension: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Extension: Save Diagnostic Information: Diagnostic File Path:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag		< û ☆
Uld see the following in your web brook Centran Status USB Keybox Setup Database Settings Security Settings Input / Output File Settings Web XML Service Settings Web SSN Service Settings Web RSS Feed Settings	Vanagement/indec.htm≠ CenTran Manage Input / Output File Settings Input File Directory: Input File Extension: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Directory: Duput File Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag CENTRAN Not forcing def processing.	gnostics information.	< û ☆
Uld see the following in your web brook CenTran Status USB Keybox Setup Database Settings Security Settings Input / Output File Settings Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings Web RSS Feed Settings	Vanagement/indec.htm≠ CenTran Manage Input / Output File Settings Input File Directory: Input File Extension: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Directory: Duput File Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory: Directory:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag CENTRAN Not forcing def	gnostics information.	< û ☆
Uld see the following in your web broken Centran Status USB Keybox Setup Database Settings Security Settings Neb XML Service Settings Web JSON Service Settings Web JSON Service Settings Web RSS Feed Settings Centran Agent Settings Centran Event Log	Vanagement/indec.htm≠ CeenTran Manage Input / Output File Settings Input File Directory: Input File Directory: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Directory: Output File Directory: Output File Directory: Diagnostic Information: Diagnostic File Path: Default Dispatcher ID: Force Default Dispatcher To Be Used:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag CENTRAN Not forcing def processing.	gnostics information. fault dispatcher ID to be used for trans	< û ☆
Uld see the following in your web broken Centran Status USB Keybox Setup Database Settings Security Settings Neb XML Service Settings Web JSON Service Settings Web JSON Service Settings Web RSS Feed Settings Centran Agent Settings Centran Event Log	Vanagement/indec.htm≠ CeenTran Manage Input / Output File Settings Input File Directory: Input File Directory: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Directory: Output File Directory: Output File Directory: Diagnostic Information: Diagnostic File Path: Default Dispatcher ID: Force Default Dispatcher To Be Used:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag CENTRAN Not forcing def processing.	gnostics information. fault dispatcher ID to be used for trans	< û ☆
Uld see the following in your web broken Centran Status USB Keybox Setup Database Settings Security Settings Neb XML Service Settings Web JSON Service Settings Web JSON Service Settings Web RSS Feed Settings Centran Agent Settings Centran Event Log	Vanagement/indec.htm≠ CeenTran Manage Input / Output File Settings Input File Directory: Input File Directory: Delay Before Reading Input Files (Milliseconds): Output File Directory: Output File Directory: Output File Directory: Output File Directory: Diagnostic Information: Diagnostic File Path: Default Dispatcher ID: Force Default Dispatcher To Be Used:	R:\CentranIn\ tip 10 R:\CentranOut\ top Not saving diag CENTRAN Not forcing def processing.	gnostics information. fault dispatcher ID to be used for trans	< û ☆

6. You will also need to set the default dispatcher ID to be used for the CenTran service when a dispatcher ID is not available for a transaction being processed. Optionally, you can force this dispatcher ID to be used instead of the dispather ID associated with a transaction.

CenTran Status	
USB Keybox Setup	Input / Output File Settings
Database Settings	Input File Directory: R:\CentranIn\
Security Settings	Set Default Dispatcher Settings
Input / Output File Settings	Please enter the default dispatcher settings for CenTran to process transactions.
Web XML Service Settings	Default Dispatcher Settings
Web JSON Service Settings	Default Dispatcher ID: CENTRAN x n.
Web RSS Feed Settings	Dispatcher ID For Processing Disabled Enabled
CenTran Agent Settings	Transactions: to be used for transaction
CenTran Event Log	Ok Cancel
Agent Connections	
	Set Default Dispatcher Settings

7. Enter the default dispatcher ID you want to use. This default dispatcher ID must have been already set up under Cencon, and be present in the database. The role that the default dispatcher is assigned to will effect what authorizations the default dispatcher has. Once you have entered the default dispather ID you want to use, click on the **OK** button.

