

# Software suite *intelliware* — Distinctive system functionalities



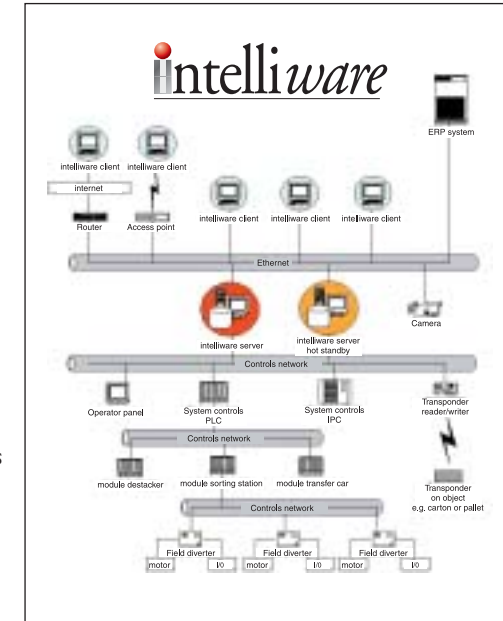
Intelliware is a Visual Basic application based on Microsoft SQL server. Therefore it easily integrates in the Microsoft Office suite, which guarantees easy operation and enables the end-user to export data to MS-Excel and MS-Access and generate its own tailor made reports.

## ● Main features

- Operational flexibility
- Real-time and reliable production information
- Tracking and tracing
- Diagnostics tools to improve performance
- Remote system and production monitoring
- On-line operation and maintenance assistance
- Enabling effective response to unexpected events
- Forecast of maintenance activities

The Intelliware configuration is a client-server application with Ethernet communication. Located at strategic locations, remote clients for the operator, the production manager and the maintenance manager are available to access the central server.

As an option a hot stand-by configuration is possible (HP/Compaq Proliant) for maximizing data/system availability.



## ● Unique benefits

- **Dedicated SCADA package for the material handling systems**  
Where most SCADA software is developed for the process industry
- **Extension of the CSi controls concepts**  
Full integration with the robust logistic controls philosophy of CSi
- **Event driven**  
Communication only takes place when needed, there is no polling of data
- **Proven data integrity in compliance with the General Food Law**  
The unique data check protocol (SCALP) ensures data reliability, that even meets the high standards in the tobacco industry
- **User friendly and self-explanatory interface**  
Adjustable to customers requirements
- **Standard EAN 128 data handling available**  
Able to handle any data format including the longer labels like EAN 128
- **Multi client access**  
Connect as many clients as MS SQL licence allows
- **Based upon MS SQL database**  
Industry standard database, easily accessible from MS Word, MS Excel etc.
- **Built for logistic systems**  
All modules like data manipulation, barcode and RFID tag reading, tracking and tracing



## Reference list

Philip Morris, Procter & Gamble, Tetra Pak, La Costeña Mexico, Jumex Mexico, International Paper, Gillette, Ningbo Cigarettes

Intelliware is the unique CSi software suite that provides supervisory control and management information of your material handling system. Intelliware is a powerful SCADA system specifically developed for logistic systems with fast real-time data handling, along with extra functionality modules for tracking and tracing, data manipulation and production reports. It gives the operator, production manager as well as the maintenance manager the tools to operate their logistic system cost effectively and with the maximum uptime. Based on the latest information and statistical overviews generated by Intelliware, responsible production decisions are easy to make. Intelliware also offers the possibility of servicing via remote control and is designed with an excellent and easy to understand human interface. The package is built up by three separate stand-alone modules: Intellicontrol, Intellitrace and Intellisupport.



IMPROVING PERFORMANCE



IMPROVING PERFORMANCE

CSi • Lissenveld 41 • 4941 VL Raamsdonksveer • P.O. Box 70 • 4940 AB Raamsdonksveer, the Netherlands  
Tel: +31 162 575 000 • Fax: +31 162 575 111 • e-mail: info@csiweb.nl • www.csiweb.nl  
CSi de México S. de R.L. de C.V. • Telephone: +52 55 5682 4228 • Telefax: +52 55 5682 4404  
CSi, UK Office • Telephone: +44 1276 686 862 • Telefax: +44 1276 682 397  
CSi GmbH Germany • Telephone: +49 2852 509 990 • Telefax: +49 2852 5099 91

The Intellicontrol module is for the daily operations of the logistics systems by the operator, the production manager as well as the maintenance manager. A graphical animated layout of the system is a direct copy of the installation in the plant.

