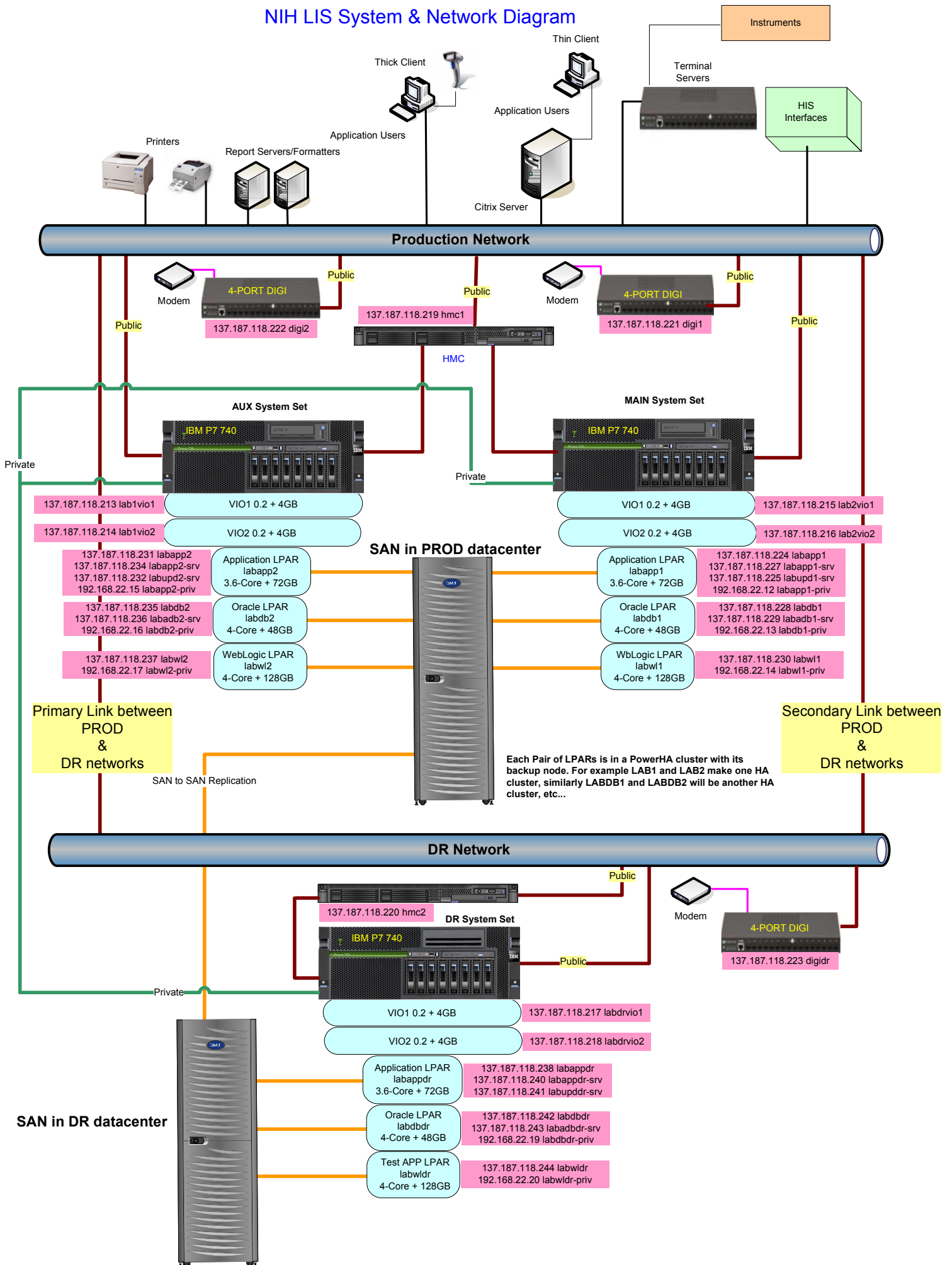
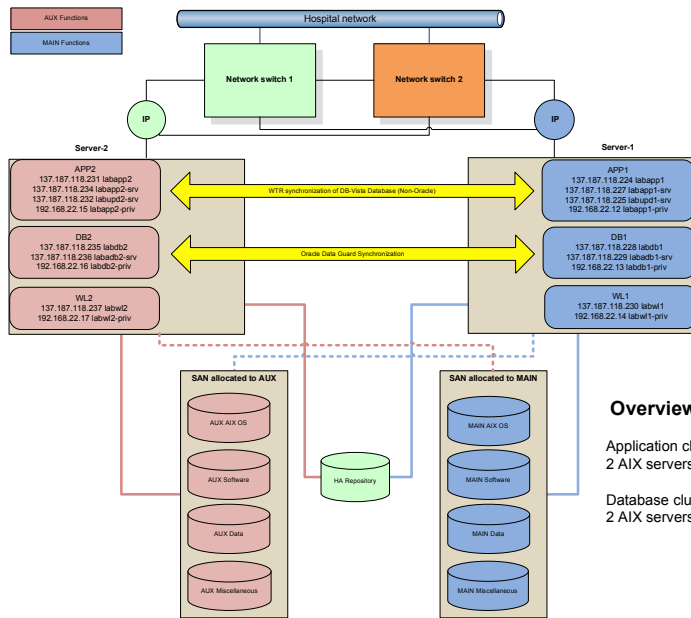


