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Overview

Exterro was founded with the simple vision that applying the concepts of process optimization and data science to how companies manage digital information and respond to litigation would drive more successful outcomes at a lower cost. We remain committed to this vision today. We deliver a fully integrated Legal GRC platform that enables our clients to address their privacy, regulatory, compliance, digital forensics, and litigation risks more effectively and at lower costs. We provide software solutions that help some of the world’s largest organizations, law enforcement and government agencies work smarter, more efficiently, and support the Rule of Law.

1 RWS Offline Language Translation

FTK and FTK Plus allow users to integrate RWS Language Translation to enhance translation capabilities with machine learning ensuring improvements in accuracy as well as processing times.

1.1 Supported Languages

<table>
<thead>
<tr>
<th>Supported Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albanian</td>
</tr>
<tr>
<td>Arabic</td>
</tr>
<tr>
<td>Armenian</td>
</tr>
<tr>
<td>Bengali</td>
</tr>
<tr>
<td>Bulgarian</td>
</tr>
<tr>
<td>Burmese</td>
</tr>
<tr>
<td>Catalan</td>
</tr>
<tr>
<td>Chinese (Simplified)</td>
</tr>
<tr>
<td>Chinese (Traditional)</td>
</tr>
<tr>
<td>Croatian</td>
</tr>
<tr>
<td>Czech</td>
</tr>
<tr>
<td>Danish</td>
</tr>
<tr>
<td>Dari</td>
</tr>
<tr>
<td>Dutch</td>
</tr>
</tbody>
</table>
1.2 Minimum System Requirements

1.2.1 RWS Language Weaver – Master Host

- 1 CPU Core
- 1GB RAM
- 4GB Storage

1.2.2 Language Pair – Translation Engine

Note: Actual requirements are proportional to the number of language pairs to be installed.

- 1-4 CPU Cores [For best performance, it is recommended to increase the core count]
- 4GB RAM
- 30GB Storage
- 2GB GPU RAM [If utilizing Neural Language Pairs ONLY]

1.2.3 Supported Operating Systems

<table>
<thead>
<tr>
<th>Windows x64</th>
<th>Linux x64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 10</td>
<td>CentOS 7</td>
</tr>
<tr>
<td>Windows 8.1</td>
<td>CentOS 8</td>
</tr>
<tr>
<td>Windows 8</td>
<td>Ubuntu 14.04</td>
</tr>
<tr>
<td>Windows 7 SP1</td>
<td>Ubuntu 16.04</td>
</tr>
<tr>
<td>Windows Server 2012</td>
<td>Ubuntu 18.04</td>
</tr>
<tr>
<td>Windows Server 2016</td>
<td>Ubuntu 20.04</td>
</tr>
<tr>
<td>Windows Server 2019</td>
<td>Red Hat Enterprise Linux (RHEL) 7</td>
</tr>
<tr>
<td></td>
<td>Red Hat Enterprise Linux (RHEL) 8</td>
</tr>
</tbody>
</table>
1.2.4 Firewall Rules

<table>
<thead>
<tr>
<th>TCP Port</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>8000</td>
<td>The Host/Server listens on the port for incoming client/browser HTTP(S) connections to the Language Weaver Edge WEB UI.</td>
<td></td>
</tr>
<tr>
<td>8001</td>
<td>The Host/Server listens on the port for incoming client HTTP(S) connections to the Language Weaver Edge REST API.</td>
<td></td>
</tr>
<tr>
<td>5671</td>
<td>The Host/Server listens on the port for incoming worker connections to the Language Weaver Edge Message Broker component.</td>
<td></td>
</tr>
<tr>
<td>5673</td>
<td>The Host/Server listens on the port for incoming worker connections to the Language Weaver Edge Message Broker component.</td>
<td></td>
</tr>
<tr>
<td>4637</td>
<td>The Host/Server listens on the port for incoming client connections to the Language Weaver Edge Host Agent API component.</td>
<td></td>
</tr>
</tbody>
</table>
1.3 Installation

Note: While installing Language Weaver Edge, a domain-level service account with local administration rights is required in a distributed environment.

The installer has two installation modes:

- **Master Host**: Serves REST API, Web GUI, and optionally Job Engine(s) and/or Translation Engine(s)
- **Worker Host**: Serves Job Engine(s) and/or Translation Engine(s)

1.3.1 Installing Language Weaver Edge – Master Host or Worker Host

1. Locate the Language Weaver Edge installer on the system and **Run as Administrator**.

Note: Please contact support@exterro.com for more information about the installation files.

2. Click **Next**.

3. **Review and Accept** to the License Agreement. Click **Next**.

4. Select an **Installation Directory** and click **Next**.

5. Select **As a master host** and click **Next**.

Note: Select **As a worker host** if installing as a Translation Engine.

6. Select **No** when prompted to install the embedded API components and click **Next**.

7. Enter the following **administrator details**:
   - Username (Email Address)
   - Display Name
   - Password

8. Click **Next**.

9. Select **Do not use HTTPS/TLS**.
**Note:** If required, you can select any one of the following options to perform the corresponding operation:

- Use user-provided certificates
- Use self-signed certificates automatically generated by Language Weaver Edge

10. Click **Next**.

11. Select the default server port.

**Note:** The default web server port is **8000**.

12. Click **Next**.

13. Click **Next** again to start the installation process.

14. When prompt, **Allow Access** for *ets-initial-setup.exe*.

15. Click **Finish** when the installation is complete.

Upon completing the installation, the Language Weaver Edge UI will be displayed in the default browser. You can enter the login credentials created during installation to test it.

