CLEAN FILE METADATA EXCHANGE: USER MANUAL

Thomas Wegele
Avira Operations GmbH & Co.
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**CLEAN FILE METADATA EXCHANGE: USER MANUAL**

1. **LOGIN TO IEEE-CMX**

The login interface of the IEEE-Clean file Metadata Exchange (CMX) web application is accessible through https://ieee-cmx.avira.com/ and is presented in Figure 1. The user can log in using the email address and password received via email.

![Figure 1: The “Login” page](image)

Upon logging into the IEEE-CMX platform, the user will be taken to the welcome page (Figure 2) where the user will be able to access the “Submit Metadata” form, “Manage Metadata” section, and the “Statistics” panel. Other options include “User Management” where the user can view the details of his account.
2. SUBMIT METADATA

The web interface offers the user a mechanism to submit metadata files via a file upload dialogue. The upload page (Figure 3) allows uploading single zip archives which contain multiple xml files. Also, the digital signature for each of the xml files may be included in the zip file. The xml files must respect the IEEE definition.
3. MANAGE METADATA

The “Manage Metadata” module (Figure 4) of the IEEE-CMX web application provides the user with an overview of all of the submitted files of the current week.

![Figure 4: The “Manage Metadata” interface](image)

The list includes the ID of the metadata saved in the system, the company name of the submitter, the submitter’s name, and the date and time of the submission.

a) By pressing the 📥 icon, the user can access the view mode of the metadata.

b) With the 📄 icon, the user can directly download the metadata xml file.

c) The “Submit metadata” link provides the user with access to the “Submit Metadata” form.

On Sunday evenings, an automated script archives all the metadata submitted that week. Metadata that has been archived will no longer be accessible in the “Manage Metadata” list. The archives are available for download from the archives list (Figure 5). The user can access it by pressing the “Archives” button from the top of the “Manage Metadata” menu.
The archives list shows all the archives existing in the system.

NOTE—An archive includes all the files that have been submitted during one single week. In the archives list, these can be searched based on the unique ID, the year and/or week they have been archived, and the date and time of creation.

By pressing the **icon, the user can download the archived zip file.

### 4. STATISTICS

On the statistics page the user can view real-time generated graphics for the submitted metadata (Figure 6).

With “Start Date” and “End Date,” the user will be able to select the period for which the desired statistics can be viewed; with the “Group By” option, the user can choose whether the data will be arranged by day, week, or month.

The helping links will allow the user to view the statistics for the previous day, the last seven days, or the last month.
5. USER MANAGEMENT

Each company has a trusted user, recognized by the system as a “Super User.” A Super User has the possibility to view, edit, and add new users to his/her company. For example, the company Avira has one Super User (Figure 7).
In the Users list, there is detailed information about each user, including ID, company, first and last name, the user’s email address, and account type (User, Super User, or Administrator).

**NOTE**—The “Add a new user” link leads to the “Create user” form (Figure 8).

By pressing the 🔍 icon, a Super User can view the profile of the selected user (Figure 10).

When pressing the 🆘 icon, the Super User can edit the profile of the selected user (Figure 11).
The “Add User” form, accessible only by Super Users, allows Super Users to add normal users to their company. A Super User can add or edit a user’s profile information (first and last name, email address, time zone, etc.), edit the status of the account (Enabled/Disabled), and control the access level of the user (email notifications, API access, web access, read access, and write access).

After a user has been created, a message with login credentials will be sent to the user’s email address. The user is able to change the password by accessing the “My Profile” page (Figure 9).
In the “My Profile” page, the user can view his/her own information and change his password through the “Change Password” link.
The Administrators are Users with editorial access rights to manage the entire IEEE-CMX platform, including adding and editing companies.

The “Create Company” form is presented in Figure 12.
The Administrator is required to complete the company’s information, such as:

- Company name
- The type of the company (3rd Party Software Developer (3PSD), Security Software Vendor (SSV), or 3PSD and SSV)
- Whether the company is enabled or disabled in the platform
- The public key – must respect the PEM format

The Administrator can view the list of the all registered companies in the platform as shown in Figure 13.

From this interface (Figure 13), the Administrator can view the details of any company by pressing the icon (Figure 14), or edit a company’s information by accessing the icon (Figure 15).
Figure 13: The “Companies” list interface

Figure 14: The “Company Details” interface
6. USING THE API

A registered user will have access and use of the API. For more flexibility and portability, a Python client was developed that supports the API. The client is available in the download section.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Explanation</th>
<th>Called Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>getcompanies</td>
<td>get a list of companies as '--type'</td>
<td>getCompanies</td>
</tr>
<tr>
<td>getlastid</td>
<td>get the last inserted id as '--type'</td>
<td>getLastId</td>
</tr>
<tr>
<td>getmetadata</td>
<td>Get a zip archive containing '--count' metadata starting from '--id'. If no '--ofile' is specified, the archive is saved as 'metadata_%timestamp%.zip'</td>
<td>getMetaData</td>
</tr>
<tr>
<td>getarchivelist</td>
<td>Get a list of metadata archive files as '--type'</td>
<td>listArchives</td>
</tr>
<tr>
<td>getarchive</td>
<td>get metadata archive from '--path'. If no '--ofile' is specified, the archive is saved as 'archive_%timestamp%.zip'</td>
<td>downloadArchive</td>
</tr>
<tr>
<td>submit</td>
<td>upload '--ifile' to server. The file can be an a zip archive containing multiple xml files.</td>
<td>submitMetaData</td>
</tr>
</tbody>
</table>