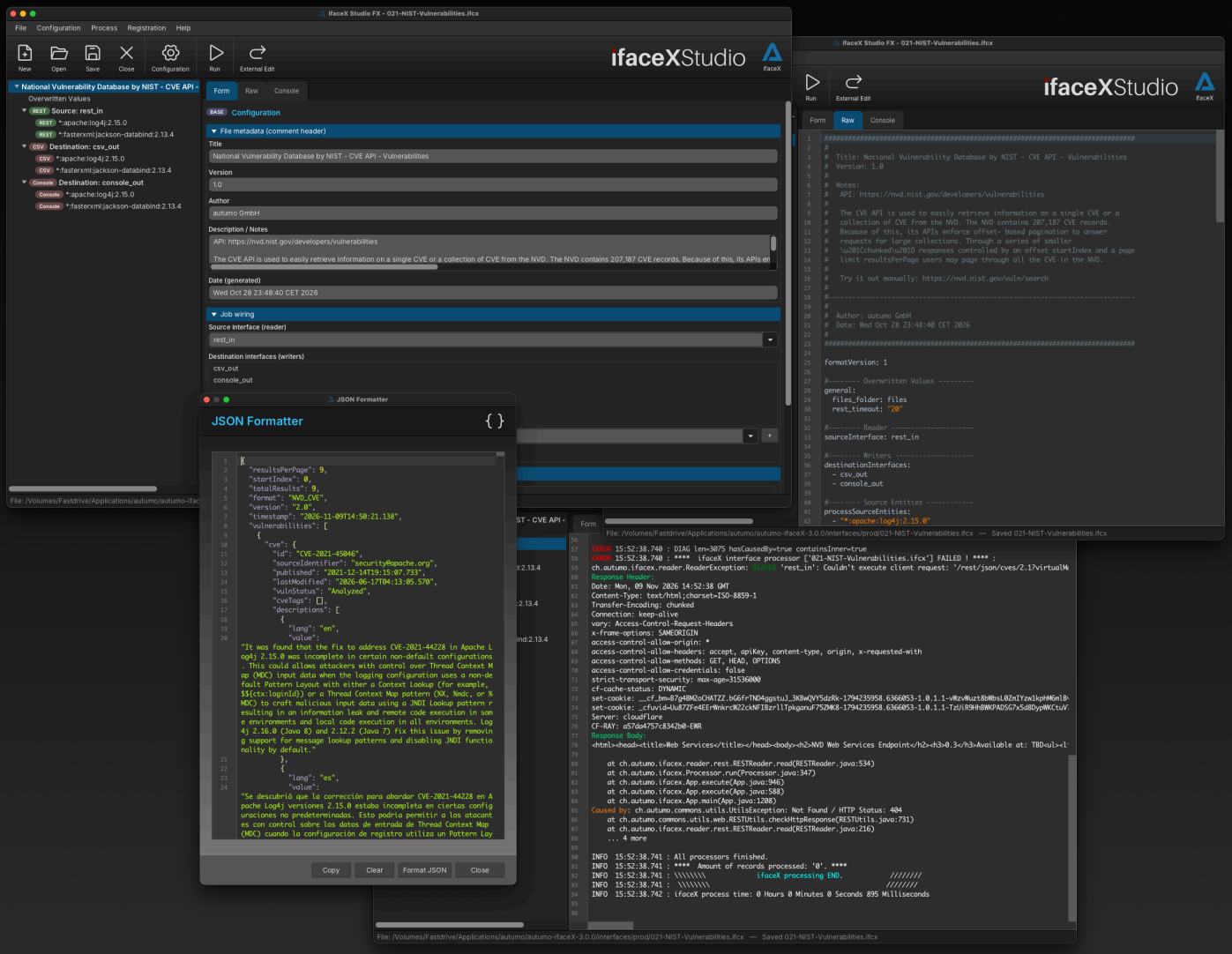
ifaceX Studio





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1. Installation

You can download the ifaceX Studio for free, no matter if you are in possession of ifaceX or not:

https://products.autumo.ch/ifacex/download

You can also download a ifaceX trial version to use it in combination with the Studio at the above web address.

You'll find 5 installers for different operating systems and CPU architectures:

- **Mac OS Package (Intel)** : ifaceX-Studio-FX-x64-3.0.0.pkg
- **Mac OS Package (Silicon)** : ifaceX-Studio-FX-arm64-3.0.0.pkg
- **Windows Installer** : ifaceX-Studio-FX-x64-3.0.0.exe
- **Windows MSI Installer** : ifaceX-Studio-FX-x64-3.0.0.msi
- **Linux Debian Software Package** : ifacex-studio-fx-x64_3.0.0_amd64.deb

Note that the packages/installers are **NOT** signed by a Microsoft or Apple Developer Certificate, therefore you have to allow the Microsoft Defender and/or the Apple Gatekeeper to install the ifaceX Studio by either deactivating them or to agree to this exception, usually by running the installer as an administrator. If your company compliance rules don't allow this, contact us.

