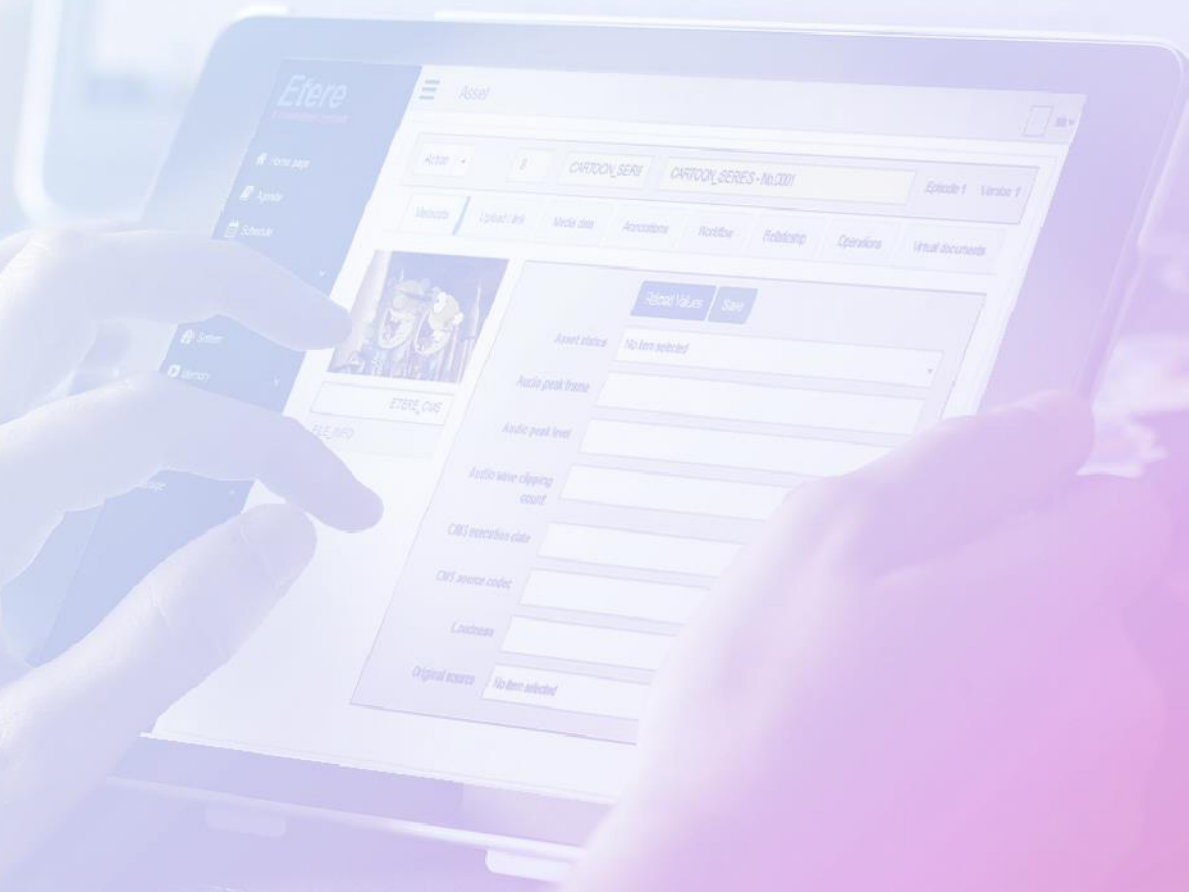


# Etere

Why ETERE Fault Tolerance  
is better than Louth

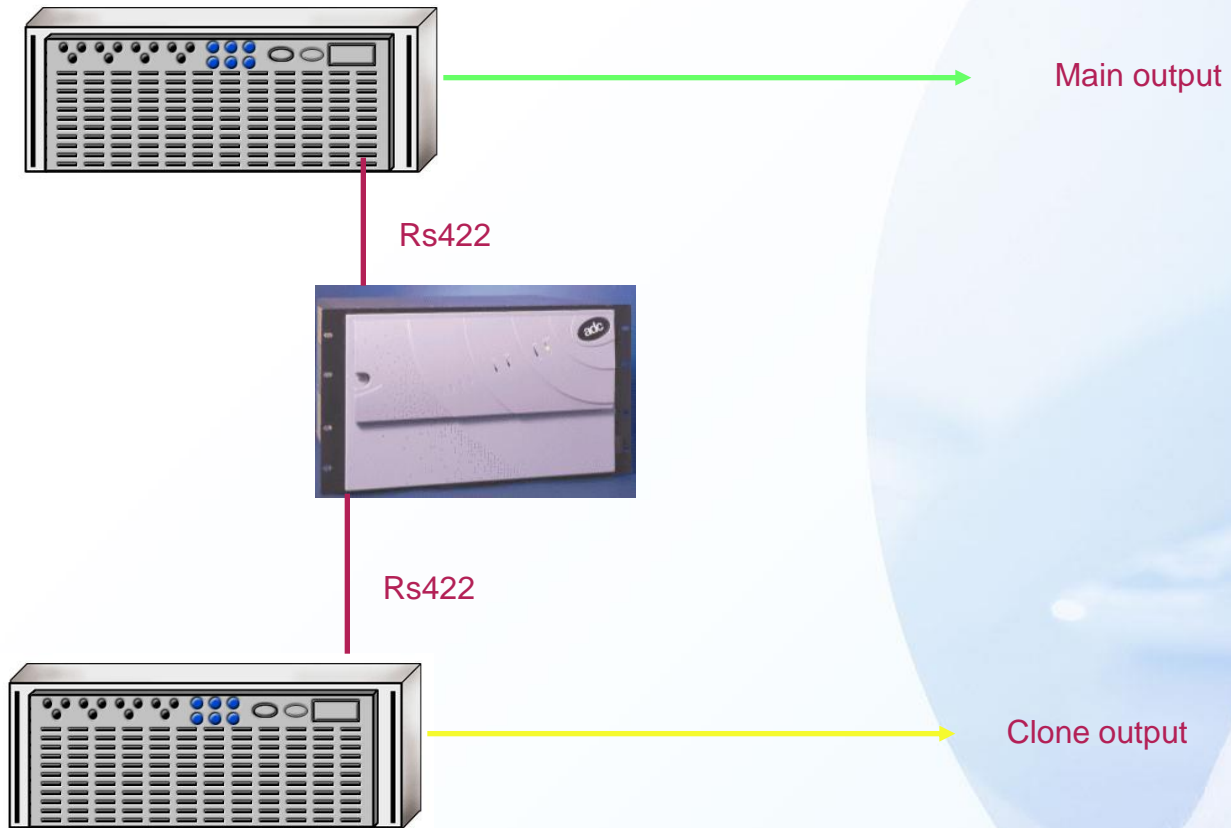


# Fact

- Louth Automation (now known as Harris) is an old design product
- They added a fault tolerance option to an old architecture

