**SMARTERAPP INTERFACE SPECIFICATION**

**for**

**TEST ITEM BANK COMPONENT**

Authored by

American Institutes for Research

Revision History

|  |  |  |
| --- | --- | --- |
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| 2.0 Updated format of documentation, added examples, deprecated some TIB APIs, added previously undocumented APIs, and added changes related to new Test Authoring requirements | Rami Levy | 04-Feb-2016 |

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# API Documentation Conventions

The API endpoints are described as follows:

METHOD /endpointname/{pathparameter}?requestparameter1={value1}&requestparameter2={value2}&...

* METHOD indicates the specific HTTP request method: GET, POST, PUT or DELETE
* endpointname is the name used to invoke this API endpoint, assumed to follow a base URL dependent on the particular deployment of the component (for example: https://smarterbalanced.org/permissions/rest/endpointname)
* requestparameter provides parameterized information to this API endpoint
  + *Italicized* parameter names and values are optional
  + {curly brackets} denotes variables
  + Additional Request Parameters are delimited by an ampersand (&)
* pathparameter - Path Parameters are the variable parts of the path, and are documented separately from Request Parameters.

The following table documents the possible response codes for these APIs.

| **HTTP Response Code** | **Meaning** |
| --- | --- |
| 200 | (“OK”) Used to indicate nonspecific success. |
| 201 | (“Created”) Used to indicate successful resource creation |
| 202 | (“Accepted”) Used to indicate successful start of an asynchronous action |
| 204 | (“No Content”) Used when the response body is intentionally empty |
| 301 | (“Moved Permanently”) Used to indicate the resource has been relocated |
| 303 | (“See Other”) Used to refer the client to a different URI |
| 304 | (“Not Modified”) Used to preserve bandwidth |
| 307 | (“Temporary Redirect”) Used to tell clients to resubmit the request to another URI |
| 400 | (“Bad Request”) Used to indicate nonspecific failure |
| 401 | (“Unauthorized”) Used when there is a problem with the client’s credentials |
| 403 | (“Forbidden”) Used to forbid access regardless of authorization state |
| 404 | (“Not Found”) Used when a client’s URI cannot be mapped to a resource |
| 405 | (“Method Not Allowed”) Used when the HTTP method is not supported |
| 406 | (“Not Acceptable”) Used when the requested media type cannot be served |
| 409 | (“Conflict”) should be used to indicate a violation of resource state |
| 412 | (“Precondition Failed”) should be used to support conditional operations |
| 415 | (“Unsupported Media Type”) Used when the media type of a request’s payload cannot be processed |
| 500 | (“Internal Server Error”) should be used to indicate API malfunction |

Table . HTTP Response Codes

Please note that all information provided via the APIs documented here are case sensitive. For example, “Administrator” is not the same as “administrator.”

## Authentication

Each API endpoint is designated as either *Public* or *Private*.

Private APIs mutate data in the Test Item Bank database. These require a user that is authenticated and authorized to modify the TIB database.

Public APIs are intended for machine-to-machine API calls. All calls to these APIs must originate from a server with the appropriate shared keys for authentication and authorization of the calling server.

# Test Item Bank API Overview

## Test Item Bank Overview

The Test Item Bank component is responsible for

* Storage and retrieval of test items and their metadata
* Packaging items for test spec bank

## Test Item Bank API Summary

## Authorization

All TIB API calls require authorization. This is accomplished via an OAuth token sent in the headers in this format:

Accept: application/json

Authorization: Bearer *insert-oauth-guid-here*

Content-Type: application/json

## Tenancy

All TIB API calls are tenanted, meaning they require a tenant identifier to be transmitted along with the call. A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs and are required parameters on most TIB API calls.

## Item Bank Number

All items belong to an item bank, which is a grouping of items. The item bank number (identifier) is required for some API calls.

## REST APIs

The Test Item Bank component APIs are divided into public and private APIs. The private APIs allow mutation of the data contained in Test Item Bank and are intended to be used solely by administrators with access to the Test Item Bank user interface to define roles, components, permissions and mappings. The public APIs provide read-only access to this information for client components to use in determining the appropriate level of authorization to grant a given user based on the user’s roles.

The following tables describe the Test Item Bank public and private APIs.

| API Endpoint | HTTP Request | Description |
| --- | --- | --- |
| /item | GET /item/{identifier} | Returns a specific item’s metadata. |
| /item | GET /item?{key}={value(s)} | Provides the capability to query the Test Item Bank based on searchable metadata. |
| /item | GET /item/{identifier}/history | Retrieves a list of Item version(s) and the associated metadata for each version. |
| /itemMetadata | GET /itemMetadata | Obtain a unique set of all available item metadata names for a particular tenant. |
| /itemMetadataValue | GET /itemMetadataValue | Obtain valid values for selected metadata. |
| /importSet | GET /importSet/{importSetID} | Retrieves information about the file uploaded. Expects ImportSetID from the corresponding uploaded file. |
| /exportSet | POST /exportSet | Post set of items represented in JSON format in agreed upon SFTP site. The export process ships the entire item contents (saved as zip file) to the designated SFTP site. |
| /exportSet | GET /exportSet/{setId} | Provides status information on the exportSet whose ID was provided by an earlier POST /exportSet call. |
| /itemsByIdentifierSearch | POST /itemsByIdentifierSearch | Post JSON containing item bank, tenant ID, and list of item identifiers. Returns item information for all requested items. |

Table : Test Item Bank Public API Summary

|  |  |  |
| --- | --- | --- |
| API Endpoint | HTTP Request | Description |
| /sftpFileImport | POST /sftpFileImport | Post JSON payload containing file names located in agreed upon SFTP site. |
| /uploadFile | POST /uploadFile | Upload a file to TIB. mulipart form, file:filebytes |
| /stagedFile | POST /stagedFile | Imports a file (APIP) into Test Item Bank from a local computer. This will be used for testing purposes only. |

Table : Test Item Bank Private API Summary

# /item/{identifier} (GET)

## Overview

Returns a specific item’s metadata.

