

Uni1 concentrator for harnesses test systems



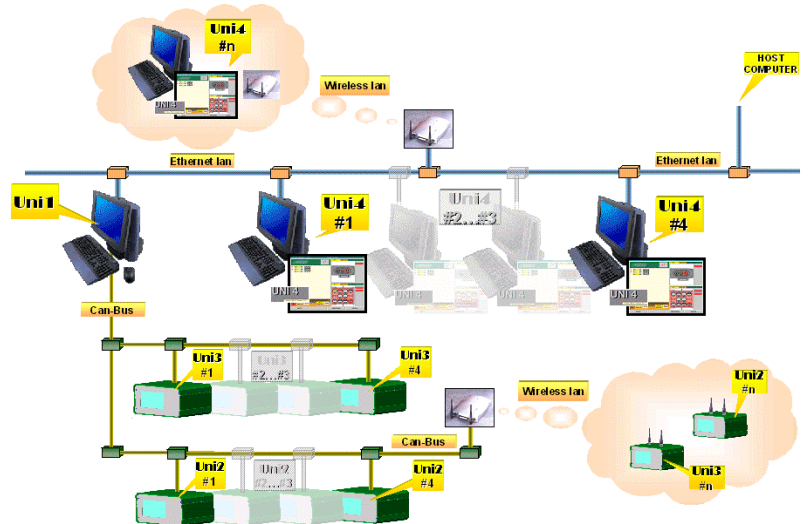
The interesting 2002 news haven't come to the end, yet.

During last months we've been creating the first **Uni1** systems at our customers' plants. Thanks to the use of this ultimate system for the handling and checking of end of line testing boards, our customers can express any remarks about their experience.

We dare say that we reached the stated goals since we began the project.

The system has already been proved and the customers have been able to verify the flexibility of the system, the ease of use and the wide variety of performances it offers.

Furthermore, we can add that being this a new and employable system, there are still many possibilities of development.



The **Uni1** server basically consists of a PC containing *Windows NT, 2000, XP*, operating system which is connected to *Ethernet 10/100* network and is equipped with the specific application package.

To this server will be connected the **Uni4** testing equipments either by a wire or *wireless* network. On the same network is also joined the connection to other customers' servers which allow to reach further networks all over the world (WAN).

The connection of **Uni2** and **Uni3** testing equipments is performed through a *bridge* on *Can-bus* local network, either by a wire or *wireless*.

Several **Uni1** servers can be connected to the same network (e.g., by the maintenance area, by the chief of the area and so on).

Structure of the system

Basic functions

The purpose of the system is to manage the activity of the testing area in one or more harnesses manufacturing plants, in a centralized mode.

It performs services for different functional units existing in the plant and particularly the following ones:

- ⌘ Maintenance service,
- ⌘ Production service
- ⌘ management

A synoptic shape in the display shows the configuration of the testing tables associated to the selected department.

It's possible to follow the development of production in *real-time*. For each table the following information are given in a short way for the general synoptic view, but also detailed information are provided when specifically requested.

Synoptic of testing area

- ↪ code of harness on test
- ↪ Code of operator in charge of the table
- ↪ Quantity of harnesses produced on specific shift and the total of the selected kind.
- ↪ Functioning status of table (unconnected, in stand-by, on test, during switch on/ off, in maintenance, on error).

Centralized management of parameters



The **Uni1** server is a back-up area for all the parameters present on the table connected to the network.

By means of *down-load e up-load operations* it is possible to transfer these information from/to each table.

In the *server* file data it is possible to make all kinds of maintenance operations such as:

- ↪ configuration of each test equipment
- ↪ management of the lay-out and list of pin
- ↪ test programs of each harness
- ↪ harness test programs in different versions and/or modules
- ↪ process check
- ↪ printing labels formats

It's possible to prepare new test parameters and make them operating on tables in the next phase (e.g. preparing of modification for harnesses which are not yet in production)

The **Uni4** test equipments, since from the version 4.1, can handle the service call function when a damage occurs on the table or in case the equipment doesn't perform the operations requested (e.g., harness with not repairable error).

The request is addressed from the operator to the maintenance department or to the person in charge of the production.

Together with the help requested, the operator can choose two different causes levels by the menu selection.

The receiver will see on display the kind of service requested (other forms of alarms calls, such as warning sirens, SMS messages, and so on, are available on request) and he will be able to cancel it by sending a message in reply to the person in question.



Use of Alarms and warning calls

Report



By **Uni1** is possible to issue the following reports:

- ↪ *Log* of system communication
- ↪ *Log* of activities carried on each table
- ↪ Test parameters of each connected table
- ↪ Report of production listed as per selecting criteria (time and department/table criteria)

Centralized management of the software updating which concerns the testing equipments.

Thanks to the connection to local and remote networks (e.g. VPN via *Internet*), by the use of appropriate software tools (e.g. *Net-meeting*, *PC-Anywhere*, etc.) it's possible to perform either guided or remote service interventions.

By the adoption of multimedia interfaces it's possible to have direct communications between the maintenance engineer and the person requesting the service.



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For further information and/or the evaluation of **Uni1** system impact into the reality of your production flow, please contact the following e-mail address:

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