

1 INTRODUCTION

- The FOM-DOM system is a logistic control tool designed by EPM Gas Technology which has been integrated into the Global Gas Energy products.



CNG and NG CNG discharge dispensers operator needs

- **Data Analysis**
Charging at mother station and discharging in client station operations Systematic analysis.
- **Logistic optimization**
Routes optimization optimization of the number and type of vehicles to use in each route /client.
- **Monitoring**
Balance of gas between what is charged at mother station and what is sold at daughter/ industrial stations. Knowledge of parameters charged for billing.
- **Real time**
Access to the data in a remote mode and at real time.

FOM/DOM System

- FOM-DOM is a designed tool to cover the CNG operator needs and NGV private stations.
- Accumulate in a database the details of the charging or discharging operations at mother stations and at your client stations.
- Analysis of parameters and automatic generation of reports.
- Round- trip analysis either for a client or a specific transport vehicle.
- Vehicle identification and automatic management of charging /discharging parameters.

FOM system

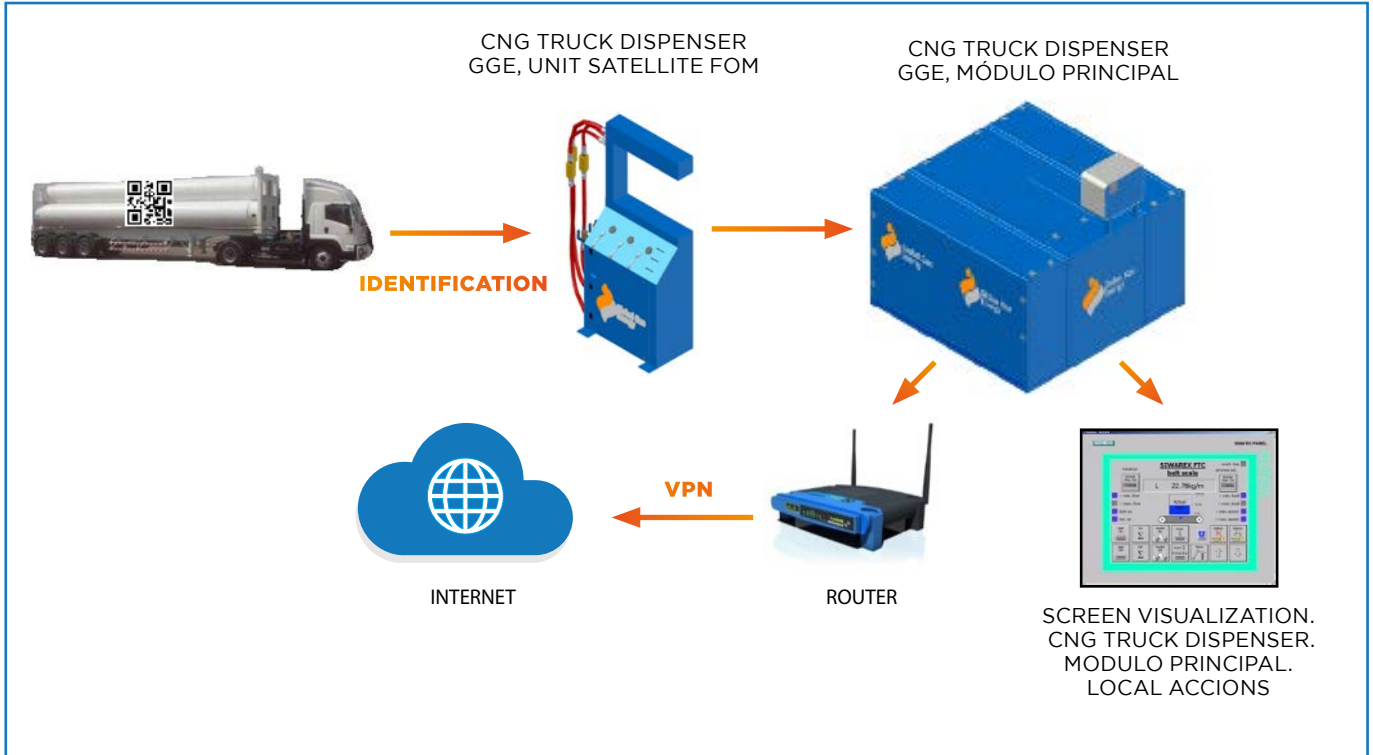
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DOM system

