

eLeveling System

SOFTWARE FOR SUPPLY LOGISTICS
MANAGEMENT

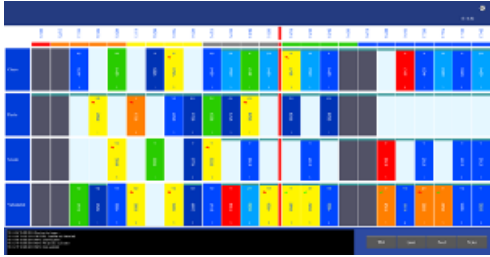


LOAD PREPARATION MANAGEMENT, WITH
PRODUCTION LEVELING, FOR PUSH-PULL SUPPLY
CHAINS

eLeveling System

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eLeveling Board

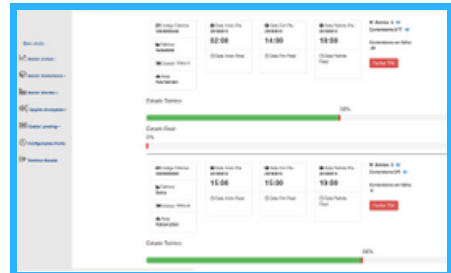


Logistic operator

- Real-time monitoring of supply logistic operations, load preparation (LP) and stocks
- Automatic printing of kanban cards
- Past and future view of kanban cards
- Sending alert notifications
- Ready to use with touch screen

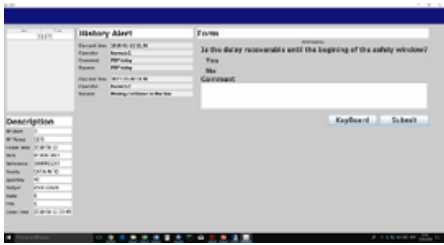
Administration portal

- Web portal for integrated management
- Assisted upload of the production plan and orders
- Leveling of kanban cards by effective working time
- Uniform load preparation times
- Distribution of workload by operators



GAP leader
Logistic supervisor
Master Scheduler

App Line



Production GAP leader
UAP

- Software application for production lines
- Allows to respond to crash notifications and reschedule operations
- Non-intrusive, auto-synchronized, with automatic alert management

Multiple views

- Real-time views of load preparations, stocks and eLeveling boards
- Configurable by the client in number, organization and distribution



Public access (intranet)

App iOS



Logistic operator
Master scheduler
UAP
PC&L
Plant manager



- Monitoring and response to alerts
- Auto synchronization between App iOS and other applications

Background service

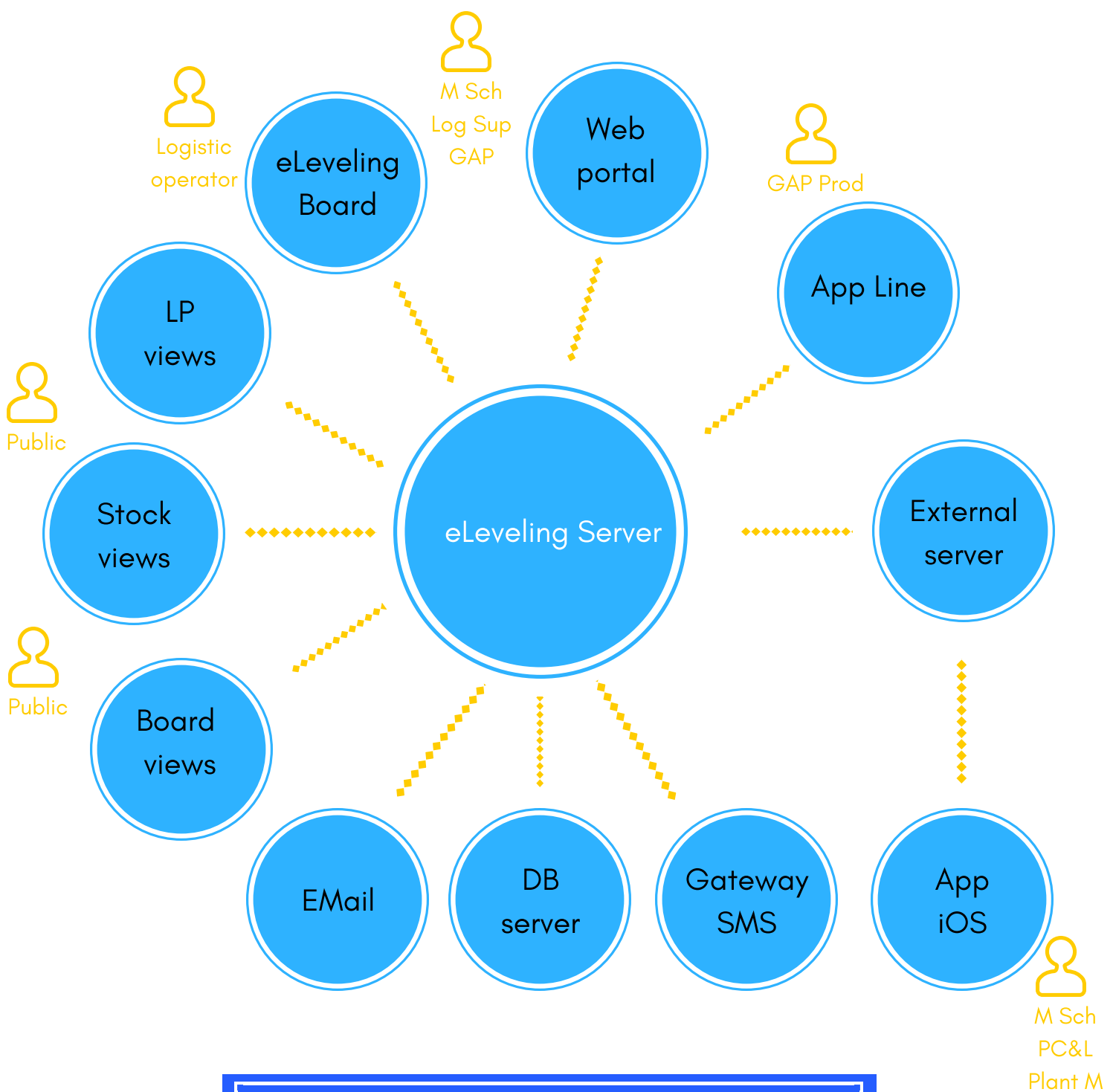
- Automatic alert processing
- Application synchronization
- Automatic data backup

