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# SIP Endpoint SDK Deployment Guide

SIP Endpoint SDK 8.1.1NET

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# Deployment Guide

## Installation

This deployment guide can be used to install SIP Endpoint SDK on your Windows system and verify the installation. It includes the following information:

- **Deployment Information**—Details related to the SIP Endpoint SDK installation, including prerequisites and links to related information. Genesys recommends reading this page before beginning your installation, to ensure that your system meets the minimum requirements for the SIP Endpoint SDK.
- **Installation procedures**
- **Verification procedures**—This includes tasks for walking through the installation process and verifying that components were installed correctly.

## Next Steps

After you have successfully installed the SIP Endpoint SDK, you might want to do the following:

- Download the latest version of the Release Note (using links on the [SIP Endpoint SDK for .NET Product Page](#)) to see the most recent news and updates about this product.
- Review the pages on using the included [.NET QuickStart Application](#).
- Find out more about how to [configure SIP Endpoint SDK for .NET](#).
- Read the [SIP Endpoint SDK API Reference](#) for detailed information about the SIP Endpoint SDK.

# New In This Release

Check out the new features that have been added in the latest releases of SIP Endpoint SDK.

## New in Release 8.1.1 for .NET

### Release 8.1.100.04

- SIP Endpoint SDK for .NET now supports the collection of **RTP audio and video statistics**, giving users real-time access to these statistics during a call.

### Release 8.1.100.03

- SIP Endpoint SDK for .NET now supports the **G.729b** voice codec with the `annexb=no` extension.

### Release 8.1.100.02

- SIP Endpoint SDK for .NET now supports **video** using a new video control interface that allows for the control of video source, frame events, window handles, and connectivity mode.
- When using the SIP Endpoint SDK for .NET, you can now **encrypt SIP messaging and the media channel** using TLS and SRTP, respectively.
- SIP Endpoint SDK for .NET now supports the RFC2617-style **digest authentication** that is currently used by SIP Server.

# SIP Endpoint for .NET Deployment Information

## Introduction

For the 8.x release, the SIP Endpoint SDK allows you to develop applications by using .NET technology.

To assist you with development, the SIP Endpoint SDK is packaged with a [SIP Endpoint SDK API Reference](#) that allows you to find reference information, coding recommendations, and code snippets in a single location.

For your convenience, the SIP Endpoint SDK also includes a Visual Studio Starter Kit that contains a project template and code snippets. This Starter Kit can help you get up and running during early application development.

Finally, every Genesys product also includes a Release Note that provides any late-breaking product information that could not be included in the manual. This product information can often be important. To view it, open the `read_me.html` file in the application home directory, where you will find a link to the latest Release Note for this product.

## What You Should Know

This guide is written for software developers and application architects that have an understanding of the Genesys platform and the basics of SIP telephony before using this SDK. Before working with the SIP Endpoint SDK, you should know how to use the logging functionality of the Platform SDK.

In addition, the following document can be useful in understanding the Genesys SIP server environment:

- Framework 8.0 SIP Server Deployment Guide

## Environment Prerequisites

### Supported Operating Systems


- Windows 8 32 bit
- Windows 2008 Server (32 and 64 bit)
- Windows 7 64 bit

- Windows XP 32 bit

### Other Prerequisites

To work with the SIP Endpoint SDK, you must ensure that your system meets the software requirements established in the Genesys Supported Operating Environment Reference Manual, as well as meeting the following minimum software requirements:

- Genesys SIP Server 7.6.x, 8.0.2, or higher
- Genesys Voice Platform (GVP) 8.0 or higher is required for video conference support, which makes use of the GVP Resource Manager and Media Control Platform
- Microsoft .NET Framework version 3.5 Service Pack 1 or higher
- Microsoft Visual Studio® .NET 2008 or higher
- Microsoft Win32 ® API

 **Important Note:** The computers that will run your application must have the Microsoft Visual C++ 2008 SP1 Redistributable Package (x86). To download this package, do one of the following things:

- Go to <http://www.microsoft.com/downloads> and in the Search Download Center field, enter Visual C++. The link for the redistributable package will be listed. Make sure you download the SP1 version that is dated 9/16/2008, and not the pre-SP1 version dated 11/29/2007.
- Go directly to the following link, which is valid as of September 1, 2010:  
<http://www.microsoft.com/downloads/details.aspx?familyid=A5C84275-3B97-4AB7-A40D-3802B2AF5FC2&displaylang=en>

## Related Resources

- [SIP Endpoint SDK Overview](#)
- [SIP Endpoint SDK Developer's Guide](#)

# Installing SIP Endpoint SDK for .NET

## Prerequisites

- Check the list of [environment prerequisites](#), and confirm that your system meets these standards prior to installing SIP Endpoint SDK.