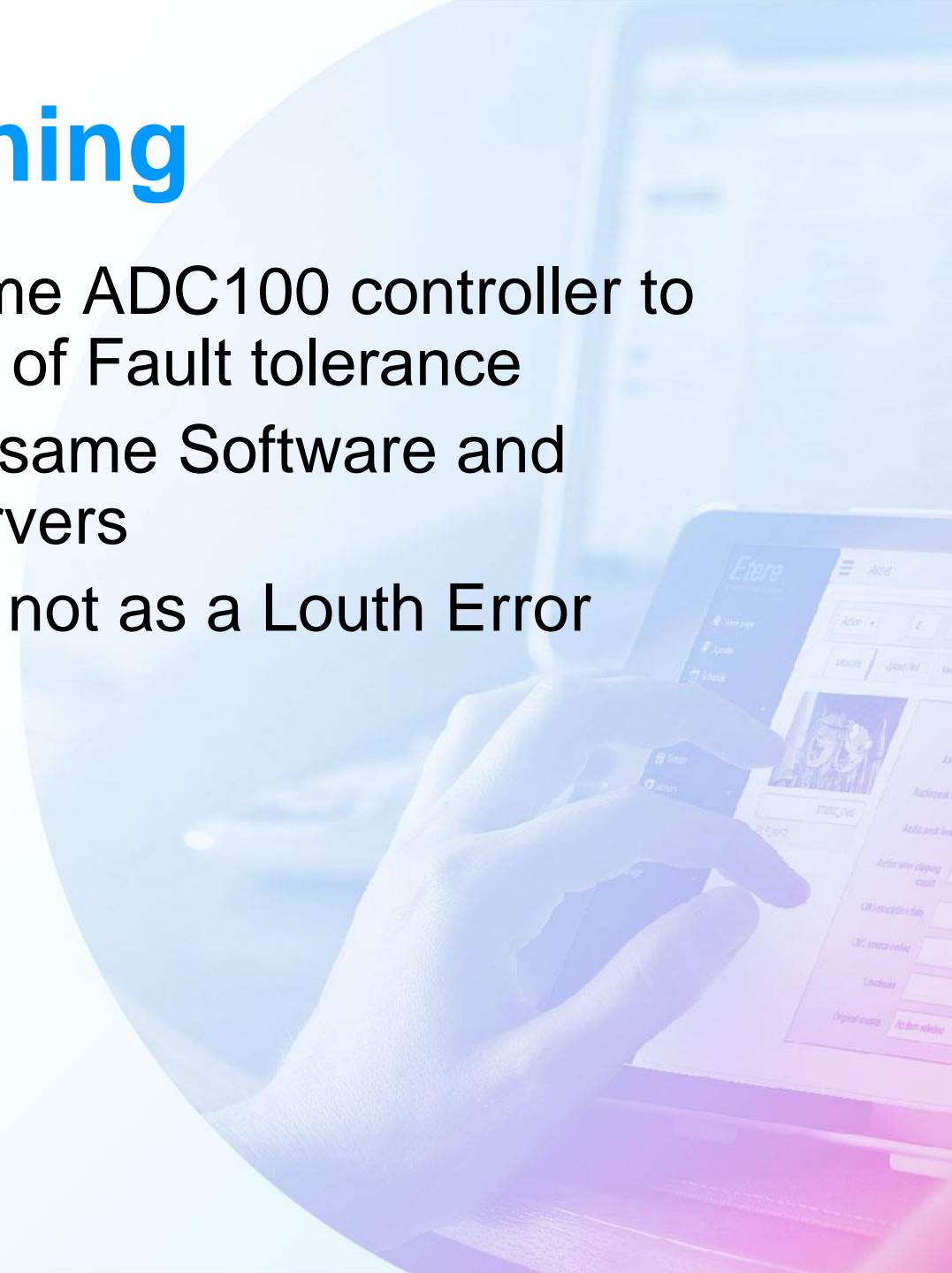


# Louth Cloning



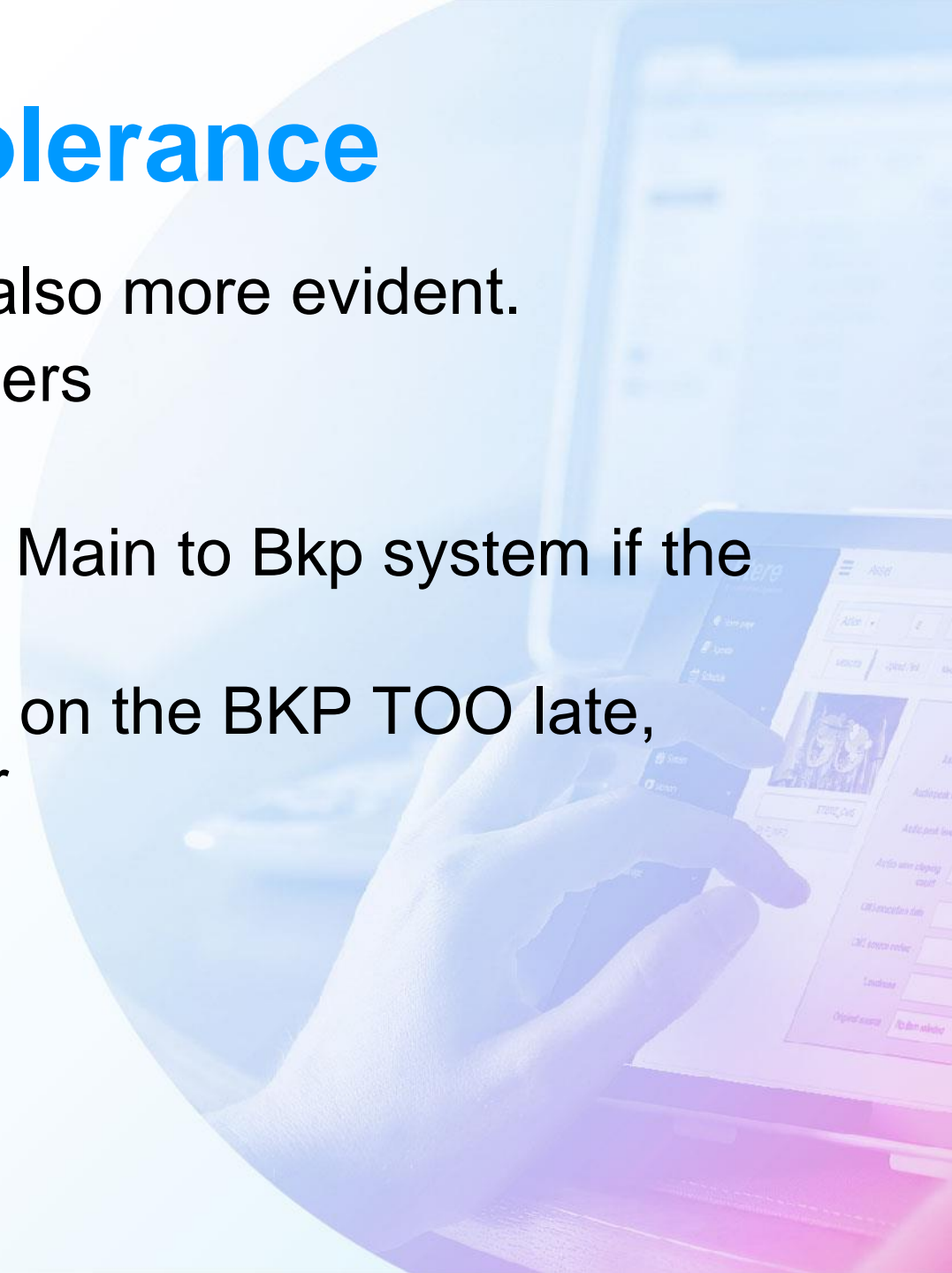
# Louth Cloning

- 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

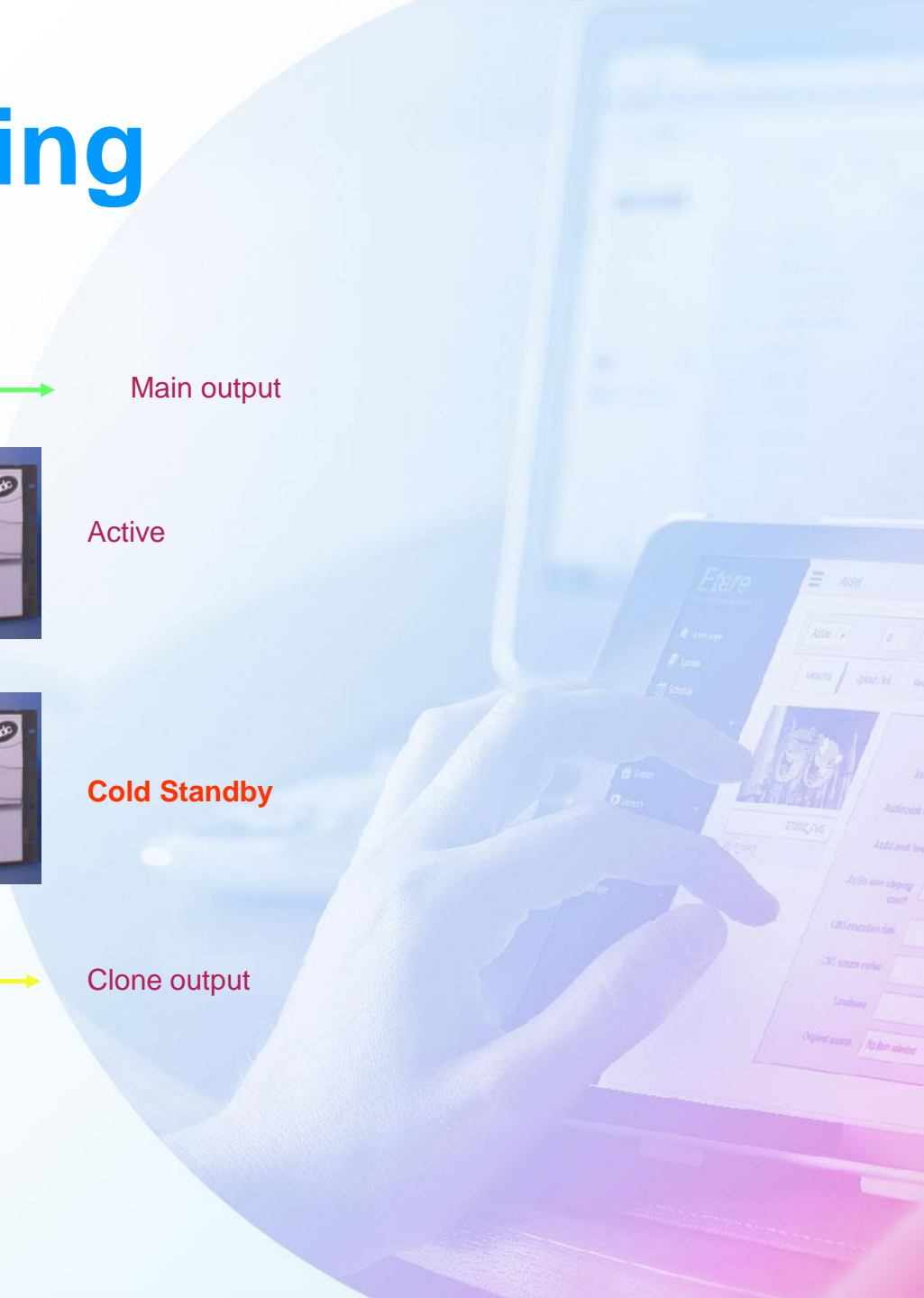
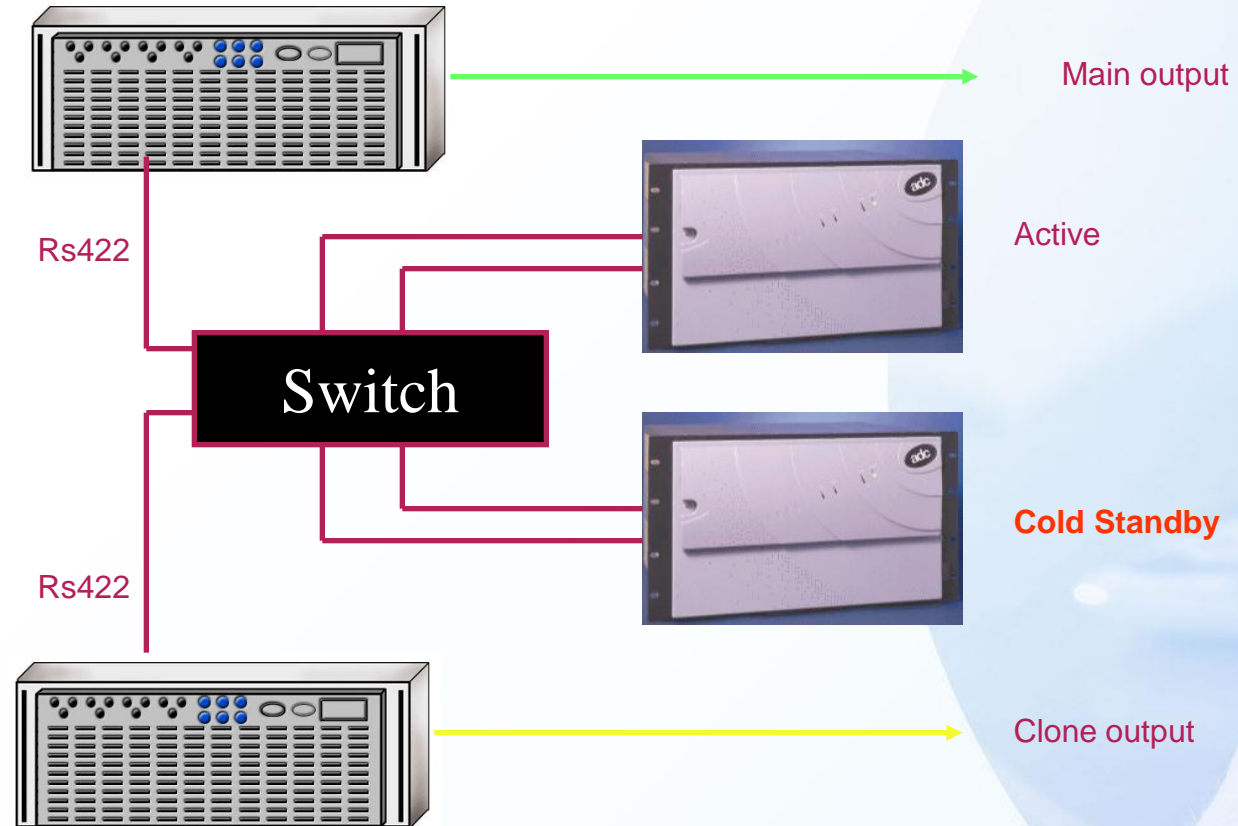


# Louth Fault Tolerance

- 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”
- A switch changes the 422 ports from Main to Bkp system if the Main fails
- You’ll find out that there is a problem on the BKP TOO late, when it has already been sent On-air



