

AudioCodes Application License Server

Version 1.0

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Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used.

Document Revision Record

LTRT	Description
00877	Added Installing Components section. Updated Downloading the License Server Tool from ShareFile.

Documentation Feedback

AudioCodes continually strives to produce high quality documentation. If you have any comments (suggestions or errors) regarding this document, please fill out the Documentation Feedback form on our website at <https://online.audiocodes.com/documentation-feedback>.

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1 Introduction

This document describes how to install the AudioCodes Application License Server environment on an external dedicated server. This server will manage the license for the various AudioCodes applications such as SIP Phone Support (SPS) server, Fax Server and Auto Attendant IVR server.

1.1 Installing License Server Externally Benefits

The benefits of installing the License server *externally* include the following:

- In a multi-server system, it's more efficient to manage, configure and control the license environment from a single point.
- Managing license resources from a single point is dynamic. If updating multi-users is required, for example, it's simpler to do it from one location.
- It enables management and maintenance of Virtual Machines without damaging the license policy e.g., avoiding license cloning.
- If the License server is unavailable (e.g., the server locks, or is powered off), our applications still have a grace period of five days, where they can continue to run. During this time, the License server can be made available.

1.2 Minimum Server Specifications

Before you install the license, make sure you comply with the following minimum server specifications:

- 2 Cores 2.0 GHz
- 4G RAM
- 40GB Hard Disk Drive
- Operating System: Windows® 2012R2, 2016 and 2019

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2 Installing Components

The procedures below describe how to install the Application Server components.

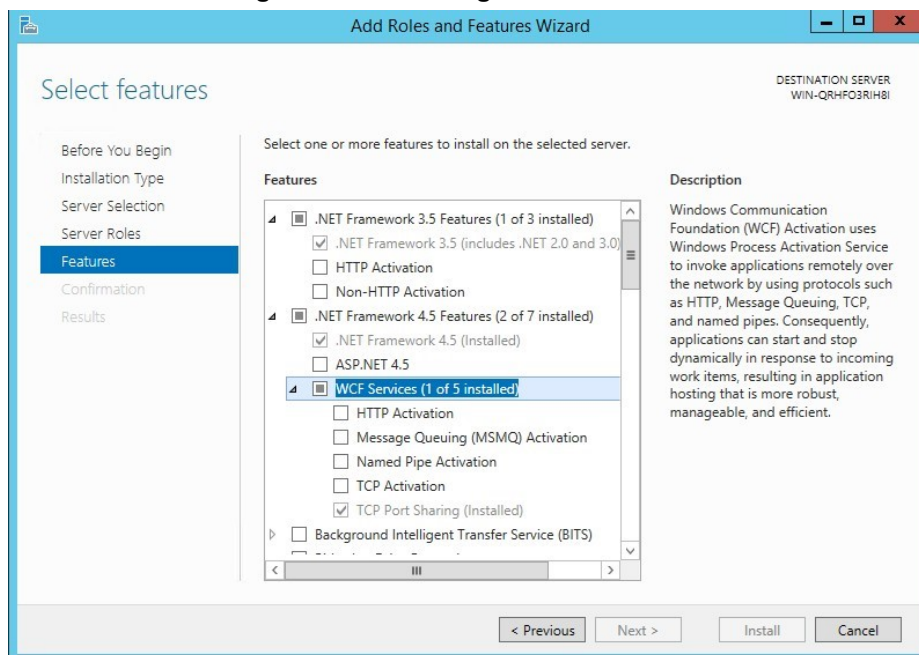
2.1 Installing .NET Framework

This section describes how to install .NET Framework.

➤ **To install the .Net Framework:**

1. Open the Server Manager on the SPS server.
2. Navigate to **Features > Add Features**; the Add Features Wizard is displayed:

Figure 2-1: Installing .NET Framework



3. Select the **.NET Framework 3.5 Features** check box, and then click the **Install** button.
4. For Windows 2012 R2, select the **.Net Framework 4.5** feature as well.
5. For Windows 2016, select the **.Net Framework 4.6** feature as well.
6. For Windows 2019, select the **.Net Framework 4.7** feature as well.