## HTTP Request [Public API]

GET /item/{identifier}?tenantId={tenant\_id}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| identifier | string | Item identifier, usually in the form of {item/stim}-{itembank-id}-{item-id} | any | any |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId={tenant\_id} | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |

## Request Body

GET /item/item-123-1072?tenantId=52614674e4b0f8db9d8384b6 HTTP/1.1

Host: *your-TIB-host*

Accept: application/json

Authorization: Bearer *your-oauth-token-here*

Content-Type: application/json

## Response

If successful, this method returns a JSON object with an item and all of its metadata. This object contains further links for obtaining item content and history.

{

"interactionType": "MC",

"tenantId": "52614674e4b0f8db9d8384b6",

"itemBank": "123",

"version": "16",

"status": "Ready for Field Test",

"subject": "ELA",

"intendedGrade": "3",

"stimulusName": null,

"associatedStimulus": null,

"associatedTutorial": "1072",

"associatedWordlist": null,

"itemEnemies": null,

"languages": [

"ENU",

"ENU-Braille"

],

"itemScoreDimensionList": null,

"itemStandardPublicationList": [

{

"Publication": "SBAC-ELA-v1",

"PrimaryStandard": "SBAC-ELA-v1:2-W",

"SecondaryStandard": null

},

{

"Publication": "SBAC-ELA-v3",

"PrimaryStandard": "SBAC-ELA-v3:ELA-Undesignated",

"SecondaryStandard": null

}

],

"allIncludedMetatdata": {

"ScorePoints": "\"0,1\"",

"EvidenceStatement": "To complete this task, students must identify the subject-verb agreement error.",

"TargetAssessmentType": "Practice Test Refresh",

"Claim2Category": "C",

"LastModifiedBy": "john smith",

"DepthOfKnowledge": "1",

"SecurityStatus": "Non-secure",

"MaximumNumberOfPoints": "1",

"ItemAuthorIdentifier": "john smith",

"MaximumGrade": "3",

"InteractionType": "MC",

"Identifier": "1023",

"Version": "16",

"SmarterAppItemDescriptor": "ELA.03.SR.2.L.09.xxx - SB OP",

"AssociatedTutorial": "1072",

"MinimumGrade": "3",

"StimulusFormat": "Standard",

"Subject": "ELA",

"IntendedGrade": "3",

"EducationalDifficulty": "Low",

"xmlns": "http://www.smarterapp.org/ns/1/assessment\_item\_metadata",

"ItemSpecFormat": "SmarterApp",

"SufficientEvidenceOfClaim": "To complete this task, students must identify the subject-verb agreement error.",

"Status": "Ready for Field Test",

"StandardPublication": [

{

"PrimaryStandard": "SBAC-ELA-v1:2-W",

"Publication": "SBAC-ELA-v1"

},

{

"PrimaryStandard": "SBAC-ELA-v3:ELA-Undesignated",

"Publication": "SBAC-ELA-v3"

}

],

"Claim2RevisionCategory": "R",

"Language": [

"ENU",

"ENU-Braille"

],

"BrailleType": "BRF"

},

"id": "5644146be4b0d7f3a47a1fba",

"identifier": "item-123-1023",

"url": "item/item-123-1023",

"itemHistoryURI": "item/item-123-1023/history"

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /item/item-123-12345?tenantId=52614674e4b0f8db9d8384b6** | 200 |
| **GET /item/stim-123-8461?tenantId=bad-tenant-id** | 404 |
| **GET /item/bad-item-id?tenantId=52614674e4b0f8db9d8384b6** | 404 |

# /item?{key}={value(s)} (GET)

## Overview

Provides the capability to query the Test Item Bank based on searchable metadata.

Query parameters will act as an **'AND'** *between* keys, and as an **'OR'** *within* keys. For example:

* A query on *IntendedGrade*=3 and *IntendedGrade*=5 will return items matching the union ("OR") of grades 3 and 5.
* A query on *IntendedGrade*=4 and *InteractionType*=MC will return items matching the intersection ("AND") of grade 4 and MC (multiple choice) – that is, 4th grade MC items.

Additional notes:

* *tenantId* and *itemBank* are required parameters
* Key/Value pairs are case-sensitive. It's important that the cases match the metadata in the items or the searches will not work as expected. To obtain the list of available metadata, use the GET /itemMetadata API call.

