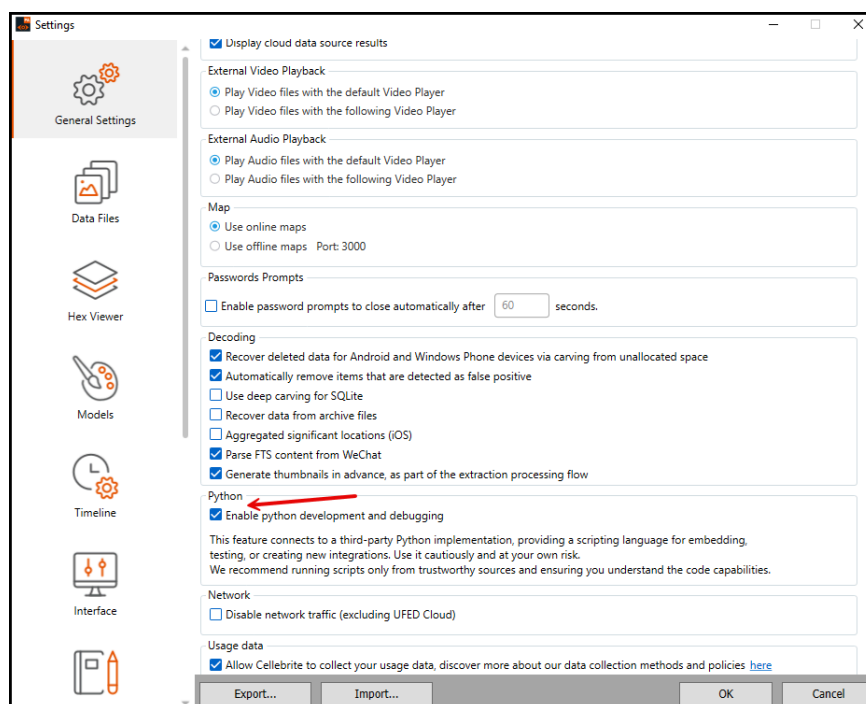# Python Integration

Python Modes

Decoding new models in this environment is achieved via interaction with the file system and the built-in-format parsers, such as SQLiteParser.

> Access to previously decoded models can be done via "read-only" mode, only. It is not possible to tag models in this mode.
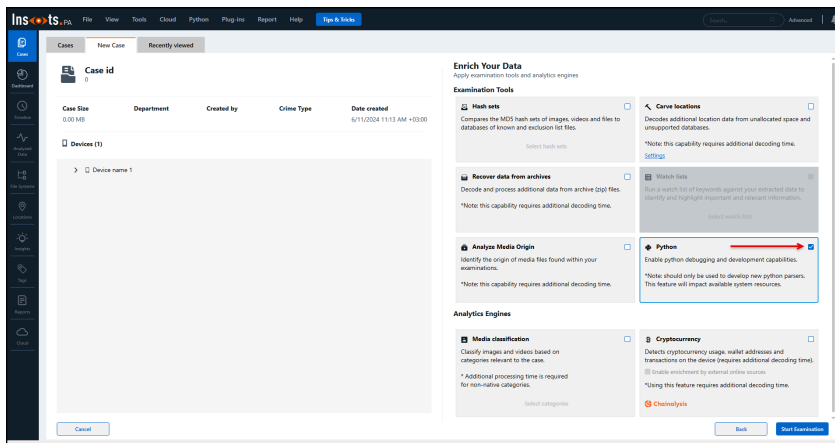
Develop a Python Script

To develop a Python Script and run it as part of the case creation workflow:

1. From the Inseyets.PA top bar, Select **Tools** and then from the drop-down list select **Settings**.

2. In the **General Settings** tab, under the **Python** section, check the check-box **Enable python development and debugging** and select **OK.**

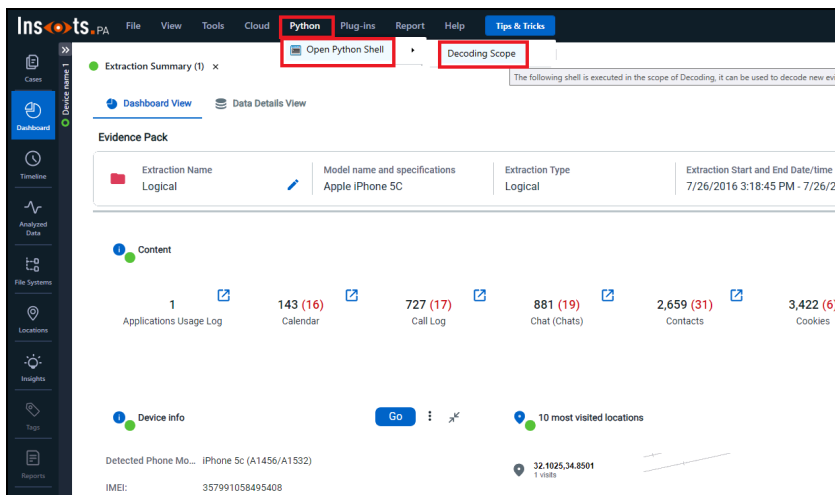A new Python tab is added to the top bar in the Inseyets.PA window.

3. Using the Python Shell to develop a new script:

   a. In the **Cases** tab, select **Add a Case** and create a new case with the extraction you intend to use to develop your new script.

   b. In the **Enrich Your Data** window, check the **Python** check-box to enable Python Development and Debugging for this case.

c. Click **Start Examination**.

   After decoding is finished, you will be able to open the Python shell.

d. Click the **Python** tab and select **Open Python Shell** and then **Decoding Scope**.

Use the Python shell to develop, debug and validate your script.