After you have downloaded the installer, execute it and follow the installation steps.

Note: ifaceX Studio comes with an Azul ZULU Build of the OpenJDK 25 with latest security patches.

1.1. Updates

Updates can generally be installed without removing the old version. In Windows, it may be necessary to uninstall the old version first before installing the new one: „**Control Panel —> Uninstall/Change**". Otherwise, and in some cases, the installation program will not start properly.

2. Overview

With the ifaceX Studio, you can develop IPCs and configure your ifaceX platform. Beside that, it contains administrative features that help you with different tasks around ifaceX. The studio can be downloaded freely at products.autumo.ch.

In the following chapters, it is explained how to use it, it's administrative features and how you create your IPCs as well as their readers and writers. It will not discus every interface configuration parameter in detail, but will focus on specialities in the GUI (Graphical User Interface). The chapter „**All Configurations for running Interface Processors**" in the ifaceX manual will focus more on configuration and parameter details.

After starting up the studio, you'll see the following view:
Note: The screenshots presented here are made on a macOS and possibly from a previous version, therefore you'll not see a main menu bar at the top of the application, but instead in the OS's desktop menu bar and UI colors may differ. Of course, on Windows you'll see one. The menu will be presented separately from the screenshots below. Also, most important functions are available in the top toolbar (with icons).

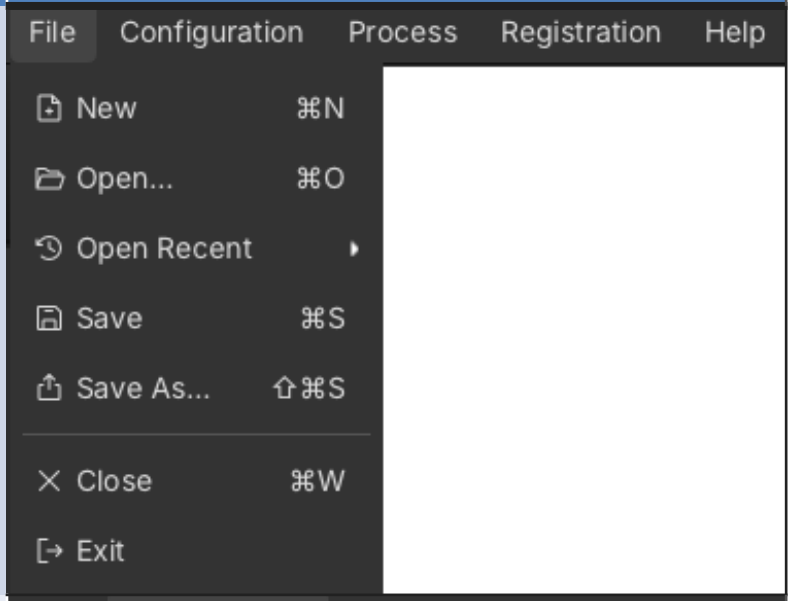
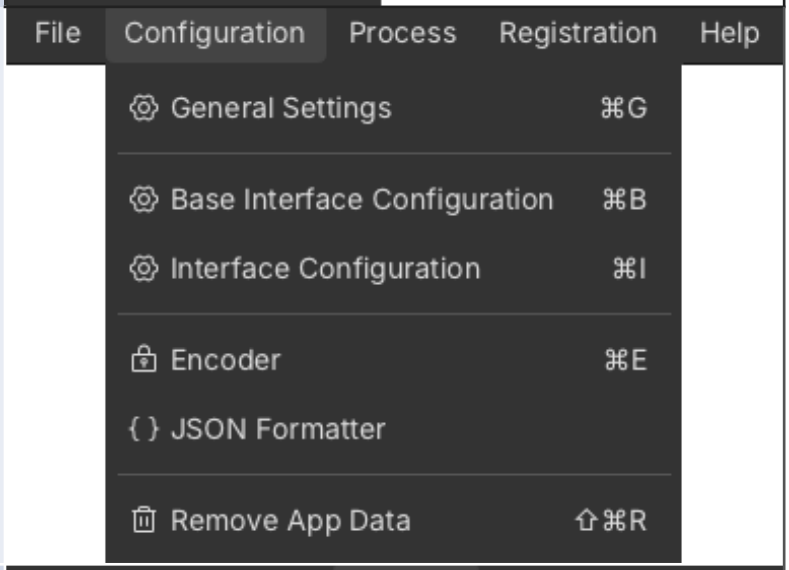
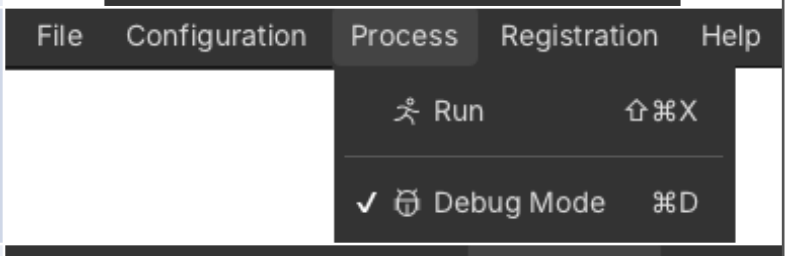
The ifaceX Studio needs a minimum screen resolution of 1600 x 1020 pixels



