

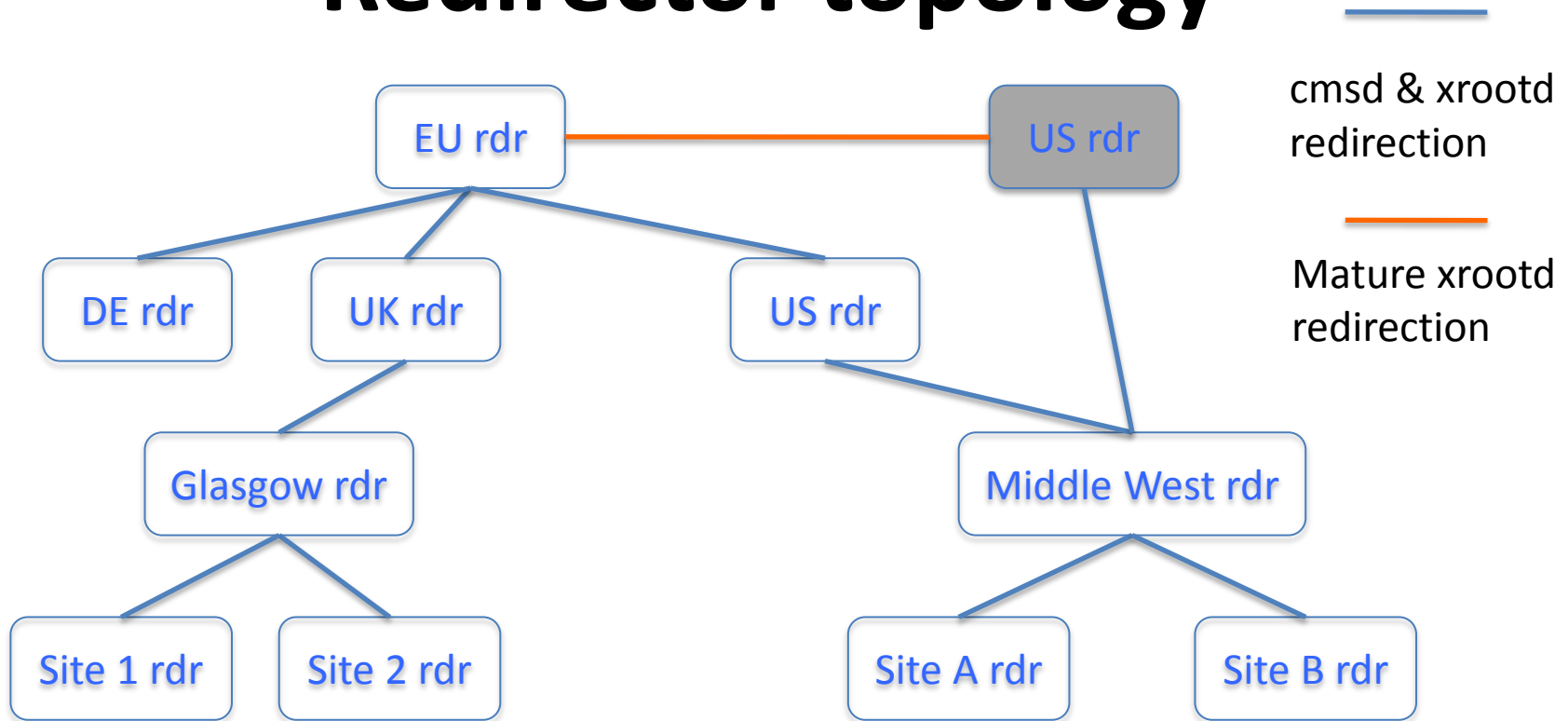
FAX Redirection Topology

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Redirector hardware at CERN

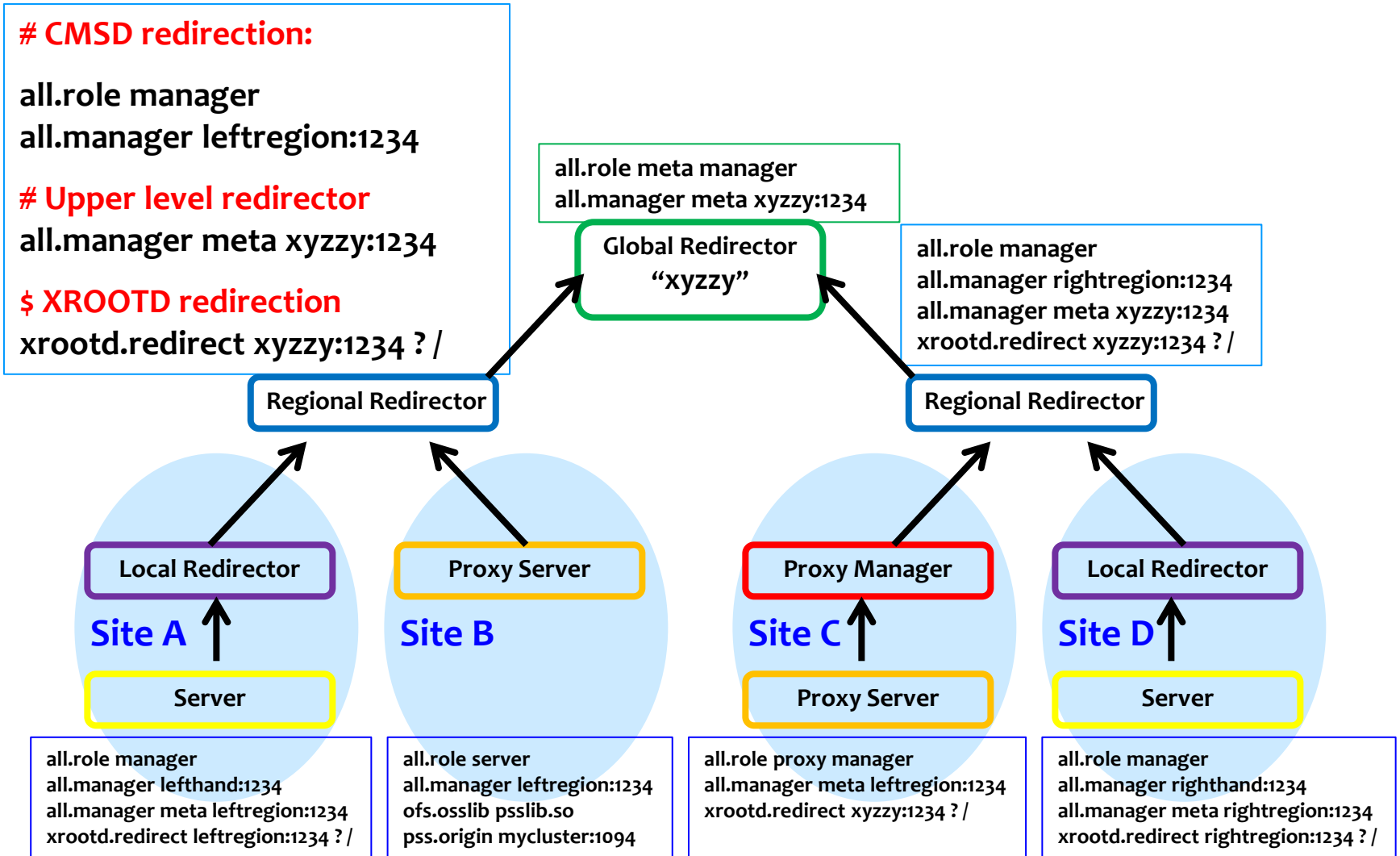
- Redundant redirectors for EU, UK, DE, FR
 - Redundant (the “+” sign below) VMs
 - More to come
- atlas-xrd-eu.cern.ch+
 - xrootd port 1094, cmsd port 1098
 - SLAC test machine can join it, working as expected
- atlas-xrd-uk.cern.ch+
 - Report to EU redirector
 - Xrootd port 1094, cmsd port ?
 - SLAC can't join it, debugging ...
 - Same for DE and FR redirectors

Redirector topology



- cmsd based redirection search the branch under it
- xrootd based redirection is used to jump to upper level if cmsd search return nothing
- US can either report to EU redirector, or as a peer of EU depend on needs, latency, or performance

How the topology works



Topology verification

Goal: diagnose broken node in the topology

- Deploy site specific (small) file with known checksum
- Access from global redirector
 - Test full redirection chain + N2N
- For every lower level redirector
 - Test a file not exists in its domain

How to find out that the actual topology is?

- Who know how do this manually
- We need to do it automatically and produce a graph