

COMMUNICATOR SOFTWARE

COMMUNICATOR
USB



COMMUNICATOR
PLUS



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Why TRACEABILITY?

In accordance with HACCP rules, from the cooking to the delivery food must be maintained outside the “danger area” **from +10°C to +65°C**, in order to prevent **bacterial contamination**, the major cause of food poisoning in catering for big communities.

Mesophilic bacteria, that makes up most of the pathogenic to humans, are indeed best active at median temperatures, from 15°C to 45°C.



Meningitis / Sepsis
(*Listeria monocytogenes*)



Gastroenteritis
(*Staphylococcus Aureus*
and *Bacillus Cereus*)



Salmonellosis
(*Salmonella*)

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Why TRACEABILITY?

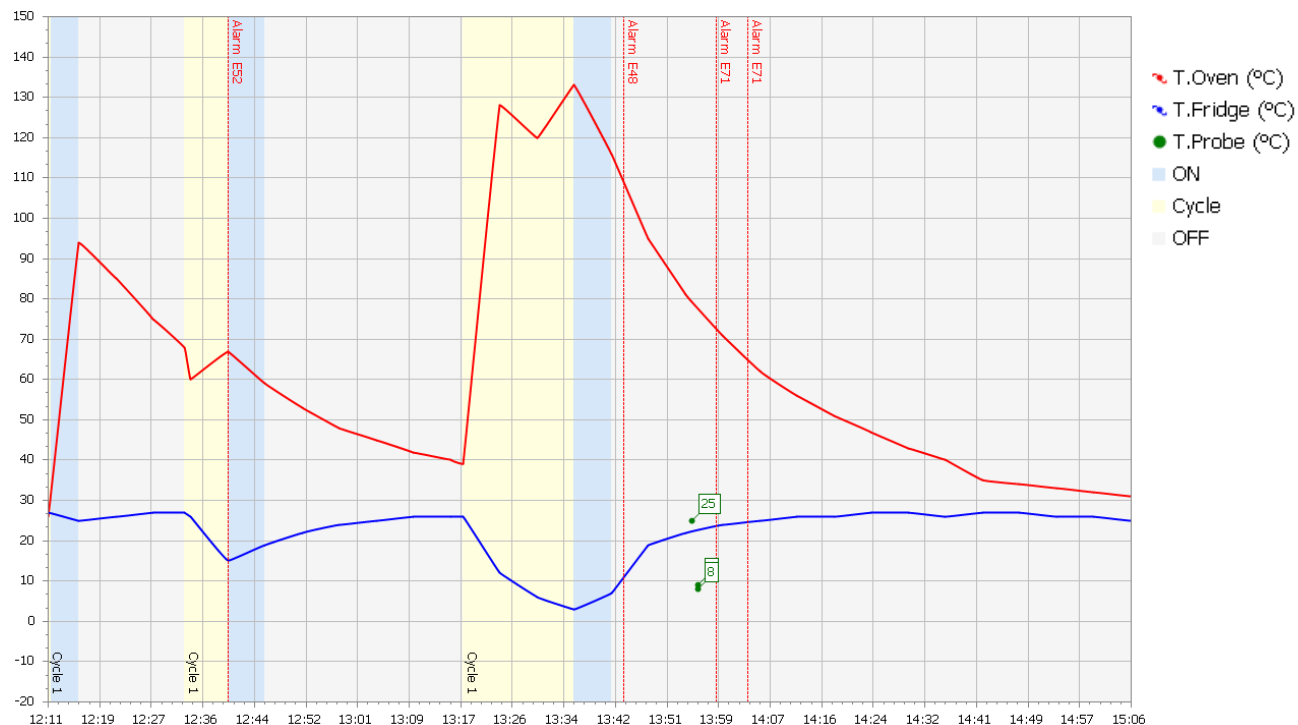
To comply with the protocols established by the HACCP approach, besides identifying hazards and critical points, it is also required to define **verification and record keeping procedures** allowing the ongoing monitoring of the system over time.