## HTTP Request [Public API]

GET /item?{key}={value(s)}&tenantId={tenant\_id}&itemBank={bank\_id}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId={tenant\_id} | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |
| itemBank={bank\_id} | String | An identifier (usually numeric) representing the item bank from which to pull the requested items, | A valid string identifying the item bank | Any |
| {key} | String | Any valid metadata field. Invalid fields are ignored. | To obtain the list of available metadata, use the GET /itemMetadata API call. | Any |
| {value} | String | Any valid values for the metadata in question. | Any valid values for the metadata in question. | Any |

## Request Body

GET /item?Subject=ELA&IntendedGrade=12&InteractionType=MC&tenantId=52614674e4b0f8db9d8384b6&itemBank=123 HTTP/1.1

Host: *your-TIB-host*

Accept: application/json

Authorization: Bearer *your-oauth-token-here*

Content-Type: application/json

## Response

If successful, this method returns a JSON object with all matching items and their metadata. A contrived example is below:

{

"searchResults": [

{

"interactionType": "MC",

"tenantId": "52614674e4b0f8db9d8384b6",

"itemBank": "123",

"version": "2",

"status": "Field Test",

"subject": "ELA",

"intendedGrade": "4",

"stimulusName": null,

"associatedStimulus": null,

"associatedTutorial": "67708",

"associatedWordlist": null,

"itemEnemies": null,

"languages": [

"ENU",

"ENU-Braille"

],

"itemScoreDimensionList": null,

"itemStandardPublicationList": [

{

"Publication": "SBAC-ELA-v1",

"PrimaryStandard": "SBAC-ELA-v1:2-W|6-4",

"SecondaryStandard": null

}

],

"allIncludedMetatdata": {

"ScorePoints": "\"0,1\"",

"AchievementQuintile": "4",

"AdministrationDate": "Field Test",

"Claim2Category": "O",

"LastModifiedBy": "Sridhar\_Ravva",

"DepthOfKnowledge": "2",

"SecurityStatus": "Field test",

"MaximumNumberOfPoints": "1",

"ItemAuthorIdentifier": "John Smith",

"MaximumGrade": "4",

"InteractionType": "MC",

"Identifier": "29223",

"Version": "2",

"SmarterAppItemDescriptor": "61242",

"AssociatedTutorial": "67708",

"ScoringEngine": "Automatic with Key",

"MinimumGrade": "3",

"StimulusFormat": "Standard",

"Subject": "ELA",

"IntendedGrade": "4",

"xmlns": "http://www.smarterapp.org/ns/1/assessment\_item\_metadata",

"ItemSpecFormat": "SmarterApp",

"PresentationFormat": "Text",

"Status": "Field test",

"ContentTaskModel": "2",

"StandardPublication": {

"PrimaryStandard": "SBAC-ELA-v1:2-W|6-4",

"Publication": "SBAC-ELA-v1"

},

"Claim2RevisionCategory": "R",

"PerformanceTaskComponentItem": "N",

"Language": [

"ENU",

"ENU-Braille"

],

"BrailleType": "BRF"

},

"id": "5643afc4e4b0d7f3a4777a8a",

"identifier": "item-123-29223",

"url": "item/item-123-29223",

"itemHistoryURI": "item/item-123-29223/history"

},

:

:

],

"currentPage": 0,

"returnCount": 10,

"pageSize": 10,

"totalCount": 788,

"sortKey": "\_id",

"sortDirection": "ASC",

"nextPageUrl": "?tenantId=52614674e4b0f8db9d8384b6&Subject=ELA&IntendedGrade=4&itemBank=123pageSize=10&currentPage=1",

"prevPageUrl": null

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /item?Subject=ELA&IntendedGrade=12&interactionType=MC&tenantId=52614674e4b0f8db9d8384b6&itemBank=123** | 200 |
| **GET /item?Subject=ELA&IntendedGrade=12&InteractionType=MC&itemBank=123&tenantId=bad\_tenant (no data will be returned)** | 200 |
| **GET /item?Subject=ELA&IntendedGrade=12&tenantId=52614674e4b0f8db9d8384b6&itemBank=bad\_item\_bank&InteractionType=MC (no data will be returned)** | 200 |
| **GET /item?Subject=ELA&IntendedGrade=12&tenantId=52614674e4b0f8db9d8384b6&InteractionType=MC (item bank parameter missing)** | 400 |
| **GET /item?Subject=ELA&IntendedGrade=12&InteractionType=MC&itemBank=123 (tenant ID parameter missing)** | 400 |

# /item/{identifier}/history (GET)

## Overview

Retrieves a list of Item version(s) and the associated metadata for each version.

## HTTP Request [Public API]

GET /item/{identifier}/history&tenantId={tenantId}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| identifier | string | Item identifier, usually in the form of {item/stim}-{itembank-id}-{item-id} | any | any |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId={tenant\_id} | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |

## Request Body

GET /item/item-123-1023/history?tenantId=53cd604ee4b0127edfb96ccf HTTP/1.1

Host: *your-tib-server*

Accept: application/json

Authorization: Bearer *oath-token-here*

Content-Type: application/json

## Response

If successful, this method returns a JSON object with the item's metadata and its historical information:

[

{

"interactionType": "MC",

"tenantId": "53cd604ee4b0127edfb96ccf",

"itemBank": "123",

"version": "16",

"status": "Ready for Field Test",

"subject": "ELA",

"intendedGrade": "3",

"stimulusName": null,

"associatedStimulus": null,

"associatedTutorial": "1072",

"associatedWordlist": null,

"itemEnemies": null,

"languages": [

"ENU",

"ENU-Braille"

],

"itemScoreDimensionList": null,

"itemStandardPublicationList": [

{

"Publication": "SBAC-ELA-v1",

"PrimaryStandard": "SBAC-ELA-v1:2-W",

"SecondaryStandard": null

},

{

"Publication": "SBAC-ELA-v3",

"PrimaryStandard": "SBAC-ELA-v3:ELA-Undesignated",

"SecondaryStandard": null

}

],

"allIncludedMetatdata": {

"ScorePoints": "\"0,1\"",

"EvidenceStatement": "To complete this task, students must identify the subject-verb agreement error.",