You should see the following in your web browser:

USB Keybox Setu	D					
			Output File Settings			
Database Setting	js		le Directory: le Extension:	R:\CentranIn\ tip		
Security Setting	;	Delay Be	efore Reading Input Files	10		
Input / Output F	ile Settings	Outpi	Set Default Dispatcher Settin	ngs 🛛 🗙	]	
Web XML Service	Settings	Outpi Save	6 CenTran set the defaul	t dispatcher	nostics information.	
Web JSON Servic	e Settings	Diagr	settings successfully!			
Web RSS Feed Se	ttings	Defau			ult dispatcher ID to be used for transaction	
CenTran Agent 9	Settings	Force		Ok	and dispatcher in to be used for transaction	
CenTran Event L	og			Set File Setti	inge	
Agent Connectio	ns			<u>Jet The Jetti</u>	<u>11192</u>	
				Set Default Dispatch	her Settings	

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## **Start Transaction Processing**

CenTran 5 Getting Started Guide

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the CenTran Status tab on the left side:

You should see the following in your web browser:

KARA	CenTran Manag	gement
CenTran Status	CenTran Status	
USB Keybox Setup	Sentral Status	
Database Settings	Is Monitoring For Transaction Files:	Centran is not event monitoring for received transaction files
Security Settings	Is Polling For Transaction Files:	Centran is not polling for received transaction files
Input / Output File Settings	Is Processing Web XML Requests:	Centran is not processing web XML service transaction requests
Web XML Service Settings	Is Processing Web JSON Requests:	Centran is not processing web JSON service transaction requests
Web JSON Service Settings	Is Processing Web Feeds Requests:	Centran is not processing web feeds requests ts: Centran is not processing Centran Agent requests
Web RSS Feed Settings	Product Name:	Centran is not processing Centran Agent requests
	Version:	5.2.0.3568 (64-Bit BETA)
CenTran Agent Settings	Major Version Number:	5
CenTran Event Log	Minor Version Number: Maintenance Version Number:	2
Agent Connections	Build Version Number:	3568
3	Server Date Time (UTC):	2014-10-27T19:00:47.452Z
	Server Date Time (Local):	2014-10-27T15:00:47.452-04:00
	Server Time Zone Bias:	-04:00
		Start Transaction Processing
		Stop Transaction Processing

Click on the Start Transaction Processing button. You should see the following message dialog displayed:

KARA	CenTran Manag	ement		
CenTran Status	CenTran Status			
USB Keybox Setup				
Database Settings	Is Monitoring For Transaction Files:	Centran is event r	monitoring for received transaction file	5
Security Settings	Is Polling For Transaction Files:	Centran is polling	) for received transaction files	
Input / Output File Settings	Is Pro Start Processing Transactions	×	ng web XML service transaction reque	
Web XML Service Settings	Is Pro		ng web JSON service transaction requ	lests
Web JSON Service Settings	Is Prc CenTran has successful processing transactions	ly started !	ng web feeds requests ng Centran Agent requests	
Web RSS Feed Settings	Produ		ng Centrali Agent requests	
CenTran Agent Settings	Versi	Ok	.TA)	
	Majoi Minoi			
CenTran Event Log	Maintenance Version Number: Build Version Number:	0 3568		
Agent Connections	Server Date Time (UTC):	2014-10-28T21:17:	:39.845Z	
	Server Date Time (Local):	2014-10-28T17:17:	:39.845-04:00	
	Server Time Zone Bias:	-04:00		
		Start Transaction P	Processing	
		Stop Transaction P	Processing	

CenTran Status

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CenTran Management

Centrali Status	Cen	Tran	Status	
-----------------	-----	------	--------	--

USB Keybox Setup			
Database Settings	Is Monitoring For Transaction Files:	Centran is event monitoring for received transaction files	
Security Settings	Is Polling For Transaction Files:	Centran is polling for received transaction files	
Input / Output File Settings	Is Processing Web XML Requests:	Centran is processing web XML service transaction requests	
Web XML Service Settings	Is Processing Web JSON Requests:	Centran is processing web JSON service transaction requests	
	Is Processing Web Feeds Requests:	Centran is processing web feeds requests	
Web JSON Service Settings		: Centran is processing Centran Agent requests	
Web RSS Feed Settings	Product Name: Version:	Centran 5.2.0.3568 (64-Bit BETA)	
CenTran Agent Settings	Major Version Number:	5	
CenTran Event Log	Minor Version Number:	2	
	Maintenance Version Number:	0	
Agent Connections	Build Version Number: Server Date Time (UTC):	3568 2014-10-28T21:17:39.845Z	
	Server Date Time (UrC). Server Date Time (Local):	2014-10-28121.17:39.8452	
	Server Time Zone Bias:	-04:00	
	Server Thire Zone blas.	-04.00	
		Start Transaction Processing	
		Stop Transaction Processing	
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	Document Number 2101.0513 Rev. G 08/17 Co	enTran <sup>®</sup> 5 Getting Started Guide	