## Procedure

### Start of procedure

1. Run the installation file named `setup.exe` located in the `\SIPEndpointSDK\DotNet\windows\` directory on your product CD. The Genesys Installation Wizard is displayed to guide you through the installation and setup process.
2. Click **Next** at the **Welcome** dialog to display the **Genesys License Agreement** dialog.
3. Check the **I accept Genesys License Agreement** box to accept the conditions of the agreement.
4. Click **Next** at the **Genesys License Agreement** dialog. The **Choose Destination Location** dialog is displayed, showing the default destination, `C:\Program Files\GCTI\SIP Endpoint SDK`.
5. Click **Next** if you want to accept the default destination folder that is specified. If you prefer to install the SIP Endpoint SDK in a different location than the default directory, complete the following steps:
  1. Click **Browse** to open the **Choose Folder** dialog.
  2. Navigate to and select a directory path.
  3. Click **OK** to return to the **Choose Destination Location** dialog.
  4. Click **Next** to accept the destination folder that you have selected.
6. At the **Ready to Install** dialog, click **Install**. The Wizard installs the SIP Endpoint SDK, and all associated files, in the directory you selected. When the installation is finished, the **Installation Complete** dialog appears.
7. Click **Finish**.

### End of procedure

### Next Steps

- To review the installation and confirm the location of your SIP Endpoint SDK files, continue by [verifying the installed components](#).



# Verifying Installed SIP Endpoint SDK for .NET Components

## Prerequisites

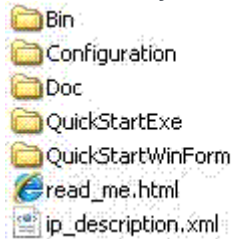
- You must first complete the procedure that is found at [Installing SIP Endpoint SDK for .NET](#).

# Procedure

## Start of procedure

1. Use your file manager to locate the destination directory for the SIP Endpoint SDK installation. It will be assumed that the default location, which is the C:\Program Files\GCTI\SIP Endpoint SDK directory, was used for this procedure.

2. Confirm that your SIP Endpoint SDK components look similar to what is shown in the following image:




3. Examine each folder (including the root installation folder) to confirm their contents. The SIP Endpoint SDK Folder Contents table below gives a description of the expected result.

## End of procedure

## Next Steps

- None

**SIP Endpoint SDK Folder Contents**

| Folder         | Contents   |
|----------------|--|
| \              | The root directory contains the following two files: <ul style="list-style-type: none"><li>• ip_description.xml—This file contains data for the read_me.html file.</li><li>• read_me.html—This Read Me file identifies the build number, platform compatibility, and a link to the latest Release Note.</li></ul>  |
| \Bin           | This directory contains the .NET libraries (.dll files) for the .NET version of the Enterprise SDK.  |
| \Configuration | Contains a template copy of the SipEndpoint.config file used by the SIP Endpoint SDK to specify configuration details.<br> <b>Note:</b> The QuickStart application included with this SDK has a distinct copy of the configuration file that can be edited and tested without making changes to this template file. |
| \Doc           | This directory contains the SIP Endpoint SDK API Reference (SipEndpointNet.chm), which has detailed information about structure and usage of   |

| Folder             | Contents  |
|--------------------|---|
|                    | the SIP Endpoint SDK. This directory also contains the Elements C++ SDK Release Note and Third Party Software Notices.  |
| \QuickStartExe     | A compiled and ready to run version of the SIP Endpoint SDK QuickStart application. <ref name="quickstart">For more information about the QuickStart application included with this release, see <a href="#">Using the QuickStart Application</a> .</ref> |
| \QuickStartWinForm | Visual Studio source files for the SIP Endpoint SDK QuickStart application.<ref name="quickstart" />  |

<references />