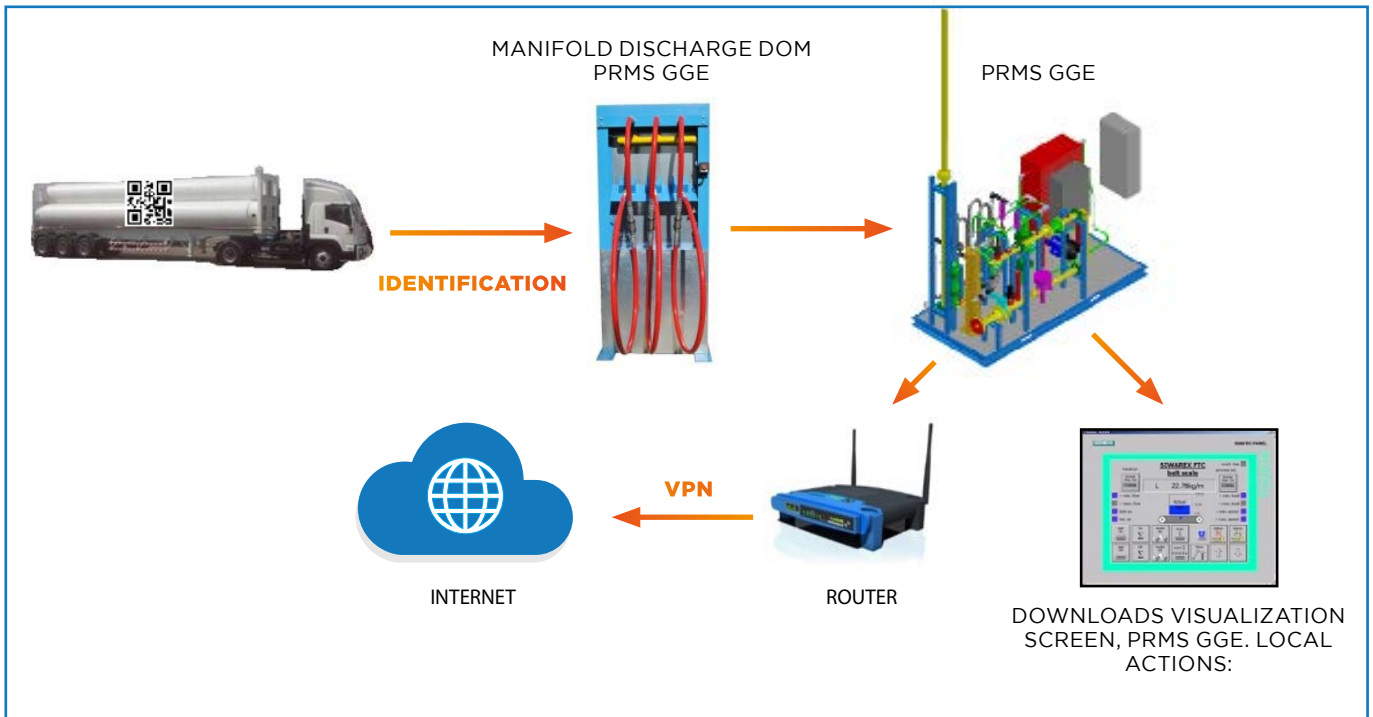
- The system DOM (DEFUELING OPERATION MANAGEMENT) is a tool aimed to be installed in CNG decompression stations or at daughter stations for CNG supply which allows to assign to the system the quantity of gas delivered by a CNG transport vehicle according to the station's metering system.
- DOM system differs when it is at a decompressing installation for industrial use / city gate where the gas is counted at the outlet meter or a NGV where the gas must be counted through the sum of all the filling equipments.