## **View Web Service XML Settings**

### **CenTran 5 Getting Started Guide**

The web service settings are configured in the **sytem.serviceModel** section of the CenTran service configuration file. The resultant web service based on the settings can be viewed while the CenTran service is processing transactions.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Web XML Service Settings tab on the left side:

You should see the following in your web browser:

KARA	CenTran	Management			
	_				
CenTran Status	Web XML Service S	ettings			
USB Keybox Setup					
Database Settings	Addresses				
Security Settings					
Input / Output File Settings	Name:	Value			
Web XML Service Settings	Endpoint Name:	NetNamedPipeBinding_ICentran			
	Endpoint Address: Endpoint Binding:	net.pipe://localhost/CentranService NetNamedPipeBinding			
Web JSON Service Settings	Endpoint Contract:	ICentran			
Web RSS Feed Settings	Contract Configuration				
CenTran Agent Settings	Operation:	SayHello			
		Version HandleOptions			
CenTran Event Log		LockDispatch			
Agent Connections		LockReassign			
		LockUnassign			
		LockClose			
		LockNamesData LockSerialNumbersData			
		LockUpdate			
		LockRename			
		LockDelete			
		LockInitSAKeyAuditDownload			
		LockReadSAKeyAuditDownload			
		LockQuery			
		LockQueryCount		~	
		LogNamesData			

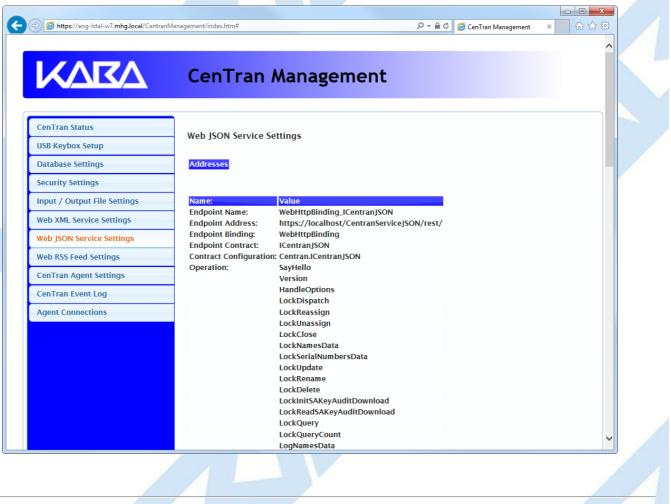
## **View Web Service JSON Settings**

### **CenTran 5 Getting Started Guide**

The web service settings are configured in the **sytem.serviceModel** section of the CenTran service configuration file. The resultant web service based on the settings can be viewed while the CenTran service is processing transactions.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Web JSON Service Settings tab on the left side:

You should see the following in your web browser:



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## **View Web RSS Feed Settings**

### **CenTran 5 Getting Started Guide**

The web rss feed settings are configured in the **sytem.serviceModel** section of the CenTran service configuration file. The resultant web rss feeds based on the settings can be viewed while the CenTran service is processing transactions.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Web RSS Feed Settings tab on the left side:

You should see the following in your web browser:

KARA		5	
CenTran Status	Web RSS Feed Settin	igs	
USB Keybox Setup			
Database Settings	Addresses		
Security Settings			
Input / Output File Settings	Name:	Value	
Web XML Service Settings	Endpoint Name: Endpoint Address:	WebHttpBinding_ICentranFeeds https://localhost/CentranFeedsService/	
Web JSON Service Settings	Endpoint Binding:	WebHttpBinding	
Web RSS Feed Settings	Endpoint Contract: Contract Configuration	ICentranFeeds 1: Centran.ICentranFeeds	
CenTran Agent Settings	Operation:	ReadAuditRecordHTML SyndicationFeed_RSS_Text_LockErrors	
CenTran Event Log		SyndicationFeed_RSS_Text_LockEvents	
Agent Connections	Name: Endpoint Name: Endpoint Address: Endpoint Binding: Endpoint Contract: Contract Configuration Operation:	Value WebHttpBinding_ICentranFeeds http://localhost/CentranFeedsService/ WebHttpBinding ICentranFeeds n: CentranICentranFeeds ReadAuditRecordHTML SyndicationFeed_RSS_Text_LockErrors SyndicationFeed_RSS_Text_LockEvents	
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## **View CenTran Agent Settings**

### **CenTran 5 Getting Started Guide**

The CenTran Agent settings are configured in the **sytem.serviceModel** section of the CenTran service configuration file. The resultant web service based on the settings can be viewed while the CenTran service is processing transactions.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the CenTran Agent Settings tab on the left side:

You should see the following in your web browser:

CenTran Status JSB Keybox Setup	CenTran Agent Settir	ngs			
Database Settings	Addresses				
Security Settings					
nput / Output File Settings	Name:	Value			
Veb XML Service Settings	Endpoint Name: Endpoint Address:	WSHttpBinding_ICentranAgent https://localhost/CentranAgentService/soap/	,		
Veb JSON Service Settings	Endpoint Binding:	WSHttpBinding			
Veb RSS Feed Settings	Endpoint Contract: Contract Configuration:	ICentranAgent : Centran.ICentranAgent			
CenTran Agent Settings	Operation:	Version LockRemoteStatus			
CenTran Event Log		LockRemoteDownloadAudits LockRemoteEvaluateEvent			
Agent Connections		Lockneinoteevaluateevent			
	Name:	Value	l i i i i i i i i i i i i i i i i i i i		
		WSHttpBinding_ICentranAgent http://localhost/CentranAgentService/soap/			
	Endpoint Address: Endpoint Binding:	WSHttpBinding			
	Endpoint Contract:	ICentranAgent			
	Contract Configuration:	: Centran.ICentranAgent			
	Operation:	Version			
		LockRemoteStatus			
		LockRemoteDownloadAudits			
		LockRemoteEvaluateEvent			
				~	

### View Event Log

### **CenTran 5 Getting Started Guide**

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the CenTran Event Log tab on the left side:

You should see the following in your web browser:

KARA	CenTran M	anagement	
CenTran Status	CenTran Event Log	Refresh	
USB Keybox Setup Database Settings	Row Time Lask		
	ID TIME LOCK	Description	
Security Settings	2014-10- 28 22222 17:20:55	Centran Event - Accepted Agent Persistent Connection:	
Input / Output File Settings	17:20:55 (DST)	LockSerialNumber:1000116 IP: 10.108.6.103	
Web XML Service Settings	2014-10-		
Web JSON Service Settings	22221 28 17:20:55 (DST)	Centran Event - Accepted Agent Persistent Connection: LockSerialNumber:1158563 IP: 10.108.6.104	
Web RSS Feed Settings	2014-10-		
CenTran Agent Settings	22220 28 17:20:54 (DST)	Centran Event - Accepted Agent Persistent Connection: KeyBoxSerialNumber:01E164991400008B IP: 10.108.6.103	
CenTran Event Log	2014-10-		
Agent Connections	22219 28 17:20:54 (DST)	Centran Event - Started Processing	
	2014-10- 28 17:20:41 (DST)	Centran Event - Stopped Processing	
	2014-10- 22217 28 17:20:10 (DST)	Centran Event - Stopped Processing	
	2014-10- 22216 28 17:17:40 (DST)	Centran Event - Accepted Agent Persistent Connection: KeyBoxSerialNumber:01E164991400008B IP: 10.108.6.103	
	2014-10- 22215 28 17:17:40	Centran Event - Accepted Agent Persistent Connection: LockSerialNumber:1158563 IP: 192.168.56.1	

The CenTran Management interface loads event log audits 100 at a time. To load additional audits for viewing, scroll to the bottom of the current audits. Additional audits will be loaded automatically, and the scroll position will be moved up.