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Data Graphics



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Data Saving

All the data that can be seen in the graphics can be saved for future use through the software.

These include:

- Trolley ID Number
- Time and Date
- Hot/Cold Temperature
- Cycle performed
- Status of the equipment (On/Off/Cycle)
- Errors occurred
- Food probe registered temperature

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Equipment setting

Thanks to the software, it's possible to set the equipment parameters directly from the user PC.

This option includes:

- Heat cycles
- Start timer
- Overall settings
- Refrigeration menu

Heat cycles menu			
CYCLE N.1			
CYCLE N.1			
Type	Time (min)	T.Oven (°C)	T.Fridge (°C)
Jolly		120	3
	20	120	3
#	30	100	
	0	0	0
	0	0	0
CYCLE N.2			
CYCLE N.3			
CYCLE N.4			

Settings	
Parameter	Value
Keyboard -> Block	Disables
Oven power	100%
Refrigerator control -> Fridge alarm	99
Refrigerator control -> Fridge alarm	99
Oven control -> Maximum error %	15
Data logger -> Mode	Start cycle
Data logger -> Sampling	1
Data logger -> Duration	180
Battery autonomy	30
Blackout function -> Hot cycle limit time	5
External probe buzzer -> Hot temperature	65
External probe buzzer -> Cold temperature	10
Language	Italian
Daylight savings time	Disabled

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Copy and Paste

Settings will be then uploaded through a USB key (Comm. USB) or sent directly to the equipment (Comm. PLUS).

It is also possible to copy and paste the same settings from one trolley to another in that same way, ensuring a substantial time saving for the operator.



COMMUNICATOR U S B



The System

PC with
Communicator
USB Software



Equipment with
Communicator USB
predisposition



USB
Connection



USB
Connection

USB Key

COMMUNICATOR U S B



With Additional Licenses

PC with
Communicator
USB Software



USB Key



Equipment with
Communicator USB
predisposition



USB
Connection

USB
Connection

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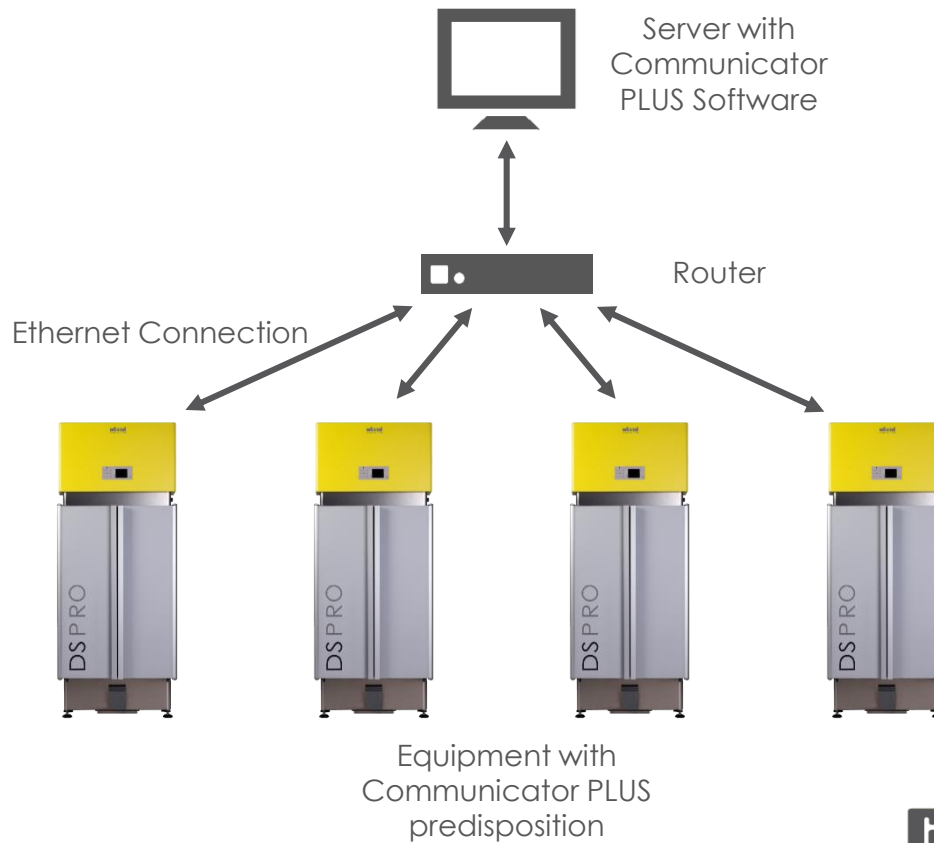
USB TRACEABILITY FUNCTIONS