Notes:

- For **SPS for Skype for Business Server 2019**, you need to install **.Net 4.7.2** or later.
- For **Net 3.5 for Windows 2016/2019**, when installing **Net 3.5**, you need to select the **Specify an alternate source path** option to select a path to the side-by-side (sxs) folder of the Windows 2016/2019 installation.

2.2 Installing Media Foundation on Windows 2012 R2, Windows 2016 and Windows 2019

This section describes how to install Media Foundation on Windows 2012 R2, Windows 2016 and Windows 2019.

- **To install Media Foundation for Windows 2012 R2, Windows 2016 and Windows 2019:**
 1. For Windows 2012 R2, Windows 2016 and Windows 2019 servers only, install Microsoft Media Foundation by opening the Microsoft Server Manager.
 2. Navigate to **Add Features**.
 3. Enable the **Media Foundation** feature.

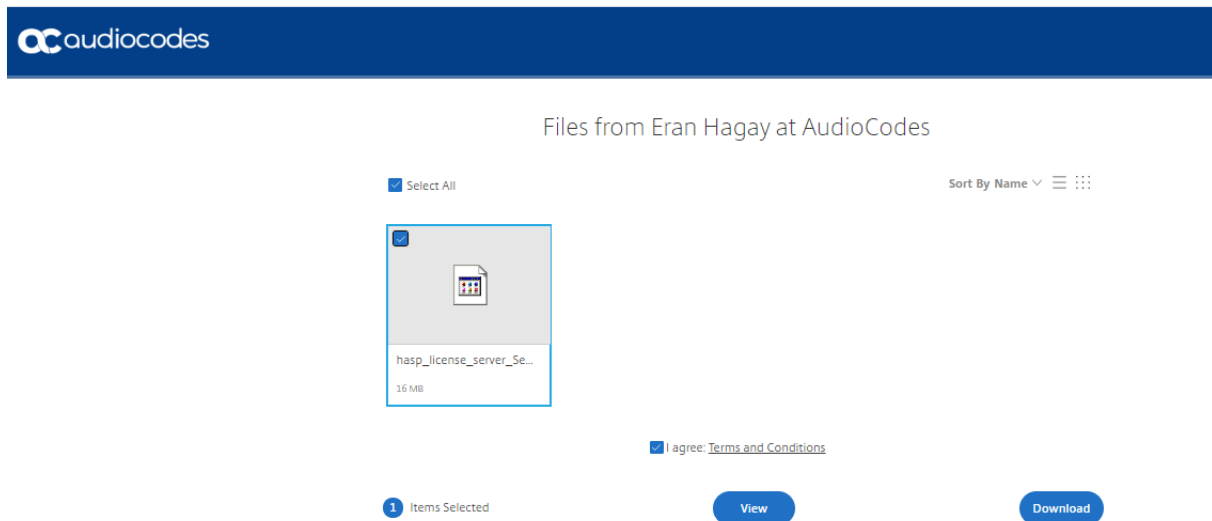
3 Downloading the License Server Tool from ShareFile

The procedure below describes how to download the License Server tool from ShareFile.

➤ **To download the License Server tool from ShareFile:**

1. Open the URL <https://audiocodes.sharefile.com/d-sd7a7e8fb9254e52a>.
2. Select the *hasp_license_server_Setup_x.x.x.x.exe* file, and then click **Download**.

Figure 3-1: Downloading the License Server Tool



3. Confirm that the file has been successfully downloaded.

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4 Installing the License Environment on an External License Server

The procedure below describes how to install the license environment on an external license server.