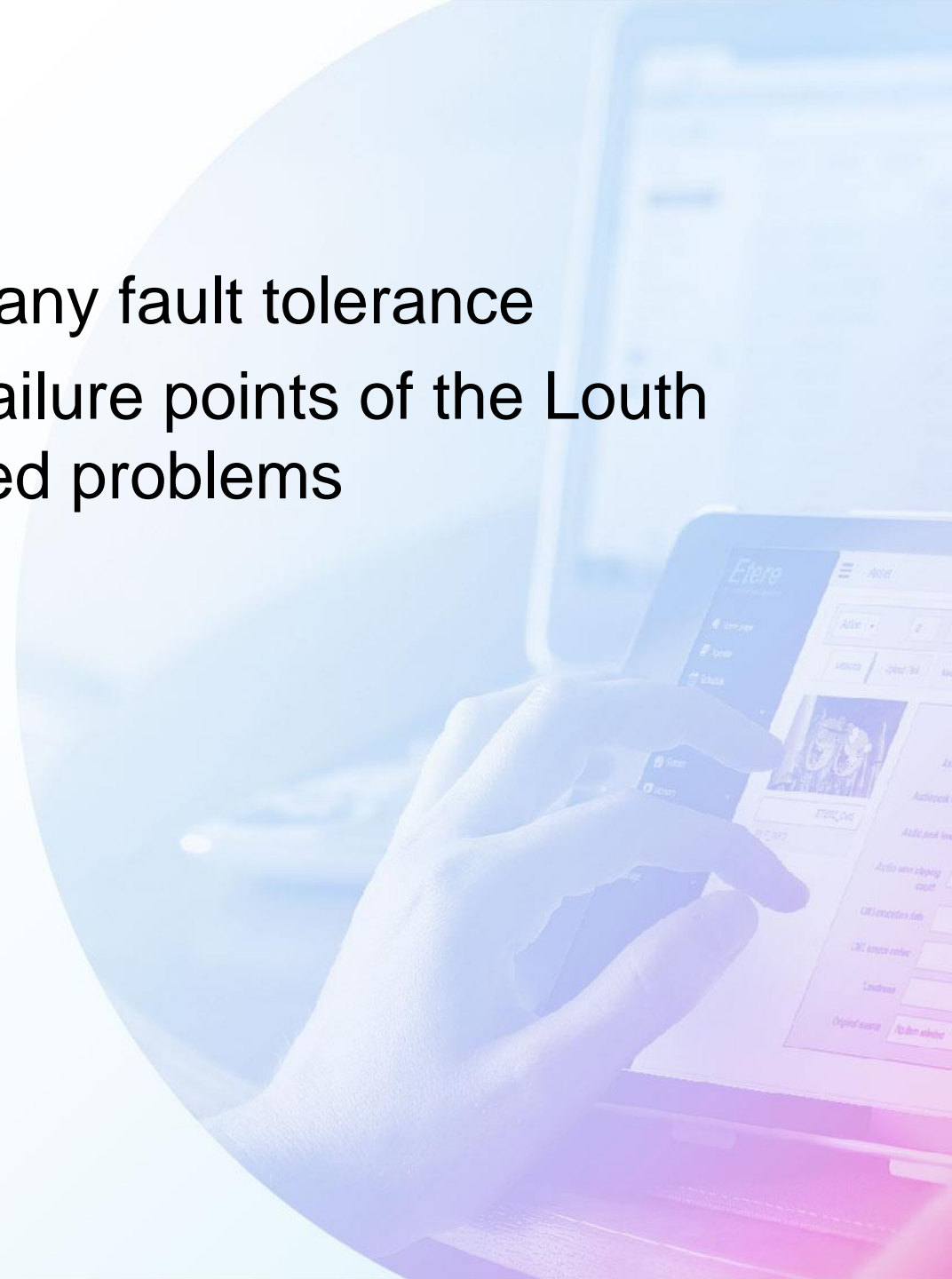
# Louth Cloning



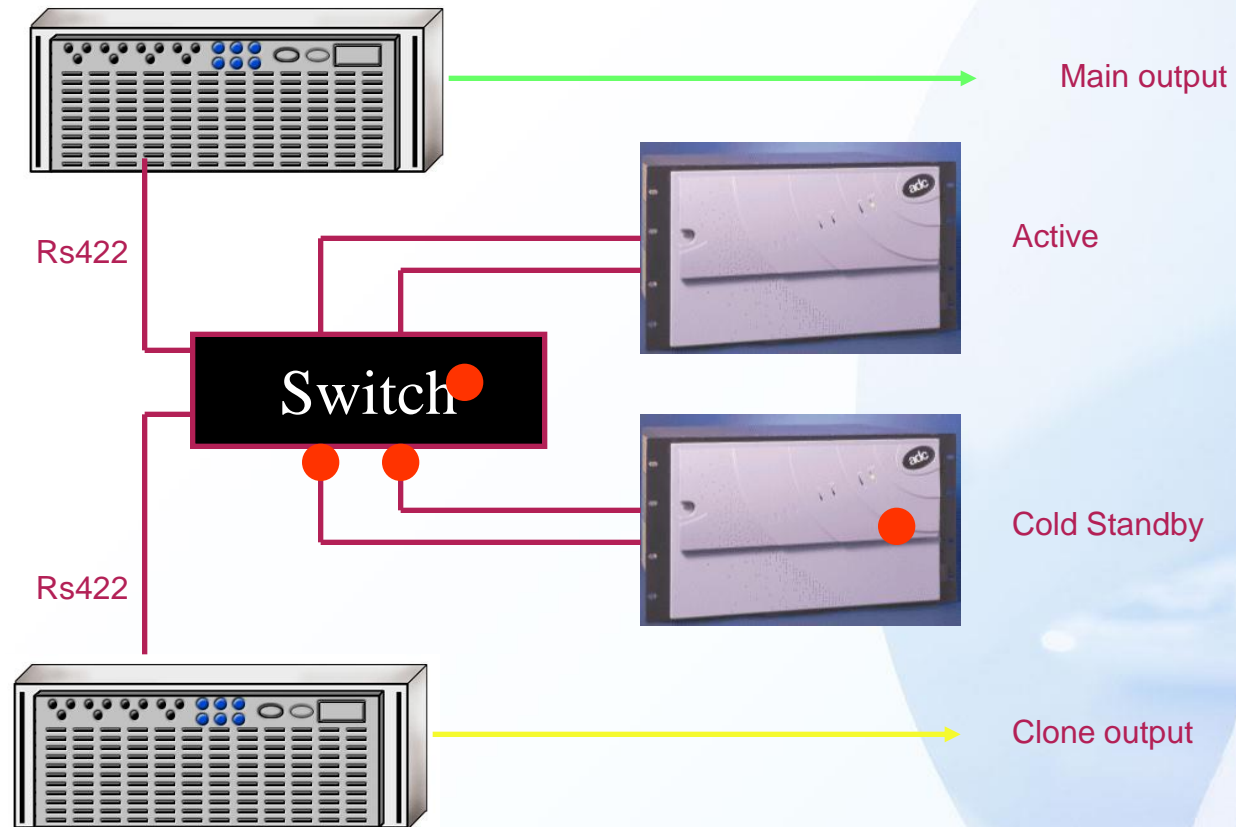


# Then

- Louth system is not able to give you any fault tolerance
- The red points show you the single failure points of the Louth system or the architecture unmanaged problems