- Set-up of thermal cycles and equipment general parameters.
- “Copy and paste” function to transfer settings from one equipment to the others.
- Temperatures and alarms data download and saving.

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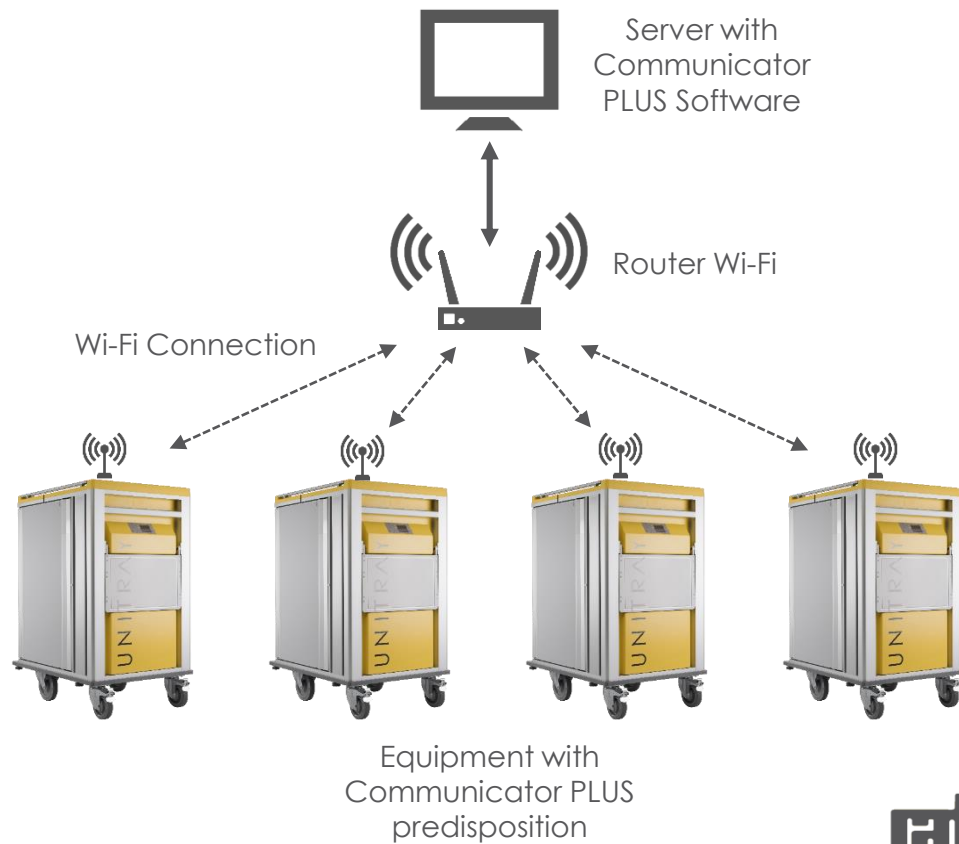
Cable Version