"TargetAssessmentType": "Practice Test Refresh",

"Claim2Category": "C",

"LastModifiedBy": "linesh\_shah",

"DepthOfKnowledge": "1",

"SecurityStatus": "Non-secure",

"MaximumNumberOfPoints": "1",

"ItemAuthorIdentifier": "john smith",

"MaximumGrade": "3",

"InteractionType": "MC",

"Identifier": "1023",

"Version": "16",

"SmarterAppItemDescriptor": "ELA.03.SR.2.L.09.xxx - SB OP",

"AssociatedTutorial": "1072",

"MinimumGrade": "3",

"StimulusFormat": "Standard",

"Subject": "ELA",

"IntendedGrade": "3",

"EducationalDifficulty": "Low",

"xmlns": "http://www.smarterapp.org/ns/1/assessment\_item\_metadata",

"ItemSpecFormat": "SmarterApp",

"SufficientEvidenceOfClaim": "To complete this task, students must identify the subject-verb agreement error.",

"Status": "Ready for Field Test",

"StandardPublication": [

{

"PrimaryStandard": "SBAC-ELA-v1:2-W",

"Publication": "SBAC-ELA-v1"

},

{

"PrimaryStandard": "SBAC-ELA-v3:ELA-Undesignated",

"Publication": "SBAC-ELA-v3"

}

],

"Claim2RevisionCategory": "R",

"Language": [

"ENU",

"ENU-Braille"

],

"BrailleType": "BRF"

},

"id": "56324e71e4b056179ed68cb4",

"identifier": "item-123-1023",

"url": "itemHistory/56324e71e4b056179ed68cb4"

}

]

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /item/item-123-1023/history?tenantId=53cd604ee4b0127edfb96ccf** | 200 |
| **GET /item/item-123-1023/history?tenantId=bad\_tenant** | 200 |
| **GET /item/non-existent-item/history?tenantId=53cd604ee4b0127edfb96ccf** | 200 |
| **GET /item/history?tenantId=53cd604ee4b0127edfb96ccf (item ID missing)** | 404 |

# /itemHistory/{mongoId} (GET)

## Overview

Retrieves a list of Item metadata and version information for the specified item. Since mongoId is unique, there is no need to specify the *tenantId* or the *itemBank*. This API endpoint is usually used during testing or by admins.

## HTTP Request [Public API]

GET /itemHistory/{mongo-id}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| {mongo-id} | String (GUID) | Mongo ID of item in item bank | Any valid Mongo identifier | Any |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Body

GET /itemHistory/5644146be4b0d7f3a47a1fb9 HTTP/1.1

Host: *your-tib-server*

Accept: application/json

Authorization: Bearer *oath-token-here*

Content-Type: application/json

## Response

If successful, this method returns a JSON object with the item's metadata and its historical information:

{

"interactionType": "MC",

"tenantId": "52614674e4b0f8db9d8384b6",

"itemBank": "123",

"version": "16",

"status": "Ready for Field Test",

"subject": "ELA",

"intendedGrade": "3",

"stimulusName": null,

"associatedStimulus": null,

"associatedTutorial": "1072",

"associatedWordlist": null,

"itemEnemies": null,

"languages": [

"ENU",

"ENU-Braille"

],

"itemScoreDimensionList": null,

"itemStandardPublicationList": [

{

"Publication": "SBAC-ELA-v1",

"PrimaryStandard": "SBAC-ELA-v1:2-W",

"SecondaryStandard": null

},

{

"Publication": "SBAC-ELA-v3",

"PrimaryStandard": "SBAC-ELA-v3:ELA-Undesignated",

"SecondaryStandard": null

}

],

"allIncludedMetatdata": {

"ScorePoints": "\"0,1\"",

"EvidenceStatement": "To complete this task, students must identify the subject-verb agreement error.",

"TargetAssessmentType": "Practice Test Refresh",

"Claim2Category": "C",

"LastModifiedBy": "john smith",

"DepthOfKnowledge": "1",

"SecurityStatus": "Non-secure",

"MaximumNumberOfPoints": "1",

"ItemAuthorIdentifier": "john smith",

"MaximumGrade": "3",

"InteractionType": "MC",

"Identifier": "1023",

"Version": "16",

"SmarterAppItemDescriptor": "ELA.03.SR.2.L.09.xxx - SB OP",

"AssociatedTutorial": "1072",

"MinimumGrade": "3",

"StimulusFormat": "Standard",

"Subject": "ELA",

"IntendedGrade": "3",

"EducationalDifficulty": "Low",

"xmlns": "http://www.smarterapp.org/ns/1/assessment\_item\_metadata",

"ItemSpecFormat": "SmarterApp",

"SufficientEvidenceOfClaim": "To complete this task, students must identify the subject-verb agreement error.",

"Status": "Ready for Field Test",

"StandardPublication": [

{

"PrimaryStandard": "SBAC-ELA-v1:2-W",

"Publication": "SBAC-ELA-v1"

},

{

"PrimaryStandard": "SBAC-ELA-v3:ELA-Undesignated",

"Publication": "SBAC-ELA-v3"

}

],

"Claim2RevisionCategory": "R",

"Language": [

"ENU",

"ENU-Braille"

],

"BrailleType": "BRF"

},

"id": "5644146be4b0d7f3a47a1fb9",

"identifier": "item-123-1023",

"url": "itemHistory/5644146be4b0d7f3a47a1fb9"

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /itemHistory/56324e71e4b056179ed68cb4** | 200 |
| **GET /itemHistory/bad-mongoId** | 200 |
| **GET /itemHistory/ (no mongoID provided)** | 404 |

# /itemMetadata (GET)

## Overview

Obtain a unique set of all available item metadata names for a particular tenant.