# Louth Cloning



Main output

Active

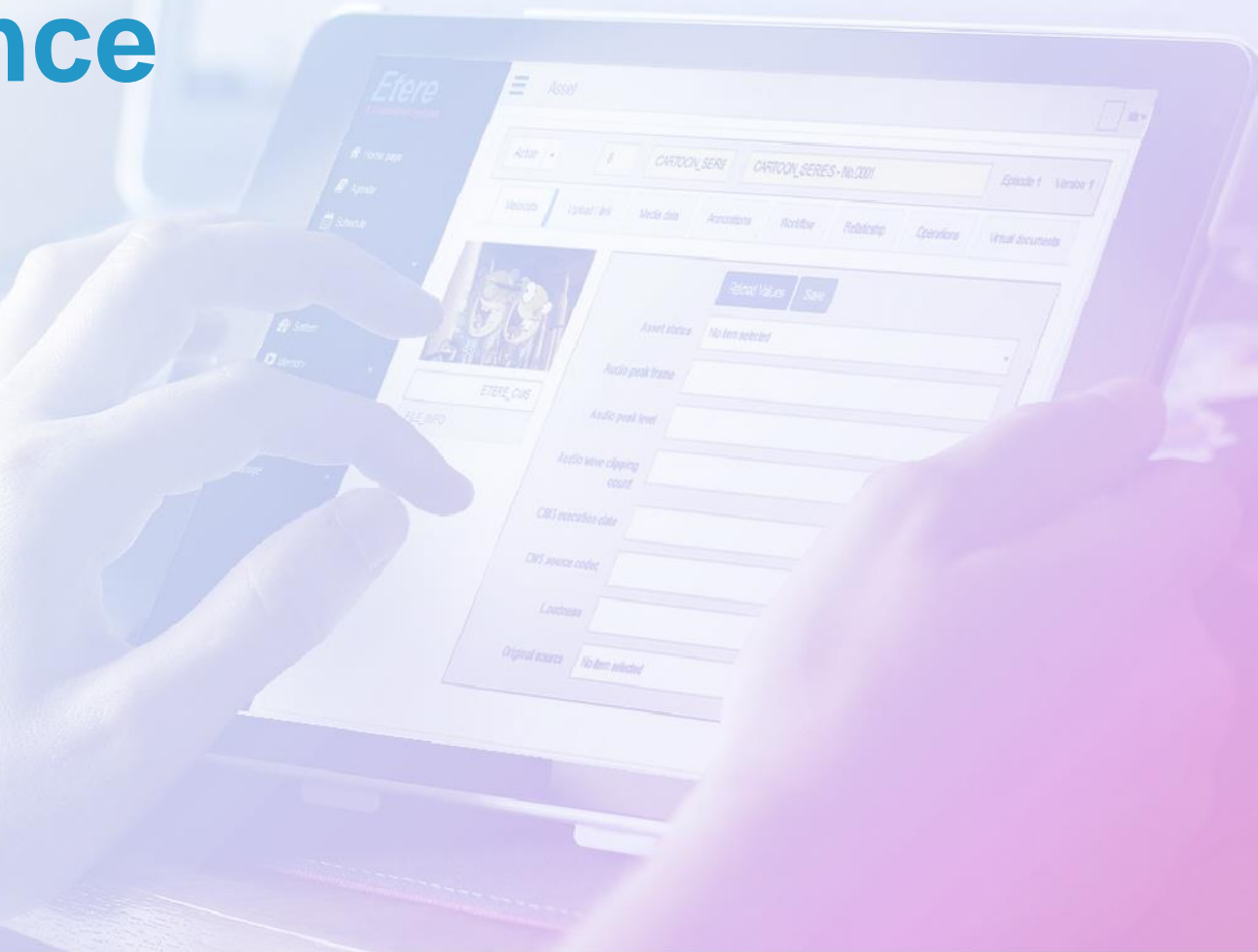
Cold Standby

Clone output

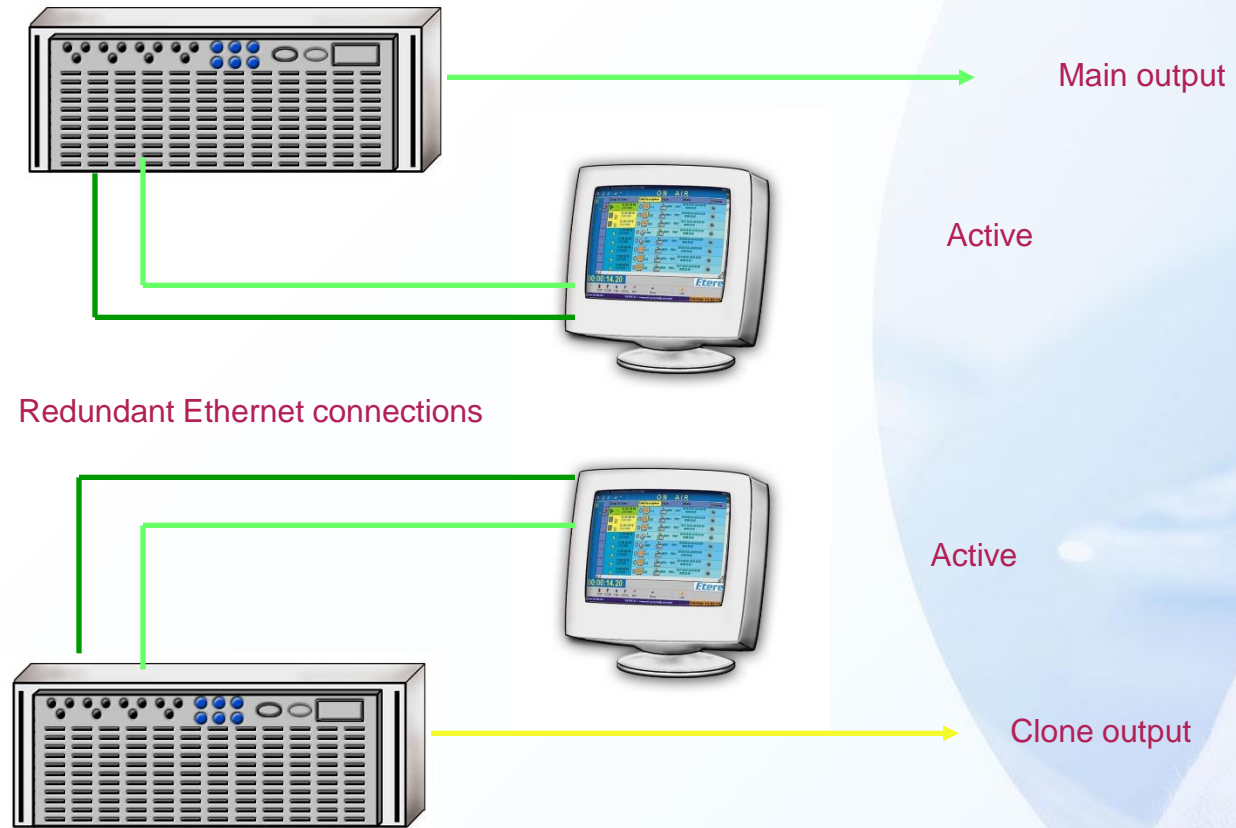


# Etere Fault Tolerance

Etere gives you more than  
fault tolerance

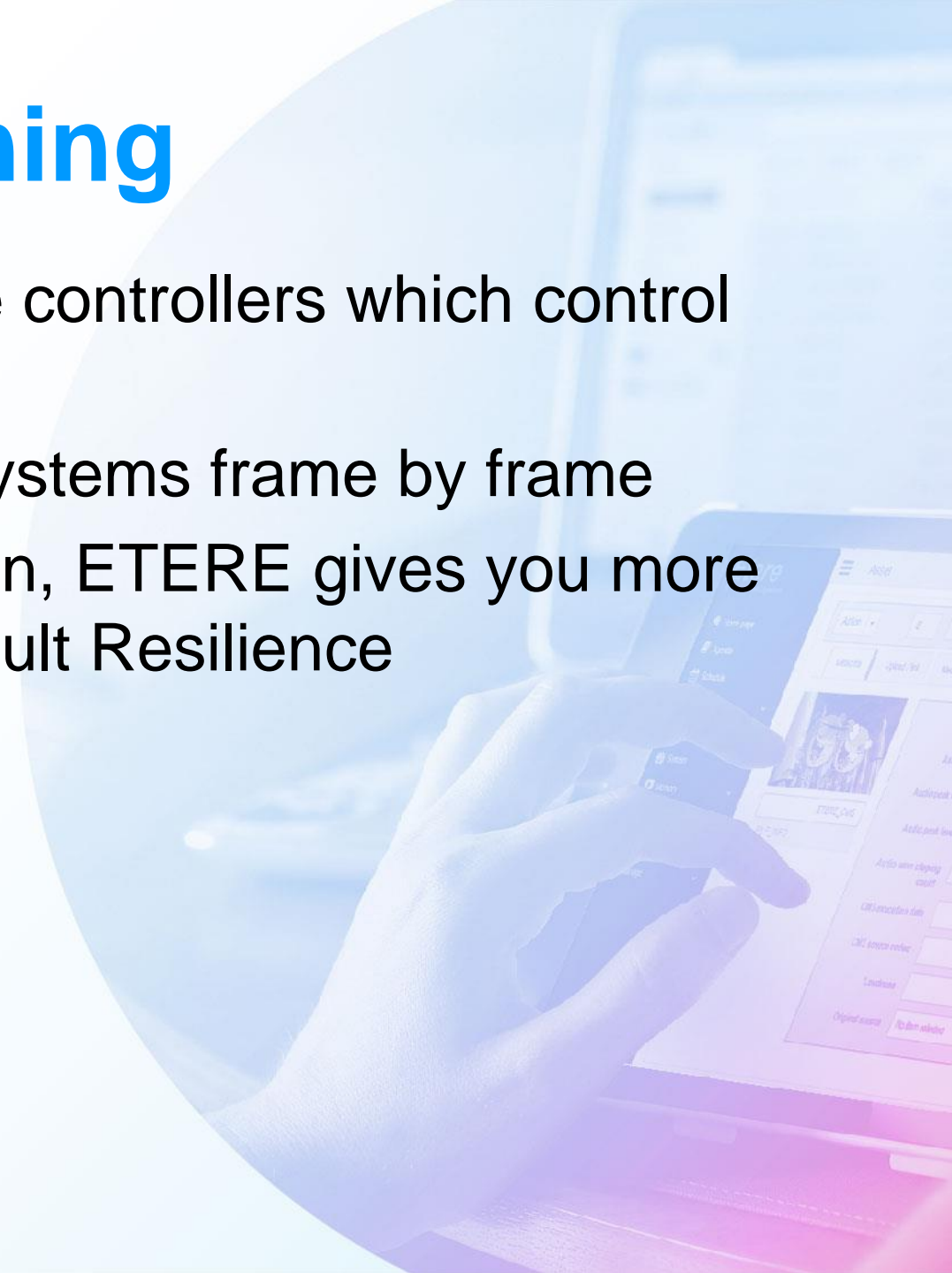


