

Zixi Installation Guide

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* See back for additional licensing information

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Introduction

This Installation Guide includes installation procedures for the following Zixi products on Linux and Windows environments:

- Zixi Feeder
- Zixi Broadcaster
- Zixi Receiver

Network Settings

The following ports must be opened on your Firewall(s) for inbound and outbound traffic as described below:

| Port | Туре | Direction | Description | | | |
|------|------|-----------|---|--|--|--|
| 2088 | UDP | Outbound | Feeder push to Broadcaster, Zixi protocol | | | |
| 7088 | UDP | Outbound | Feeder push to Broadcaster, Zixi protocol with DTLS | | | |
| 1935 | ТСР | Inbound | Encoder push to Feeder, RTMP protocol | | | |
| 4200 | ТСР | Inbound | Web management UI, HTTP protocol | | | |

Zixi Feeder Network Settings

Zixi Broadcaster Network Settings

| Port | Туре | Direction | Description | |
|------|------|-----------|---|--|
| 2088 | UDP | Inbound | Feeder push to Broadcaster, Zixi protocol | |
| 7088 | UDP | Inbound | Feeder push to Broadcaster, Zixi protocol with DTLS | |
| 2077 | UDP | Inbound | Receiver pull from Broadcaster, Zixi protocol | |
| 7077 | UDP | Inbound | Receiver pull from Broadcaster, Zixi protocol with DTLS | |
| 1935 | ТСР | Inbound | Encoder push to Broadcaster, RTMP protocol | |
| 1935 | ТСР | Outbound | Broadcaster push to CDN or RTMP server, RTMP protocol | |

| Port | Туре | Direction | Description |
|------|------|-----------|--|
| 7777 | ТСР | Inbound | HTML5 video player or CDN pull from Broadcaster, HTTP streaming protocol - HLS or DASH |
| 4444 | ТСР | Inbound | Web management UI, HTTP protocol |

Zixi Receiver Network Settings

| Port | Туре | Direction | Description |
|------|------|-----------|---|
| 2077 | UDP | Outbound | Receiver pull from Broadcaster, Zixi protocol |
| 7077 | UDP | Outbound | Receiver pull from Broadcaster, Zixi protocol with DTLS |
| 4300 | ТСР | Inbound | Web management UI, HTTP protocol |

ZEN Master Network Settings

The following network settings are required to connect the various Zixi products to ZEN Master.

Zixi Feeder – ZEN Master Network Settings

| Туре | Port | Direction | Description |
|------|----------------|----------------------|--|
| ТСР | 80/443 | Outbound + Return | |
| SSH | 22 | Outbound + Return | ZEN Master to <customer>.io.zixi.com</customer> |
| UDP | 2077 / 2088 | Outbound + Return | Stream authentication to <customer>.io.zixi.com</customer> |
| UDP | 7077 / 7088 | Outbound + Return | DTLS communication to customer.io.zixi.com |

Zixi Broadcaster – ZEN Master Network Settings

| Туре | Port | Direction | Description |
|------|--------|----------------------|--|
| ТСР | 80/443 | Outbound + Return | ZEN Master Authentication Servers: - 18.210.103.157 |

| Туре | Port | Direction | Description |
|------|----------------|----------------------|--|
| | | | - 23.20.44.73 - 34.200.88.233 - 34.238.1.65 - 35.170.111.151 - 52.4.9.203 Or <customer>.zen.zixi.com</customer> |
| SSH | 22 | Outbound + Return | ZEN Master to <customer>.io.zixi.com Or <customer>.zen.zixi.com</customer></customer> |
| UDP | 2077 / 2088 | Outbound + Return | Stream authentication to <customer>.io.zixi.com Or <customer>.zen.zixi.com</customer></customer> |
| UDP | 7077 / 7088 | Outbound + Return | DTLS communication to customer.io.zixi.com Or <customer>.zen.zixi.com</customer> |

Zixi Receiver – ZEN Master Network Settings

| Туре | Port | Direction | Description |
|------|----------------|----------------------|--|
| ТСР | 80/443 | Outbound + Return | |
| SSH | 22 | Outbound + Return | ZEN Master to <customer>.io.zixi.com</customer> |
| UDP | 2077 / 2088 | Outbound + Return | Stream authentication to <customer>.io.zixi.com</customer> |
| UDP | 7077 / 7088 | Outbound + Return | DTLS communication to customer.io.zixi.com |

Installing Zixi Products

All Zixi Products (Feeder, Broadcaster and Receiver) can be installed and run on either Linux or Windows environments. The following sections describe the system requirements and installation procedures for each type of OS.