Complete and flexible solution

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System architecture



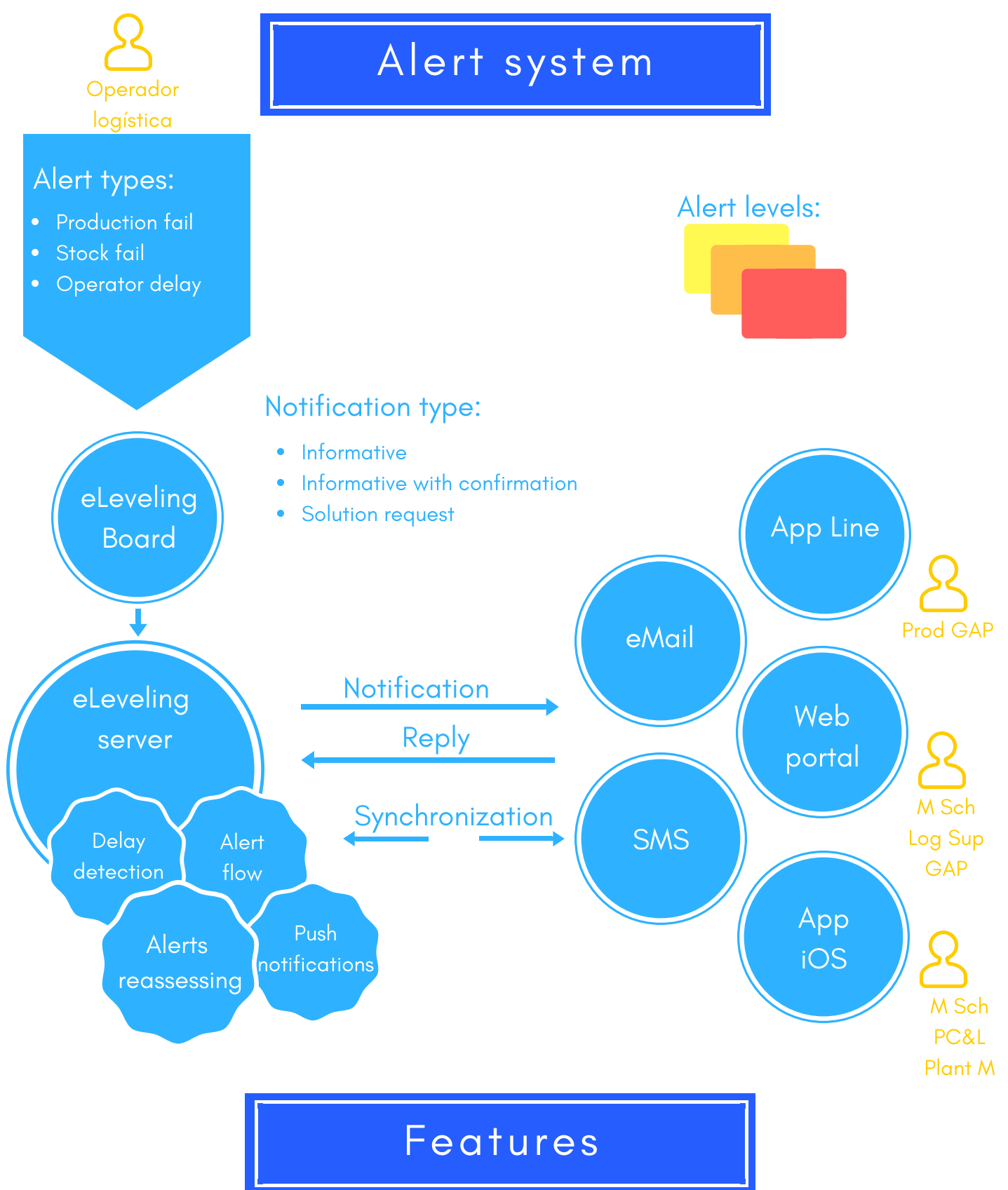
Main features

- Push-pull solution - which takes the best of the push and pull models for supply logistics management
- Supply follows the estimated demand (push) based on the production plan
- The deliveries follow the demand (pull) based on the effective orders
- Automatic production leveling, with uniform load preparation times, according to the working time of cell/production line
- Distribution of logistics operator workload by eLeveling board
- Safety windows configurable by client
- Real-time information of the load preparations, stocks and eLeveling boards - from any point of the manufacturing plant
- Automatic management of the slots for the load preparation
- Multiple eLeveling boards - organized by customer groups
- Multiple user profiles (logistic operators and supervisors, GAP leaders, master schedulers and factory manager)
- Notification of inconsistencies and non-compliance of the load preparations
- ERP and CRM integration
- Delegation of functions for predefined periods of time
- Multilingual system - English, French, Spanish and Portuguese

Effective and productive

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- Alert system to report anomalies in the supply logistic operations (load preparations and stocks)
- Manual alerts triggered by logistic operators
- Automatic alerts triggered by delayed operations or lack of response to requests
- Notification of logistics and production alerts
- Multiple notification channels (App Line, iOS App, email, SMS and web portal)
- Recipients and communication channels configurable by alert level and product family/production group
- Different alert levels (Yellow, Orange and Red)
- Automatic processing of the flow and alert status, including alert level rescheduling
- Auto synchronization of alert status between applications and users
- Non-intrusive but persistent solution (App Line) to request response to alerts resulting from production failures
- Possibility to have multiple App Lines by product family/production groups/production lines
- iOS App to view and respond to alerts, with automatic synchronization between iOS applications and other subsystems
- Gateway for SMS alerts
- Workflow flexible and adjustable to different scenarios and contexts of use

Real-time monitoring, faster response and recovery

