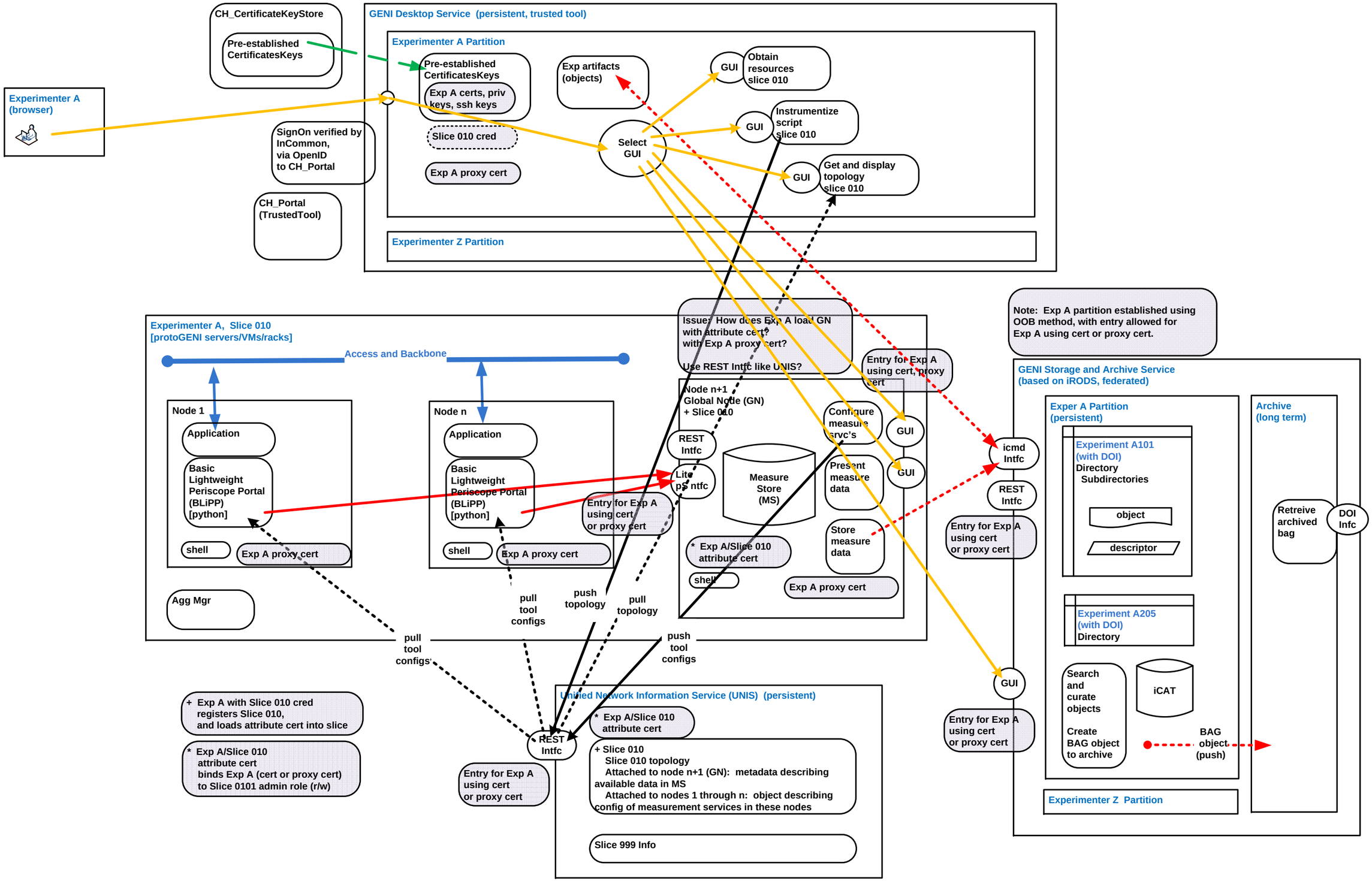
CH_CertificateKeyStore
Pre-established CertificatesKeys
GENI Desktop Service (persistent, trusted tool)
Experimenter A Partition
Pre-established CertificatesKeys
Exp A certs, priv keys, ssh keys
Slice 010 cred
Exp A proxy cert
Exp artifacts (objects)
Select GUI
GUI
Obtain resources slice 010
Instrumentize script slice 010
Get and display topology slice 010
Experimenter Z Partition
Experimenter A (browser)
SignOn verified by InCommon, via OpenID to CH_Portal
CH_Portal (TrustedTool)
Experimenter A, Slice 010 [protoGENI servers/VMs/racks]
Access and Backbone
Node 1
Application
Basic Lightweight Periscope Portal (BLiPP) [python]
shell
Exp A proxy cert
Agg Mgr
Node n
Application
Basic Lightweight Periscope Portal (BLiPP) [python]
shell
Exp A proxy cert
Entry for Exp A using cert or proxy cert
pull tool configs
push topology
pull topology
pull tool configs
push tool configs
Issues: How does Exp A load GN with attribute cert? with Exp A proxy cert?
Use REST Intfc like UNIS?
Node n+1 Global Node (GN) + Slice 010
REST Intfc
Lite ps ntfc
Measure Store (MS)
Configure measure srvc's
Present measure data
Store measure data
GUI
GUI
* Exp A/Slice 010 attribute cert
shell
Exp A proxy cert
Entry for Exp A using cert, proxy cert
Note: Exp A partition established using OOB method, with entry allowed for Exp A using cert or proxy cert.
GENI Storage and Archive Service (based on iRODS, federated)
Exper A Partition (persistent)
Experiment A101 (with DOI)
Directory
Subdirectories
object
descriptor
Experiment A205 (with DOI)
Directory
Search and curate objects
Create BAG object to archive
iCAT
BAG object (push)
Archive (long term)
Retreive archived bag
DOI Infc
icmd Intfc
REST Intfc
Entry for Exp A using cert or proxy cert
GUI
Entry for Exp A using cert or proxy cert
Experimenter Z Partition
+ Exp A with Slice 010 cred registers Slice 010, and loads attribute cert into slice
* Exp A/Slice 010 attribute cert binds Exp A (cert or proxy cert) to Slice 0101 admin role (r/w)
Unified Network Information Service (UNIS) (persistent)
REST Intfc
Entry for Exp A using cert or proxy cert
* Exp A/Slice 010 attribute cert
+ Slice 010
Slice 010 topology
Attached to node n+1 (GN): metadata describing available data in MS
Attached to nodes 1 through n: object describing config of measurement services in these nodes
Slice 999 Info