## HTTP Request [Public API]

GET /itemMetadata?tenantId={tenant\_id}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId={tenant\_id} | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |

## Request Body

GET /itemMetadata?tenantId=53cd604ee4b0127edfb96ccf HTTP/1.1

Host: your-tib-server

Accept: application/json

Authorization: Bearer oath-token-here

Content-Type: application/json

## Response

If successful, this method returns a JSON object with a unique set of all available item metadata in a selected itemBank and for items belonging to the specified tenant. Note that metadataKeys are case sensitive.

{

"id": "5643afbee4b0d7f3a477780a",

"tenantId": "52614674e4b0f8db9d8384b6",

"metadataKeys": [

"AccessibilityTagsASLLanguage",

"AchievementQuintile",

"AdministrationDate",

"AlgebraFunctionDescriptor",

"AllowCalculator",

"AssociatedStimulus",

"AssociatedTutorial",

"AssociatedWordlist",

"BrailleType",

"Claim2Category",

"Claim2RevisionCategory",

"ContentSubTaskModel",

"ContentTaskModel",

"CopyrightAndOtherRestrictions",

"DepthOfKnowledge",

"EducationalDifficulty",

"EnemyItem",

"EvidenceStatement",

"Identifier",

"IntendedGrade",

"InteractionType",

"IrtDimension",

"IrtDimension.IrtDimensionPurpose",

"IrtDimension.IrtModelType",

"IrtDimension.IrtParameter.Name",

"IrtDimension.IrtParameter.Value",

"IrtDimension.IrtScore",

"IrtDimension.IrtStatDomain",

"IrtDimension.IrtWeight",

"ItemAuthorIdentifier",

"ItemSpecFormat",

"Language",

"LastModifiedBy",

"MathematicalPractice",

"MaximumGrade",

"MaximumNumberOfPoints",

"MinimumGrade",

"Notes",

"PerformanceTaskComponentItem",

"PresentationFormat",

"PtClassroomActivity",

"PtEnemy",

"PtSequence",

"PtWritingType",

"ScorePoints",

"ScoringEngine",

"SecurityStatus",

"SmarterAppItemDescriptor",

"SpecificationsVersion",

"StandardPublication.PrimaryStandard",

"StandardPublication.Publication",

"StandardPublication.SecondaryStandard",

"Status",

"StimulusCopyright",

"StimulusFormat",

"StimulusGenre",

"StimulusGraphic",

"StimulusLength",

"StimulusName",

"StimulusReadabilityFK",

"StimulusReadabilityLexile",

"StimulusTextComplexity1",

"StimulusTextComplexity2",

"StimulusTextComplexity4",

"StimulusTextComplexity5",

"StimulusTextComplexity6",

"StimulusTextComplexity7",

"StimulusTextComplexity8",

"StimulusType",

"Subject",

"SufficientEvidenceOfClaim",

"TargetAssessmentType",

"Version",

"xmlns"

]

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /itemMetadata?tenantId=53cd604ee4b0127edfb96ccf** | 200 |
| **GET /itemMetadata?tenantId=bad\_tenant (no data is returned)** | 200 |
| **GET /itemMetadata** | 400 |

# /itemMetadataValue (GET)

## Overview

Obtain the set of valid values for the specified Metadata attribute. The metadataKey is optional: if no value is provided, all keys and all values will be returned (in a paginated manner).

## HTTP Request [Public API]

GET /itemMetadataValue?metadataKey={key}&tenantId={tenant\_id}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId={tenant\_id} | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |
| *metadataKey={key}* | String | Name of the metadata attribute | Any valid metadata field. Invalid fields are ignored. To obtain the list of available metadata, use the GET /itemMetadata API call. | Any |

## Request Body

GET /testitembank/itemMetadataValue?metadataKey=Subject&tenantId=52614674e4b0f8db9d8384b6 HTTP/1.1

Host: *your-tib-server*

Accept: application/json

Authorization: Bearer *oath-token-here*

Content-Type: application/json

## Response

If successful, this method returns a JSON object with a unique set of all available item metadata values for the selected metadata attribute, for items belonging to the specified tenant. In the example below, the request seeks to find the possible values Subject can have for a specific tenant. The result returns three values: ELA, Student Help, and Math. As with all Metadata, the keys are case sensitive.

{

"searchResults": [

{

"id": "5643afbee4b0d7f3a477781e",

"tenantId": "52614674e4b0f8db9d8384b6",

"metadataKey": "Subject",

"metadataValue": "ELA"

},

{

"id": "5643afd9e4b0d7f3a47782c3",

"tenantId": "52614674e4b0f8db9d8384b6",

"metadataKey": "Subject",

"metadataValue": "Student Help"

},

{

"id": "5643c6fee4b0d7f3a4785eb4",

"tenantId": "52614674e4b0f8db9d8384b6",

"metadataKey": "Subject",

"metadataValue": "MATH"