Figure 1: ifaceX Studio Start View

3. Menu

The application main menu contains the following entries:

Main Menu	Entries
File	
Configuration	
Process	
Registration	

Main Menu	Entries
Help	File Configuration Process Registration Help Open Online Documentation F1 Visit Website F2 Check for Updates ⌘U Language About

Table 1: ifaceX Studio Main Menu

The toolbar menu contains the following entries:

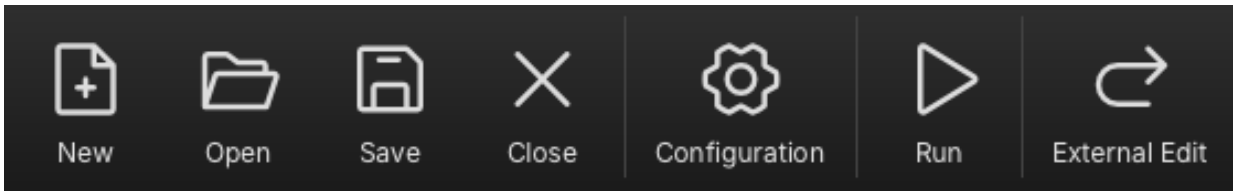


Figure 2: ifaceX Studio Toolbar Menu

3.1. File Menu

Basically, the file menu entries are self-explanatory and provide the usual application file operations such as „**Open**“, „**Save**“, „**Save as**“ and „**Close**“ an IPC file. Though, the application has further methods to open IPC files:

- If you have linked IPC-files (`*.ifcx`) with the Studio and you double-click them, the Studio starts up and opens the chosen IPC file. Also and In this case, the menu entry „**External Edit**“ will just open another instance of the Studio or it opens the current loaded IPC in the same Studio instance again; it depends on your operating system. The external edit function only makes sense, if you haven't assigned IPC files to the Studio, because then the operating-system-specific editor is opened that is linked to these files.

- You also can open an IPC file always by drag'n'drop it to the left or right part of the window.



3.2. Configuration Menu

- **General Settings**: General settings of the application, such as defining the ifaceX test instance location, etc.
- **Interface Base Configuration**: Opens a separate text editor to edit the file „`cfg/ifacex.ifcx`" that holds all general parameters for every IPC.
- **Interfaces Configuration**: Definition of all readers and writers; don't change this configuration, unless you know exactly what you are doing (see „**Developer Reference**", if you have the ifaceX Enterprise Edition).
- **Encoder**: The encoder to encrypt passwords and sensitive keys, that can be used for various IPC values. Most IPC fields where you can encrypt values, have an in-built encrypt-function below them. E.g., HTTP headers and the HTTP body of a rest reader can have encrypted values too.
- **JSON Formatter**: A JSON editor where you can format JSON strings. It is opened automatically with the result if a test root request has been made with the REST reader.
- **Remove App Data**: Removes all configuration data in the application data folder of the operating system. This should be done only before deinstalling the application. This operation allows a clean state of the operating system as it were before installing ifaceX Studio in contrast to many applications leaving „dead" user data behind.

3.2.1. IPC Tabs

The „Interface Processor Configuration" view on the right side of the window consists of 3 tabs:

- **Form**: Shows UI masks for the IPCs and its Readers and Writers
- **Raw**: Shows the IPC in an text-editor; the file can be edited here too; see „**Manual IPC Edit**"
- **Console**: Outputs the results of an IPC run or of an IPC root-call (test run)

More on these tabs in the following chapters.

3.3. Process Menu

- **Run**: Run a loaded IPC and show logging and process outputs. This operation forces the interface processor as well as its batch processor to be executed serially, which is better for testing purposes, because the output is sequential.
- **Debug Mode**: The debug mode activated executes IPs with the debug logging level, to get most output. By default, activated.



3.4. Registration Menu

- **Registeration**: You can register an ifaceX instance. For this you must have purchased ifaceX and have received a technical license.

3.5. Help Menu

- **Open Online Documentation**: Opens further documentation and/or this manual.
- **Visit website**: Opens the autumo ifaceX product page.
- **Check for Updates**: Checks, if a new ifaceX Studio version is available.
- **language**: Change UI language.
- **About**: Further information about the ifaceX Studio including licenses.



4. Interface Processor Configurations (IPCs)

The configuration of interface processors is described in a separate document, the *ifaceX Studio FX — IPC Reference* (`autumo-ifaceX-3.0.0-IPC-v1.0.pdf`).

It covers the general job wiring and the source entities, the reader and writer forms with all their parameters, the additional file-transfer and NiFi interfaces, the Excel writer, the entity-specific overrides and the destination mapping. This manual describes the Studio itself — its menus, tabs and dialogs.