NIH LIS System & Network Diagram



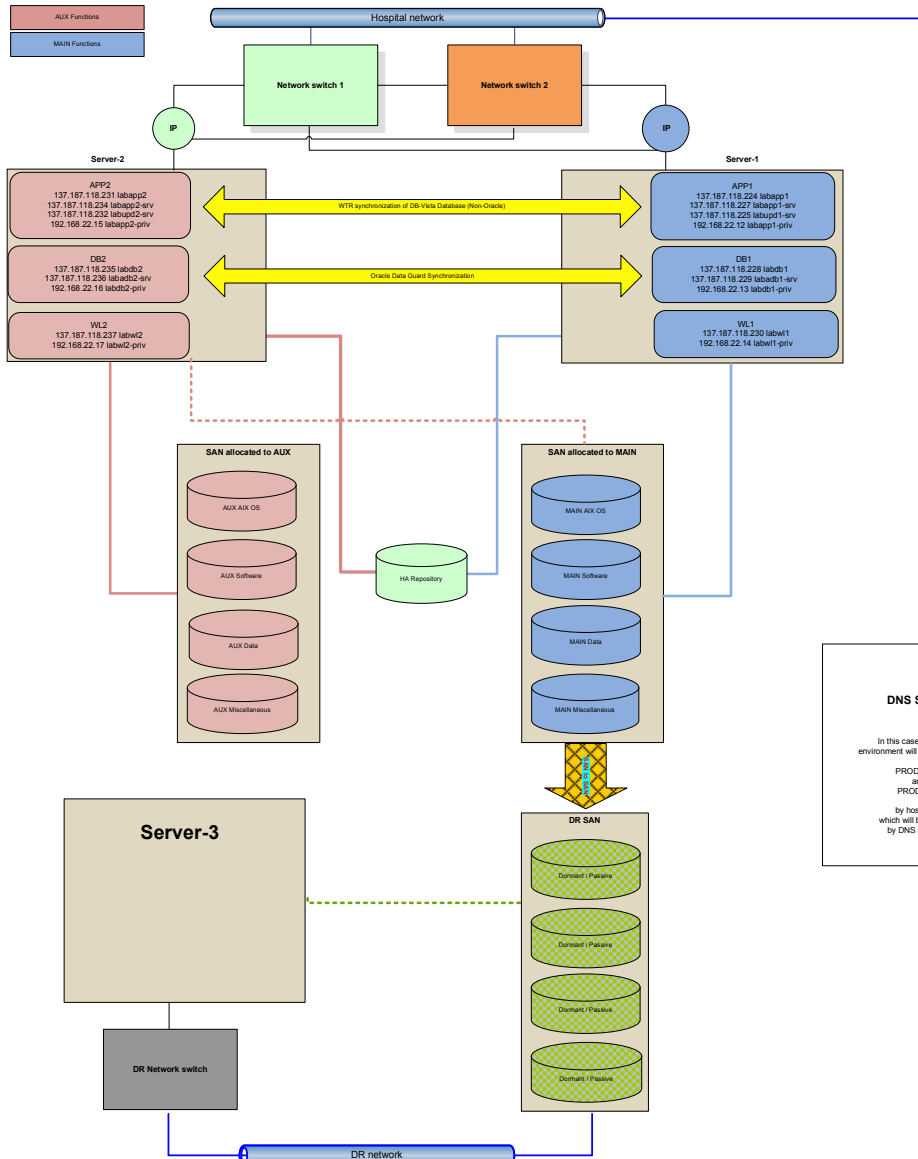
Default Standard configuration PowerHA Clusters