}

],

"currentPage": 0,

"returnCount": 3,

"pageSize": 10,

"totalCount": 3,

"sortKey": "\_id",

"sortDirection": "ASC",

"nextPageUrl": null,

"prevPageUrl": null

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /**itemMetadataValue**?tenantId=53cd604ee4b0127edfb96ccf&metadataKey=Subject** | 200 |
| **GET /**itemMetadataValue**?tenantId=53cd604ee4b0127edfb96ccf (no key provided: all keys and all values are returned)** | 200 |
| **GET /** itemMetadataValue**?tenantId=bad\_tenant&metadataKey=Language** | 200 |
| **GET /** itemMetadataValue?**tenantId=53cd604ee4b0127edfb96ccf&metadataKey=foobar (invalid key)** | 200 |
| **GET /** itemMetadataValue?**metadataKey=foobar** | 400 |

# /importSet (GET)

## Overview

Retrieves information about the uploaded file, including the status of the import process. Expects *importSetID* from the corresponding uploaded file (obtained from POST /uploadFile, POST /sftpFileImport, and POST /stagedFile). Valid values of *importStatus* are: *UNIMPORTED,* IMPORT\_COMPLETE, *FAILED, and FILE\_NOT\_FOUND.*

## HTTP Request [Public API]

GET /importSet/{importSetID}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| {importSetID} | String | Identifier of the item set most recently uploaded. This information is obtained from the result of the POST | Set identifier | Any |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Body

GET /importSet/50f84603c8975455239d5b20 HTTP/1.1

Host: your-tib-server

Accept: application/json

Authorization: Bearer oath-token-here

Content-Type: application/x-www-form-urlencoded

In the above case, **50f84603c8975455239d5b20** is the importSet ID from the uploaded file.

## Response

If successful, this method returns a JSON object with information about the item set file that was recently updated, in a selected itemBank and for items belonging to the specified tenant.

{

"tenantId": "52614674e4b0f8db9d8384b6",

"itemBank": "123",

"id": "50f84603c8975455239d5b20",

"importCompleteTime": 1358458972550,

"importFiles": [

{

"file": "1358458971428\_SQA\_2012\_11\_30\_B.zip",

"importCompleteTime": 1358458972544,

"importFileMessages": [

"item.already.exists"

],

"importStatus": "FAILED",

"pathName": null

}

],

"importStatus": "IMPORT\_COMPLETE",

"importType": "MULTIPART\_REQUEST",

"requestTime": 1358458971438,

"url": "/importSet/50f8705c4566b8be21cf570f"

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /**importSet**/50f8705c4566b8be21cf570f** | 200 |
| **GET /**importSet**/non-existent-import-set** | 200 |
| **GET /**importSet**/** | 404 |

# /exportSet (POST)

## Overview

Post the set of items represented in JSON format to the predetermined SFTP site. The export process ships the entire item contents (saved as zip file) to the designated SFTP site. The call returns a setId which can be used by calling the GET version of this API to obtain status information. The SFTP site is usually designated (along with credentials) in the Program Management configuration.

## HTTP Request [Public API]

POST /exportSet

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |

## Request Header

POST /exportSet HTTP/1.1

Host: *your-tib-server*

Accept: application/json

Authorization: Bearer *oath-token-here*

Content-Type: application/json

## Request Body

{

"tenantId": "52614674e4b0f8db9d8384b6",

"items": [

{

"identifier": "stim-123-1298",

"version": "1.1"

},

{

"identifier": "item-123-68735",

"version": "1.2"

}

]

}

## Response

If successful, this method returns a JSON object with information about the item set file, including the current status of the export, the setId, the items, etc. as seen below:

{

"id": "56b2418de4b0f600507a7ef5",

"tenantId": "52614674e4b0f8db9d8384b6",

"status": "WAITING\_TO\_EXPORT",

"items": [

{

"identifier": "stim-123-1298",

"version": "1.1"

},

{

"identifier": "item-123-68735",

"version": "1.2"

}

],

"timeRequested": "2016-02-03T13:06:05.688-05:00",

"exportCompleted": null,

"zipFileName": null,

"url": "/exportSet/56b2418de4b0f600507a7ef5"

}

In the above response, 56b2418de4b0f600507a7ef5 is the *setId* of the export. If the *status* field were set to EXPORT\_COMPLETE, the *zipFileName* field would be populated with a path such as: “tenant\_52614674e4b0f8db9d8384b6/exportSet\_56b2418de4b0f600507a7ef5.zip.

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **POST /**exportSet (with correct body contents) | 201 |
| **POST /**exportSet (with incorrect body contents) | 400 |

# /exportSet (GET)

## Overview

This API checks the status of an exportSet request that was previously initiated by POST /exportSet. It is used in a polling manner, and when this call returns a *status* of FAILED or EXPORT\_COMPLETE the sender may stop polling and proceed accordingly. If *status* is EXPORT\_COMPLETE, then the *zipFileName* element will indicate the path to the newly created export file on the predetermined SFTP box.

## HTTP Request [Public API]

GET /exportSet/{setId}

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| {setId} | GUID | This identifier is provided by the associated POST /exportSet call. | GUID | Any |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Header

GET /exportSet/56b2418de4b0f600507a7ef5 HTTP/1.1

Host: *your-tib-server*

Accept: application/json

Authorization: Bearer *oath-token-here*

Content-Type: application/json

## Response

If successful, this method returns a JSON object with information about the exportSet activity, including the current status of the export, the setId, the items, etc. as seen below:

{

"id": "56b2418de4b0f600507a7ef5",

"tenantId": "52614674e4b0f8db9d8384b6",

"status": "FAILED",

"items": [

{

"identifier": "stim-123-1298",

"version": "1.1"

},

{

"identifier": "item-123-68735",

"version": "1.2"

}

],

"timeRequested": "2016-02-03T13:06:05.688-05:00",

"exportCompleted": "2016-02-03T13:06:05.693-05:00",

"zipFileName": null,

"url": "/exportSet/56b2418de4b0f600507a7ef5"

}

In the above response, 56b2418de4b0f600507a7ef5 is the *setId* of the export.

