



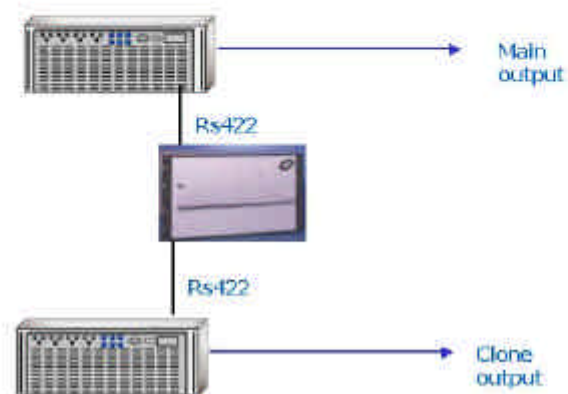
## *Fault Tolerance: ETERE is better than Louth*

***Reliability is the single most important criterion to consider when evaluating a play-out system.***

***With a long history in designing the software, our company puts best-of-breed reliability into every aspect of Etere: the software for to manage all aspects of a TV station. From the start, Etere has been designed to stay up and running even under adverse conditions, and requires zero maintenance to achieve that level of reliability. All Etere software are redundancy and Fault Tolerance.***

***We try to compare Etere Automation with Louth software (now Harris), especially under the important aspect of the Fault Tolerance: why ETERE Fault Tolerance is better than Louth? We will try to know it.***

Broadcast market knows that Louth Automation is an old design product, its architecture isn't update with the needs of the broadcasters. The system isn't fault tolerance, but the fault tolerance is only an addition of the system.



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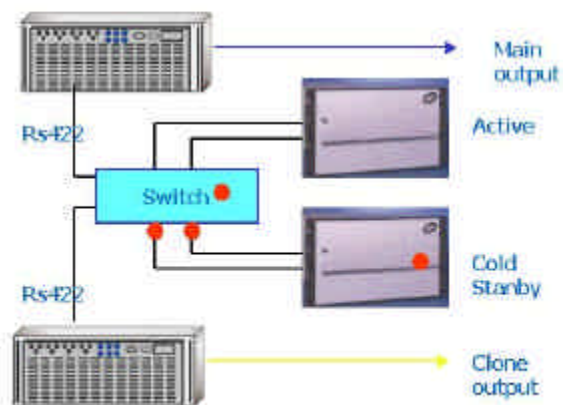
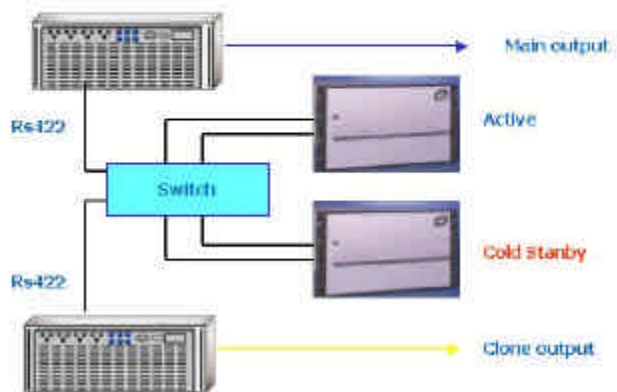


## Louth cloning

Louth cloning uses 2 ports of the same ADC100 controller to give to the users a 'false impression' of Fault tolerance. The same device controller with the same Software and windows OS controls 2 ports of 2 servers. It protects from the server Errors but not as a Louth Error.

In this case the 'false impression' is also more evident, you need to have 2 ADC100 controllers, the 2<sup>nd</sup> one is on "standby" and a switch changes the 422 ports from Main to Bkp system if the Main fails. We know that if you'll find out that there is a problem on the BKP TOO late, when it has already been sent On-air: there isn't a good protection for your system.

So Louth system is not able to give you any fault tolerance. You can see on the diagram, the red points show you the single failure points of the Louth system or the architecture unmanaged problems.



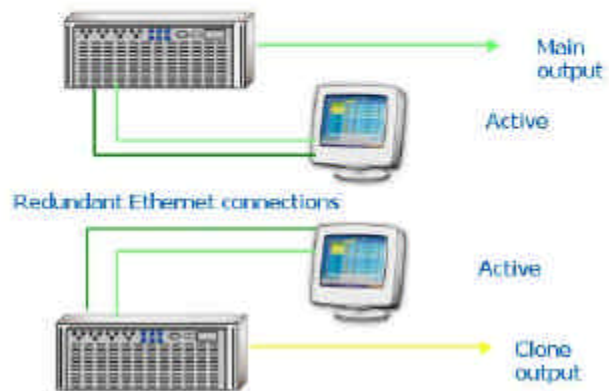
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## **Etere is Fault Tolerance and Fault Resilience**

Etere is able to give you more than a fault tolerance system.