# Louth Cloning



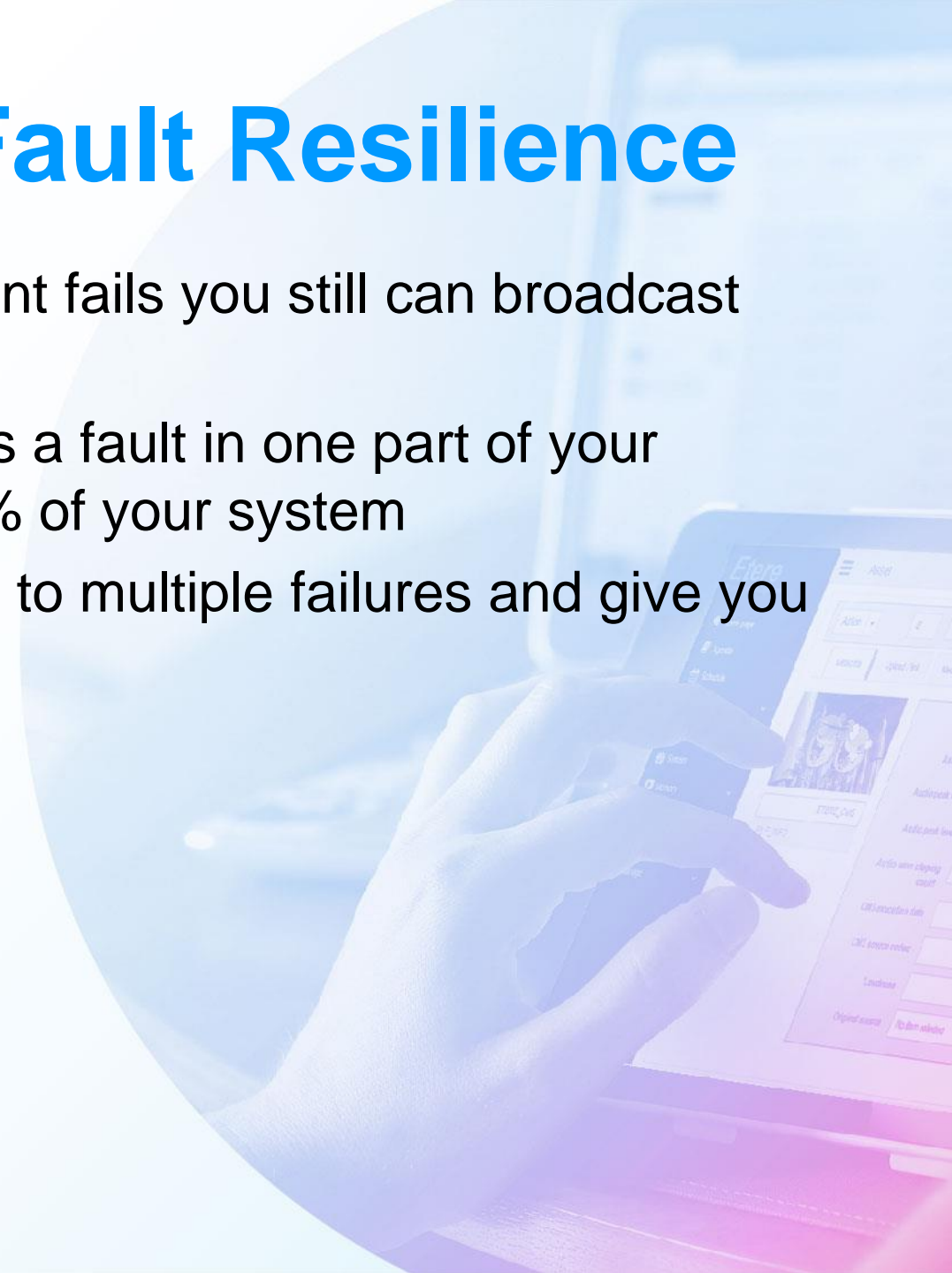
# Etere Cloning

- 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 V.s. 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 you 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