5. Manual IPC Edit

Despite the above presented reader and writer user interface masks, IPCs can be edited in the raw format (`*.ifacex`), either in the Studio's IPC editor or within any text editor you wish to use. Remember, if you click the „**External Edit**" button, the file-type associated editor is opened with the current IPC. If the ifaceX Studio is associated, the IPC will be re-loaded in the same or in another Studio program instance (depending on the operating system you use).

For example, the special „Code" and „Exec" writers, that use few configuration parameters, have no writer masks, even they can be chosen in the Studio. The „File Writer" and „File Reader" on the other hand have no masks nor can be chosen in the reader/writer selection fields, but they still can be loaded; every valid IPC (`*.ifacex`) file can loaded.

To edit an IPC in raw format, just click the middle tab „**File**" and the IPC editor is opened.

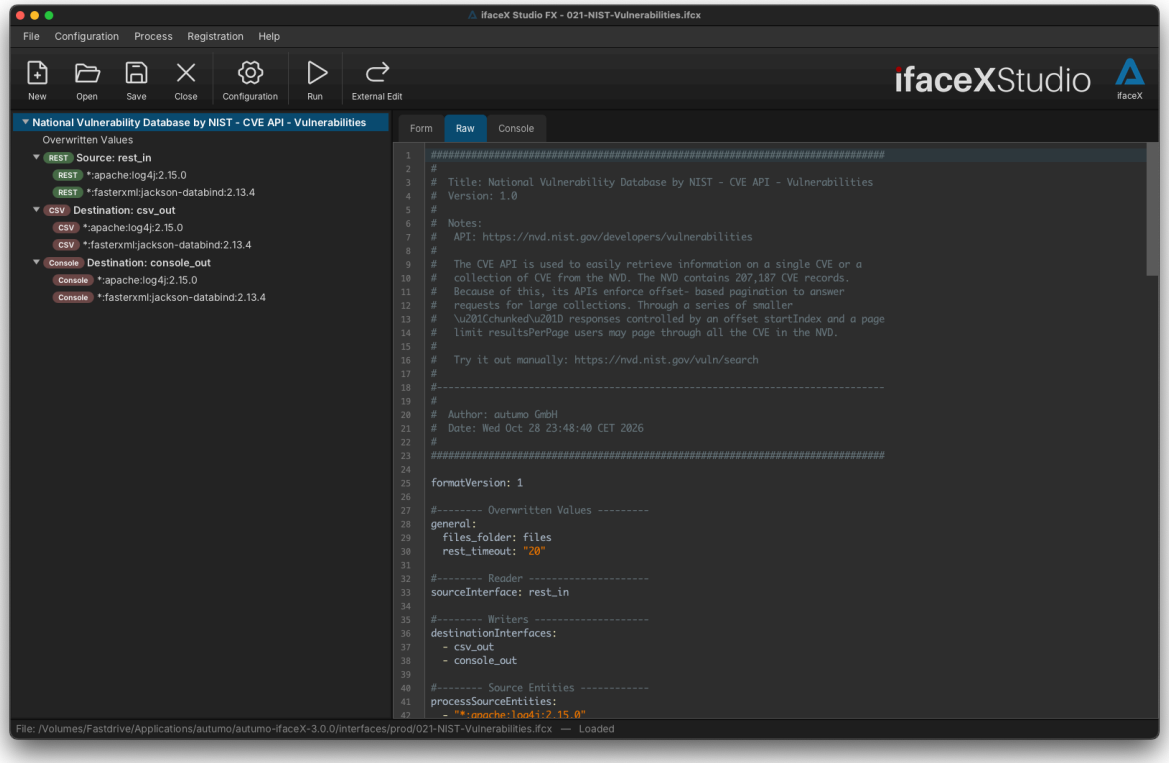


Figure 3: Manual IPC Edit

6. General Settings

When you first install the ifaceX Studio, you already can set some general settings. To access them later, chose the menu „**Configuration —> General Settings**“:

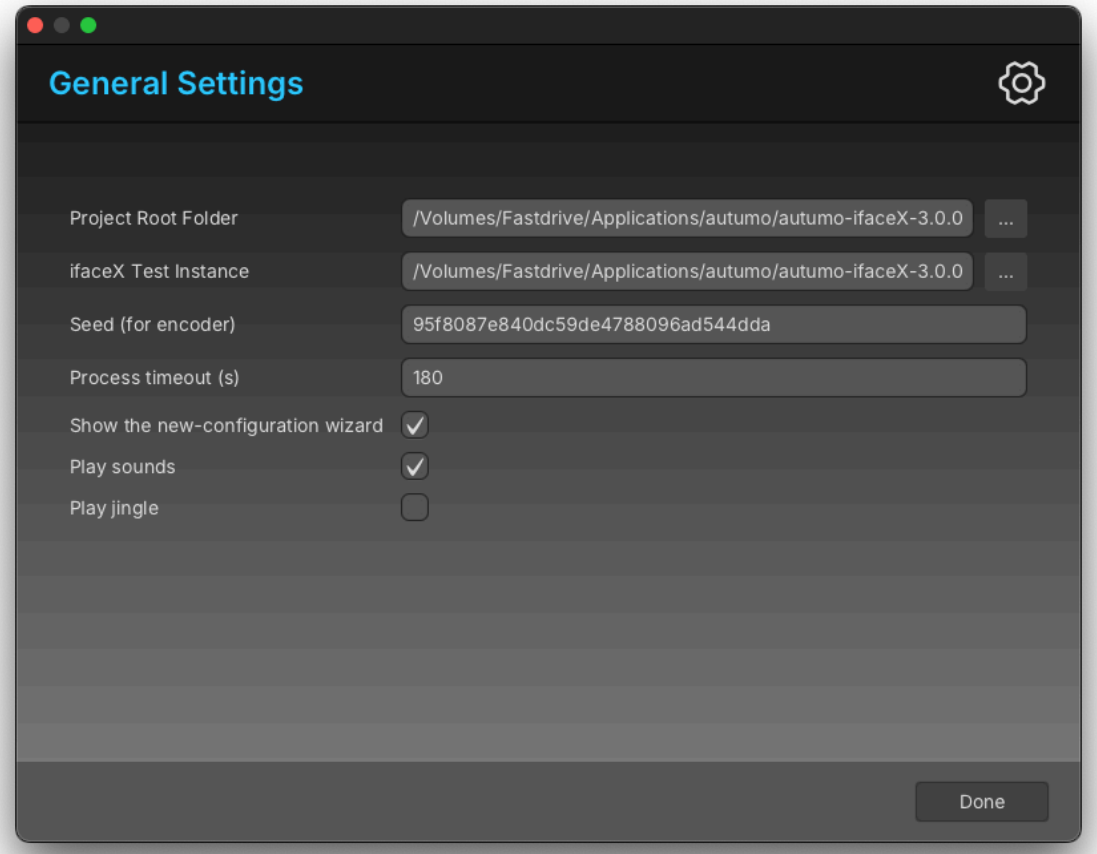


Figure 4: General Settings

- **Project Root Folder**: The folder where your IPC configuration files arte stored per default.
- **ifaceX Test Instance**: The location of a registered ifaceX instance.
- **Seed (for encoder)**: The seed that is used for IPC password encryption; this value must be same as configured within the parameter „`secret_key_seed`“ in the files „`cfg/ifacex.ifcx`“ and „`cfg/ifacex-server.cfg`“.
- **Process timeout**: Timeout for processing in seconds.
- **Show the new-configuration wizard**: Show a wizard when creating a new IPC..
- **Play sounds**: Play the „success“ and „fail“ sound when executing an IPC.
- **Play jingle**: Play startup jingle.

7. Run an IPC

To run a loaded IPC within an Interface Processor (IP) instance, click the „**Run**"-button in the toolbar or chose the menu „**Process —> Run**":