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **GET /**exportSet/56b2418de4b0f600507a7ef5 (valid setId) | 200 |
| **GET /**exportSet/invalid\_set\_id (no data will be returned) | 200 |
| **GET /**exportSet/ (no set ID provided) | 400 |

# /itemsByIdentifierSearch/{identifier} (POST)

## Overview

Obtain a list of items by their item identifiers, collect them into a ZIP file, and post it on an agreed-upon SFTP server.

## HTTP Request [Public API]

POST /itemsByIdentifierSearch

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |
| itemBank | String | An identifier (usually numeric) representing the item bank from which to pull the requested items, | A valid string identifying the item bank | Any |

## Request Header

POST /itemsByIdentifierSearch/?tenantId=52614674e4b0f8db9d8384b6&itemBank=123 HTTP/1.1

Host: *your-TIB-host*

Accept: application/json

Authorization: Bearer *your-oauth-token-here*

Content-Type: application/json

## Request Body

{

 "tenantId": "53cd604ee4b0127edfb96ccf",

 "itemBank": "123",

 "itemIdentifiers": [

   "stim-123-1994",

   "stim-123-1918"

 ]

}

## Response

If successful, this method returns a JSON object with an item and all of its metadata.

{

[

{

"interactionType": "Stimulus",

"tenantId": "53cd604ee4b0127edfb96ccf",

"itemBank": "123",

"version": "13",

"status": "Operational",

"subject": "ELA",

"intendedGrade": null,

"stimulusName": null,

"associatedStimulus": null,

"associatedTutorial": null,

"associatedWordlist": null,

"itemEnemies": null,

"languages": [

"ENU"

],

"itemScoreDimensionList": null,

"itemStandardPublicationList": null,

"allIncludedMetatdata": {

"StimulusFormat": "Standard",

"Subject": "ELA",

"xmlns": "http://www.smarterapp.org/ns/1/assessment\_item\_metadata",

"LastModifiedBy": "john smith",

"ItemSpecFormat": "SmarterApp",

"SecurityStatus": "Secure",

"Status": "Operational",

"ItemAuthorIdentifier": "john smith",

"Language": [

"ENU"

],

"InteractionType": "Stimulus",

"Identifier": "1994",

"Version": "13",

"SmarterAppItemDescriptor": "8701"

},

"id": "56323f75e4b056179ed4cb7f",

"identifier": "stim-123-1994",

"url": "item/stim-123-1994",

"itemHistoryURI": "item/stim-123-1994/history"

},

{

"interactionType": "Stimulus",

"tenantId": "53cd604ee4b0127edfb96ccf",

"itemBank": "123",

"version": "26",

"status": "Operational",

"subject": "ELA",

"intendedGrade": null,

"stimulusName": null,

"associatedStimulus": null,

"associatedTutorial": null,

"associatedWordlist": null,

"itemEnemies": null,

"languages": [

"ENU",

"ENU-Braille"

],

"itemScoreDimensionList": null,

"itemStandardPublicationList": null,

"allIncludedMetatdata": {

"StimulusFormat": "Standard",

"Subject": "ELA",

"LastModifiedBy": "john smith",

"xmlns": "http://www.smarterapp.org/ns/1/assessment\_item\_metadata",

"ItemSpecFormat": "SmarterApp",

"Status": "Operational",

"SecurityStatus": "Secure",

"StimulusGraphic": "Y",

"ItemAuthorIdentifier": "john smith",

"Language": [

"ENU",

"ENU-Braille"

],

"InteractionType": "Stimulus",

"Version": "26",

"Identifier": "1918",

"BrailleType": "BRF",

"SmarterAppItemDescriptor": "8695"

},

"id": "56323f76e4b056179ed4cb8b",

"identifier": "stim-123-1918",

"url": "item/stim-123-1918",

"itemHistoryURI": "item/stim-123-1918/history"

}

]

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **POST /itemsByIdentifierSearch (with valid data in POST body)** | 200 |
| **POST /**itemsByIdentifierSearch **(with invalid data, e.g. bad or missing tenantId or itemBank number in POST body)** | 404 |

# /sftpFileImport (POST)

## Overview

Import files into TIB. This asynchronous service processes the files listed in the JSON document which is sent with the POST request. While the import processes asynchronously, the controller immediately returns a "Domain Object" consisting of the import file set (same set that was requested in the JSON document), plus metadata about each such as requestor, time, status, and a URI. Initially the status will be "UNIMPORTED" but by polling the returned URI, the Client can obtain the current status of each imported zip file. The files are located in a predetermined SFTP site whose access credentials are usually defined in a Program Management (PM) configuration.

## HTTP Request [Private API]

POST /sftpFileImport

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |
| itemBank | String | An identifier (usually numeric) representing the item bank from which to pull the requested items, | A valid string identifying the item bank | Any |
| importFiles | JSON object | List of path/filenames of zip files. | Valid path names to zip files | Any |

## Request Header

POST /sftpFileImport HTTP/1.1

Host: *your-TIB-host*

Accept: application/json

Authorization: Bearer *your-oauth-token-here*

Content-Type: application/json

## Request Body

{

"tenantId":"537cd61ee4b06186abde6dbd",

"itemBank":"123",

"importFiles":[

{"pathName":"directory/filename1.zip"},

{"pathName":"directory/filename2.zip"},

:

:

{"pathName":"directory/filenameN.zip"}

]

}

## Response

If successful, this method returns a JSON object with status of the import and a setId / link with which to obtain updates.

