

Collocation Service Contract Description - v0.8-pre-alpha

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Service Description

The Resource Oriented Architecture (Web Services) interface provides ways for web-based clients to perform collocation queries.

References

 `${REPOSITORY_ROOT}` is <http://svn.code.sf.net/p/projectbamboo/code/>

- Codebase: `${REPOSITORY_ROOT}/sandbox/christensen/trunk/`

Note that references to schemas, below, are relative to `${REPOSITORY_ROOT}`.

ROA Layer API

RESTful service methods for invoking the Collocation Service via HTTP.

Base URLs



It is assumed in this documentation that no centrally-run instances of the Bamboo Services Platform will be running after the project ends on 31 March 2013. Therefore, base URLs are assumed to be on a developer's machine, localhost. The base URL with a port number assumes that the BSP is running unsecured; the URL without a port number assumes that security is enforced and Apache Web Server is intercepting and redirecting service calls. Please see the page [Identity and Access Management - Authentication and Authorization](#) for context, as well as links to installation and configuration instructions for secured instances of BSP.

Note that *ONLY services at v0.9 or greater* will run properly in a secured instance of the BSP.

Currently available base URLs:

- <http://localhost:8181>
- <http://localhost/services>

HTTP Headers and Output Formats

The service supports the following values in the HTTP Accept header:

- `application/xml`

Output will be serialized accordingly.

[Sample xml Collocation Service Output](#)

Calling Method and Arguments

Perform collocation table query.

GET /collocation/\$service/\$identifier?q=\$query

Response

Adheres to the CollocationServiceResponse schema - \${REPOSITORY_ROOT}/sandbox/christensen/trunk/collocation-service/resource/src/main/resources/CollocationServiceResponse.xsd

Error Responses

If an error occurred, some non-2xx code will be returned. Check the [HTTP Status Code](#) that is returned in the response's HTTP headers for the specific error. The following errors may be returned in response to Philologic Service requests:

Error (Status Code)	Meaning	Returned When
400	Bad Request	Request is missing required parameters
404	Not Found	The requested document does not exist and/or the requested analysis returned no results
500	Internal Server	A service error occurred

SOA Layer API

Collocation service API.

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Calling methods and arguments

Perform collocation query.

```
/**
 * Perform collocation query.
 *
 * @param service name
 * @param identifier that is specific to service
 * @param query to perform
 * @throws IllegalArgumentException if invalid argument.
 * @throws IllegalStateException if no collection available.
 * @throws CollocationException if request cannot be completed
 * @return Collocation results
 */
public abstract Collocation getCollocation(String service, String identifier, String query) throws
CollocationException;
```