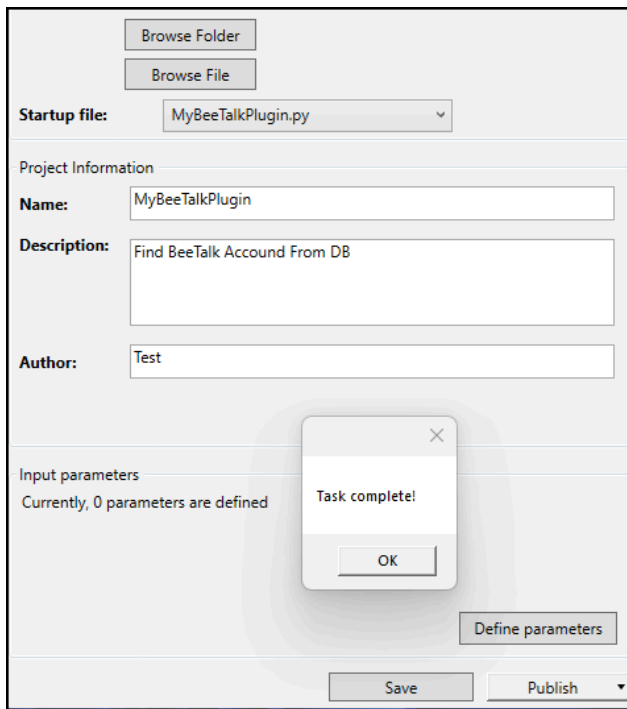e. Once this is done, save the script to a local ***.py file**.

4. Creating a Decoding Scope Plugin:

   a. Go to the main directory where Inseyets PA is installed and run the **PluginPackager.exe**.

      By, default it will be located in **C:\Program Files\Cellebrite Mobile Synchronization\Ultra Physical Analyzer\.**

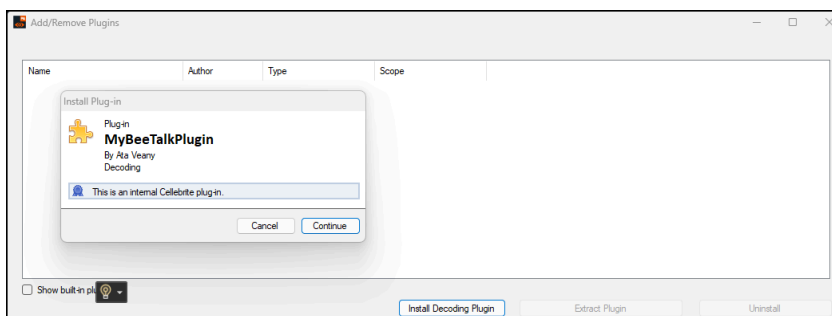   b. Within the Plugin Packager select you Python script.

   c. Fill in the relevant information and when the task is complete, click **OK> Publish**.

A TPlug file will be created in the target folder you provided.

5. Adding the Plugin to Inseyets PA:

   a. To use the newly created Plugin, it must first be added to Inseyets.PA. Click the **Plugins** menu and select **Add/ Remove Plugins**.
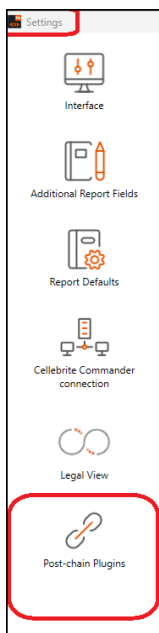

   b. Click the **Install Decoding Plugin** button, select the Plugin you wish to add and click the **Open** button.
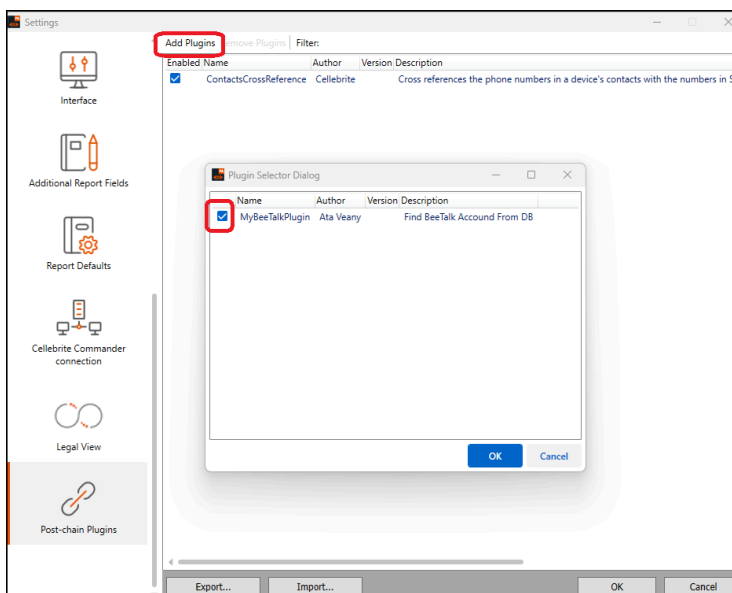
   A Pop-up will appear showing the Plugin details. To complete this action click **Continue**.

6. Adding the Plugin to run as part of processing (Decoding) of all extractions:

   a. Go to **Settings,** and click the **Post-chain Plugins** tab.

b. Click the **Add Plugin** and select all the relevant Plugins to be included. Click **OK**.

> This setting impacts all future cases opened by this Windows user on this machine.

7. Open a new case, as follows:

a. Select the extraction and required enrichments and click **Start examination**. Your Plugin will be executed at the end of the extraction processing.

> Python development and debugging is only available to Inseyets Pro license holders.