For instructions on how to install CentOS 7.x, see - Installing CentOS 7

Installing Zixi Products on Linux

For instructions on how to install CentOS 7.x, see - Installing CentOS 7

- To install Zixi products on a Linux environment:
 - 1. Check that you have a link and credentials to the Zixi download site and the license activation keys. If you don't have them, please contact Zixi Support at support@zixi.com.
 - Check that your system meets the system requirements, see System Requirements -LINUX.
 - 2. Download and extract the installation file(s) using the procedures described in **DOWNLOADING AND EXTRACTING THE INSTALLATION FILE.**
 - 3. Activate the license through the web-based management UI using the procedures described in ACTIVATING THE LICENSE.

System Requirements - Linux

Hardware

- CPU: Intel i3 dual core CPU or above
- RAM: 2 GB RAM (minimum)
- Networking: 2 x 1GB network card

Operating System

- Zixi Broadcaster 64-bit CentOS 7.x or an equivalent Linux distribution with glibc 2.14+
- Zixi Feeder and Receiver Linux CentOS 6/7, must be a 64-bit distribution
- Linux Ubuntu 12 or later, 64-bit
- Linux Debian 7 or later, 64-bit
- Non-GUI server distribution recommended due to conflicts with NetworkManager GUI application.

Network Management

- Feeder GUI: TCP 4200
- Broadcaster GUI: TCP 4444

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- Receiver GUI: TCP 4300
- SSH Remote Tunnel: If enabled, the device reaches out on port 22 to the remote access server.

Network Streaming

- Network Settings
- ZEN Master Network Settings

Downloading and Extracting the Installation File - Linux

After receiving the email with the download link and the license activation keys, follow the instructions below. The procedures for downloading and extracting all Zixi products (Feeder, Broadcaster and Receiver) are identical. For the <zixi_product> parameter, enter the relevant product name (e.g. 'Feeder').



Make sure you are logged in as a Root user. If you are not logged in as a Root user, use the "su" command.

To download and extract the file:

- 1. Create a Zixi folder by typing the following commands in the Linux console:
 - # mkdir /zixi
 - # cd /zixi
- 2. Type the # wget command followed by the download link that you have received via email, while excluding the "http://" part of the link. For example:

```
# wget --user=<customer_Name>--ask-password
downloads.zixi.com/<customerName>/<zixi_product>-<version_number>.tar.gz
```

- 3. You will be requested to enter a password, type the password that you have received from Zixi support.
- 4. Extract the installation file by typing the following command:
 - # tar xvfz <zixi_product>-<version_number>.tar.gz
 - # cd <zixi_product>
- 5. Run the installation script file by typing the following command: #./installMe.sh
- 6. Run prerequisites script file by typing the following command: #./prerequisites.sh

Following the completion of the installation, proceed to **ACTIVATING THE LICENSE**.

Installing Zixi Products on Windows

➡ To install Zixi products on a Windows environment:

- 1. Check that you have a link and credentials to the Zixi download site and the license activation keys. If you don't have them, please contact *Zixi Support* at support@zixi.com.
- 2. Check that your system meets the system requirements, see **SYSTEM REQUIREMENTS** WINDOWS.
- 3. Download and extract the installation file(s) using the procedures described in DOWNLOADING AND RUNNING THE INSTALLATION.
- 4. Activate the license through the web-based management UI using the procedures described in ACTIVATING THE LICENSE.

System Requirements - Windows

Hardware

- Recommended processor: Intel[®] Core[™] i3 dual-core or quad-core
- Memory requirements: 2GB (minimum)
- Network interface cards: Minimum of two gigabit Ethernet adapters are required

Operating System

- Windows[®] Server 2012/2016/2019, 32-bit or 64-bit
- Windows 8/10, 32-bit or 64-bit

Windows releases are supported per the Microsoft support schedule. Server OS is preferred for 24/7. Desktop OS, if used, should be configured to disable auto updates and prefer background service priority.