Overview of PowerHA Clusters

Application cluster:
2 AIX servers, MAINAPP & AUXAPP

Database cluster:
2 AIX servers, MAINDB & AUXDB



NIH Overall Design Disaster Recovery System

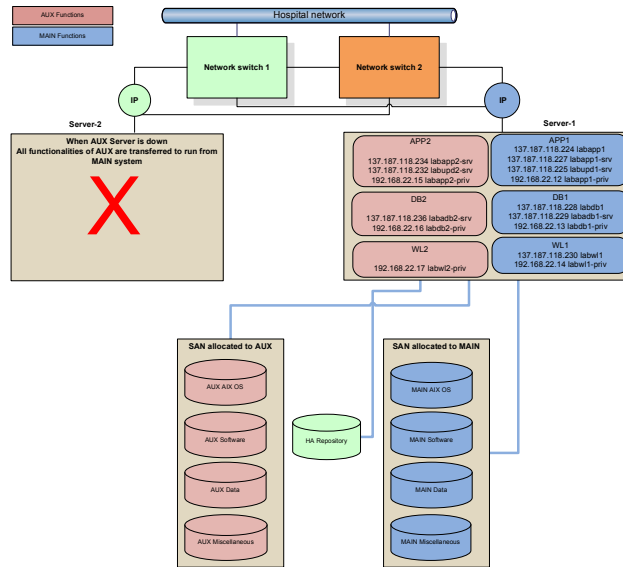
Add a third system in the DR data center

