Program Feature Description

This document describes the features of a custom log analysis program.

Main Window Layout

Once launched, you will see a window split into two sections:
- Left: Tree view of the log, representing each depth as a node and nested depths as subnodes. Three columns are displayed: Message, Delta Time, and CDO Delta Time.
   - Message: Shows the log row in green (entering depth) or orange (leaving depth).
   - Delta Time: Time taken for the log to reach the row.
   - CDO Delta Time: Total time from start depth to its leaving point.
- Right: Traditional log view with the same color coding.

Each view can be scrolled separately or in sync. Views can be resized or collapsed to show only one.

If double click on the Row message of the Tree view the correspondent line in the Log view will be highlighted on yellow and move to that exact line double clicked on the message Tree view

Top Five: With the Main Window another popup window will appear with the top five most consuming reference line in the log, showing also the amount of time.

Attention: while loading the file, automatically the program will create a folder named with the filename of the select file and put the request document in pretty print in it

Raccomended: To have a complete material to be shared you can run the
Open Excel [Open button menu] which will create a resume _Overview.xlsx file and inside the folder put the request in pretty print, so you will have the resume info of all logs in one folder and the Response Request xml files in pretty print ready to be zipped and shared

Top Buttons and Features
- Expand Nodes: Recursively expands subnodes on each press.
- Close Nodes: Recursively collapses nodes to previous tree level.
- Expand All: Expands all nodes; clicking again collapses all to initial state.
- SiemensGPT:
   - Opens a popup with two sections: input log rows (top) and question (bottom).
   - Returns the AI's analysis below the question in green.
   - AI understands context, detects operations, and traces variables. Not guaranteed to solve issues.

- Search:
   - Highlights results in green with total/current count displayed.
   - Searches downward from current line. Use CTRL+F to focus and Enter to search.
   - Navigate with right arrow key or next button, with left arrow you go backwards
- XML Time Processing:
   - Analyzes response XML if available. Tree view popup with nodes.
   - Columns: Execution Time, Content, SQL Query.
      - Top 3 longest execution times per level underlined in red.
      - Content shows XML tags; SQL Query column shows parsed or raw query.
      - Right-click to on the row [Content or Sql Query] opens a mini popup where you can see or copy the Query/Content
   - Search bar opens nodes to matched rows and highlights them in yellow.
   - Analyze Queries:
      - Extracts all XML query nodes, summarizes time and structure.
      - Includes a copy button for parsed/raw queries.
   - Expand Critical Nodes: Opens most time-consuming nodes at each level.

- Compare Files: Compares two log files.
- Time Chart: Displays log timing graph with:
   - Y-axis: Total time in ms.
   - X-axis: Line number.
   - Toggle Derivative:
      - Shows graph of largest time gaps between rows.
   - Right-click a node to jump to the corresponding log line, and highlighted in yellow.

Open Button Menu

The 'Open' button is a menu with three sub-options:

- Open File:
   - Opens a file dialog allowing you to select a new log file for analysis.

- Select_in_all_files:
   - Opens a folder selection dialog. Allows searching across all log files within the selected folder.
   - A popup window displays search results with two columns:
      - File Name: Lists the files containing the search occurrences. Each filename acts as a collapsible node.
      - Found Rows: Lists the specific matching rows.
   - Right-clicking the filename opens the file.
   - Right-clicking a found row displays the row's content in a popup.

- Open Excel:
   - Opens a folder selection dialog and processes each log file within the selected folder.

- Extracts key information from the logs and generates a summary Excel (.xlsx) file.
- The Excel file is saved in the selected folder and a popup window displays the summary.
- Right-clicking a filename in the popup opens the corresponding file.

- Creates a folder with the name of each file analyzed and put inside the Request xml already in pretty print.