Network Management

- Feeder GUI: TCP 4200
- Broadcaster GUI: TCP 4444
- Receiver GUI: TCP 4300
- SSH Remote Tunnel: If enabled, the device reaches out on port 22 to the remote access server.

Network Streaming

- Network Settings
- ZEN Master Network Settings

Downloading and Running the Installation

After receiving the email with the download link, follow the instructions below. The downloading and the extraction of all Zixi Products (e.g. Zixi Feeder, Zixi Broadcaster, etc.) is similar. In this procedure we will use Zixi Broadcaster as an example.

- ➡ To download and run the installation:
 - 1. Download the Zixi Broadcaster installation file.
 - 2. Double-click on the Zixi Broadcaster installation file. The **License Agreement** window appears.

| Z Zixi Broadcaster Setup — | |
|---|----------------------------------|
| License Agreement | 7 |
| Please review the license terms before installing Zixi Broadcaster. | _ |
| Proce Date Down to see the cost of the agreement | |
| Press Page Down to see the rest of the agreement. | |
| giXi LLC. Software License Agreement | î |
| BY CLICKING THE "I AGREE" BUTTON, YOU (THE "LICENSEE") AGREE TO BE BOUN THE TERMS AND CONDITIONS OF THIS ZIXI SOFTWARE LICENSE AGREEMENT (T "AGREEMENT"). PLEASE READ THIS AGREEMENT CAREFULLY BEFORE CLICKING T AGREE" BUTTON BELOW. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, PLEASE DO NOT CLICK THE "I AGREE" BUTTON, BUT CLICK THE "I D AGREE" BUTTON AND YOU WILL NOT BE ABLE TO INSTALL AND USE THE ZIXI SOFTWARE PRODUCTS. | ND BY HE THE "I SOO NOT |
| If you accept the terms of the agreement, click I Agree to continue. You must acce agreement to install Zixi Broadcaster. | ept the |
| Zixi LLC, | |
| I Agree | Cancel |
| After reading the license agreement click I Ag | r |
| | i ee |
| The Installation Location window appears | lee. |
| The Installation Location window appears. | × |
| The Installation Location window appears. Z Zixi Broadcaster Setup – Choose Install Location | × |
| The Installation Location window appears. Z Zixi Broadcaster Setup – Choose Install Location Choose the folder in which to install Zixi Broadcaster. | × Z |
| The Installation Location window appears. Z Ixi Broadcaster Setup Choose Install Location Choose the folder in which to install Zixi Broadcaster. Setup will install Zixi Broadcaster in the following folder. To install in a different folder, Browse and select another folder. Click Next to continue. | × Z |
| The Installation Location window appears. Z Ixi Broadcaster Setup Choose Install Location Choose the folder in which to install Zixi Broadcaster. Setup will install Zixi Broadcaster in the following folder. To install in a different folder, Browse and select another folder. Click Next to continue. Pestination Folder | × Z |
| The Installation Location window appears. Z Ixi Broadcaster Setup Choose Install Location Choose the folder in which to install Zixi Broadcaster. Setup will install Zixi Broadcaster in the following folder. To install in a different folder, Browse and select another folder. Click Next to continue. Destination Folder C: Program Files VIXI Broadcaster Browse | dick |
| The Installation Location window appears. Z Ixi Broadcaster Setup Choose Install Location Choose the folder in which to install Zixi Broadcaster. Setup will install Zixi Broadcaster in the following folder. To install in a different folder, Browse and select another folder. Click Next to continue. Destination Folder C:\Program Files\Zixi\Broadcaster Browse Space required: 60.9MB Space available: 97.6GB | dick |
| The Installation Location window appears. Z Ixi Broadcaster Setup Choose Install Location Choose the folder in which to install Zixi Broadcaster. Setup will install Zixi Broadcaster in the following folder. To install in a different folder, Browse and select another folder. Click Next to continue. Destination Folder Choose required: 60.9MB Space required: 60.9MB Space available: 97.6GB | didk |

4. Select the folder in which the Broadcaster files will be installed. The default location is in the Zixi folder which is in the Program Files folder.