### ● Detailed views

A zoom function enables scrolling through detailed views of the installation. These displays also provide system controls functionality like disabling parts and manual control. A status screen indicates whether errors and/or warnings are present. These are easy to resolve with the customised help function, containing information on a specific message.

The easy operation makes it possible to quickly resolve errors and to maximize the uptime of the system resulting in lower overall costs.

### ● Fast real-time information

Intellicontrol not only provides fast real-time reliable product information for every position in the installation at any time, but also more strategic information like counting of crates, cartons, trays or pallets produced per line respectively per product for the production manager. Of course these reports can be displayed on the screen and/or printed.

### ● Overall accessibility

To fully integrate the logistic system with the rest of the plant, all the product information can be extracted from, and fed back to, the client-specific ERP and/or WMS system, including for example label information. This way all product(ion) information is easily accessible at the different management levels making it possible to make responsible and quick decisions on the production flow. This results in costs savings through an improved streamlined process, fault reduction and performance improvements.

### ● Adequate maintenance information

For the maintenance manager the first level of maintenance information for each position can be called up in the layout screen like spare parts, maintenance manuals etc.

Intellicontrol supports efficient production methods maximizing uptime and minimizing unforeseen stoppages, thanks to the continuously real-time availability of production data.



Intellitrace is a software module developed for fast data handling and data tracking and tracing throughout the entire material handling system.

### ● Monitoring data

The data of packs and clustered packs on pallets will be monitored while packing and conveying through the total system. This tool makes it possible to see all the data on the screen at every discrete position. In-feed and out-feed of products will be monitored closely and requires operator data entry or deletion at the manual P&D stations.



### ● Customs validated

The data transfer to and from other automated processes linked to the material handling process will take place automatically. The data tracking and tracing of CSI is extremely reliable and for example has been validated by Customs to meet their own high requirements to monitor the input and output of the tobacco production plants.

### ● Exchangeable data flows

A thorough analysis of all operational processes and data entry points is essential before the software can be effectively implemented. Most of the critical control points are already known, thanks to HACCP, and CSI has subsequently combined these material flow points into existing internal logistical routing with the program of requirements laid down by the General Food Law. The result is a clear plan of action that simultaneously defines the necessary hardware and specifies which data have to be coupled to the process information from the factory floor. After all, the integrity of the data is of crucial importance to the downstream process. As with Intellicontrol, the data can be exchanged with ERP and WMS systems.

### ● Full compliance with GFL

Intellitrace offers our customers an ultra reliable module for tracking and tracing of their products throughout their logistic system in full compliance with the mandatory General Food Law (GFL).



To ensure the maximum availability of the installation, Intellisupport is the finishing touch. The maintenance control module has several functions to monitor the status of the system and to plan preventive maintenance actions.

### ● Preventive maintenance

In the layout screens, each location can be selected for supplementary information eg drive information, spare parts, etc. As part of the preventive maintenance plan, a notification system will monitor the operation of the system, eg actual running hours of drives etc. A message window will display possible maintenance requirements.

### ● Dedicated maintenance strategy

Obviously reports can be generated with an overview of the status of the system in terms of running hours. All these functions enable the customer to perform a responsible and dedicated maintenance strategy on their installation.



### ● Remote diagnostics

A special feature is the possibility for remote diagnostics. This module enables CSI, with permission of the client, to monitor and service the installation from our head office in Raamsdonksveer. Our engineers will have access to the same operator tools as the local plant operators. Furthermore as an option it will be possible to monitor the installation by remote (CSI operated) cameras, which will be extremely helpful for fast problem analysing and correcting. This remote diagnostics system supports CSI and therefore the customer in providing a cost effective and efficient service with very short reaction times.



### ● Off site monitoring

This feature could also be made available within your own organisation and makes it possible to have a central service department which will monitor the installation off site.