AudioCodes One Voice for Microsoft® Skype for Business

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.



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 multiusers 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



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:

| Select features Before You Begin | Select one or more features to install on the selected server. | DESTINATION SERVE WIN-QRHFO3RIH |
|---|--|---|
| Installation Type | Features | Description |
| Server Selection Server Roles Features Confirmation Results | | Windows Communication Foundation (WCF) Activation uses Windows Process Activation Servic to invoke applications remotely ov the network by using protocols suc as HTTP, Message Queuing, TCP, and named pipes. Consequently, applications can start and stop dynamically in response to incomir work items, resulting in application hosting that is more robust, manageable, and efficient. |

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

| | | | ••• |
|---------------------|------------------------|--|-----------------------------------|
| C audiocodes | | | |
| | Files | from Eran Hagay at AudioCo | odes |
| | Select All | | Sort By Name $^{\vee}\equiv ::::$ |
| | hasp_license_server_Se | | |
| | 16 MB | | |
| | | ✓ I agree: <u>Terms and Conditions</u> | |
| | 3 Items Selected | View | Download |

Figure 3-1: Downloading the License Server Tool

3. Confirm that the file has been successfully downloaded.



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:





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



| etop - LitenseServer | | |
|---|----------------------------------|---------------------------|
| Select Start Menu Folder Where should Setup place the prog | ram's shortcuts? | |
| Setup will create the prog | ram's shortcuts in the followi | ng Start Menu folder. |
| To continue, click Next. If you woul HASP License Server | ld like to select a different fo | der, click Browse. Browse |
| | | |
| | | |
| | | |
| | | |
| | | |

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

Figure 4-4: Ready to Install

| Setup - LicenseServer | | |
|--|---|---------|
| Ready to Install Setup is now ready to begin | installing LicenseServer on your computer. | |
| Click Install to continue with change any settings. | the installation, or click Back if you want to re | view or |
| Destination location: C:\Program Files (×86)\ | Audiocodes\License server | - |
| Start Menu folder: HASP License Server | | |
| | | r F |
| | < Back Install | Cancel |

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

| Setup - Lic | tenseServer | |
|------------------------|---|----------|
| Installing Please v | wait while Setup installs LicenseServer on your computer. | PD - |
| Finishing | g installation | |
| J | Sentinel Run-time Environment Installer v. 6 义 | 3 |
| | Operation successfully completed. | |
| | Суск | |
| | | |
| | | Count of |

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:



SafeNet Sentinel ACC: Help - Windows Internet Explorer 🔹 🍕 🗙 🔽 Bi - X ord 🚺 Stgp Record 🗮 Add Comment 🛛 00:02:50 🔳 -🗄 🔹 🍘 The webpage cannot be disp... 🛛 🔯 SafeNet Sentinel ACC: Help 🗙 🏠 • 🔝 - 🖻 🖶 • Page • Safety • Tools • 🕢 • SafeNet Sentinel Admin Control Center Admin Control Center Help Sentinel Keys Admin Control Center Help Products Features Sessions Welcome to the Admin Control Center, This application enables you to manage access to software licenses and Features, to control detachable licenses, to control sessions, and to diagnose problems. Update/Attach Note: You can select the language in which Admin Control Center is displayed by clicking the country flag appropriate to the required language, which is displayed at the bottom of the **Options** pane). To view all available languages, or to download other language packs, click the <u>More Languages</u> link. Access Log Configuration Diagnostics The Admin Control Center enables you to monitor the following · All the Sentinel protection keys that are currently available on the network server, including their identity, type, and About location The number of users currently logged in to a protection key, and the maximum number of users allowed to be simultaneously logged into that specific key The Features to which each orotection key allows access, and any restrictions that apoly to the Feature Subart for the feature feature for the feature for the feature feature for the feature feature for the feature feature for the feature feature feature feature feature for the feature fea 100%

