

Service APIs - Centrally-Hosted Bamboo Services

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Overview

Centrally-hosted services fall into several categories:

1. **Proxy Services** run on a centrally-hosted services platform (the *Bamboo Services Platform* or BSP), and are available to users or clients via RESTful service APIs. In turn, these proxy services forward a user's request to other servers or services that perform the actual work requested. Cf. [Proxied Access to Remotely Hosted Tools for Scholarship](#) for further information and context.
2. **Identity and Access Management** (IAM) services (cf. [Identity and Access Management - Authentication and Authorization](#) for further information and context) form the core of an infrastructure that permits users of any client application in the Project Bamboo Ecosystem to:
 - a. log in from their home institution(s); and/or via social media identity providers (IdPs), such as Google;
 - b. maintain a constant identity no matter which institution or social media IdP they are using to log in at any given time.
 - c. be able to form groups to define with whom they wish to work or wish to share digital content, irrespective of those individuals' institutional affiliations.
3. A suite of **utility services** supports the functional services described above, offering generalized capabilities such as: generating BSP-scoped unique identifiers; [cataloging resources](#) (e.g., digital content) to which access is to be managed by authorization policies; providing [version and provenance information about services](#) involved in fulfilling user or service requests; managing [notifications](#); and offering [temporary storage of the result sets](#) built by long-running processes that are most user-friendly when run independently of RESTful request/response interactions (i.e., asynchronously). The CI Hub service, for example, takes advantage of the latter two of these capabilities (cf. [Interoperability of Digital Collections](#) for further information and context). Only services that present a RESTful interface to external clients are documented on the wiki pages listed below; service (Java) APIs for additional utility services are documented in the Bamboo Service Platform's Javadoc at <http://javadoc.projectbamboo.org/bsp/>.

Also see [Service APIs - Other Services](#).

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