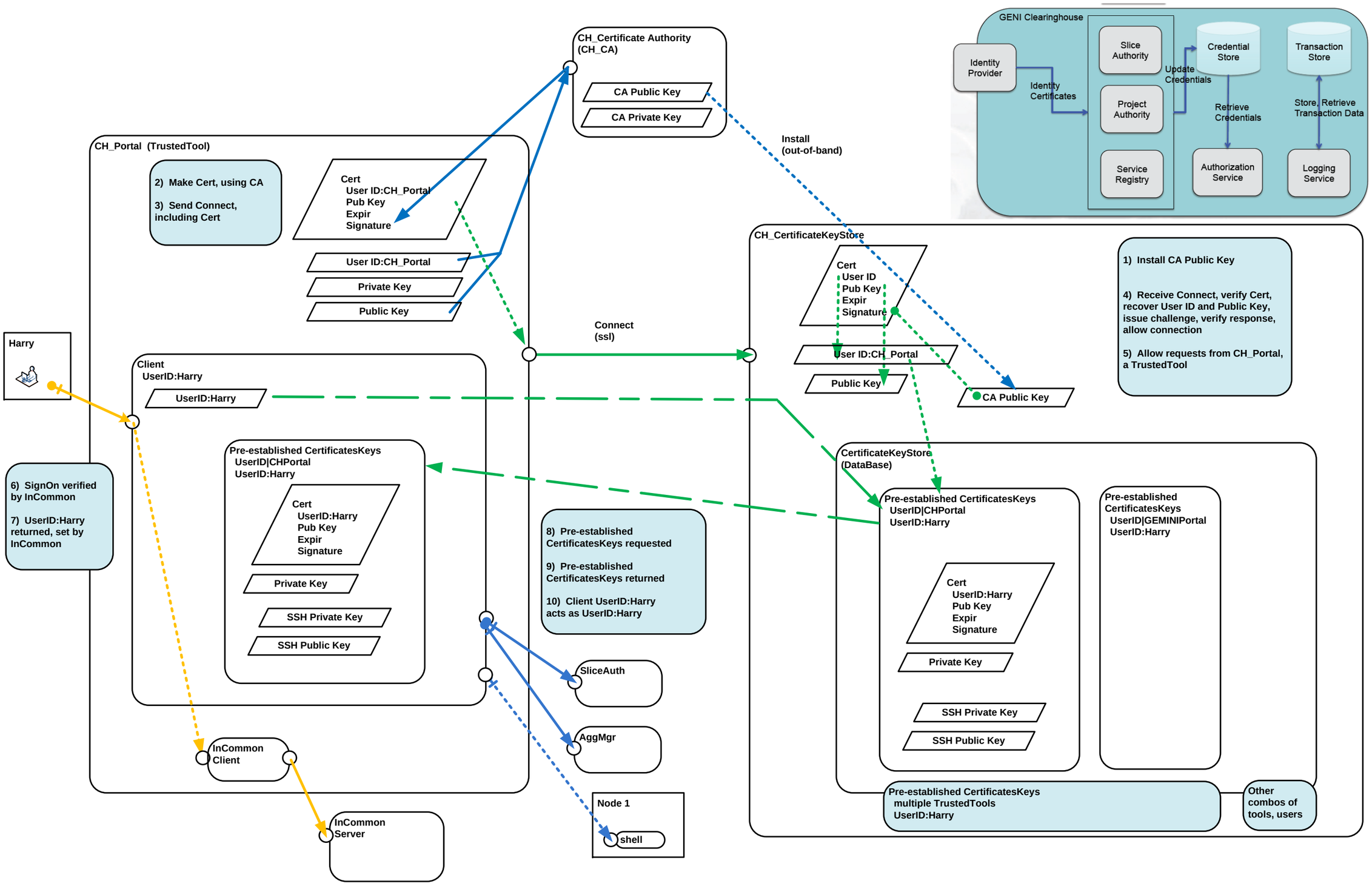
GENI Clearinghouse
Identity Provider
Identity Certificates
Slice Authority
Project Authority
Service Registry
Update Credentials
Credential Store
Transaction Store
Retrieve Credentials
Store, Retrieve Transaction Data
Authorization Service
Logging Service
CH_Certificate Authority (CH_CA)
CA Public Key
CA Private Key
Install (out-of-band)
CH_Portal (TrustedTool)
2) Make Cert, using CA
3) Send Connect, including Cert
Cert
User ID:CH_Portal
Pub Key
Expir
Signature
User ID:CH_Portal
Private Key
Public Key
Connect (ssl)
CH_CertificateKeyStore
Cert
User ID
Pub Key
Expir
Signature
User ID:CH_Portal
Public Key
CA Public Key
1) Install CA Public Key
4) Receive Connect, verify Cert, recover User ID and Public Key, issue challenge, verify response, allow connection
5) Allow requests from CH_Portal, a TrustedTool
Harry
Client
UserID:Harry
UserID:Harry
Pre-established CertificatesKeys
UserID|CHPortal
UserID:Harry
Cert
UserID:Harry
Pub Key
Expir
Signature
Private Key
SSH Private Key
SSH Public Key
6) SignOn verified by InCommon
7) UserID:Harry returned, set by InCommon
8) Pre-established CertificatesKeys requested
9) Pre-established CertificatesKeys returned
10) Client UserID:Harry acts as UserID:Harry
CertificateKeyStore (DataBase)
Pre-established CertificatesKeys
UserID|CHPortal
UserID:Harry
Cert
UserID:Harry
Pub Key
Expir
Signature
Private Key
SSH Private Key
SSH Public Key
Pre-established CertificatesKeys
UserID|GEMINIPortal
UserID:Harry
Pre-established CertificatesKeys
multiple TrustedTools
UserID:Harry
Other combos of tools, users
SliceAuth
AggMgr
Node 1
shell
InCommon Client
InCommon Server