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

| Sentinel HASP Admin Control × 📀 Getting Started × | | | | | |
|---|---|-----|--|--|--|
| ← → C 🗋 localhost:1947/_int_/config_to.html | | | | | |
| Sentinel HASP Admin Control G | | | | | |
| SafeNe | Sentinel HA | ASF | | | |
| | Configuration for HASP License Manager on WIN-K7N8VGK4AIF | | | | |
| Administration | | | | | |
| Options | Basic Settings Users Access to Remote License Managers Access from Remote Clients Detachable Licenses | | | | |
| HASP Keys Products | Allow Assess to Dometa Licenses | | | | |
| Features | Allow Access to Reinde Licenses (Produinay experience a delay or a lew finindues before your changes will take elect. | | | | |
| Sessions | Broadcast Search for Remote Licenses | | | | |
| Indate/Attach | Aggressive Search for Remote Licenses | | | | |
| oputer attach | Specify Search Parameters | | | | |
| Access Log | | | | | |
| Configuration | | | | | |
| Diagnostics | | | | | |
| Heln | | | | | |
| About | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Submit Cancel Set Defaults | | | | |

- 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

| Sentinel HASP Admin Con | ntrol 🗙 😨 Getting Started 🛛 🗙 🔼 | |
|---|---|---|
| ← → C 🗋 localho | ost:1947/_int_/config_from.html | ☆) ≡ |
| | | Sentinel HASP Admin Control Center Sentinel HASP [~] |
| | Configuration for HASP License Manager on W | IN-K7N8VGK4AIF |
| Administration Options HASP Keys | Basic Settings Users Access to Remote License Managers Access to Remote License Managers | ess from Remote Clients Detachable Licenses |
| Products Features Sessions | Currently, no network-enabled Sentinel HASP key is connected to this Li Allow Access from Remote | cense Manager. v minutes before your changes will take effect. |
| Update/Attach Access Log Configuration Diagnostics Help | Access Restrictions | |
| About | Bhow Recent Client Access The entries are evaluated in the order in we evaluation stops allow-all is implicitly added to end of l | hich they are specified. As soon as a match is found, list |
| More Languages | Submit Cancel Set Defaults | |

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 License page (Start > Programs > HASP License Server > License Tool).
- 2. Click Create C2V File.

| License (SPS,FAX,IVR) | |
|------------------------|--|
| Activiation Status | |
| Create C2V File | |
| Active V2C 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.

| SafeNet. | | | | |
|------------------------------|---|--|--|--|
| Options | Update/Attach License to SPS15 | | | |
| Sentinel Keys Products | Apply File | | | |
| Sessions | Select a V2C, H2R, R2H, H2H, ALP or ID file: Browse | | | |
| Update/Attach | Apply File Cancel | | | |
| Configuration Diagnostics | The following file types can be applied: A V2C file contains a license update from your software vendor, or a firmware u An H2R file contains a detached license | | | |
| Help About | An R2H file contains a cancelled detached license (to be re-attached to its orig An H2H file contains a rehosted protection key. An ID file contains the identifiers of the Sentinel License Manager on a remote An ALP file contains an Admin Control Center Language Pack. | | | |

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:
- Run the "License Tool" by clicking the navigate to the License page (Start > Programs > HASP License Server > License Tool).
- 2. Under the Activation tab, click ActiveV2C File.

| | License (SPS,FAX,IVR) | |
|----------|------------------------|--|
| | Activiation Status | |
| | Create C2V File | |
| → | Active V2C 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.

| ptions | Configuration for Sentinel License Manager on DC-LYNC-INT | | | | |
|------------------------|---|--|-----------------|---|----------------------------|
| Sentinel Keys | Basic Settings Users Access to | | Access to Remot | e License Managers | Access from Remote Clients |
| atures | Allow Access from Remote Clients Access Restrictions | | ts | Vou may experience a delay of a few minutes before your changes will take effect. | |
| date/Attach | | | \rightarrow | allow=10.21.10.52] allow=all | |
| cess Log regulation | | | | | |

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 <u>http://localhost:1947/</u>.
- 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.

🕒 🗢 🔯 http://localhost kes 🙀 🖸 Suppe ed bites . 😰 SafeNet Sentinel ACC: Ses SafeNet Senti Sessions on DC-LYNC-INT ID Key Location Product Login Time Sentinel Keys Feature Address User Machine Products 00000003 142833847162 Local 10.21.10.52 administrator SPS-Multi-1(2):3872 Wed Dec 10, 12:48:07 3 94717 Product 3 Features

Figure 4-14: Sessions on License Server

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