➤ **To install the license environment on an external license server:**

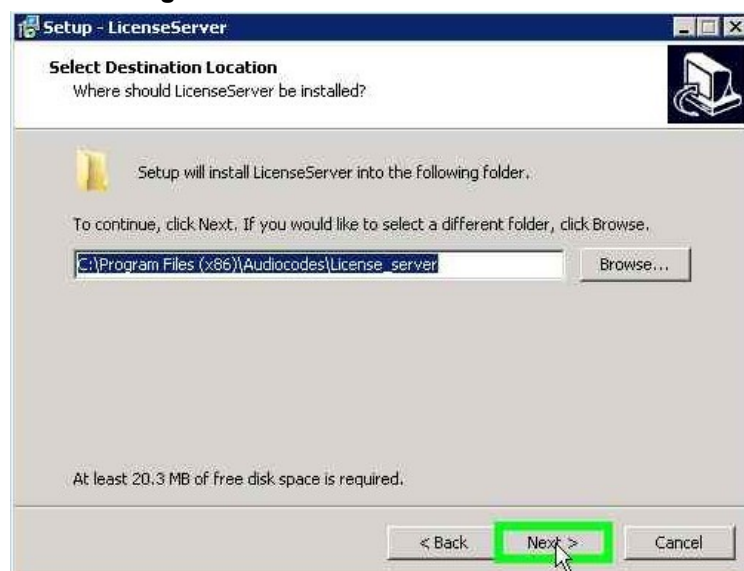
1. Double-click the **hasp_license_server_Setup** file; the following screen appears:

Figure 4-1: Welcome to the License Server Setup Wizard



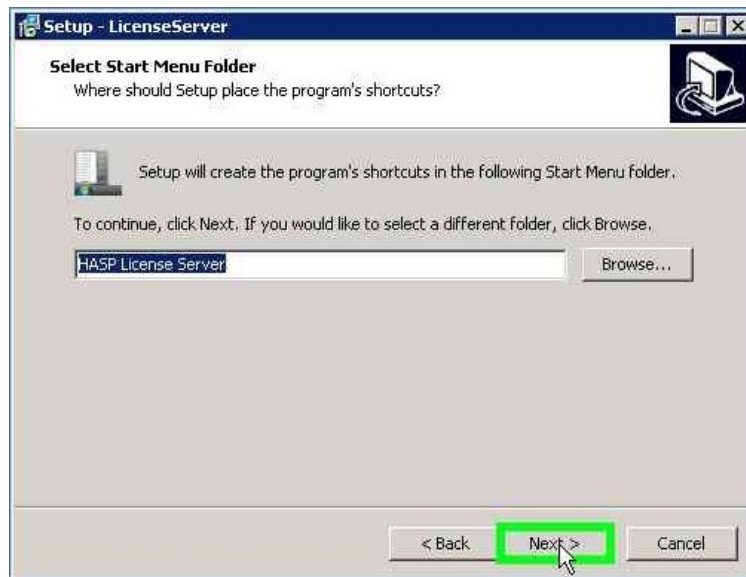
2. Click **Next**; the following screen appears:

Figure 4-2: Select Destination Location



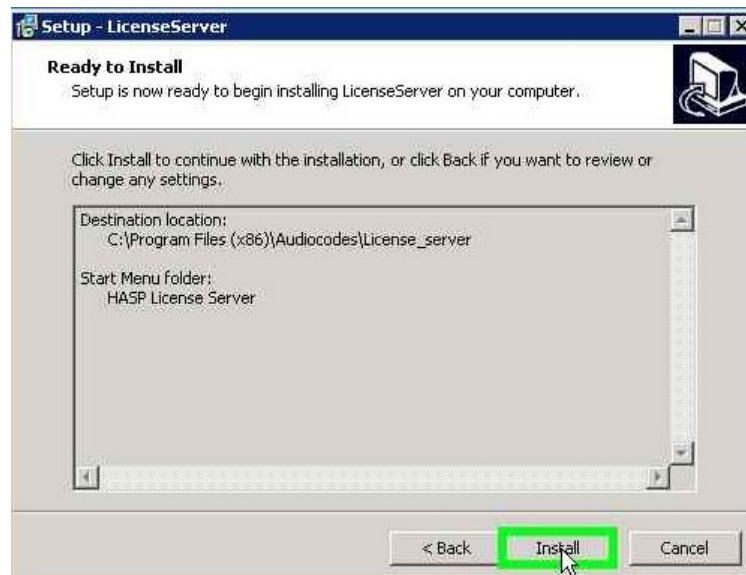
3. Click **Next**; the following screen appears:

