Administration Center - Settings - CAST Extend

Introduction

This panel provides the settings for controlling the **CAST Extend** configuration. **CAST Extend** is CAST's own repository of extensions and access to this for downloading new extensions is provided direct in Console (see **Application - Extensions**). When the **UI Install Wizard** is run during the **installation process**, settings must be provided for CAST Extend. These settings are displayed in this panel.

You can therefore use the panel to update the settings for **CAST Extend**, i.e. if you want to change the user name, or if you want to start using **CAST Extend local server** or **CAST Extend Offline.**

Available options

| Extend website | When enabled, this mode configures each Node to connect to **CAST's publicly available extension server** (**https://extend.castsoft...** internet on port **443** via **TCP**.

In this mode, the **CAST Extend URL** field will be automatically populated with the **CAST Extend URL** (**https://extend.castsoftware.c...** (i.e. the URL cannot be changed). You will then need to input your **CAST Extend API key** (this can be generated in the CAST Extend I Console will check that it can access Extend when you click Save.

> ⓘ
> - If you do not have an account on CAST Extend, you can register for one, for free, using the following URL: **https://extend... /#/register**
> - When upgrading to **Console 1.25** with the **Extend official service** option already configured with a username/password, your username will be fetched automatically by Console as part of the upgrade process. |
|---|---|
| Extend local server | |

When enabled, this mode configures each Node to connect to an **on-premises deployment** of **CAST Extend local server**, therefore a[...] to CAST's publicly available extension server over the internet. See **Install CAST Extend local server or Offline - optional**.

Enter the URL of your on-premises **CAST Extend local server**, enter the **API Key** and then click **Next** to continue - Console will then [...] the on-premises **CAST Extend Offline**:

API Key

The API Key will have been generated during the **installation** of CAST Extend Proxy and is displayed in the final summary screen of th[...]
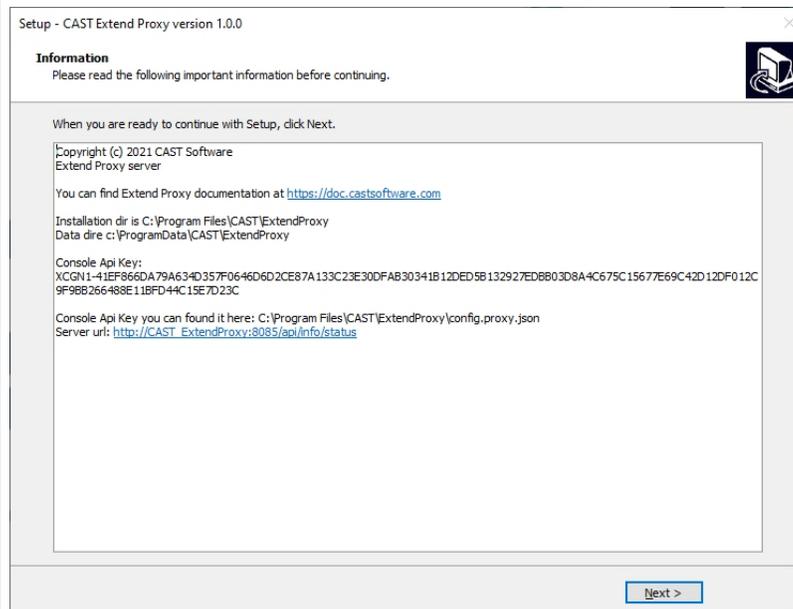
Alternatively you can find the API key in the following location on the server on which CAST Extend Proxy is installed:

```
C:\Program Files\CAST\Extend\config.proxy.json
```

The key is located on the line **APIKEY**:

```
{
  "PORT": 8085,
  "STORAGE_DIR": "c:/ProgramData/CAST/Extend",
  "PACKAGE_DIR": null,
  "LOG_DIR": "C:/Program Files/CAST/Extend/logs",
  "PUBLIC_URL": "http://WIN10TEST:8085/",
  "EXTEND_URL": "https://extend.castsoftware.com",
  "APIKEY": "XCGN1-9263B92E143984F6EF357684F7EFD3EE336C6E7A5F2278ADE1352D7BD34147FFC60F94920F90B90[...]
  "USER": "",
  "CREDENTIALS": "CRYPTED2:A65B5035B193DB7B2B59221",
  "SYNC_TYPE": "auto"
}
```

Extension Package Upload

⚠ This section has been removed in **Console 2.5**. See **Update CAST Extend local server with new content** for alternative me
extension packages to **Extend local server**.

When configured, a new section will become visible allowing you to **Update CAST Extend local server with new content**:

Click to enlarge:

Synchronize Extensions

The **Synchronize Extensions** button is displayed when the connection settings are input and saved. This option will force CAST Exter
in **online mode**) to fetch the extension "manifest" from CAST Extend - i.e. information that Console requires in order to request the con

- available extensions
- available releases
- technology to extension mappings

This process is also automated (once per day) - see **CAST Extend local server**.
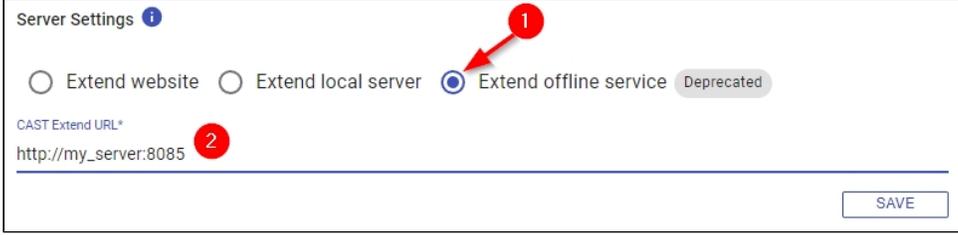