The CenTran event log is limited in size based on the settings you made in the CenTran service configuration file. Once the event log reaches the limit you set, it will delete the oldest audits to remain within the limit when new audits are added. This occurs based off of the granularity you set in the configuration file. The event log will be allowed to grow slightly larger than the set limit based off of the granularity size used to regulate how often the check is made.

Additional information is available in the CenTran event log registered with the operating system. Service start and stop events are recorded there. Additionally, if internal errors occur within CenTran, the description of the error is recorded there also. This can be accessed by opening the administrative tools section of the control panel for your computer. Under that is an item labled **Event Viewer**. Open the **Event Viewer**, and you will see a CenTran event log under the application and services event logs section.

Also, additional information is available in the Windows Communiction Foundation (WCF) diagnostic output set up from the CenTran configuration file. The default settings from the CenTran configuration file creates a diagnostic output file for Windows Communication Foundation (WCF) events, named **WcfServiceTrace.svclog**. This file will be created within the application directory the CenTran service is installed to. This file can be viewed using the Microsoft Service Trace Viewer (SvcTraceViewer.exe). Double clicking on the file will automatically open the file under the Microsoft Service Trace Viewer.

The Microsoft Service Trace Viewer is available as a free download within the Windows Platform SDK.

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## View CenTran Agent Persistent Connections

### CenTran 5 Getting Started Guide

CenTran maintains persistent network connections with CenTran Agent installations configured to connect with your current CenTran installation. These connections can be displayed.

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the Agent Connections tab on the left side:

You should see a similar list to the following in your web browser:

	KAKA	CenTran Manage	men	it			
	CenTran Status	ConTron Agont Persistent Connect				Defeat	
	USB Keybox Setup	CenTran Agent Persistent Connecti	ons			<u>Refresh</u>	
	Database Settings	Device ID	Agent	Version	IP Address	Last Update	2
	Security Settings	LockforialNumber 1000116	Type Cencon	5.2.0.3564 (BETA)	10 108 6 102:6024	2014-10-28	
	Input / Output File Settings	LockSerialNumber:1000116	Lock	2014-10-13 20:00:00 (DST)	10.108.6.103:6024:	(DST)	
	Web XML Service Settings	KeyBoxSerialNumber:01E164991400008	Cencon KeyBox	5.1.0.3488 2014-05- 15 20:00:00 (DST)	10.108.6.103:60244		
	Web JSON Service Settings		Cencon	5.2.0.3564 (BETA)	10 100 0 10 4 5 100	(DST) 2014-10-28	
	Web RSS Feed Settings	LockSerialNumber:1158563	Lock	2014-10-13 20:00:00 (DST)	10.108.6.104:5139:	(DST)	
	CenTran Agent Settings						
	CenTran Event Log						
	Agent Connections						
an refresh	the display of current CenTran	Agent persistent connections by clickin	ig on the	e <b>Refresh</b> button.			

## **Stop Transaction Processing**

CenTran 5 Getting Started Guide

You will need to have already logged onto the CenTran Management interface in your web browser. Click on the CenTran Status tab on the left side:

You should see the following in your web browser:

	CenTran Manage	ement	
CenTran Status			
USB Keybox Setup	CenTran Status		
Database Settings	Is Monitoring For Transaction Files:	Centran is event monitoring for received transaction files	
Security Settings	Is Polling For Transaction Files:	Central is polling for received transaction files	
Input / Output File Settings	Is Processing Web XML Requests:	Centran is processing web XML service transaction requests	
Web XML Service Settings	Is Processing Web JSON Requests:	Centran is processing web JSON service transaction requests	
	Is Processing Web Feeds Requests:	Centran is processing web feeds requests	
Web JSON Service Settings	Is Processing CenTran Agent Requests	Centran is processing Centran Agent requests	
Web RSS Feed Settings	Product Name:	Centran	
CenTran Agent Settings	Version:	5.2.0.3568 (64-Bit BETA)	
Central Agent Settings	Major Version Number: Minor Version Number:	5	
CenTran Event Log	Maintenance Version Number:	2	
Agent Connections	Build Version Number:	3568	
Agent connections	Server Date Time (UTC):	2014-10-28T21:17:39.845Z	
	Server Date Time (Local):	2014-10-28T17:17:39.845-04:00	
	Server Time Zone Bias:	-04:00	
		Start Transaction Processing	
	h		