Figure 4-3: Select Start Menu Folder



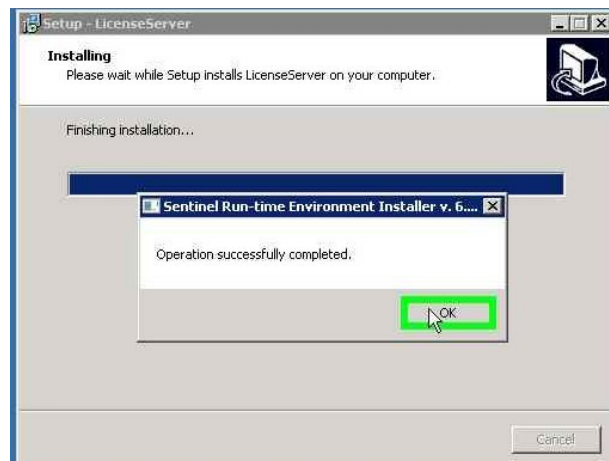
4. Click **Next**; the following screen appears:

Figure 4-4: Ready to Install



5. Click **Install**; the following screen appears:

Figure 4-5: Installing



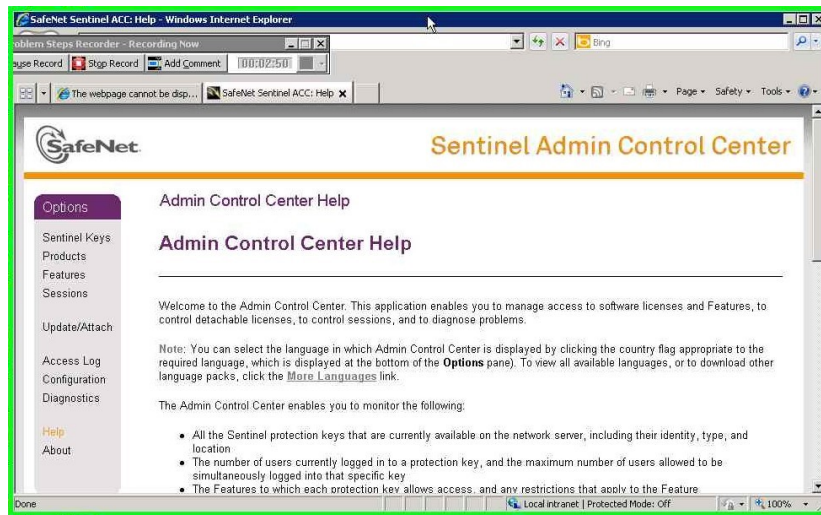
6. When the "Operation successfully completed" message appears, click **OK**; the following screen appears:

Figure 4-6: Completing the License Server Setup Wizard



7. Click **Finish**.
8. Verify that the license environment opens in your default browser, by navigating to **<http://localhost:1947>**; the following screen appears:

Figure 4-7: Admin Control Center Help



4.1 Configuring the External License Server

The procedure below describes how to configure the external license server.