### 1.3.2 Installing Language Pairs

1. Locate the Language Pair setup installer and **Run as Administrator**.
2. Click **Next**.
3. **Review** and **Accept** to the License Agreement. Click **Next**.
4. Select an **Installation Directory** and click **Next**.
5. Click **Next** again to start the installation process.
6. Click **Finish**.
1.4 Configuration

Upon installing the Master Host and Language Pair, the job engines and the related translation engines should be configured.

1.4.1 Adding a Job Engine
1. Go to <MasterHost>:8000
2. Click Edit in the top-right corner.
3. Click Manage > Deployment.
4. Click Add in the Job Engines column.
5. Enter a Host.
6. Click Add.
7. Click Done Editing in the top-right corner.

1.4.2 Adding a Translation Engine
1. Go to <MasterHost>:8000
2. Login using the credentials created during installation.
3. Click Edit in the top-right corner.
4. Click Manage > Deployment.
5. Click Add in the Translation Engines column.
6. Enter the Job Engine address for Host.
7. Select the Mode as Auto-detect.
   - The language Pair can be selected but will not populate without a License.
   - If you are sure of the language pairs being assigned to a job engine, then provide the language pair details respectively.
8. Click Add.
9. Click Done Editing in the top-right corner.
1.4.3 Obtaining a License from RWS

1. Go to <Hostname>:8000
2. Login using the credentials created during installation.
3. Click on Entitlements.
4. Click Download Entitlements Profile.
   - The myhost.json file will be downloaded.
5. Contact SDLMT Support Team to get a license file.
   i. Go to https://gateway.sdl.com
   ii. Click Login for Support.
   iii. Enter the assigned SDL Administrator credentials.
   iv. Click on My Support.
   v. Click Log a Case.
   vi. Within the form provided, provide basic details such as email addresses, description of the languages required, etc. and upload the resultant myhosts.json file.
   vii. Click Submit Case.

The license file will be sent to the user within 3 days.

1.4.4 Adding a License

1. Go to <MasterHost>:8000
2. Login using the credentials created during installation.
3. Click on Entitlements.
4. Click Upload License File.
5. Locate the license file provided by RWS (Generated in Obtaining a License from RWS section) and click OK.
   - You may be prompted about unassigned language pairs. If you have not assigned a language pair to a job engine, then you will need to do so by navigating to the Hosts section present in the left side of the page.
1.4.5  Starting/Stopping Job or Translation Engines

1. Go to <MasterHost>:8000
2. Login using the credentials created during installation.
3. Click on Hosts.
4. Click the Stop/Start button to stop or start an engine.

1.4.6  Verifying Translation Service

1. Go to <MasterHost>:8000
2. Login using the credentials created during installation.
3. Click Translate.
4. Select an input language and enter some text in a licensed language.
5. Select an output Language.

The results should be displayed.

Note: If the results are not displayed, ensure the SDL MTE Manager service is running.

1.4.7  Obtaining the RWS API Key

1. Go to <MasterHost>:8000
2. Login using the credentials created during installation.
3. Click on My Account in the top-right corner.
4. Copy the API key for reference.
5. Copy the API Base URL.
1.4.8 Adding the Translation Server in FTK Plus

1. For new cases, in the Add/Import Evidence > Processing Options dialog click **Customize**.

(OR)

For existing cases, in the Examiner, click **Evidence > Additional Analysis**.

2. Check **Language Translation**.

3. Click **Language Translation Options**.

4. Click **Configure**.

5. Enter the following:
   - Server URL
   - Port Number
   - API Key

6. Click **OK**.

7. Select the **Types to Process**.
   - Documents
   - Presentations
   - Spreadsheets
   - Email
   - Graphics
1.4.9 Adding the Translation Server in FTK

1. For new cases, in the New Case Options dialog click **Customize**.
   (OR)
   For existing cases, in the Examiner, click **Evidence > Additional Analysis**.
2. Check **Language Translation**.
3. Click **Language Translation Options**.
4. Click **Configure**.

5. Enter the following:
   - **Server URL**
   - **Port Number**
   - **API Key**
6. Click **OK**.
7. Select the **Types to Process**.
   - Documents
   - Presentations
   - Spreadsheets
   - Email
   - Graphics
8. Select a **Target Language**.
9. Click **OK**.
1.5 Multi-server Deployment Example

The diagram below is an example of a hypothetical multi-server deployment with FTK Enterprise:

The diagram below has the following specifications:

- 1 x FTK Enterprise Machine
- 1 x Worker Host
- 1 x Job Engine with 2 x Translation Engines.
- 1 x Job Engine with 1 x Translation Engines.

<table>
<thead>
<tr>
<th>Hostname</th>
<th>Master Host</th>
<th>Worker Host</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>Language Pairs Installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiona</td>
<td>Yes</td>
<td>No</td>
<td>4 Core</td>
<td>4GB</td>
<td>60GB</td>
<td>None</td>
</tr>
<tr>
<td>Penelope</td>
<td>No</td>
<td>Yes</td>
<td>8 Core</td>
<td>16GB</td>
<td>60GB</td>
<td>French to English, Spanish to English</td>
</tr>
<tr>
<td>Hercule</td>
<td>No</td>
<td>Yes</td>
<td>4 Core</td>
<td>8GB</td>
<td>40GB</td>
<td>German to English</td>
</tr>
</tbody>
</table>

Note: Penelope has been assigned more resources in this example as it will be handling an additional translation engine as well as it being expected to have higher usage.
Contact Exterro

If you have any questions, please refer to this document, or any other related materials provided to you by Exterro. For usage questions, please check with your organization’s internal application administrator. Alternatively, you may contact your Exterro Training Manager or other Exterro account contact directly.

For technical difficulties, support is available through support@exterro.com.

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