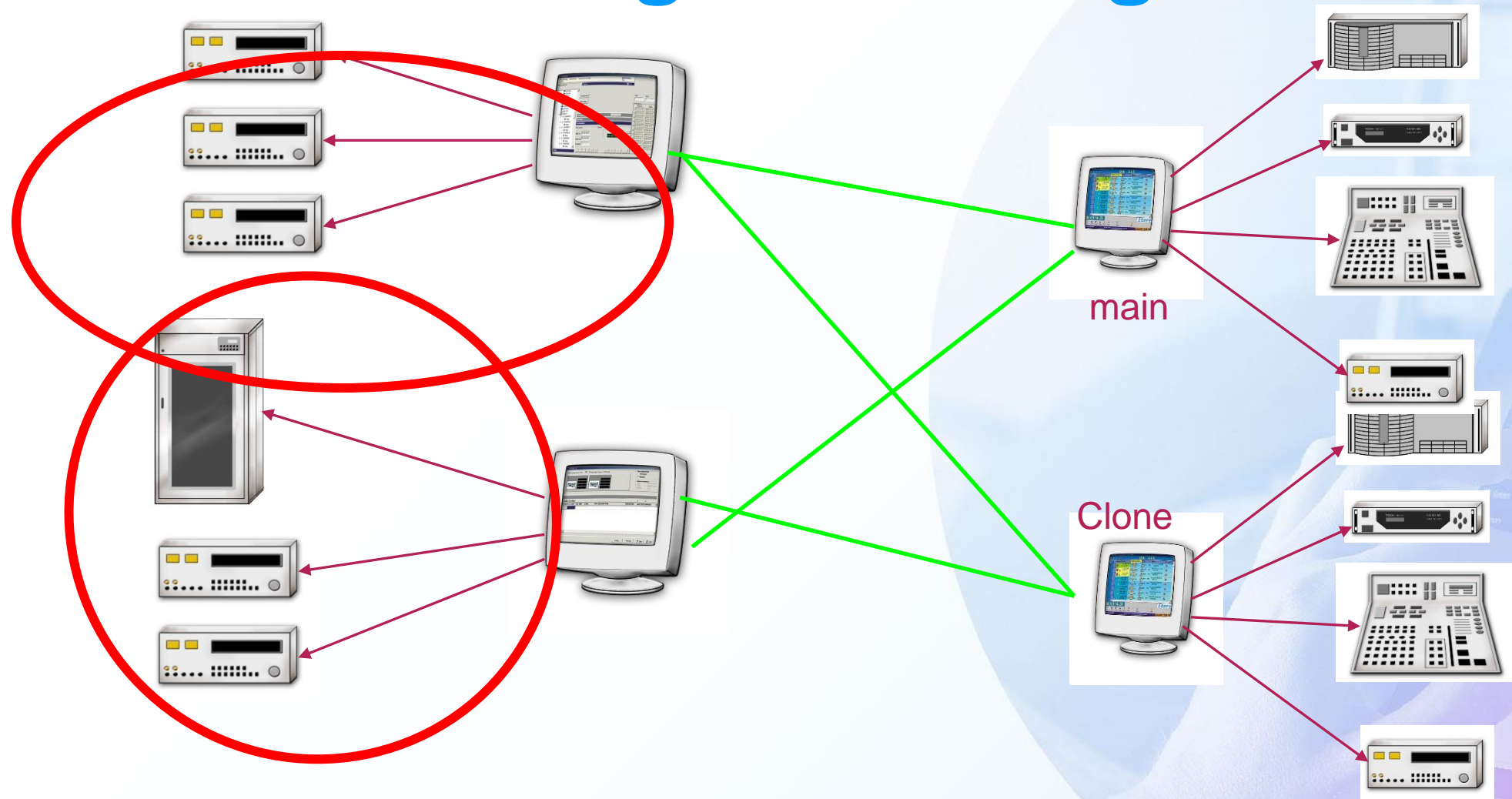


# Fault Resilience



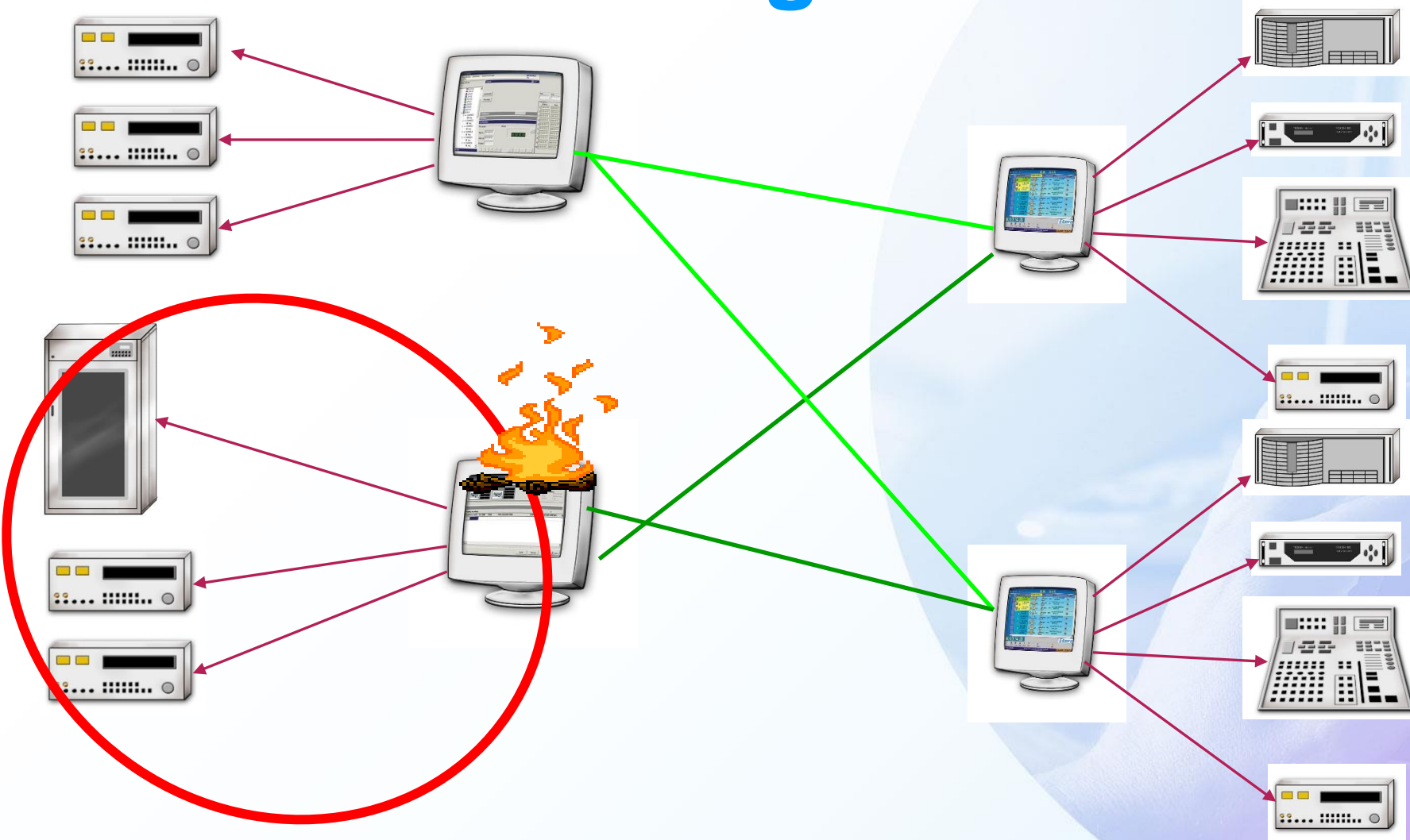


# Recording & Caching

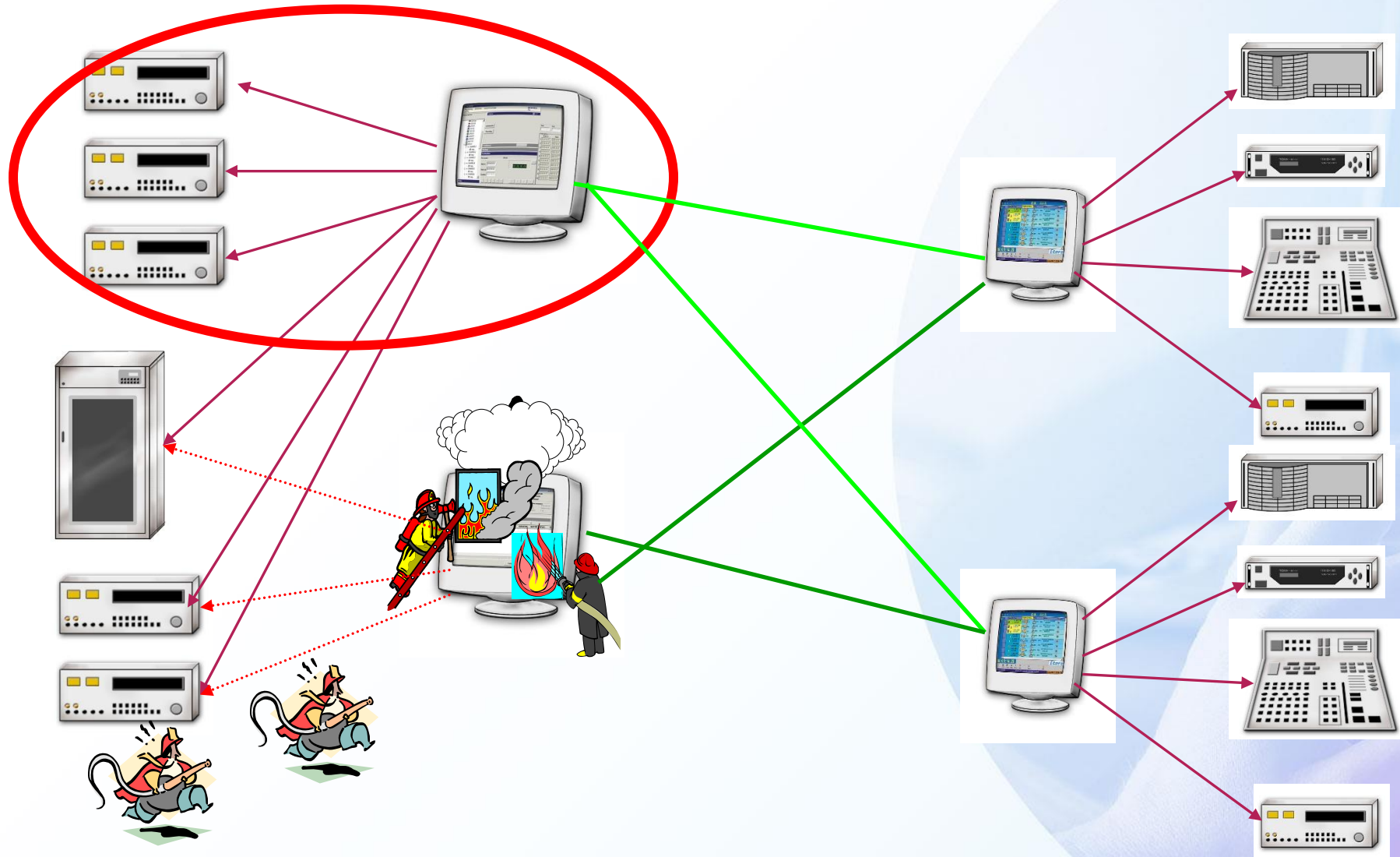




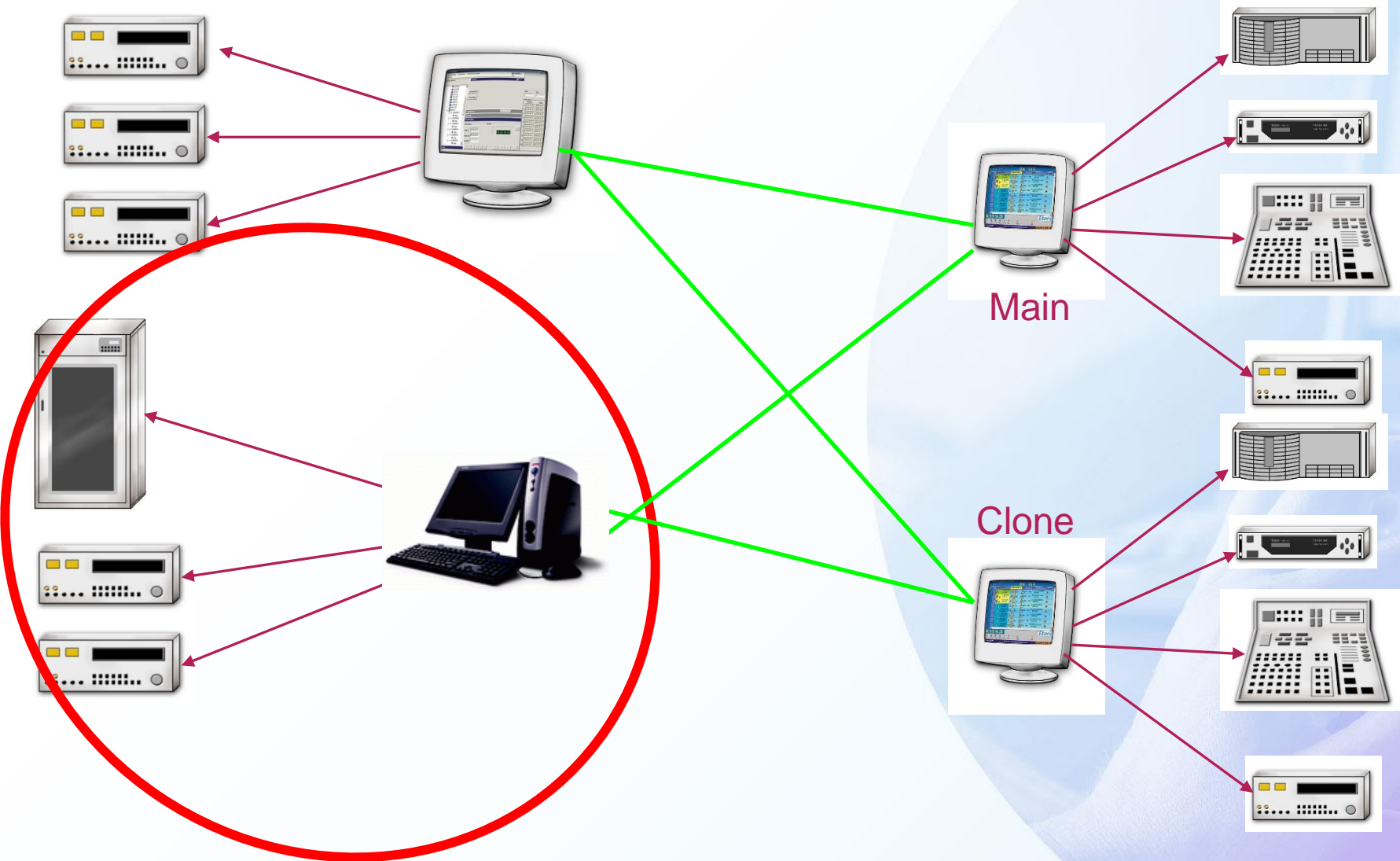
# Fault -75% of Your Power Running



# After 5 minutes 90% Of Your Power Still Running

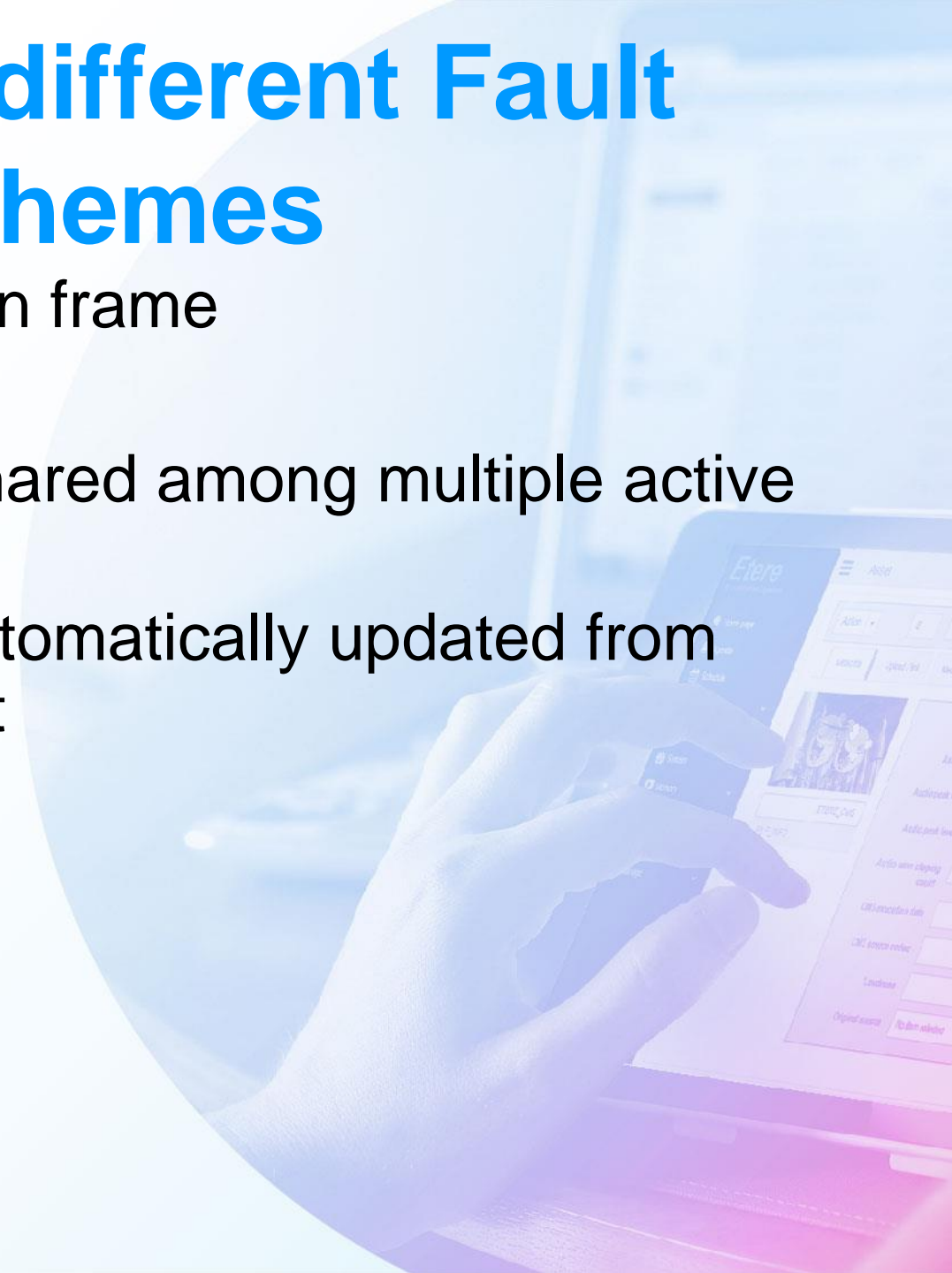


# After 2 Hr a New Standard PC Still at 100%



# ETERE Gives you 4 different Fault Tolerance Schemes

- Cloning: Two outputs synchronized in frame
- Backup: One “cold” backup channel
- One2many : One backup channel shared among multiple active channels
- Disaster recovery: A different site automatically updated from the main site and 100% independent





# Upgrade To ETERE Automation

No other vendor is able to give you a better fault tolerance solution on the market today