⚠

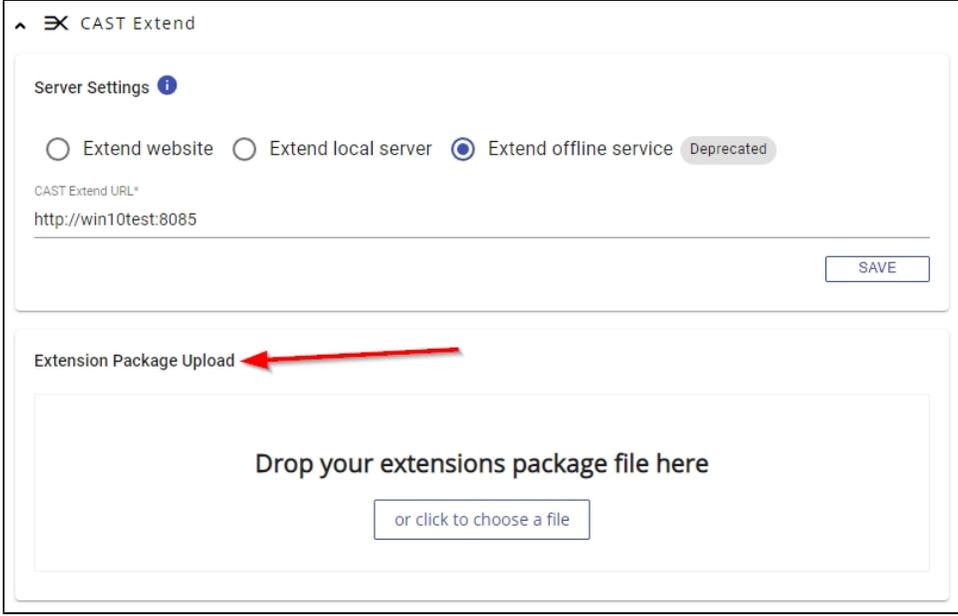|	
Extend offline service (deprecated)	⚠️ **CAST Extend Offline** is deprecated and you should use **CAST Extend local server** instead. When enabled, this mode configures each Node to connect to an **on-premises deployment** of **CAST Extend Offline**, therefore avoidi... CAST's publicly available extension server over the internet. See **Install CAST Extend local server or Offline - optional**. In this mode, the **CAST Extend URL** field will be empty and the **CAST Extend Login (email)** and **CAST Extend Password** fields will ... authentication is required for the on-premises **CAST Extend Offline**). Enter the URL of your on-premises **CAST Extend Offline** and th... continue - Console will then check that it can access the on-premises **CAST Extend Offline**: Server Settings ⓘ ○ Extend website ○ Extend local server ⦿ Extend offline service [Deprecated] ① CAST Extend URL* ② http://my_server:8085 SAVE **Extension Package Upload** ⚠️ This section has been removed in **Console 2.5**. See **Update CAST Extend local server with new content** for alternative me... extension packages to **Extend local server**. When configured, a new section will become visible allowing you to **Update CAST Extend Offline with new content**: *Click to enlarge* ⌃ ⊒X CAST Extend Server Settings ⓘ ○ Extend website ○ Extend local server ⦿ Extend offline service [Deprecated] CAST Extend URL* http://win10test:8085 SAVE Extension Package Upload ← Drop your extensions package file here or click to choose a file
Allow CAST to automatically collect anonymous statistical data	See **Administration Center - Settings - Allow CAST to collect anonymous statistical data automatically** for more information abo...

Technical information

Where are downloaded extensions stored?

.nupkg format

When Console fetches an extension from CAST Extend, the extension will initially be in **.nupkg format**. These files are stored in the following holding locations:

Console 2.x Enterprise	`%PROGRAMDATA%\CAST\AIP-Node\ExtendCliConfig\packages`
Console 2.x Standalone	`%PROGRAMDATA%\CAST\AIP-Console-Standalone\ExtendCliConfig\packages`
Console 1.x (1.25)	`%PROGRAMDATA%\AipConsole\AipNode\ExtendCliConfig\packages`
Console 1.x (1.24)	`%LOCAPPDATA%\NuGet\Cache`

This folder can grow significantly over prolonged usage of Console and may need to be cleaned - it is safe to remove these files.

Installed format

When the extension is installed the .nupkg file is uncompressed and the extension is placed in `%PROGRAMDATA%\CAST\CAST\Extensions`.

Troubleshooting HTTPS connection issues

In some situations, an error may occur when trying to save the CAST Extend connection parameters - **Error updating Extend Settings**:

A similar error is also recorded in the Node log when a given Node attempts to access CAST Extend: **Failed to connect to Extend Server caused by:**

```
Caused by: javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building
failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to
requested target
```

This error usually occurs if the signing authority of the SSL certificate used by CAST Extend is not listed in the Java JRE **cacerts** file located at `%PROGRAMFILES%\CAST\<release>\jre\security\cacerts` on the Node. Resolving the issue involves importing the required SSL certificates into the Java JRE delivered with AIP Core - this is out of the scope of this document, but some tips can be found in **SSL Certificates - How to import certificate into JRE**.