

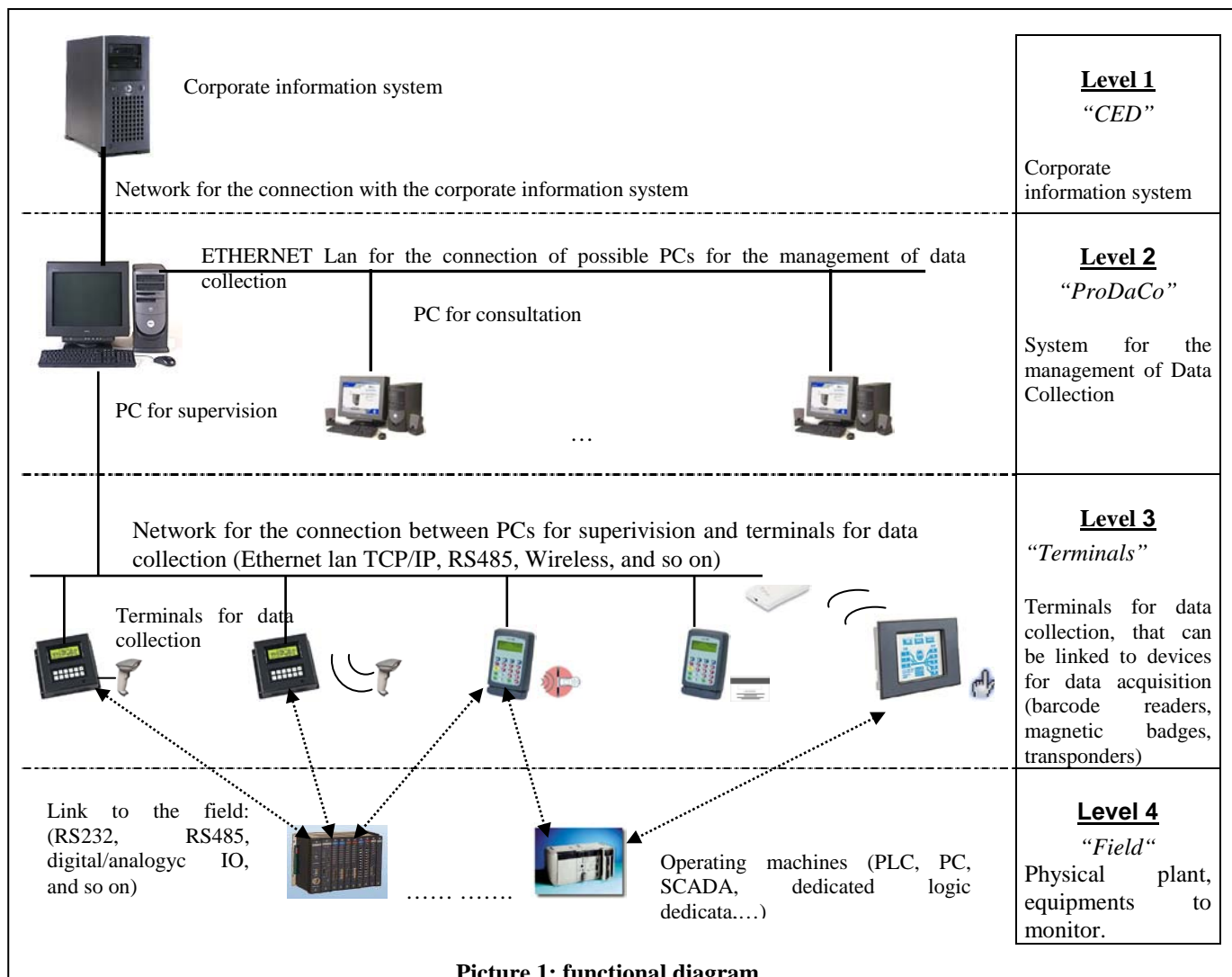
SYSTEM DESCRIPTION

This data collection system is a software application that allows you to collect and process production data, recorded automatically using equipments that are directly connected to production devices or inserted by users using handheld terminals or reading devices (barcode readers, transponders, magnetic badges, and so on). This system allows the company to check real productivity, recording times and reasons for stops in production, that can be linked to shifts, users, products and production orders, too.

It issues detailed reports with the list of equipment stops in a selected period of time and statistical reports with the trend in productivity.

It has been developed considering customers' specific needs, it can be completely customized in its graphic display, in report printing, in the connection to operating machines and in devices chosen to record information.

Thanks to its modular architecture it can be integrated later on with additional modules like the link to the corporate information system for data exchange, the advanced management of warehouses and departments, the management of registries, the management of production orders.



Picture 1: functional diagram

PRODUCT CARD

Purpose:

To record production data (employees' attendances, reasons and times for equipment stops, and so on) with the possibility of getting statistics about productivity, that can be eventually linked to shifts, products and production orders.

Architecture:

- PC for supervision with Windows 95, Windows 98, Windows NT, Windows 2000 or Windows XP as operating system, according to customer's needs;
- Connection to the corporate information system by the Lan (optional);
- PC for consultation (optional) linked to the PC for supervision by the Ethernet lan;
- Fixed or portable terminal linked to the PC for supervision through the Ethernet lan, serial RS485 lan or radiofrequency connection; in function of needs, the user can have at his disposal terminals with characters or graphic ones in black and white or with colours, that can be eventually provided in Touch-screen mode;
- Peripheral devices for data acquisition (barcode readers or magnetic badges).

Performances:

- The system can record times for the equipment, times for working and times for equipment stops with the management of reasons for the stops, shifts, operators and technicians;
- The operating machines can be linked with each other in order to sense automatically all stops and possible additional data like alarm, number of produced items, items in production, and so on;
- The trend in production can be linked thanks to a link with production orders, too
- Graphic display and print of detailed reports and statistics of productivity in time.

Additional modules:

- Link to the corporate information system for the importation and the exportation of data (importation of registries, importation of production orders, exportation of production data, and so on);
- Management of registries (customers, employees, items, and so on);
- Management of warehouses;
- Management of job orders and production orders;
- Statistics about data.