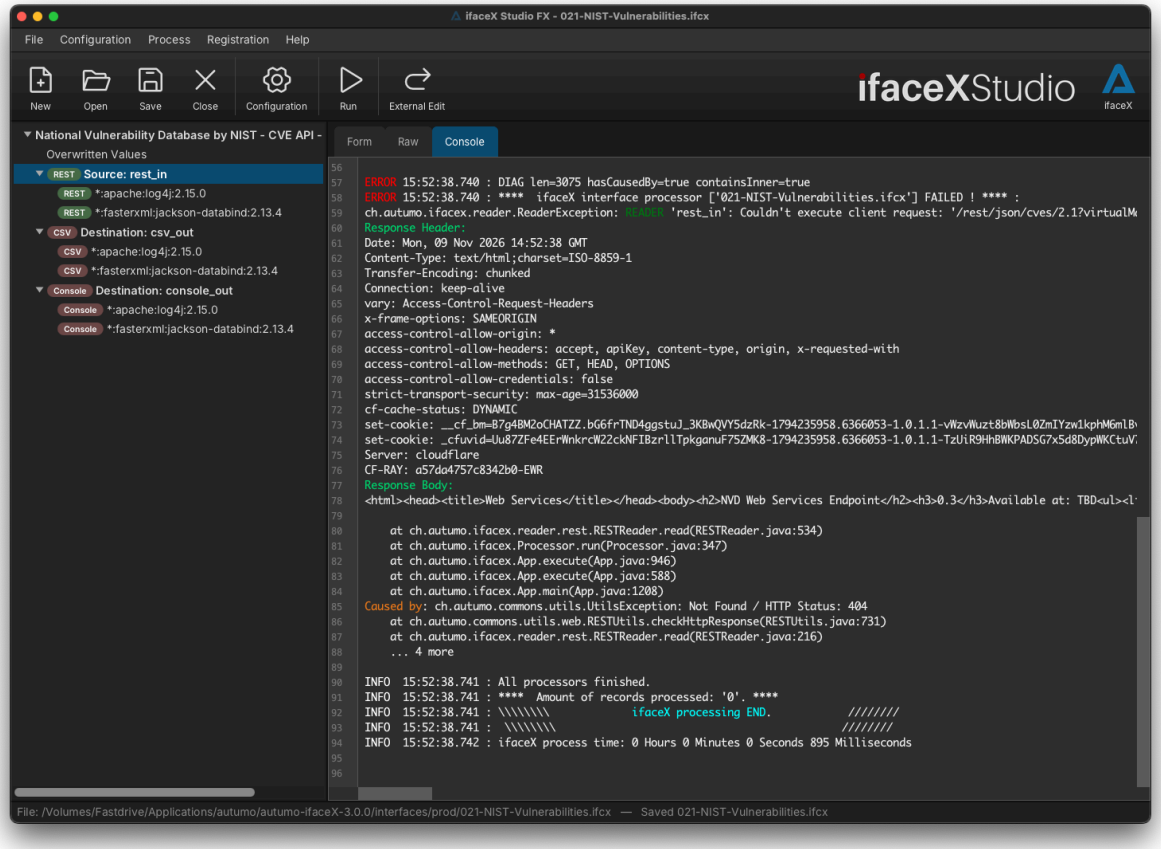


Figure 5: Running an IPC

By default, „**Debug**"-logging is on to get more information from the interface. As previously stated, and as a special function of the „REST Reader", you can also make a „**Root request**" for testing purposes, which delivers the first record only and open it within the „**Format JSON**" window..

7.1. Debug Mode

The debug mode (Menu „**Process —> Debug Mode**") can be turned off if not needed, but this is usually not the case when testing. Note that the running ifaceX instance uses different logging configurations in the backend, depending on if this is switched on or off.

8. JSON Formatter

The JSON formatter is opened when a „**Root Call**" for a REST reader has been executed and the first JSON record retrieved is then formatted and shown in the „JSON Formatter" window. This tool can be also used independently by choosing the menu „**Configuration —> JSON Formatter**". You can copy/paste any JSON string into the window and format it.

Note: The JSON formatter has a limit of 100,000 characters. If the result of a root request is greater than 200'000 characters, the result is truncated and not formatted!