Click on the Stop Transaction Processing button. You should see the following message dialog displayed:





KARA	CenTran Manag	ement	
CenTran Status	٦		
USB Keybox Setup	CenTran Status		
Database Settings	Is Monitoring For Transaction Files:	Centran is not event monitoring for received transact	ion files
Security Settings	Is Polling For Transaction Files:	Centran is not polling for received transaction files	
Input / Output File Settings	Is Processing Web XML Requests:	Centran is not processing web XML service transaction	n requests
Web XML Service Settings	Is Processing Web JSON Requests:	Centran is not processing web JSON service transaction	on requests
Web JSON Service Settings	Is Pro Stop Processing Transactions		
Web RSS Feed Settings	Is Pro		
CenTran Agent Settings	Versi processing transactions	.TA)	
CenTran Event Log	Minor		
Agent Connections	Build	Ok	
Agent connections	Server Date Time (UTC):	2014-10-28T21:37:30.409Z 2014-10-28T17:37:30.409-04:00	
	Server Date Time (Local): Server Time Zone Bias:	-04:00	
		Start Transaction Processing	
		Stop Transaction Processing	
essage dialog <b>OK</b> button. e the following in your web brows	er.		
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e the following in your web brows	Vanagement/index.htm≠ CenTran Manag CenTran Status Is Monitoring For Transaction Files: Is Polling For Transaction Files: Is Processing Web XML Requests: Is Processing Web JSON Requests:	ement Centran is not event monitoring for received transact Centran is not polling for received transaction files Centran is not processing web XML service transactio Centran is not processing web JSON service transactio	× 命念感
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e the following in your web brows (a) Mttps://eng-Istal-w7.mhg.local/Centran CenTran Status USB Keybox Setup Database Settings Security Settings Input / Output File Settings Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings Web RSS Feed Settings CenTran Agent Settings	Vanagement/index.htm≠ CenTran Manag CenTran Status Is Monitoring For Transaction Files: Is Polling For Transaction Files: Is Processing Web XML Requests: Is Processing Web JSON Requests: Is Processing Web Feeds Requests: Is Processing Web Feeds Requests: Is Processing CenTran Agent Request Product Name:	ement Centran is not event monitoring for received transact Centran is not polling for received transaction files Centran is not processing web XML service transactio Centran is not processing web JSON service transactii Centran is not processing web feeds requests Scentran is not processing Centran Agent requests Centran	× 命念感
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e the following in your web brows (a) Mttps://eng-Istal-w7.mhg.local/Centran CenTran Status USB Keybox Setup Database Settings Security Settings Input / Output File Settings Web XML Service Settings Web JSON Service Settings Web RSS Feed Settings Web RSS Feed Settings CenTran Agent Settings	Vanagement/index.htm# CenTran Manag CenTran Status Is Monitoring For Transaction Files: Is Polling For Transaction Files: Is Processing Web XML Requests: Is Processing Web JSON Requests: Is Processing Web Feeds Requests: Is Processing Web Feeds Requests: Is Processing Web Feeds Requests: Is Processing CenTran Agent Request Product Name: Version: Major Version Number: Maintenance Version Number: Build Version Number: Build Version Number: Server Date Time (UTC):	Centran is not event monitoring for received transaction Centran is not polling for received transaction files Centran is not polling for received transaction files Centran is not processing web XML service transaction Centran is not processing web JSON service transaction Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.2.0.3568 (64-Bit BETA) 5 2 0 3568 2014-10-27T19:00:47.452Z	× 命念感
e the following in your web brows	Vanagement/index.htm# CenTran Manag CenTran Status Is Monitoring For Transaction Files: Is Polling For Transaction Files: Is Processing Web XML Requests: Is Processing Web JSON Requests: Is Processing Web Feeds Requests: Is Processing Web Feeds Requests: Is Processing CenTran Agent Request Product Name: Version: Major Version Number: Maintenance Version Number:	Centran is not event monitoring for received transaction         Centran is not polling for received transaction files         Centran is not processing web XML service transaction         Centran is not processing web JSON service transaction         Centran is not processing web JSON service transaction         Centran is not processing web feeds requests         S:         Centran         S.2.0.3568 (64-Bit BETA)         S         0         3568	× 命念感
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e the following in your web brows	Vanagement/index.htm# CenTran Manag CenTran Status Is Monitoring For Transaction Files: Is Polling For Transaction Files: Is Polling For Transaction Files: Is Processing Web JSON Requests: Is Processing Web JSON Requests: Is Processing CenTran Agent Request Product Name: Version: Major Version Number: Minor Version Number: Minor Version Number: Build Version Number: Build Version Number: Server Date Time (UTC): Server Date Time (Local):	Centran is not event monitoring for received transact Centran is not polling for received transaction files Centran is not processing web XML service transactio Centran is not processing web JSON service transactio Centran is not processing web feeds requests Centran is not processing Centran Agent requests Centran 5.2.0.3568 (64-Bit BETA) 5 2 0 3568 2014-10-27T19:00:47.452Z 2014-10-27T15:00:47.452-04:00 -04:00	× 命念感