➤ **To configure the external license server:**


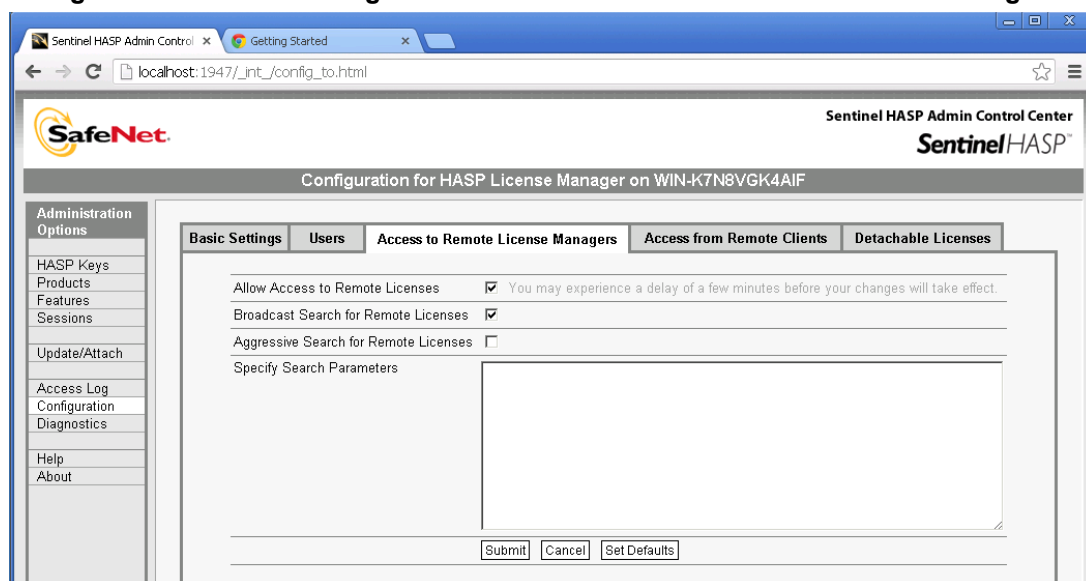
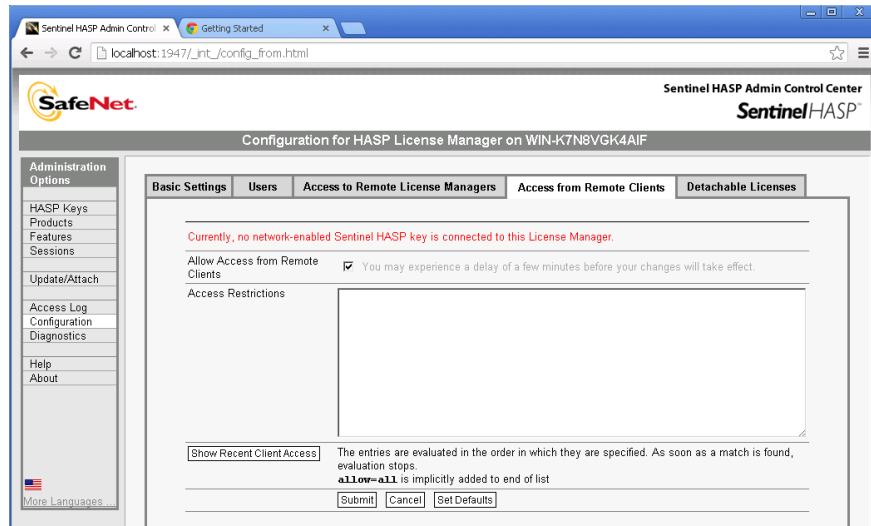
1. On the server on which you installed the license server, start a web browser and navigate to **http://localhost:1947/** or click the HASP Web Configuration icon  that was placed on the desktop as a result of the installation above.
2. In the main screen that opens, under 'Administration Options', click the Configuration option.
3. In the license configuration screen, select the Access to Remote License Managers tab.

Figure 4-8: License Configuration Screen - Access to Remote License Managers



4. Select the Allow Access to Remote License and Broadcast Search for Remote Licenses options.
5. Click the **Access from Remote Clients** tab.
6. Select the **Allow Access from Remote Clients** option.
7. Click **Submit**; the following screen appears:

Figure 4-9: Allowing Access from Remote Clients



4.2 Obtaining a Valid License

At this stage, you need to apply the new license to the License server environment. The following steps need to be performed:

1. Create a System ID – Customer to Vendor (C2V) file from the installed system as described in Section 4.2.1 on page 18.
2. Send the System ID and **AudioCodes Purchase Order (PO)** details via email to AudioCodes. This way AudioCodes knows which license to generate for this customer.
3. AudioCodes generates a new license – Vendor to Client (V2C) file and will send it back to you via email
4. Import the V2C File to the License Server.