Shortcuts

Enter: Perform the Action

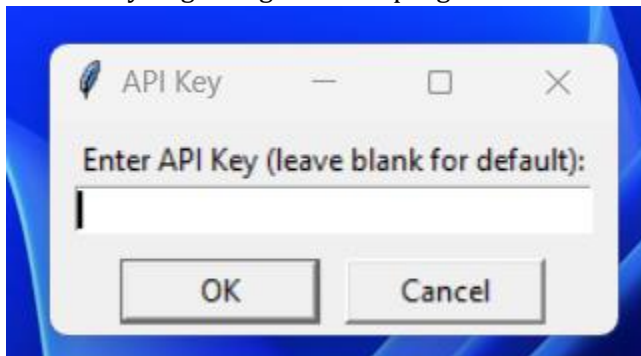Ctrl-f: Activates Search Bar

Ctrl-s: Copies the lines from: , to:
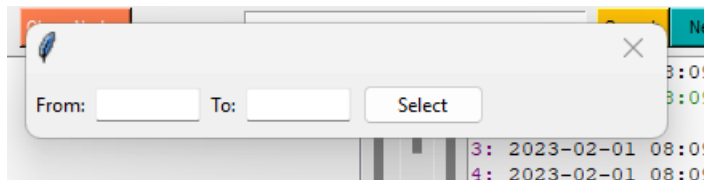
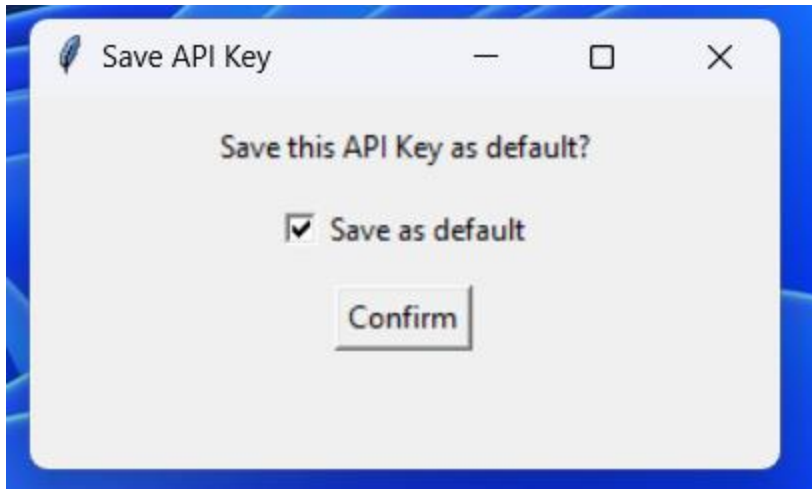

Tab it moves through [From:] field, [To:] field

Esc: Eliminates all the highlighted rows in the log

AI Token Procedure

At the very beginning once the program is launched you will see this view:

Insert you Token, once you insert your token press OK and this will be shown:

Please check Save as default, and then confirm, so you make it as default one.

Attention: If you do not specify your token you can continue using the default one belonging to the developer of the tool. So for a proper use and performance matter is recommended to use the Personal Token.

How to create a personal Token, please follow the below steps:

1) Go to this Website (https://my.siemens.com/#/landing), and Login

2) You will see:
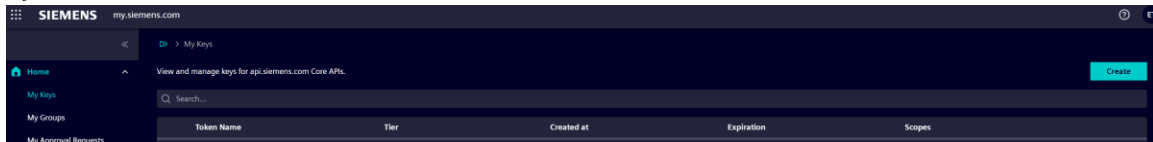
3) Press the Create Button in the top right:

1. Choose a name according to your preferences
2. Set the expiration date based on your requirements
3. Select Scope: LLM
4. Click Create

Attention: copy and save the token once created, as you will not be able to see it anymore

You can paste it in the:
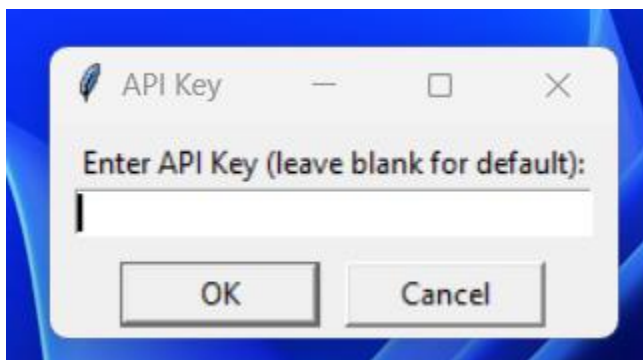
Save it as default and It will be saved in a [config.json] file in the folder where the .exe file is situated.