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# Stop / Uninstall the CenTran Service

CenTran 5 Getting Started Guide

To stop and uninstall the CenTran service, select **CenTran Configuration Manager** from the CenTran entry under the Windows Start menu. You should see the following application:

Service Security	_ Service
Logging	Centran Service Status: Service is running.
Service	
USB Keybox Setup	- <u>Centran Management (Web Browser)</u>
Database Settings	- The Centran service must be installed and started with the Windows operating system to be available for use.
Security Settings	The Centran Service can be configured to change the endpoints (URLs) used for the web service and the management web interface. The Centran service must be restarted for changes to these settings to take effect.
Input / Output File Settings	Install Start Stop Uninstall Settings
Centran Status	
Web XML Service Settings	
Web JSON Service Settings	
Web RSS Feed Settings	
Centran Agent Settings	
Centran Event Log	
Agent Connections	
<b>Stop</b> button to stop the C	CenTran service with the operating system.
e <b>Stop</b> button to stop the C	CenTran service with the operating system.
e Stop button to stop the C	CenTran service with the operating system.
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e Stop button to stop the C	CenTran service with the operating system.

Certificates					
	Service				
Service Security	Contras San 1. St. 1	Constanting to strange of			
Logging	Centran Service Status:	Service is stopped.			
Service	The Centran service mu	st be installed and started with t	he Windows operating sy	/stem to be available	for use.
USB Keybox Setup	The Centran Service car	n be configured to change the er face. The Centran service must	ndpoints (URLs) used for	the web service and	the
Database Settings					ake effect. <b>-</b>
Security Settings	Install	Start Stop	Uninstall	Settings	
Input / Output File Settings					
Centran Status					
Web XML Service Settings					
Web JSON Service Settings					
Web RSS Feed Settings					
Centran Agent Settings					
Centran Event Log					
Agent Connections					
e <b>Uninstall</b> button to uninst	all the CenTran service from	the operating system.			
e Uninstall button to uninst	all the CenTran service from	the operating system.			
e Uninstall button to uninst	all the CenTran service from	the operating system.			
e Uninstall button to uninst	all the CenTran service from	the operating system.			
e Uninstall button to uninst	all the CenTran service from	the operating system.			
e Uninstall button to uninst	all the CenTran service from	the operating system.			

Certificates	Service
Service Security	
Logging	Centran Service Status: Service is not installed.
Service	The Centran service must be installed and started with the Windows operating system to be available for use
USB Keybox Setup	The Centran Service ran be configured to change the endpoints (URLs) used for the web service and the
Database Settings	management web interface. The Centran service must be restarted for changes to these settings to take effe
Security Settings	Install Start Stop Uninstall Settings
Input / Output File Settings	
Centran Status	
Web XML Service Settings	
Web JSON Service Settings	
Web RSS Feed Settings	
Centran Agent Settings	
Centran Event Log	
Agent Connections	
	-
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(C)

# Appendix A - Beta Expiration

### CenTran 5 Getting Started Guide

The beta versions of CenTran, the ATM Agents and the Keybox Agents will be assigned an initial expiration date of 180 days after the date of creation by dormakaba.

When CenTran or an agent is within 60 days of its expiration date entries will be posted to the database audit log documenting the situation. CenTran and the agents will continue to function.

When CenTran expires an entry will be posted to the database audit log identifying the event. An expired CenTran will not process transaction requests but will return an error condition to the transaction requestor. An entry will be posted to the database audit log documenting the transaction that failed due to an expired CenTran.