Note: For more information regarding where to send the System ID (c2v) file, please refer to *License Installation Procedure Fax AA* or *LTRT-00870 SPS License Installation Procedure* guides.

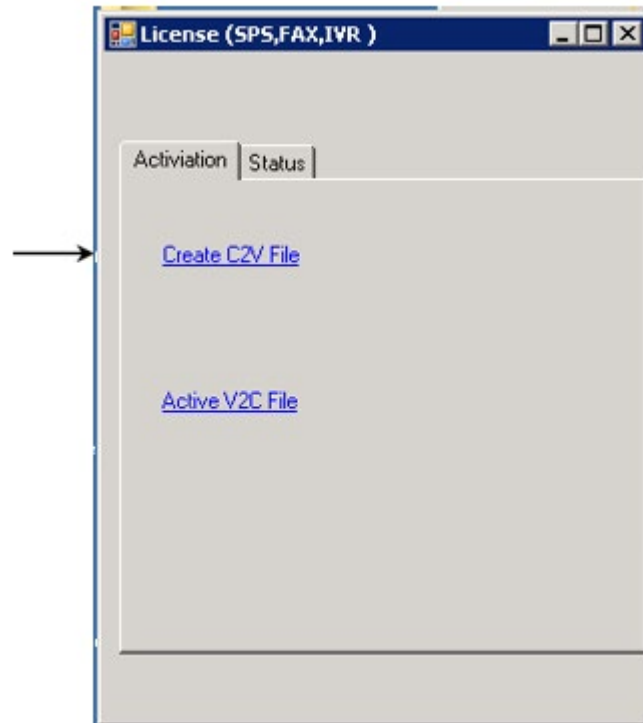
4.2.1 Creating System ID - C2V File

The procedure below describes how to create the System ID - C2V file.

➤ To create a System ID - C2v file:

1. Run the "License Tool" by clicking the  icon on the desktop or navigate to the License page (**Start > Programs > HASP License Server > License Tool**).
2. Click **Create C2V File**.

Figure 4-10: License (SPS, FAX, IVR)



3. Save the C2V file to a temporary directory.
4. Send the C2V file to Audiocodes who will return the V2C (license file) back to you, as per your Purchase Order.

4.2.2 Importing V2C File to License Server

The procedure below describes how to import the V2C file to the License server. The import can be done in either of two ways.

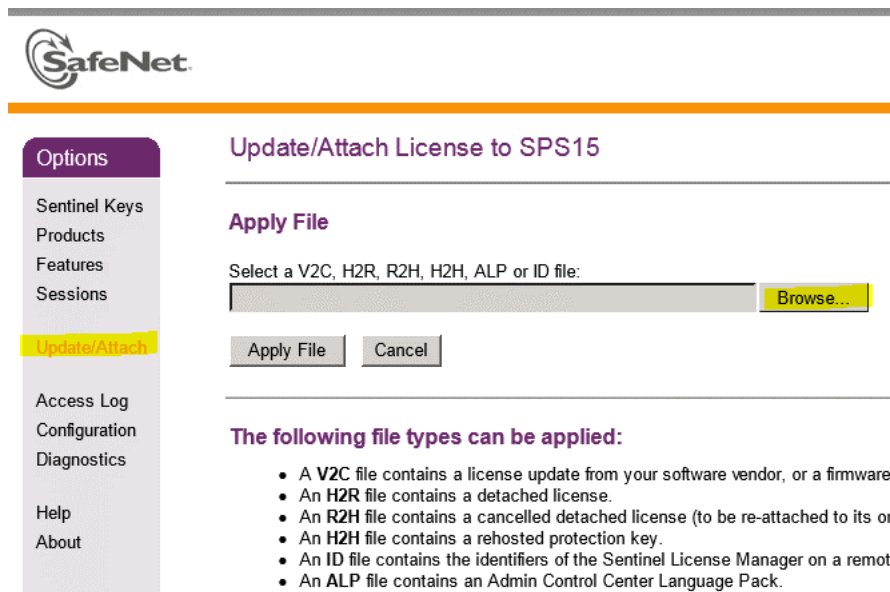
- Update/Attach menu option
- License Tool

4.2.2.1 Option 1 - Update/Attach Menu Option

The procedure below describes how to upload the V2C file to the external license server using the Update/Attach menu option.

