Fault Tolerance

Maximum protection for your system

- ▶ **Complete redundancy with Clone**

- ▶ **Automatic synchronization of Main and Backup**

- ▶ **Commutation for all serial devices**

- ▶ **Reasonable price with the One to Many configuration**

ETERE Automation gives you the best protection for your On-air data.

If a fault occurs , you are not going to have any problems: ETERE offers you the most advanced technologys in the field of "Fault Tolerance", which are:

- Distributed Architecture
- Clone
- Backup
- One to Many Backup

DISTRIBUTED ARCHITECTURE

You don't need neither a server device or a machine controller for ETERE's Distributed Architecture .

This architecture is not just Fault Tolerant (allows to use 2 chains Main and Backup), but also Fault Resilient: it resists to multiple damages.

ETERE divided the processes, which can run on different computers in multiple copies: there are multiple processes to run automation , caching, live recording, browsing, and so on.

ETERE's distributed Architecture is a winning one; no need to have expensive dedicated device controllers, you just need PCs that share their information.
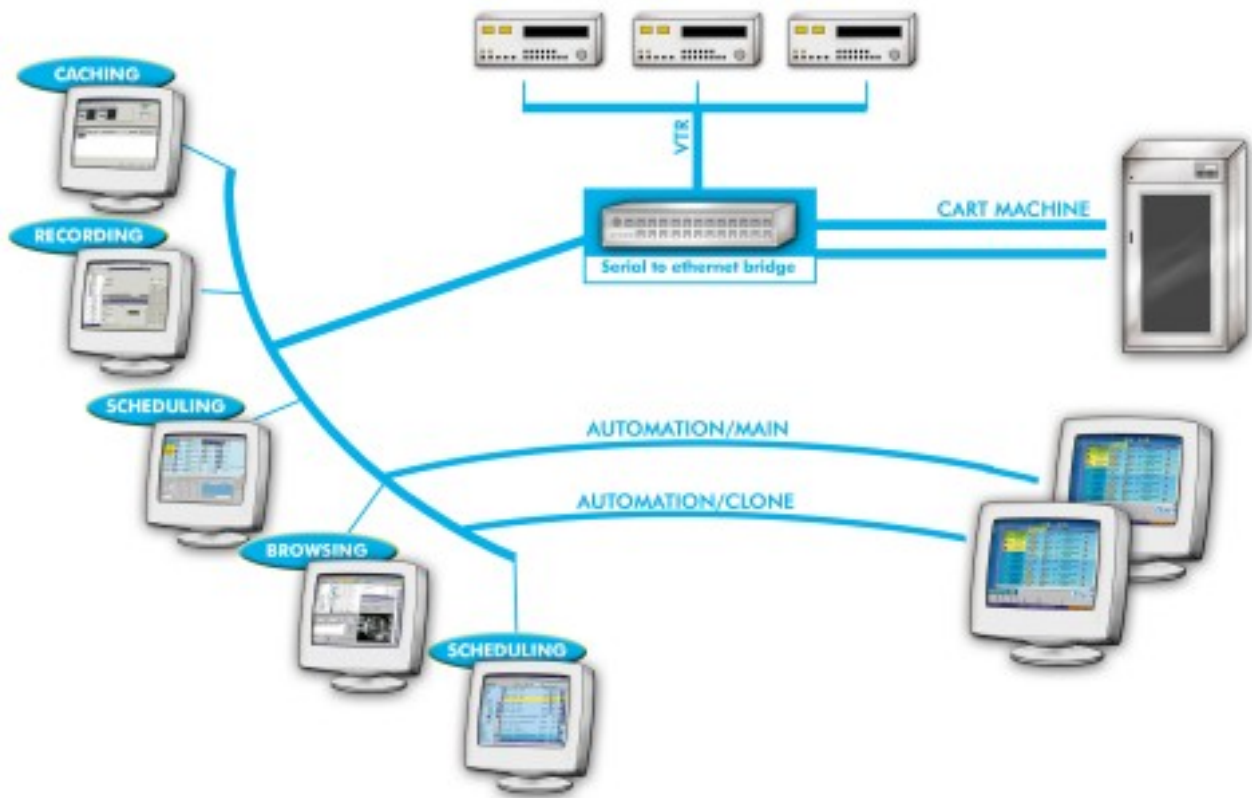
Distributed architecture means also a distributed control. By using standard hardware, ETERE 'virtualizes' old RS422 controls, so that each computer is able to control all devices without installing an internal board or serial wires.

All that is necessary for the automation is running in an Ethernet standard net; fast and 'fault tolerant' or even "fault resilient".

CLONE

ETERE offers complete redundancy: two automation controllers to broadcast two copies of exactly the same play-list frame synchronized , without further operations.

Any changes are going to be automatically brought to the Main Automation and the Clone Automation.

The Clone process controls if the Main Automation works correctly; if there is a damage pointed out, the Clone takes control of all devices and continues the broadcasting.
Fast commutation guarantees that no event is going to be lost because of a malfunction.

BACKUP
Contrary from the 'Clone' solution, the Backup is not normally active, and so it doesn't reserve precious resources (ex: videoserver ports).
Whenever there are problems with the Main, the Backup takes control of all system devices.

The only inconvenient is that this operation takes time: to take control over a server port is an operation which takes from 1 to 5 seconds, so there is no guarantee as for the Clone that there will be a commutation without interruptions.

BACKUP ONE TO MANY
In case you have many On-air channels, for the economy, you can also have just one Backup for a certain number of Main channels.
ETERE allows you having even this solution: protection of your On-air at a reasonable price.

ETERE represents the maximum safety and the maximum protection for your On-air. Commercial's protection and the maintenance of the system now are finally possible.