

INFOWATCH

InfoWatch Traffic Monitor SDK. Access to InfoWatch Traffic Monitor events for external systems

24/08/2018

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1 Purpose of DataExport API application programming interface

This application programming interface is intended to integrate InfoWatch Traffic Monitor (Traffic Monitor) with external data receiving systems. As a part of the implementation DataExport API external systems get the events content and metadata from Traffic Monitor. DataExport API supports only data reading operation from Traffic Monitor.

2 Aauthorization to access DataExport API

Authorization to access DataExport API is provided via tokens mechanism, similar to other Traffic Monitor API's. To get token and review DataExport API licensing status it is required adding new type of plugin into the System - Plugin for DataExport API. All the activities related to plugins are performed within the Traffic Monitor console.

2.1 Work with plugins

2.1.1 Adding plugin

To add plugin:

1. Go to **Administration - Plugins**;
2. Within the area **Plugins** click .
3. Click **Add**.
4. Review the plugin description and click **Install**.

> **Note:**
>
> To update a plugin, the updated version of this plugin should be added.

2.1.2 Plugin removal

To remove plugin:

1. Go to **Administration - Plugins**;
2. Within the area **Plugins** click 
3. Click **Yes** to confirm the deletion.

2.2 Work with tokens

Token is generated automatically after the plugin has been added. All the activities related to tokens are performed within the InfoWatch Traffic Monitor console.

2.2.1 Adding token

To add token:

1. Go to **Administration - Plugins**;
2. Choose the plugin within the **Plugins** area;
3. Go to **Tokens** bookmark;
4. Click .

Note:

Token's value is generated automatically when setting up a token and it cannot be set by user.

2.2.2 Token's data editing

To change token's data:

1. Go to **Administration - Plugins**;
2. Choose the plugin within the **Plugins** area;
3. Go to **Tokens** bookmark;
4. By double left button click, enter the required info within the fields *Name* and *Description*.

2.2.3 Token's value update

If the token was compromised or if there is a potential token leak to the third party, it is required generating a new token's value.

To update token's value:

1. Go to **Administration - Plugins**;
2. Choose the plugin within the **Plugins** area;
3. Go to **Tokens** bookmark;
4. Click  .

2.2.4 Copying token

To copy token's value into the clipboard:

1. Go to **Administration - Plugins**;
2. Choose the plugin within the **Plugins** area;
3. Go to **Tokens** bookmark;
4. Click  .

2.2.5 Deleting token

To delete token:

1. Go to **Administration - Plugins**;
2. Choose the plugin within the **Plugins** area;
3. Go to **Tokens** bookmark;
4. Click  .

3 DataExport API functionality

The functionality of DataExport API includes the following:

- Able to specify the number of attributes to be included within the result:
    - Event ID;
    - Senders: list of contacts and authentication result, taking into account the potential conflicts;
    - Recipients: list of contacts, and authentication result, taking into account the potential conflicts;
    - Sender's computer, taking into account the potential conflict;
    - Type of event;
    - Date and time of interception;
    - Protocol;
    - Level of violation;
    - Verdict;
    - User's decision;
    - Path to file;
    - Web resource address;
    - Security objects and catalogues;
    - User's decision;
    - Event's size;
    - Tags;
- Able to specify the number of attributes to filtrate:
    - Date and time of interception;
    - Type of event;
    - Protocol;
    - Security objects and catalogues;
    - User's decision;
    - Event's size;
    - Tags;
- Separate event metadata obtaining with the ability to specify the number of attributes to be included within the result. In this regard, if the event contains few enclosed objects, all the extracted text to be assembled into one file;
- Obtaining all the extracted text of an event;
- Obtaining binary data of an event.

4 DataExport API third-party component registration

To integrate third-party receiving system with InfoWatch Traffic Monitor the following actions are to be taken:

1. Register the authentication type string of company - the component user in Infowatch JSC. Thus letting to connect a user company to the license, to be installed within Traffic Monitor System;
2. Obtain the developer's license related to company's ID. This would let unloading the events data from Traffic Monitor;
3. Create third-party component registry file in accordance with the format below. The license, obtained as per the point 2 is to be added to the file;
4. Download the third-party component registry file to InfoWatch Traffic Monitor System using the Traffic Monitor console interface. Section "Administration" - "Plugins". (see "Traffic Monitor. User Guide");
5. Obtain an access token within the downloaded third-party component's properties;

The System is ready to send the company's events data.

4.1 DataExport API third-party component registry file format

Plugin is a .zip format archive. The archive includes:

- **licenses** folder, containing license files;
- **icon** folder, containing the files with pictograms used for registered events;
- **manifest.json** file, containing information on a plugin.

> **Note:**
>
> Folders **licenses** and **icon** are optional. License files and files with pictograms can be located in the root folder.

For external systems, receiving data from Traffic Monitor **manifest.json** file should contain the following information:

Content	Type of data	Optional	Description
`{`			
`"PLUGIN_ID": "",`	String	Yes	Unique plugin identifier (UUID). Up to 40 characters. **Example:** `"PLUGIN_ID": "189C38D390396EB6E0530100007F1CA200000001",`
`"DISPLAY_NAME": "",`	String	Yes	Plugin name displayed. **Example:** `"DISPLAY_NAME": "Plugin name",`
`"DESCRIPTION": "",`	String	No	Plugin name displayed. **Example:** `"DESCRIPTION": "Test plugin to demonstrate",`
`"VERSION": "",`	String	Yes	Plugin version. **Example** `"VERSION": "1.0.0",`

Content	Type of data	Optional	Description
`"VENDOR": "",`	String	Yes	Software company ID in accordance with the company name specified in the license. **Example** `"VENDOR": "infowatch",`

`"LICENSE": [ { "PATH":"" } ],`	Array
	String
		Yes	License files. The paths to license files hould be specified in accordance with archive root folder.
			Example:
			`"LICENSE": [`
			`{`
			`"PATH":"licenses/license file 1.license"`
			`},`
			`{`
			`"PATH":"licenses/license file 2.license"`
			`},`
			`],`

`"PATTERN_SEARCH_LICENSE": "",`	String	No	Template to search previously downloaded licenses to be binded to plugin. It has the following format: `{operator:or|and,child[{name:value}]}`". **Example:** `"PATTERN_SEARCH_LICENSE": "{\"operator\":\"or\",\"conditions\":[{\"origin\":\"dm\"},{\"origin\":\"dmmobile\"}]}",`

`"DATA_RECEIVER": [ "" ]`	Array
	String
		Yes	List of identificators for systems receiving data from Traffic Monitor.
			Example: `"DATA_RECEIVER": [`
			`"Events reciever1",`
			`"Events reciever2"`
			`]`

`}`			

5 Functional description of DataExport API application programming interface

5.1 GET/POST requests common headers for DataExport API

Each request to the server must contain the following obligatory headings:

- X-API-Version – a version of the programming interface is specified. **Current version: 1**;
- X-API-CompanyId – an identifier of the vendor is specified;
- X-API-ImporterName – data receiving product is specified;
- X-API-Auth-Token – the authorization token is specified.

If server does not support the version, the response code is **400**.
If license failed the test, the response code is **403**.
If the token specified is invalid, the response code is **401**.
If the token specified is valid, but API user does not have sufficient privileges, the response code is **403**.

Example:

Request headers

```
X-API-Version: 1
X-API-CompanyId: iw
X-API-ImporterName: aplab
X-API-Auth-Token: gla20dos1pcdbr69caxz
```