In a future Beta release the customer will be provided with the ability to reset the expiration date, and the date on which the warnings begin, for CenTran and the Agents with help from dormakaba Technical Support.

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## Appendix B - Troubleshooting: Check Certificates

### CenTran Version 5 Getting Started Guide

The following items can be checked for CenTran Certificates:

#### CenTran Configuration File:

The CenTran configuration file section for **behaviors** >> **serviceBehaviors** >> **serviceCertificate**. has the entries for what certificate is going to be used by CenTran. See <u>serviceCertificate of serviceCredentials</u> for a detailed description of these values.

The certificate can be identified by name or by thumbprint. By default it is set up by the CenTran Configuration Manager by thumbprint.

#### CenTran Configuration Manager:

Open the CenTran Configuration Manager.

Check the Self Signed Certificates tab.

The **CenTran Web Service Server Certificate** will show a certificate name. This name must exactly match how the web browser is being used to access CenTran, or the certificate will not match.

Certificate Source:

The certificate can be self signed, or from a certificate authority. If the certificate for the CenTran web service is from a network certificate authority, any clients will automatically trust the CenTran certificate.

If the certificate is self signed, then to establish a chain of trust, that certificate or certificate authority must be installed manually with client systems.

If the certificate is self signed and created on Windows Server 2003, the level and size of the encryption of the certificates do not match the requirement for SSL. To do SSL off of Windows Server 2003, you will need to generate proper certificates from a system running Windows 7 or higher, or get certificates from a network certificate authority.

#### • Exporting CenTran Certificate:

From the start menu, select Accessories and right click on Command Prompt. Select Run as administrator.

The command prompt should have the title Administrator: Command Prompt.

Type **mmc** at the administrator command prompt.

You should see a window that says Console1 - [Console Root]

Click File >> Add / Remove Snap In.... A dialog labeled Add or Remove Snap-ins should be displayed.

Select Certificates and click Add. Select Computer account and then Local Computer from the dialogs that are displayed. Click Finished.

Click OK in the Add or Remove Snap-ins dialog.

Under Certificates (Local Computer), expand Trusted Root Certification Authorities, and expand Certificates.

Select the certificate matching the Certificate Authority used to generate the self signed certificate used for CenTran. Right click on the certificate and select All Tasks >> Export....

The Certificate Export Wizard is displayed. Export the certificate without the private key. Use the default settings to export the certificate to a .CER file.

#### Client System Self Signed Certificate Install:

Open up a console with the Certificates snap in as administrator as described above, on the client computer system that is going to be accessing the CenTran web service.

Under Certificates (Local Computer), expand Trusted Root Certification Authorities, and expand Certificates.

Right click on Certificates and select All Tasks >> Import....

Import the certificate .CER file you exported from the CenTran server.

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# Appendix C - Troubleshooting: Check Run Time Error CenTran Version 5 Getting Started Guide

The following places can be checked to determine the nature of a run time error from a transaction with CenTran:

#### CenTran Configuration Manager:

Open the CenTran Configuration Manager.

Check if the CenTran service is installed and running under the **Service** tab. If the service is not installed and running, go to the Getting Started Guide to set up CenTran.

Check if the CenTran service is processing transactions under the **CenTran Status** tab. If CenTran is properly set up but processing has stopped, attempt stopping and restarting the service.

Check the CenTran Event Log for indications of the nature of the error.

System Event Log:

Open Control Panel >> Adminstrative Tools

Select Event Viewer, right click and select Run as administrator.

Look for the section labeled Summary of Administrative Events. Expand the category that called Error. Look for for an entry with a Source labeled CenTran Service, and double click it.

Examine the errors list there. If CenTran has had internal exceptions, the details should be listed as entries here.

Windows Communications Foundation (WCF) Trace Log:

Open the CenTran install directory. Look for a file named WcfServiceTrace.svclog. Double click on this file to open it using the Microsoft Service Trace Viewer.

See Service Trace Viewer Tool (SvcTraceViewer.exe) on the Microsoft web site for details. This tool is available with the Microsoft SDK install.

Examine the trace for errors. This will let you know if CenTran received a web service request and what processing occurred. If the web service request was not received, then a browser or network configuration issue is blocking the requests.



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