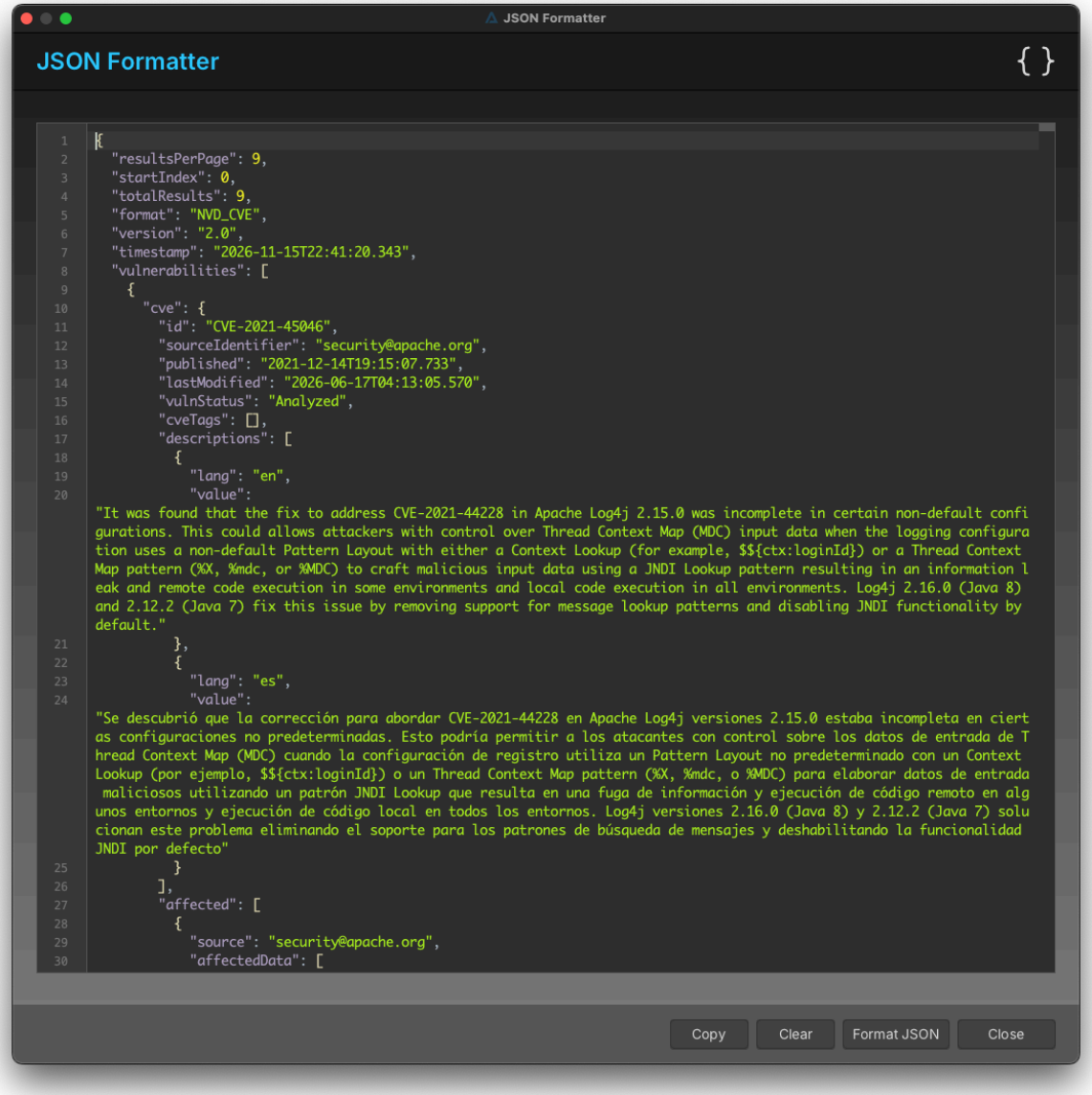


Figure 6: Format JSON

9. Encoder

The encoder is a stand-alone tool to encrypt passwords, secrets or any other sensitive information. For convenience, the reader and writer user interface masks provide implicit „mini encoders" below fields that can be protected by different encryption algorithms. There are also some fields, such as the „**Auth Body**" and „**Additional Headers**" in the REST reader, that can contain encoded values, e.g.:

Here's an example that is used within „Auth Body":

```
username:{2:BMRirUKbPPGO3nRBr5bUVw==}|password:
{3:moo1HzhdS4SrXybHx2tPNA==}
```

Here's an example if „Additional headers":

```
Authorization:{3:1aigmsk2QMHFGGBEytjeNEcCEhdBfTQ3/
JRH1eH9TuzRtsU5X2M5Hu+J76crzHvUTiSMdyHJRVM=}
```

Note: Only the values after „**:**" can be encrypted, not the preceded key!

