



# EMPGEST SYSTEM

EmpGest is a forklift fleets management system. It implements access control and intelligent machine, equipment and user management, in order to achieve production maximization as well as maintenance associated costs minimization.

The Empgest Updater implements a database in which, permission tables, system configurations, as well as all EmpGest associated, equipment and module generated parameters, are stored.



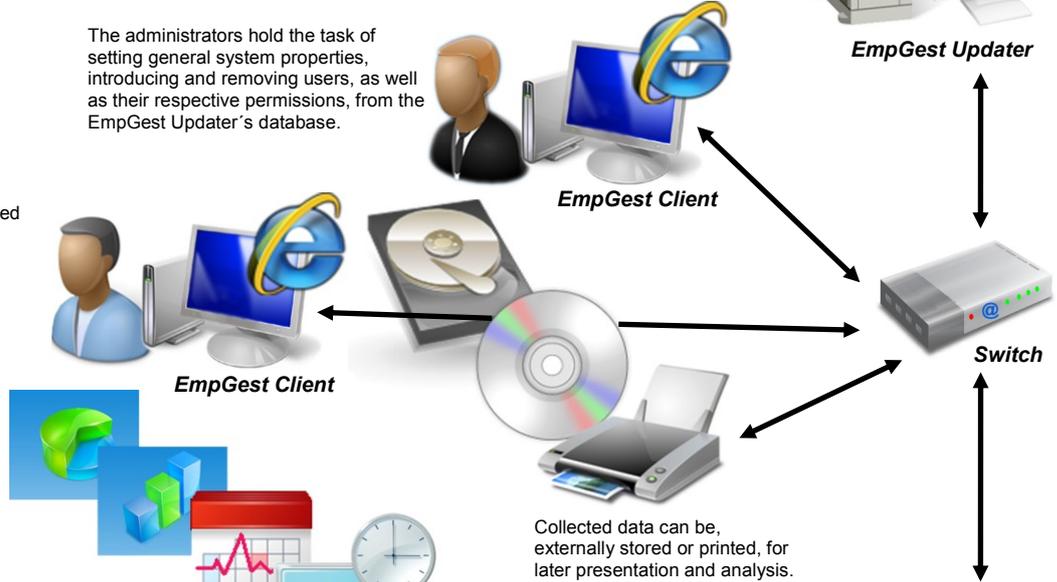
System's access is accomplished through EmpGest Client, a software application, implemented in Internet Explorer, which translates the interface with users. In addition, it organizes and processes all collected information, generating analysis reports. Its access is restricted to authorized users only, through the use of a personal password system.

The administrators hold the task of setting general system properties, introducing and removing users, as well as their respective permissions, from the EmpGest Updater's database.



EmpGest Updater

The system provides a series of parameter tables, maps and graphs, for a better machine and user assessment, in terms of performance, productivity and reliability.



EmpGest Client

EmpGest Client

Switch

Router

Internet

Data is presented both in a graphic and textual way, in order to facilitate analysis and evaluation.

The EmpGest System can be remotely accessed, from any point in the globe, via internet, for analytic and administrative tasks.



Collected data can be, externally stored or printed, for later presentation and analysis.



The RFID Module implements machine access control. An RFID card is attributed to each machine user. This card can contain company logos, photo, name and user ID number.



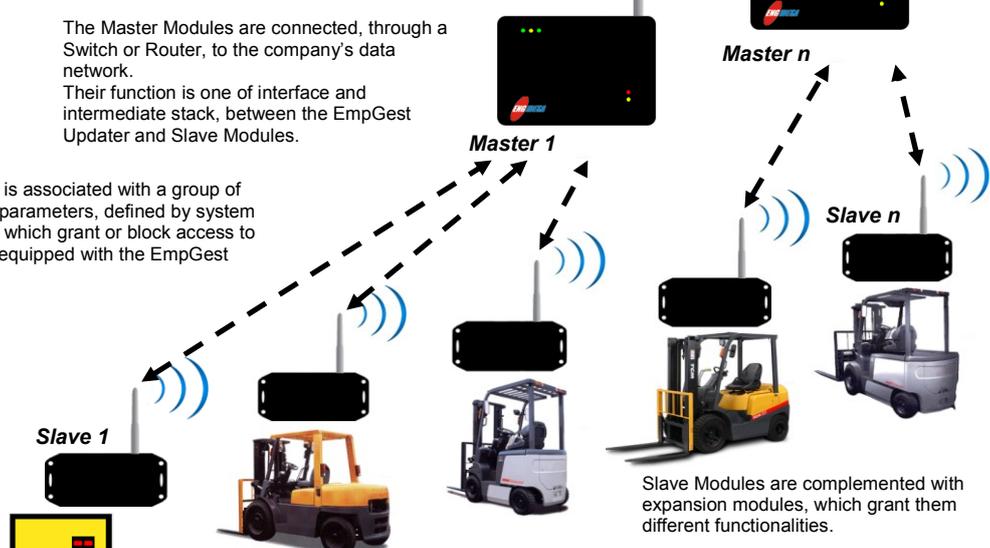
Remote EmpGest Client

The Master Modules are connected, through a Switch or Router, to the company's data network. Their function is one of interface and intermediate stack, between the EmpGest Updater and Slave Modules.

The RFID card is associated with a group of Machine/Time parameters, defined by system administrators, which grant or block access to each machine equipped with the EmpGest System.



It is possible to assign special usage rights, allowing access to a group of machines. This is particularly useful for, low-level system administrators and maintenance managers.



Slave 1

Master 1

Master n

Slave n

Slave Modules are complemented with expansion modules, which grant them different functionalities.

Each Slave Module interconnects with the nearest Master Module, for data transmission and reception. (FM 433 MHz)

The installation of EmpBat Modules both in batteries and battery chargers, enables the intelligent management of a forklift fleet's battery stock. Thus maximizing their useful lifetime and minimizing costs with systems maintenance.

