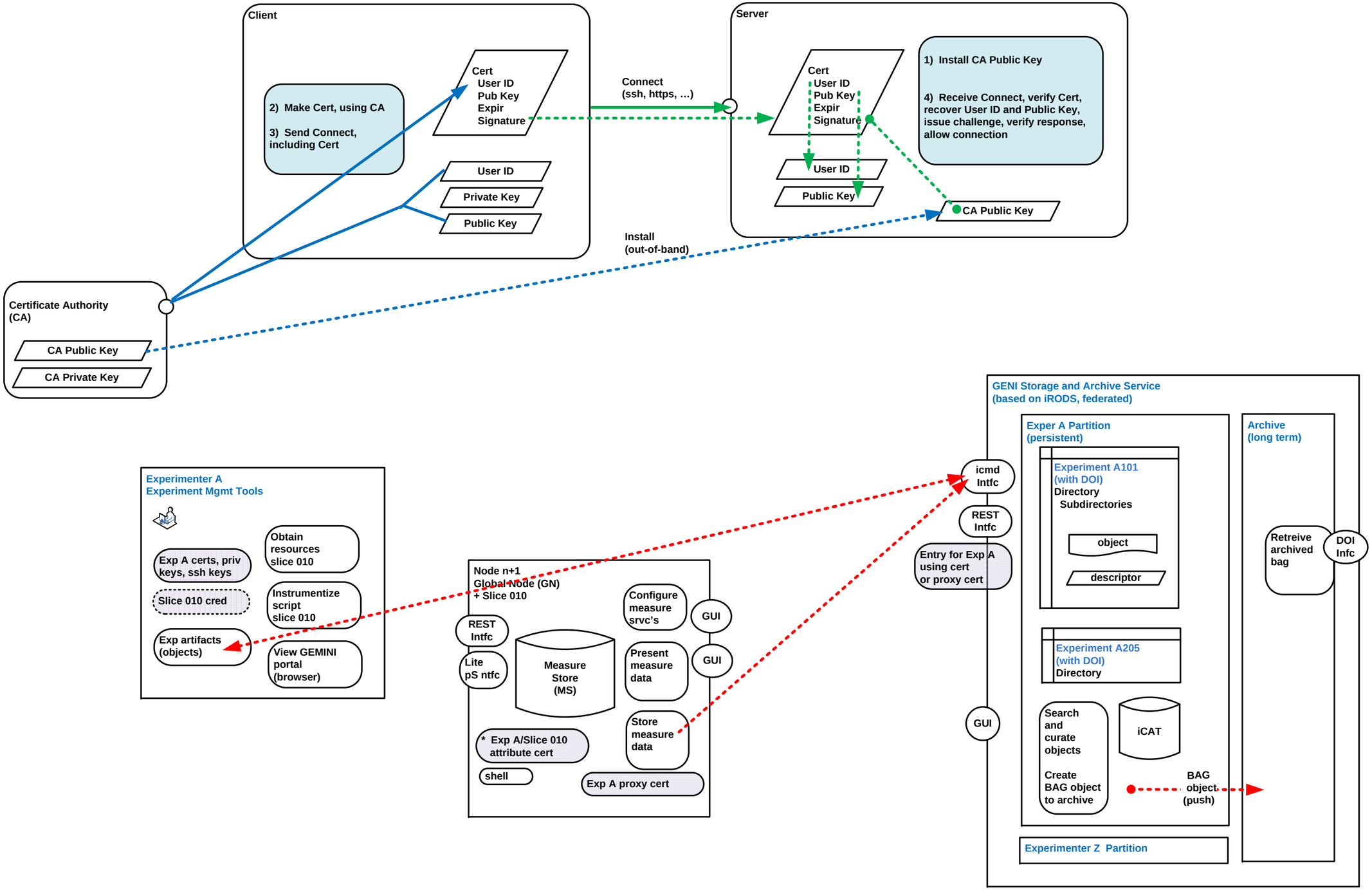
Client
2) Make Cert, using CA
3) Send Connect, including Cert
Cert
User ID
Pub Key
Expir
Signature
User ID
Private Key
Public Key
Connect
(ssh, https, ...)
Server
Cert
User ID
Pub Key
Expir
Signature
1) Install CA Public Key
4) Receive Connect, verify Cert, recover User ID and Public Key, issue challenge, verify response, allow connection
User ID
Public Key
CA Public Key
Install
(out-of-band)
Certificate Authority
(CA)
CA Public Key
CA Private Key
Experimenter A
Experiment Mgmt Tools
Exp A certs, priv keys, ssh keys
Slice 010 cred
Exp artifacts (objects)
Obtain resources slice 010
Instrumentize script slice 010
View GEMINI portal (browser)
Node n+1
Global Node (GN)
+ Slice 010
REST Intfc
Lite pS ntfc
Measure Store (MS)
Configure measure srvc's
GUI
Present measure data
GUI
Store measure data
* Exp A/Slice 010 attribute cert
shell
Exp A proxy cert
GENI Storage and Archive Service
(based on iRODS, federated)
icmd Intfc
REST Intfc
Entry for Exp A using cert or proxy cert
GUI
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)
Experimenter Z Partition
Archive
(long term)
Retreive archived bag
DOI Infc