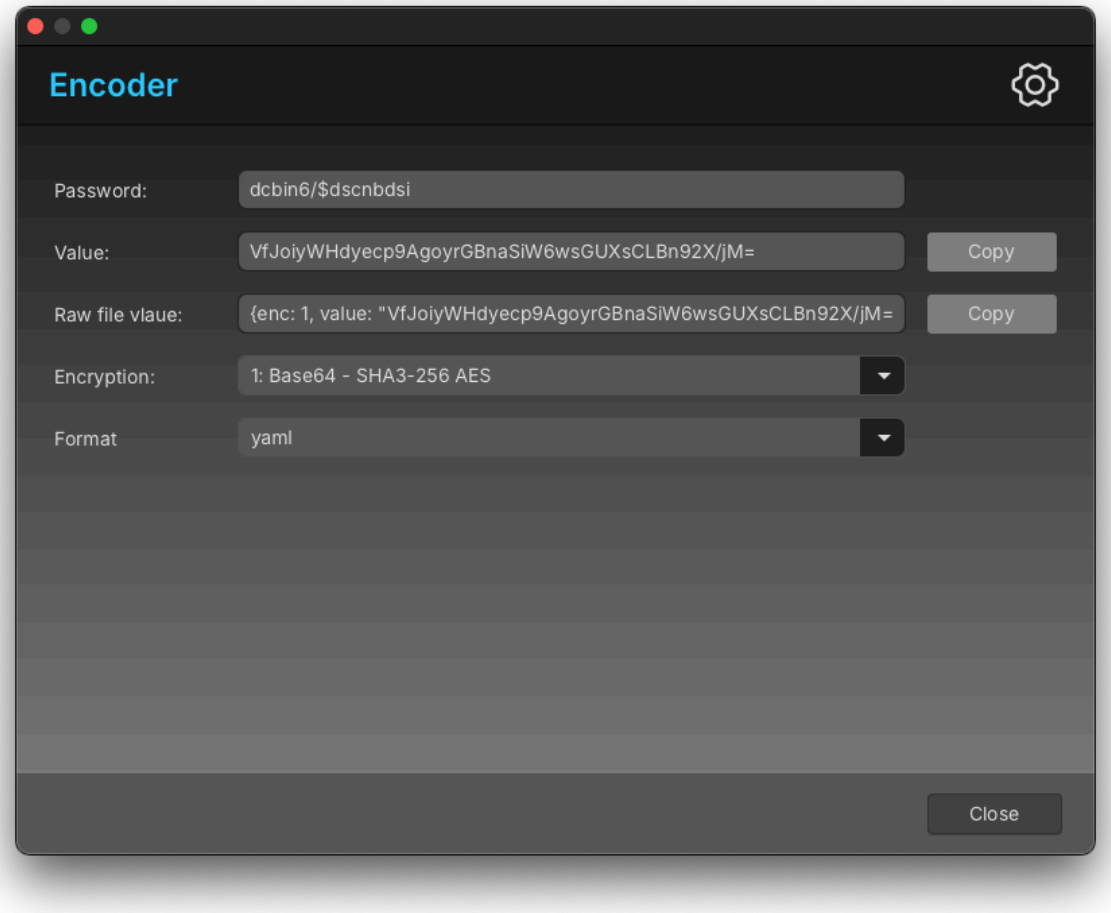


Figure 7: Stand-alone Encoder

10. Registering ifaceX

With the ifaceX Studio you can register an ifaceX instance if you have received a license: „**Registration —> Register an ifaceX instance**“. In order to do so, you have to choose your ifaceX instance directory location first and then enter all licensing information in the provided registration form:

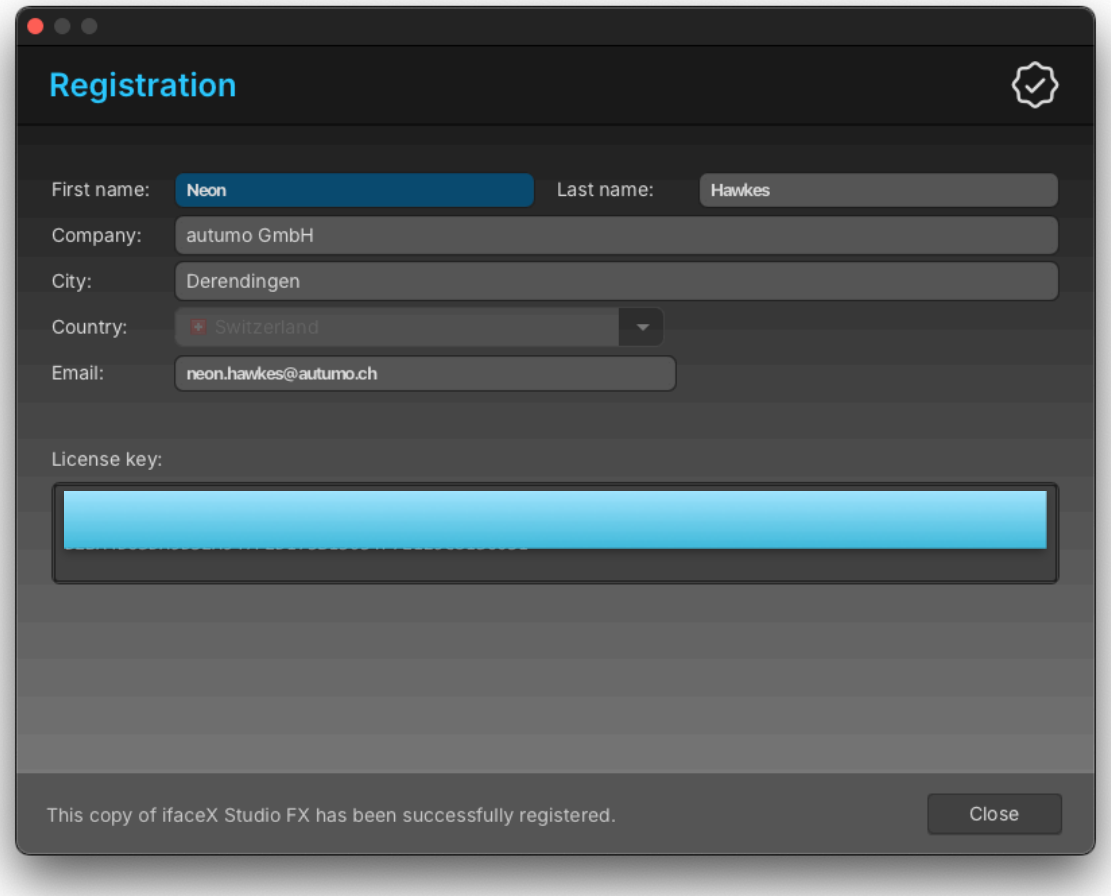


Figure 8: Registering ifaceX



11. Remove the App

The ifaceX Studio provides a proper way to remove all application data before you uninstall it; choose „**Configuration —> Remove App Data**". But do this only if you want to uninstall the application afterwards. It removes configurations settings and log files.

Note: It is not related to the registration of an ifaceX instance; this is an independent function not bound to the installation or deinstallation of the ifaceX Studio.

To uninstall the application afterwards, use your operating system uninstaller, e.g., on Windows: „**Control Panel —> Uninstall/Change**".

12. Help & Tooltips

In order to support you to work with the ifaceX Studio, the following information is in place:

- This manual.
- Possible additional information for ifaceX license owners.
  See also menu „**Help —> Open Online Documentation**".
- As previously stated: Dragging the mouse pointer over a user interface mask label shows a tooltip for certain input fields.
- Check for possible application updates per „**Help —> Check for Updates".**

Don't hesitate to contact us if you have additional questions and an ifaceX license.