## **Velo Services Description and API**

## **Overview**

### Security

Velo uses username/password authentication for all web script calls. We will want to refactor Velo to use a token returned from an initial username/password login instead as this is typical for persistent connections.

### File Browser

Content in Velo is represented using **resources**. Resources need to have SCRUD (Search, Create, Read, Update, and Delete) functionality in addition to an upload and download capability. Resources are represented hierarchically in the file browser, but relationships between resources can be graphs (a child can have multiple parents). Each resource will have an associated **path** and unique identifier (UUID). Metadata can be attached as generic key-value properties to any resource. Velo can search for resources using queries such as user name, text contents and metadata.

### Permissions

Velo supports **users** and **groups**. Each user has access to a private space as well as a global shared space. These spaces are the roots of the file browser tree. With the addition of groups, users will also have access to the space belonging to any group they are a part of. User and group permissions can be set on individual resources.

### Additional Services(will not be implemented)

Notifications, Subscriptions and Alerts, Email, Discussion, Links, Tool Integration

## **API Methods**

### Security

boolean login(String userId, Credentials credentials)StartSession

void changePassword(String userId, String currentPassword, String newPassword)ChangePassword

### Resource

#### SCRUD

List<Resource> search(String query)Search

Resource createResource(Resource folder)CreateUpdateResources

Resource getResource(CmsPath path)GetResourcesByPath

List<Resource> getChildren(CmsPath folderPath)GetChildren

List<Resource> updateResources(List<Resource> modifiedResources)CreateUpdateResources

void deleteResources(List<Resource> resourceList, String deleteOption)Delete

#### Properties

List<Resource> setProperties(List<Resource> resources)CreateUpdateResources

### File Browser

CmsPath getPath(String uuid)GetPath

boolean resourceExists(CmsPath path)Exists

Resource move(CmsPath oldPath, CmsPath newPath)

Resource copy(CmsPath source, CmsPath destination, boolean overwrite)

void buildDownload(Map<CmsPath, File> filesToDownload)GetFiles

void builkUpload(Map<File, CmsPath> filesToServerPath, Properties globalMetadata, Map<String, Properties> fileSpecificMetadata)Upload

### Permissions

*Users* GetUsersAndTeams

UserDetails createUser(NewUserDetails newUser)CreateUsers

UserDetails getUserDetails(String username)GetUser

UserDetails updateUser(UserDetails existingUser)UpdateUsers

void deleteUsers(String[] usernames)DeleteUsers

*Permissions*

ACL getPermissions(CmsPath path)GetPermissions

void setPermissions(ACL[] acls, boolean recursive)SetPermissions

boolean hasPermissions(CmsPath path, String… permissions)HasPermissions

## **API Class Declarations**