3.

5. Click Next.

| Zixi Broadcaster Setup | | - | | > |
|---|------------------|-----------------|-----|---|
| Zixi Broadcaster Configuration Please take a moment to go over the default con | figuration for 3 | Zixi Broadcaste | er. | Z |
| Zixi Broadcaster network ID: | | | | |
| ELI-PC | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| ixi LLC, | | | | |
| | | | | |

- 6. Enter a name for the **Broadcaster ID**. The default name is the local host.
- 7. Click Install.

The installation progress window appears.

| Z Zixi Broadcaster Setup | | | _ | | \times |
|--|--------|-------|---|-------|----------|
| Installation Complete Setup was completed successfully. | | | | | Ζ |
| Completed | | | | | |
| Show details | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Zixi LLC, | | | | | _ |
| | < Back | Close | | Cance | |

8. When the installation is complete, click **Close**.

The Broadcaster Login page opens in your browser.

Following the completion of the installation, proceed to **ACTIVATING THE LICENSE**.

Activating the License

Activation of the licenses is performed in the relevant web-based management UI. For all Zixi products (Feeder, Broadcaster and Receiver), the installation can be done online using a *License Key* or offline using a *License File*.

To activate Zixi license online, ensure connection to URL: license.zixi.com via TCP port 80. If you cannot open this connection, you can activate your license through a "License File". To obtain a license file, please contact *Zixi Support* at support@zixi.com.

Zixi Feeder

R

When logging in to a Zixi Feeder for the first time, you must activate the Zixi license.

Logging in to Zixi Feeder

- ➡ To log in to Zixi Feeder:
 - In your web browser, navigate to <u>http://localhost:4200</u>. A user authentication window opens.
 - 2. In the User Name field, enter 'admin'.
 - 3. In the Password field, enter '1234'.
 - 4. Click **OK**.

The Feeder UI opens on the Status page.

Online Activation (License Key)

The following procedure requires connectivity to the Internet. If you are not able to connect, you can activate the Feeder using the procedure described in **OFFLINE ACTIVATION (LICENSE FILE)**.

➡ To Activate the License online using a License Key:

- 1. In the **Status** page of the Zixi Feeder UI, click **Options** in the menu bar.
 - The drop-down menu is displayed.

| | | LOGOUT |
|--------------------|-----------|-----------|
| | ✓ Options | ් Restart |
| 1 Activate License | | |
| A Reload Licenses | | |
| 🕞 Load License | | |

- 2. Click Activate License. The Activate License window appears.
- 13 | Zixi Feeder

| Activate Licen | se | × |
|----------------|----|---|
| Key: | | ٦ |
| <u></u> | | 2 |
| | | |

- 3. In the **Key** field, enter your Activation Key.
- 4. Click Activate.

The Zixi Feeder is enabled.

Offline Activation (License File)

If you want to activate your license without an internet connection, you can upload a *License File*. To obtain a License File, please contact *Zixi Support* at support@zixi.com.

➡ To Load the License File:

1. In the **Status** page of the Zixi Feeder UI, click **Options** in the menu bar. The drop-down menu is displayed.

| | LOGOUT |
|---------------------------|-----------|
| | ් Restart |
| 1 Activate License | |
| A Reload Licenses | |
| 🕞 Load License | |

2. Click Load License.

The directory of the local drive opens.

- Navigate to the License File and click **Open**.
 A prompt window instructs you to Reload the license to activate the license.
- 4. Click again on **Options** and select **Reload Licenses** from the dropdown menu. The Zixi Feeder is enabled.

Zixi Broadcaster

When logging in to a Zixi Broadcaster for the first time, you must activate the Zixi license.

Logging in to Zixi Broadcaster

- ➡ To log in to Zixi Broadcaster:
 - In your web browser, navigate to http://localhost:4444. A user authentication window opens.

- 2. In the User Name field, enter 'admin'.
- 3. In the **Password** field, enter '1234'.
- 4. Click **OK**.

The Broadcaster UI opens on the Status page.

Online Activation (License Key)

The following procedure requires connectivity to the Internet. If you are not able to connect, you can activate the Broadcaster using the procedure described in **OFFLINE ACTIVATION (LICENSE FILE)**.