2 OPERATION SCHEME TYPE

Mother CNG station

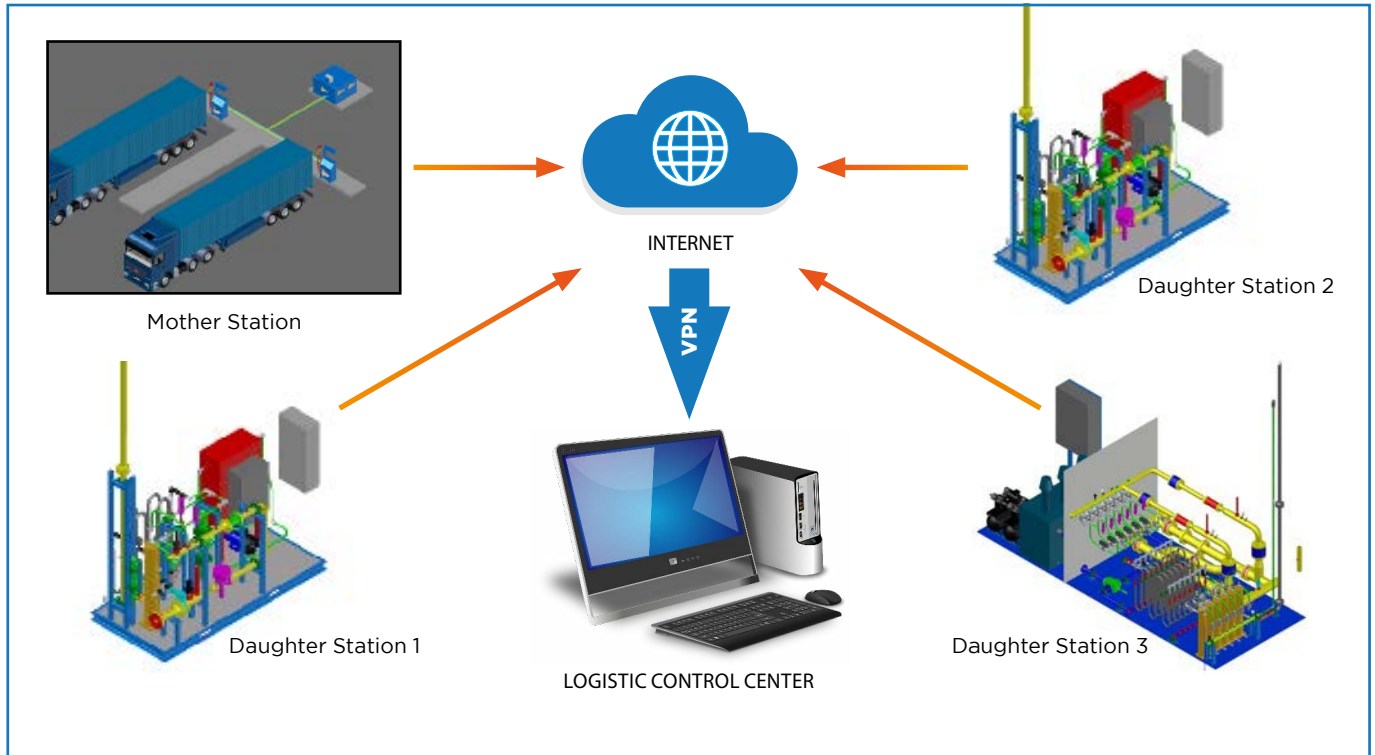


CNG daughter Station



2 OPERATION SCHEME TYPE

Control Center



3 FOM/DOM COMPONENTS

■ MOTHER STATION COMPONENTS:

- › CNG TRUCK DISPENSER Global Gas Energy with FOM option.
- › Conexión a Internet (VPN).

■ COMPONENTES ESTACIÓN HIJA:

- › PRMS y MANIFOLDS Global Gas Energy con opción DOM.
- › Internet Connection (VPN)

■ LOGISTIC CONTROL CENTER COMPONENTS:

- › Work station FOM/DOM, Licences and instalation. Supplied by Globas Gas Energy.
- › Internet Connection (VPN).

4 FOM/DOM APLICACIONES

■ APLICACIONES FOM/DOM IN STATION:

- › Vehicle identification and filling/emptying program assignment depending on the type of vehicle.
- › Local information from charging /discharging operations.
- › Seed files for operation.

■ LOGISTIC CONTROL CENTER APLICACIONES:

- › FOM and DOM CCL applications.
- › Gas balance per vehicle (charged gas / discharged gas).
- › Gas balance per route or client (gas metered in mother station over gas metered in client).
- › Round Trip per route or client. Average flow.

5 FOM APPLICATIONS

■ FOM APPLICATIONS IN STATION:

- › Vehicle identification and filling/emptying program assignment depending on the type of vehicle (maximum filling pressure, filling temperature, volume charged).
- › Detailed visualization of the last operations done.
- › Seed file generation with data of each operation.

■ LOGISTIC CONTROL CENTER APPLICATIONS

- › Database of operations.
- › Automatic generation of reports filtered by dates and vehicles.
- › Charging Volume/ Pressure per vehicle.
- › Residual Volume /Pressure per vehicle.
- › Charging time per vehicle.
- › Station volume charged.

6 DOM APPLICATIONS

■ DOM STATION APPLICATIONS

- › Vehicle identification and filling/emptying program assignment depending on the type of vehicle (minimum emptying pressure, minimum emptying temperature).
- › Detailed visualization from the last operations done.
- › Generation of the seed file with the data of each operation.

■ LOGISTIC CONTROL CENTER APPLICATIONS:

- › Round trip per vehicle.
- › Discharge initial Volume/ pressure and efficiency per vehicle.
- › Residual volume/pressure per vehicle
- › Discharging time per station/ vehicle.
- › Discharged station volume.