- **To upload the V2C file to the external license server using the Update/Attach menu option:**
- 1. On the installed License server, open a web browser and navigate to **http://localhost:1947/**.
- 2. In the main screen that opens, under 'Administration Options', click the **Updated/Attached** menu option.

Figure 4-11: Allowing Access from Remote Clients



- 3. Browse to the V2C file location and click **Apply File**.

4.2.2.2 Option 2 - Using License Tool

The procedure below describes how to upload the V2C file to the external license server using the License Tool.

- **To configure the external license server using License Tool:**


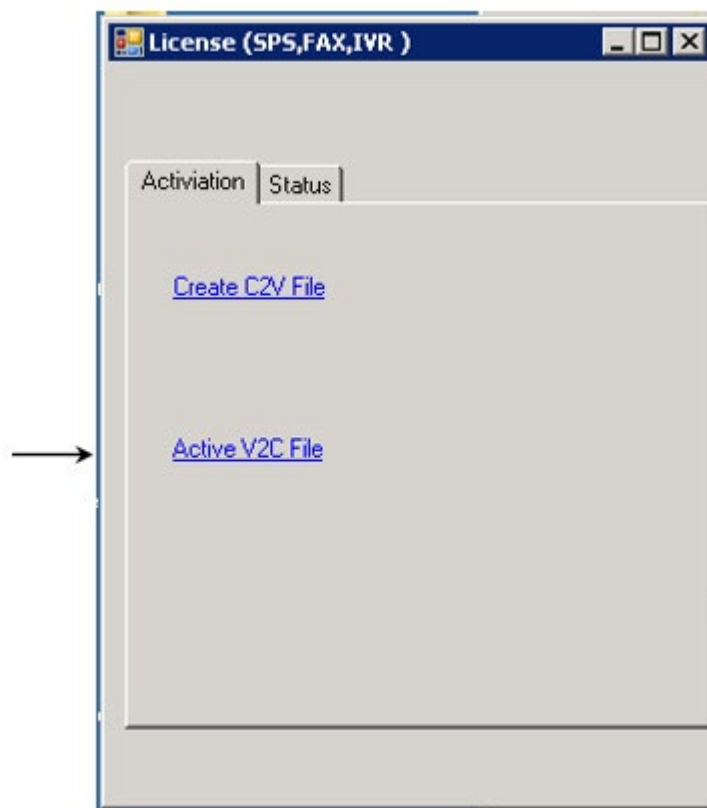
- 1. Run the "License Tool" by clicking the  "License Tool" icon on the desktop or navigate to the License page (**Start > Programs > HASP License Server > License Tool**).
- 2. Under the **Activation** tab, click **ActiveV2C File**.

Figure 4-12: License (SPS, FAX, IVR)



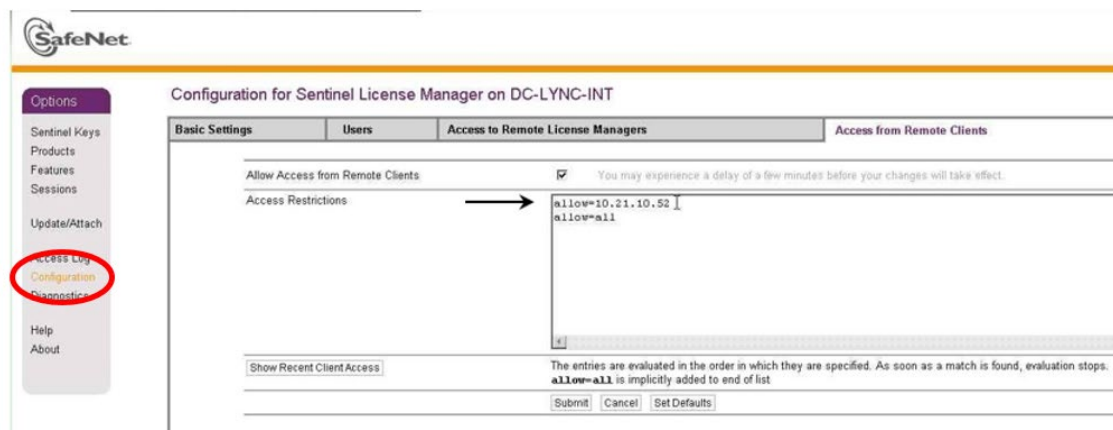
3. Browse to the V2C file location and click **Apply File**.

