Etat Avancement 09/02/2022

⏱ Created	@February 3, 2022 2:42 PM
☰ Tags	
🗓 Date	@February 1, 2022
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- **Manipulation des Entrées et Sorties de l'Unipi.**

  - *Montage réalisé.*

- **Implémentation d'une Interface Homme Machine.**

  - *Adresse IP.*

- `Challenge :` **Utilisation de notre propre Base de données.**

  - *Sécurité.*

Missions

- Faut penser à faire une bonne configuration d'IP pour la raspberry PI

- Utilisation de SQL sans Xampp (sqld [daemon = serveur] et sql).


Connect your own database to Mervis with our brand-new SSCP-SQL Bridge application

6/11/19 Do you use your own database and you want to use it for storing data from a Mervis-running Unipi PLC? Thanks to the new SSCP-SQL Bridge application, you can now easily do so! By default, all Unipi Neuron and Axons programmable logic controllers are delivered with a license for using the

🔱 https://www.unipi.technology/news/connect-your-own-database-to-mervis-with-our-brand-new-sscp-sql-bridge-application-292
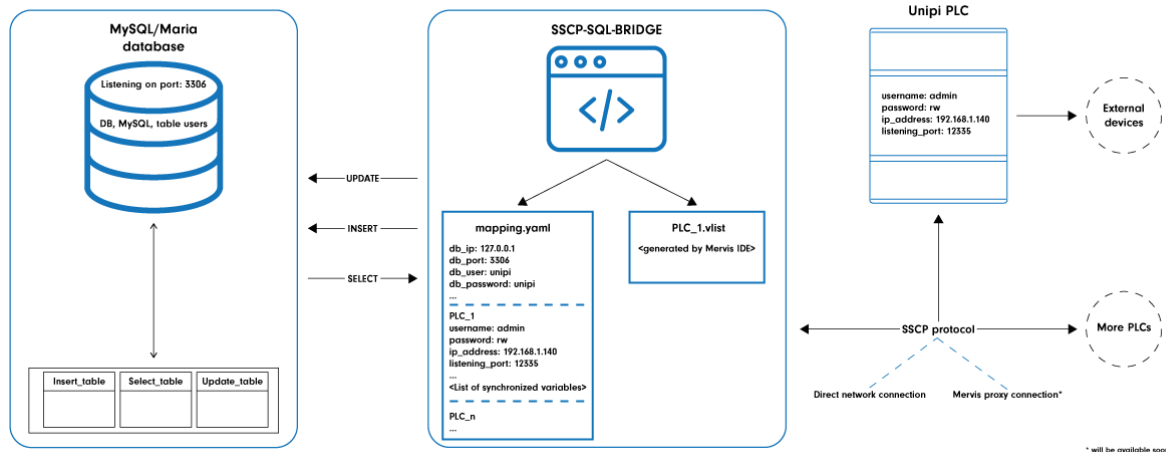
SSCP to SQL Bridge

This daemon-based service allows bi-directional data transfer between an Unipi unit running Mervis and a SQL database through an SSCP protocol (the proprietary protocol used by Mervis). The daemon can run on any Linux machine (database server or another remote machine) or directly on the unit.

https://kb.unipi.technology/en:sw:01-mervis:08-sscp-bridge

Configuration

All configuration consists of these two files:

1. **/etc/unipi/sscp-sql-bridge.d/mapping.yaml** is the main configuration file containing IP addresses and credentials for both database server(s) and mervis-running machine(s) as well as all settings related to the variables transferred. By default, the file contains a commented example configuration that **must be replaced by the right values according to the application.**
2. One or more **.vlist** file(s) containing a list of all variables in the Mervis project(s). These files are generated automatically by the Mervis IDE and are located in the main Mervis project folder in your Windows PC. These files should be copied (eg. using SCP) from the PC to the unit/server where this toll will run. Default path within the unit/server is /opt/unipi/data/ and can be changed in the **mapping.yaml** file. This .vlist file should not be edited manually.

Make sure the configuration files follow the valid YAML format. An online YAML validator (such as this one https://codebeautify.org/yaml-validator) can be used to ensure this. Do not add any extra fields that are not listed in the example.

The structure of the mapping.yaml file is described below.

Respect YAML structure of the file. The best way is to edit the example installed by default.

- **plc_n** list of addressed units running Mervis — More than 1 unit can be defined
  - **sscp_ip** — IP of machine with mervisrt running (can be 127.0.0.1 if the daemon runs locally)
  - **sscp_port** — TCP port which mervisr listen on (default 12346)
  - **sscp_username** — sscp credentials, can be set through Mervis IDE
  - **sscp_password** — sscp credentials, can be set through Mervis IDE
  - **db_user** — DB server login
  - **db_pass** — DB server password
  - **db_ip** — DB server IP (can be 127.0.0.1 if the daemon runs on the same machine)
  - **db_port** — Database server port (3306 is usually the default)
  - **db_mysql_schema** — DB schema name
  - **vlist_filename** — list of variables (file generated by the Mervis IDE)
  - **variable_sets** list of operation groups — More than 1 operation group can be defined per every unit.
    - **type** — type of operation (select, update and insert operations are supported)
    - **set_name** — name of the set consisting of one or more variables
    - **table_name** — name of table within *db_mysql_schema*
    - **reading_period** — given in 100ms steps
    - **vars** — list of variables belonging to the group
      - **var_name** — variable name in Mervis project
      - **field_name** — column name in *table_name*

remplir vehicules avec compresseur

client : Compter le gaz qui rentre dans chacune des voitures.

Benoit Delanoue.