COMMUNICATOR PLUS



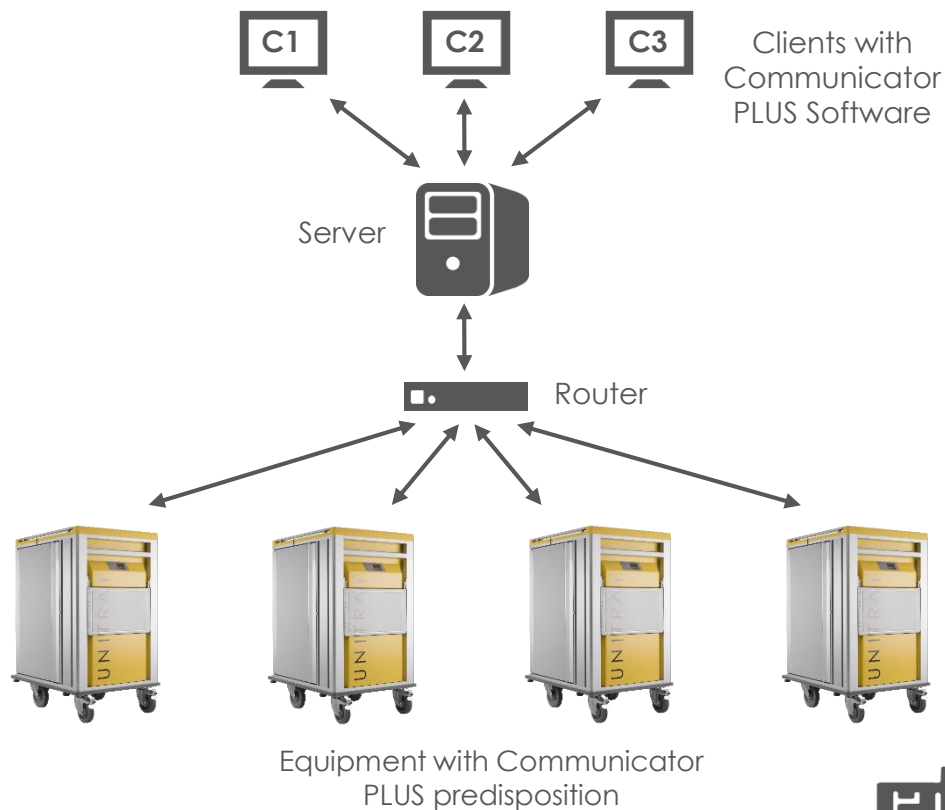
Wi-Fi Version



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PLUS TRACEABILITY FUNCTIONS:

- **SET-UP:** thermal cycles, automatic starts and primary setting parameters can be set-up remotely.
- **MONITORING:** during thermal cycles, temperatures and alarms data are sampled, transferred from the station to the PC and filed in real time.
- **HISTORIC:** equipment data are easily accessible from an historic file, directly from the software.
- **REMOTE CONTROL:** cycles can be started and terminated from the software once the trolley is plugged and connected through Wi-Fi or cabled Lan.

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Functions Summary

Features	NO TRACEABILITY SYSTEM	COMM. USB	COMMUNICATOR PLUS	
			CABLE (RJ45)	Wi-Fi
Firmware update via USB door	✓	✓	✓	✓
Copy and paste option via USB door	✓	✓	✓	✓
Data storage during cycle	X	✓	✓	✓
Data storage after unplugging	X	✓	✓	✓
External probe socket predisposition	X	✓	✓	✓
Remote programming from PC	X	X	✓	✓
Remote LIVE monitoring from PC	X	X	✓	✓

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Availability

Features	NO TRACEABILITY SYSTEM	COMM. USB	COMMUNICATOR PLUS	
			CABLE (RJ45)	Wi-Fi
Availability	✓	✓	✓	✓
Availability UNITRAY	✓	✓	✓	✓
Availability DSPRO SYSTEM	✓	✓	✓	✓
Availability EVOMULTI	✓	✓	✓	✓

Thanks for your attention...