In ETERE Cloning you have 2 Active controllers which control the 2 outputs. You can check the running of both systems frame by frame. With a redundant Ethernet connection, ETERE gives you more than Fault Tolerance: it gives you Fault Resilience



Fault tolerance means that if one component fails you still can broadcast with the 50% of your system.

Fault resilience means that if there was a fault in one part of your system you still can broadcast with the 90% of your system.

An ETERE Automation system can survive to multiple failures and give you more than the 50% of its functionality.

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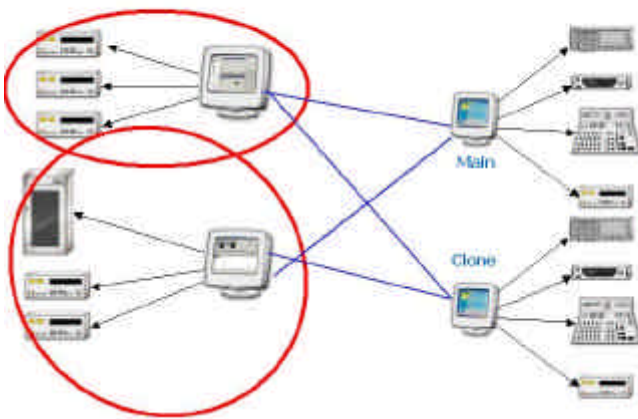
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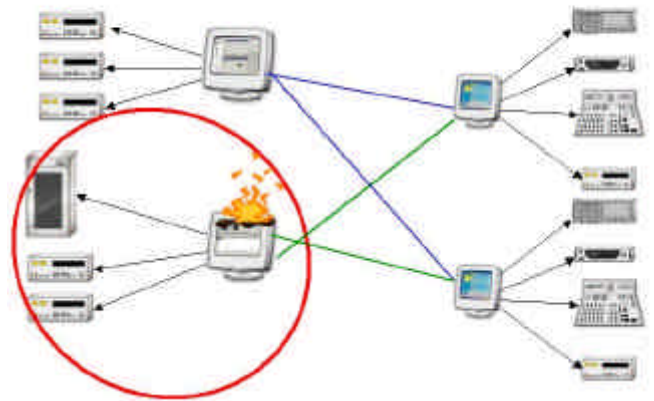
**An example**

See an example about Etere 's Fault Resilience

Recording & Caching

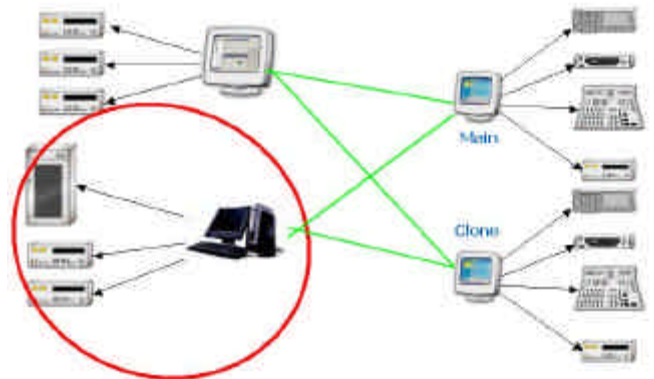
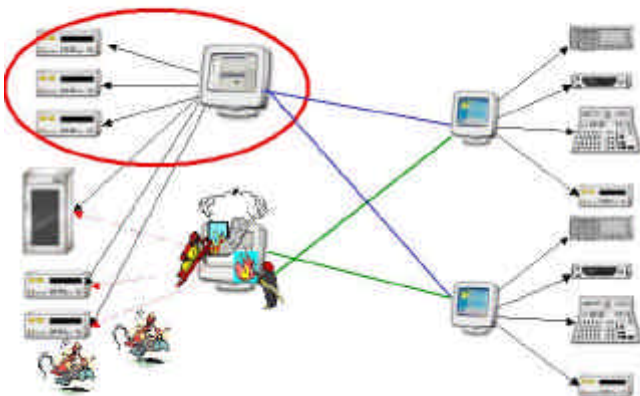


Fault - 75% of your power running



After 5 minutes 90% of your power still running still at 100%

After 2 Hr a new standard PC



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## **Maximum Protection for your System**

ETERE's distributed architecture is open, it isn't 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 process 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

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 technologies in the field of "Fault Tolerance", which are:

- ✍ Cloning: Two outputs synchronized in frame
- ✍ Backup: One "cold" backup channel, whenever there are problems with the Main, the Backup takes control of all system devices.
- ✍ One2Many : One backup channel shared among multiple active channels.
- ✍ Disaster Recovery: A different site automatically updated from the main site and 100% independent.

Only ETERE Automation is able to give you the best fault tolerance solution on the broadcast market today.

For major information regarding ETERE solutions, visit our web site: [www.etere.com](http://www.etere.com)

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