

# CManage Paths

CManage can be implemented in three related but distinct ways. Developers should remain aware of separate goals for each path.

1. CManage can be implemented as a **framework**, enabling applications to externalize critical identity and access management needs to a common platform. Developers can use the CManage framework to centrally manage identities, groups, access controls, and other variables across a wide spectrum of domesticated applications.

Deliverables related to this path include:

- Documentation on domestication
- Documentation on package check in
- Documentation on Internet2 software agreements
- Marketing, dissemination and outreach
- VOMS comparison and integration
- Provisioning and deprovisioning discussion
- Starter kit
- Coordination between appliance/framework/service
- Coordination among application domesticators
- Discussion of plumbing CManage into the attribute ecosystem

2. CManage can be implemented as a **service**. As a service, CManage is provided by a support center such as a central IT unit, an NREN a federation, or a supercomputing center to users. As a service, implementation strategies, large scale support services, and accommodation of many VOs may become important.

Deliverables related to this path include:

- Focus on scalability
- Focus on high availability
- Specialized documentation for managing multiple VOs in this environment

3. CManage can also be used as a **VM appliance**. The open-source appliance provides a drop in set of domesticated applications and the CManage core platform (where the central identity management is implemented). One question that is yet to be clarified is whether there is a common install /configuration mechanism, which would allow this to be for the use of VOs with only graduate students, or whether it is more of a kit that requires a sysadmin. The appliance is intended to grow with new applications as domestication spreads.

Deliverables related to this path include:

- Installation scripts
- Integration with provided domesticated apps
- Documentation for use

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