- ➡ To Activate the License online using a License Key:
 - 1. In the **Status** page of the Zixi Broadcaster UI, click **Options** in the menu bar. The drop-down menu is displayed.

| | | LOGOUT |
|---------------------------|-----------|-----------|
| ন Network Test | ▼ Options | ථ Restart |
| 1 Activate License | | |
| φ Reload Licenses | | |
| 🕞 Load License | | |
| Ŧ Upgrade | | |

2. Click Activate License.

The Activate License window appears.

| Key: | Key: | Activate Licen | se | × |
|------|------|----------------|----|---|
| | | Key: | |] |
| | | | | |

- 3. In the **Key** field, enter your Activation Key.
- 4. Click Activate.

The Zixi Broadcaster is enabled.

Offline Activation (License File)

If you want to activate your license without an internet connection, you can upload a License File. To obtain a license file, please contact *Zixi Support* at support@zixi.com.

➡ To Load the License File:

1. In the **Status** page of the Zixi Broadcaster UI, click **Options** in the menu bar. The drop-down menu is displayed.

| | | LOGOUT |
|--------------------|-----------|------------|
| Network Test ■ | ▼ Options | () Restart |
| 1 Activate License | | |
| C Reload Licenses | | |
| 🕞 Load License | | |
| ∓ Upgrade | | |

2. Click Load License.

The directory of the local drive opens.

- 3. Navigate to the License File and click **Open**.
- A prompt window instructs you to Reload the license to activate the license.4. Click again on **Options** and select **Reload Licenses** from the dropdown menu.
 - The Zixi Broadcaster is enabled.

Zixi Receiver

When logging in to a Zixi Receiver for the first time, you must activate the Zixi license.

Logging in to Zixi Receiver

- ➡ To log in to Zixi Receiver:
 - In your web browser, navigate to <u>http://localhost:4300</u>. A user authentication window opens.
 - 2. In the User Name field, enter 'admin'.
 - 3. In the **Password** field, enter '**1234**'.
 - 4. Click **OK**.

The Receiver UI opens on the **Status** page.

Online Activation (License Key)

The following procedure requires connectivity to the Internet. If you are not able to connect, you can activate the Receiver using the procedure described in **OFFLINE ACTIVATION (LICENSE FILE)**.

➡ To Activate the License online using a License Key:

1. In the **Status** page of the Zixi Receiver UI, click **Options** in the menu bar. The drop-down options menu is displayed.

| | | LOGOUT |
|--------------------|-----------|------------|
| | ✓ Options | ල් Restart |
| 1 Activate License | | |
| Reload Licenses | | |
| Load License | | |

2. Click Activate License.

The Activate License window appears.

| Activate Licen | se | x |
|----------------|----|---|
| Key: | | |
| | | |
| | | |

- 3. In the **Key** field, enter your Activation Key.
- 4. Click Activate.

The Zixi Receiver is enabled.

Offline Activation (License File)

If you want to activate your license without an internet connection, you can upload a license file. To obtain a license file, please contact *Zixi Support* at support@zixi.com.



1. In the **Status** page of the Zixi Receiver UI, click **Options** in the menu bar. The drop-down options menu is displayed.

| | | LOGOU |
|--|-----------|-----------|
| | - Options | ් Restart |
| 1 Activate License | | |
| Contract | | |
| 🖝 Load License | | |

2. Click Load License.

The directory of the local drive opens.

- Navigate to the License File and click **Open**.
 A prompt window instructs you to Reload the license to activate the license.
- 4. Click again on **Options** and select **Reload Licenses** from the dropdown menu. The Zixi Receiver is enabled.

Installing CentOS 7

The following instructions are designed to help you install CentOS 7.x. After installing the operating system, follow the instructions in the **Installing Zixi Products on Linux** section to complete the installation.