Repeat system profiles from MAIN/AUX on DR

SAN-2-SAN replication from MAIN/AUX to DR

Use DNS to connect all the LAB devices to LIS systems

Failover from AUX to MAIN



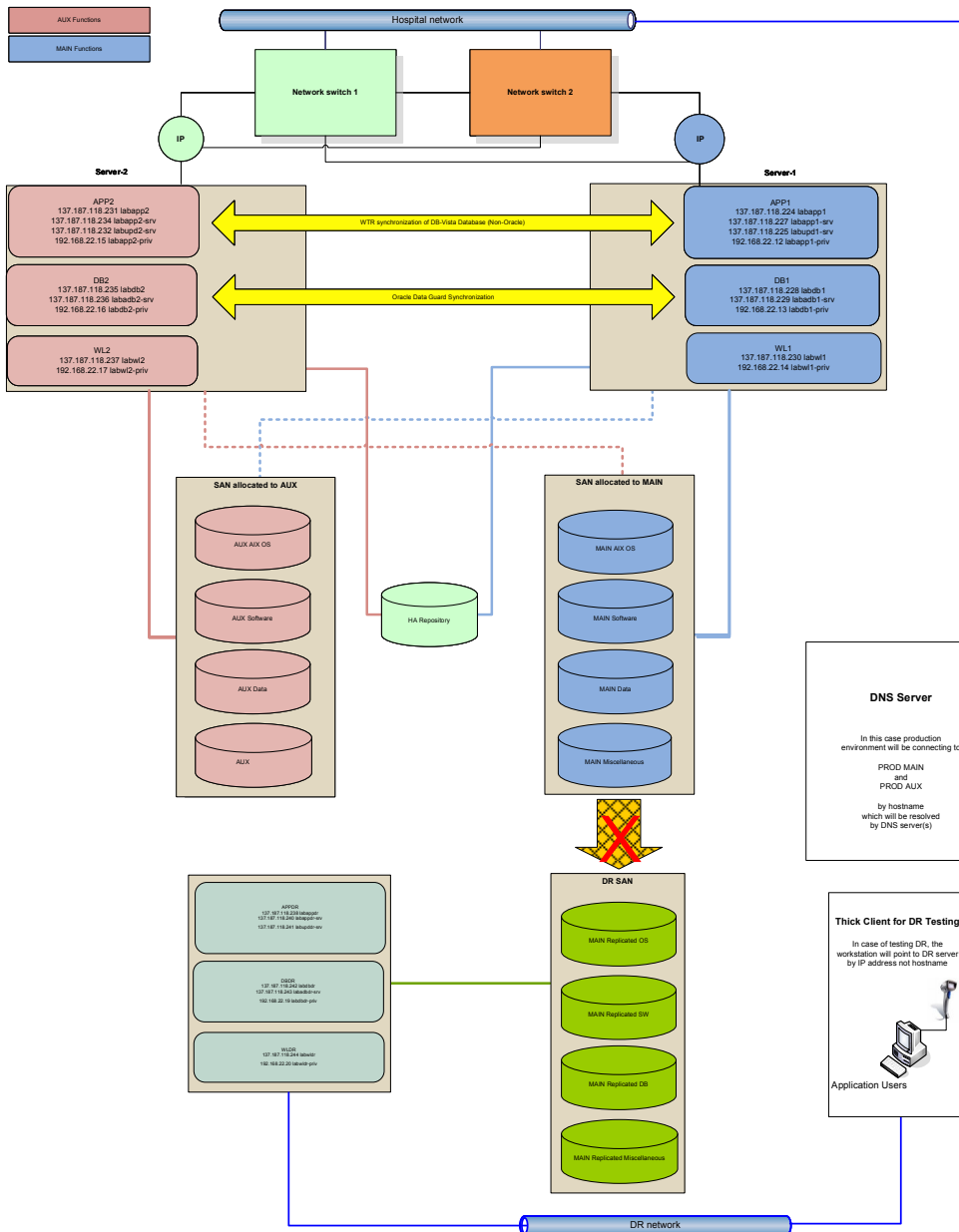
When AUX goes down:

No manual intervention

User will not notice anything

No loss of Reports

No loss of functionality



To Exercise the DR process

Stop SAN-2-SAN Replication

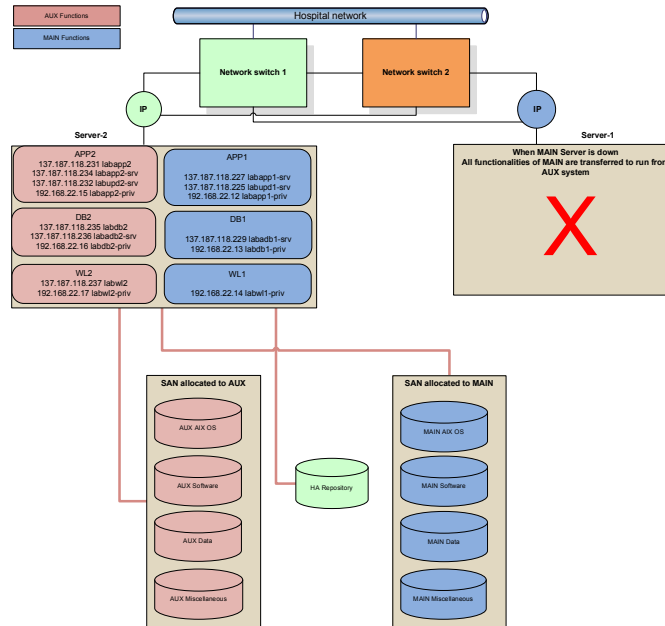
Bring up the DR systems in isolated network

Connect PC/Citrix to the isolated DR network

Test all applications on the DR systems

No Downtime for PROD during DR Exercise

Failover from MAIN to AUX



When MAIN goes down:

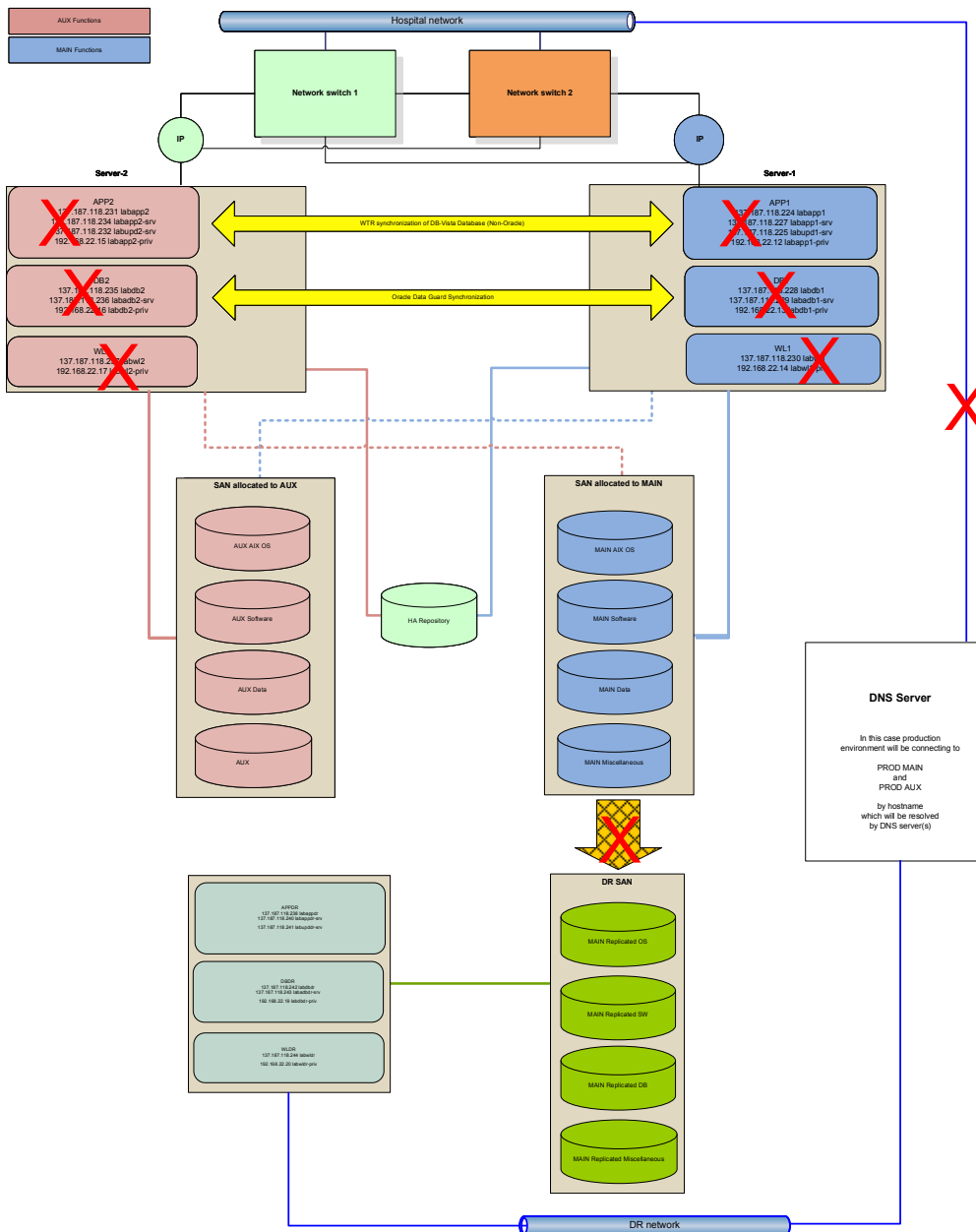
No manual intervention

2-3 minutes downtime

No change for users

No loss of data

No loss of functionality



In a real DR situation

Stop SAN-2-SAN Replication

Bring up the DR systems

Change DNS to point all devices to DR system

Continue as normal

Important Facts:

Time to fully activate DR = 1 Hour

ZERO data loss