4.3 Configuring the License Server to Allow Access of Remote Clients

The procedure below describes how to configure the License Server to Allow Access of Remote Clients.

➤ **To configure the license server to allow access of remote clients:**

1. Open the License server Web Administrator, by opening a web browser and navigating to <http://localhost:1947/>.
2. On the left pane, select the **Configuration** option.
3. Click the **Access from Remote Clients** tab.
4. Configure the License server IP address with the *allow=machine ip address* command e.g., *allow=10.21.10.52*.
5. Click **Submit**.

Figure 4-13: Configuration for Sentinel License Manager on DC-LYNC-INT

4.4 Configuring the Client to Access Remote License Manager

The procedure below configures the client to get the license from the License server by accessing the Remote License Manager. This process is performed on the Application server (e.g., SPS, Fax, and IVR) and not on the external license server.

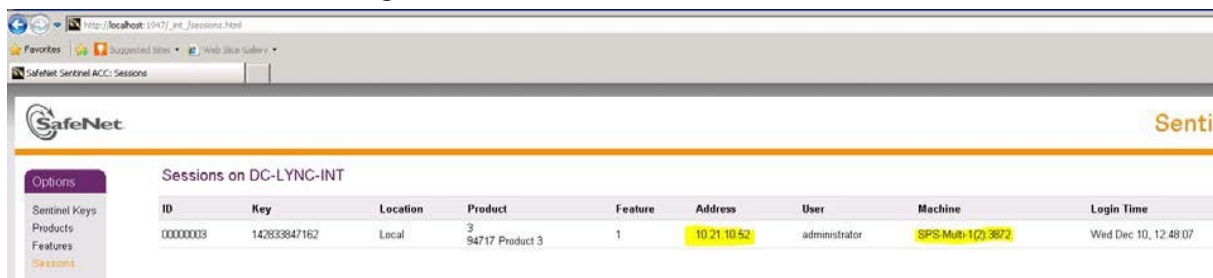
1. Open the License client Web Administrator by opening a web browser and navigating to <http://localhost:1947/>.
2. On the left pane, select the **Configuration** option.
3. Click the **Access to Remote License Manager** tab.
4. Configure the IP address of the License server.
5. Click **Submit**.

4.5 Verifying Application Server Connected to License Server

The procedure below verifies that the Application server is connected to the License server. This process is done on the License server and not on the Client application server (e.g., SPS, Fax, and IVR).

1. Open the License Server Web Administrator by opening a web browser and navigating to **http://localhost:1947/**.
2. Click the **Session** tab.
3. Verify that your server appears in the list of sessions.

Figure 4-14: Sessions on License Server



The screenshot shows a web browser window with the URL `http://localhost:1947/nt_sessions.html`. The page displays the SafeNet logo and a sidebar with navigation options: Sentinel Keys, Products, Features, and Sessions (highlighted). The main content area is titled "Sessions on DC-LYNC-INT" and contains a table with the following data:

ID	Key	Location	Product	Feature	Address	User	Machine	Login Time
00000003	142833847162	Local	3 94717 Product 3	1	10.21.10.52	administrator	SPS-Multi-1(2)3872	Wed Dec 10, 12:48:07

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