➡ To install CentOS 7 on your computer:

- Download the "CentOS-7x86_64-Minimal-1908.iso" file from the following link: <u>http://mirrors.seas.harvard.edu/centos/7.7.1908/isos/x86_64/</u> A list of additional mirrors can be found at <u>http://isoredirect.centos.org/centos/7/isos/x86_64/</u>
- 2. Copy the downloaded file to a FAT 32 formatted USB thumb drive of good quality with at least 8 GB of space.
- 3. To create a bootable USB drive, download **Rufus** to your computer from the following link <u>https://rufus.akeo.ie/</u>
- 4. Right-click on the **Rufus** icon and choose **Run as Administrator**. The following screen is displayed:

| 2 | Rutus 2,18,1213 | - 0 × |
|---------------|---------------------------------|-------|
| Device | | ** |
| ZIXI_19_SO | (I) [9GB] | ~ |
| Partition Sci | eine and target system type | |
| MBR partiti | on scheme for BIOS or UER | ~ |
| file system | | |
| FAT32 (Del | ան | ~ |
| Cluster size | | |
| 4096 bytes | (Default) | ~ |
| New volume | label | |
| CentOS 7 x | 06.64 | |
| Format Op | tions 💟 | |
| Check | levice for bad blocks 1 Pass | v |
| Quick f | ormat | |
| ✓ Create | a bootable disk using ISO image | v 🚇 |
| Create | extended label and icon they | ~ |
| | | - 43 |
| | | |
| | | |
| | READY | |
| Amout | Log Start | Close |
| ADC05. | start | crose |
| - | Castor 7 upp 64 Minimal 170 | 01 # |

- 5. In the **Device** field, select the name of your USB thumb drive.
- 6. In the **Create bootable disk using** field, select the format of the downloaded image (e.g. ISO image).
- 7. Click on the disk icon to browse to the CentOS 7 ISO to install.
- 8. Click Start.

The process will take a couple minutes and the lower window will display "READY!" when done.

P

- 9. Remove the USB and install it on the machine you will be installing CentOS on.
- 10. Boot your computer by restarting it and then waiting for that first screen to be displayed.
- 11. Press the boot option key as instructed on the first screen (e.g. often, it'll say something like "Press F12 to Choose Boot Device").
- 12. Wait a moment to continue booting until see a menu pop up with a list of choices on it. Highlight your USB drive and press **Enter**.
- 13. Exit out of your BIOS, while saving your changes. Usually, this option is under "Exit" on the main menu, or available via a keyboard shortcut listed (e.g. F4) somewhere on your screen.

Your computer should reboot. If you're prompted to "**Press any key to boot from CD/DVD**" do so. Your computer should boot into the USB drive instead of your normal operating system.

Make sure ALL network adapters are connected and ON in order for the Linux installation protocol to be able to SEE them. Otherwise, they will not be set to start up on boot.

14. On the following CentOS 7 prompt screen, select Install CentOS 7 and then press Enter.



- To setup CentOS 7:
 - 1. On the CentOS welcome screen, select the desired language and click **Continue**.

| 15 | | |
|----------------------|-----------------------|---------------------------------------|
| | WELCOME | TO CENTOS 7. |
| What Lang. | ega would you like to | suse during the installation process? |
| English | English | English (United States) |
| Africaam | Afrikaans | English (United Kingdom) |
| Articit | Amhanic | English (India) |
| الغرببة | Arabic | English (Australia) |
| अत्रयीया | Assamese | English (Canada) |
| Asturianu | Asturian | English (perman) |
| 5e/apyccas | Belavusian | English (New Zealand) |
| Былгарски | Bulgarian | English (Nigeria) |
| जाम | Bengati | English (Hong Xong SAR Chin |
| Type there be assert | | 0 |
| Type for a summer | | |

2. On the main screen, click **Date & Time** and then set the time zone, date, and time and then click **Done** (located in the upper left corner).



- 3. On the main screen, click **Keyboard** and then click the big "+" button in the lower left corner and find your keyboards language (you can search), click **Add** to add it and then click **Done** (located in the upper left corner). When finished, click **Done** (located in the upper left corner).
- 4. On the main screen, click Language Support and select the language of your choice, (default is English) and then click Done (located in the upper left corner).



5. On the main screen, click **Installation Source** and select the installation USB as the installation source. When finished, click **Done** (located in the upper left corner).

6. On the main screen, click **Software Selection** and select Minimal Installation (you may select another type of installation, but this is the minimal default requirement for installing Zixi. When finished, click **Done** (located in the upper left corner).



7.

- License for OpenSSL

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit

(http://www.openssl.org/)

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