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Administration



Features

- Responsive Administration Portal
- Distinct profiles - GAP leader, logistic supervisor, master scheduler and system administrator
- User administration - create accounts, associate users with profiles and families/production groups, and delegate functions
- Management of references, containers, families, customers, factories, load preparation slots and working schedules
- Administration of eLeveling boards - association of factories and load preparation slots to eLeveling boards
- App Lines administration - association to families/production groups/production lines
- Access management of iOS App users
- Management of the production leveling - upload production plan and orders; and set the working hours, safety windows, and others
- Kanban cards management - add, remove and change
- Management of the alerts workflow - profiles association to different alert types and levels, by product family or production group
- Check status and reply to alerts
- Views for real-time monitoring of the state of the load preparation, boards and stocks

Complete control

Techwelf

TECHNOLOGIES FOR WELFARE

Techwelf is a company dedicated to the optimization of processes and systems through technological innovation. We work in the most distinct areas, from the industry to the services, cover the entire development process of product and services.

We develop products and services according to customer needs, from the hardware to cloud integration, based on an integrated approach that considers the different dimensions of the product/service: functional, aesthetic, productive, logistics and maintenance.

We are specialists in the development of a decision support system, from the data collection processes, to its transformation into information or knowledge, either by analytical processes or by predictive methods.

We work with the latest ultra-low power technologies in designing innovative solutions for the Internet of Things.

We develop multi-platform applications (Android and iOS) with Cordova and Xamarin, but also with native technologies (Java and Swift).

We develop responsive portals with different types of technologies (PHP, Django, JSF, .NET).

Each customer is a business partner and we are committed to mutually beneficial relationships - our success is the success of our customers.



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