{

"id": "56afe2cee4b0fba7c51ca976",

"tenantId": "537cd61ee4b06186abde6dbd",

"importType": "SFTP",

"importStatus": "UNIMPORTED",

"itemBank": "111",

"importFiles": [

{

"pathName": "directory/filename1.zip",

"importStatus": "UNIMPORTED",

"importCompleteTime": null,

"messages": {}

},

{

"pathName": "directory/filename2.zip",

"importStatus": "UNIMPORTED",

"importCompleteTime": null,

"messages": {}

},

:

:

{

"pathName": "directory/filenameN.zip",

"importStatus": "UNIMPORTED",

"importCompleteTime": null,

"messages": {}

}

],

"requestTime": "2016-02-01T17:57:18.626-05:00",

"importCompleteTime": null,

"url": "/importSet/56afe2cee4b0fba7c51ca976"

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **POST /sftpFileImport (all fields populated)** | 201 |
| **POST /**sftpFileImport (with body missing itemBank or tenantId) | 400 |

# /uploadFile (POST)

## Overview

Upload a file to TIB. Using an HTTP POST, the Client posts a multipart form which includes a single zip file of test items. The Test Item Bank process the zip file synchronously and returns an ImportSet "Domain Object" consisting of the overall status (SUCCESS or FAILURE), along with information about each item that was imported (such as requestor, time, and a URI), and any error messages that might have occurred. Valid values of *importStatus* are: *UNIMPORTED,* IMPORT\_COMPLETE, *FAILED, and FILE\_NOT\_FOUND.*

## HTTP Request [Private API]

POST /uploadFile

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |
| itemBank | String | An identifier (usually numeric) representing the item bank from which to pull the requested items, | A valid string identifying the item bank | Any |

## Request Header

POST /uploadFile HTTP/1.1

Host: *your-TIB-host*

Accept: application/json

Authorization: Bearer *your-oauth-token-here*

Content-Type: multipart/form-data

## Request Body

{

"itemBank": "123",

"tenantId": "537cd61ee4b06186abde6dbd",

"fileParam": "/path/to/file/itempackage.zip",

}

## Response

If successful, this method returns a JSON object with status of the import and a setId / link with which to obtain further updates, using the GET importSet/{setId} API endpoint.

{

"id": "50f84603c8975455239d5b20",

"tenantId": "537cd61ee4b06186abde6dbd",

"itemBank": "123",

"importType": "MULTIPART\_REQUEST",

"importStatus": "IMPORT\_COMPLETE",

"importFiles": [(1)

{

"file": "/path/to/file/itempackage.zip",

"pathName": null,

"importStatus": "FAILED",

"importFileMessages": [(5)

"item.emptyField.version",

"item.emptyField.keywords",

"item.emptyField.grade",

"item.emptyField.subject",

"item.emptyField.subjectCategory"

],

"importCompleteTime": 1358448133475

}

],

"requestTime": 1358448127928,

"importCompleteTime": 1358448133506,

"url": "/importSet/50f84603c8975455239d5b20"

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **POST /uploadFile (all fields populated)** | 201 |
| **POST /uploadFile** (with body missing itemBank or tenantId) | 400 |

# /stagedFile (POST)

## Overview

Imports a zip file into Test Item Bank from a local computer. This is used for testing purposes only. Valid values of *importStatus* are: *UNIMPORTED,* IMPORT\_COMPLETE, *FAILED, and FILE\_NOT\_FOUND.*

## HTTP Request [Private API]

POST /stagedFile

## Path Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| n/a |  |  |  |  |

## Request Parameters

| Parameter Name | Value | Description | Acceptable Values | Length |
| --- | --- | --- | --- | --- |
| tenantId | String (GUID) | A tenant may be a State entity, for example. Tenant identifiers are generally represented as GUIDs. | Any valid tenant identifier | Any |
| itemBank | String | An identifier (usually numeric) representing the item bank from which to pull the requested items, | A valid string identifying the item bank | Any |

## Request Header

POST /stagedFile HTTP/1.1

Host: *your-TIB-host*

Accept: application/json

Authorization: Bearer *your-oauth-token-here*

Content-Type: application/json

## Request Body

{

"pathName": "/path/to/file/package.zip"

"tenantId": "52614674e4b0f8db9d8384b6",

"itemBank": "123"

}

## Response

If successful, this method returns a JSON object with status of the import and a setId / link with which to obtain updates.

{

"id": "50f8712d4566b8be21cf5713",

"tenantId": "52614674e4b0f8db9d8384b6",

"itemBank": "123",

"importCompleteTime": 1358459181982,

"importFiles": [

{

"file": "/path/to/file/package.zip",

"importCompleteTime": 1358459181979,

"importFileMessages": [

"Successful import"

],

"importStatus": "IMPORT\_COMPLETE",

"pathName": null

}

],

"importStatus": "IMPORT\_COMPLETE",

"importType": "MULTIPART\_REQUEST",

"requestTime": 1358459181918,

"url": "/importSet/50f8712d4566b8be21cf5713"

}

## Examples

| **Example** | **Response Code** |
| --- | --- |
| **POST /stagedFile (all fields populated)** | 201 |
| **POST /stagedFile** (with body missing itemBank or tenantId) | 400 |