SMARTERAPP SPECIFICATION

for

TDS SUPPORT TOOL API

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Revision History

Version	Revision Description	Author/Modifier	Date
1.0	Initial Release	Gregory Charles (Fairway)	August 29, 2018

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Purpose

The purpose of this document is to provide details on the TDS Support Tool API that allows Test Results Transmission (TRT) files to be submitted for re-scoring and the results of the re-scoring to be received. This API is externally available and requires authentication via OAuth 2.0.

This document describes the data model, transport protocols and API endpoints available for managing scoring jobs via this API hosted by the TDS application.
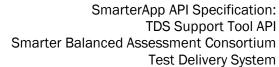
Job Status Data Dictionary

The following fields represent a job status entity within the TDS Support Tool application:

Field Name	Description	Acceptable Values	Reference
id	Unique identifier assigned to the job at submission	Length: 24 characters REQUIRED	
name	File name of submitted TRT stripped of its file extension		
createdAt	Timestamp of when job was submitted	ISO-8601 formatted date string	https://www.iso.org/iso-8601-date-and-time-format.html
type	Type of job	SCORING	
steps	List of steps performed during job	Array of JSON objects	
steps --> description	Description of work performed during the step		
steps --> status	Status of current step	NOT_STARTED, SUCCESS, IN_PROGRESS, FAIL	
steps --> name	Name of step		
steps --> complete	Indication if step is complete or not	Boolean (true, false)	
steps --> createdAt	Timestamp of when step was created	ISO-8601 formatted date string	https://www.iso.org/iso-8601-date-and-time-format.html

Field Name	Description	Acceptable Values	Reference
steps --> jobStepTarget	System that will perform work of the step	Internal (i.e., Support Tool), ERT, TDS, TIS	
userName	Login user name of job submitter		
examId	Exam ID (or opportunity key) of the submitted TRT		
assessmentId	Assessment ID (or test name) of the submitted TRT		
studentName	Last Name, First Name of student of the submitted TRT		
status	Overall status of the job	NOT_STARTED, SUCCESS, IN_PROGRESS, FAIL	

Job Status Sample

Below is an example of a JSON Job Status record:

```json
{
    "id": "5b7cca164ebdf80005ca040e",
    "name": "myfile",
    "createdAt": "2018-08-22T02:27:34.34",
    "type": "SCORING",
    "steps": [
        {
            "description": "Uploading test results transmission file",
            "status": "SUCCESS",
            "name": "test-results-file-upload",
            "complete": true,
            "createdAt": "2018-08-22T02:27:34.34",
            "jobStepTarget": "Internal"
        },
        {
            "description": "Sending the test results to ExamService to re-score",
            "status": "NOT_STARTED",
            "name": "test-results-rescore",
            "complete": false,
            "createdAt": "2018-08-22T02:27:34.34",
            "jobStepTarget": "TDS"
        }
    ],
    "userName": "ca.admin@example.com",
    "examId": "ab4964d9-d7ef-420b-9352-62c4246b72b9",
    "assessmentId": "SBAC-IAB-FIXED-G5E-ListenInterpet-ELA-5-NAP",
    "studentName": "Test, BRENDA5",
    "status": "IN_PROGRESS"
}
```
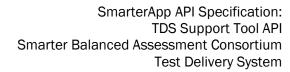
Validation Report Data Dictionary

The following fields represent a job status entity within the TDS Support Tool application:

Field Name	Description	Acceptable Values	Reference
jobId	Unique identifier assigned to the job at submission	Length: 24 characters REQUIRED	
differenceReport	Root level of differernce report between original and rescored TRT		
differenceReport --> test	Shows any difference in test ID or name. These are not changed by the re-scoring process, so would indicate a problem.		
differenceReport --> opportunity	Root level of differences in the opportunity sections of the original and re-scored TRTs		
opportunity --> scores	List of changes to score elements		
score --> status	modified: score element changed during re-scoring added: score element not in original TRT was added to re-scored removed: score element in original TRT was removed		
score --> identifier	Record of the attributes and values used to match a score record between original and re-scored TRT. These attributes are "measureLabel" and "measureOf".		
score --> value	Changes to value attribute of score element. The value from the original TRT will be labeled "from" and the value from the re-scored TRT will labeled "to". For added elements, only the "to" label will be present, and for removed, only the "from" label.		

Field Name	Description	Acceptable Values	Reference
score --> standardError	Changes to the standardError attribute of the score element. The "from" and "to" labels are applied as in score --> value.		
item --> status	modified: score element changed during re-scoring added: score element not in original TRT was added to re-scored removed: score element in original TRT was removed		
item --> identifier	Record of the attributes and values used to match an item record between original and re-scored TRT. These attributes are "position", "bankKey", and "key".		
item --> score	Changes to the score attribute of the item element. The "from" and "to" labels are applied as in score --> value.		
score --> scoreStatus	Changes to the scoreStatus attribute of the item element. The "from" and "to" labels are applied as in score --> value.		

Validation Report Sample

Below is an example of a JSON Validation Report record. Only the jobId is required. If there are no differences to report, then the JSON structure will have the jobId and nothing else.

```
{
  "jobId": "5b5679ce35f6ce5667346c53",
  "differenceReport": {
    "opportunity": {
      "scores": [{
        "status": "added",
        "identifier": {
          "measureLabel": "ScaleScore",
          "measureOf": "OverallXYZ"
        },
        "value": {
          "to": "245.174914080214"
        },
        "standardError": {
          "to": "19.3617008392283"
        }
      }, {
        "status": "modified",
        "identifier": {
          "measureLabel": "PerformanceLevel",
          "measureOf": "Reading"
        },
        "value": {
          "from": "2",
          "to": "25000"
        }
      }],
      "items": [{
        "status": "modified",
        "identifier": {
          "position": 5,
          "bankKey": 200,
          "key": 15560
        },
```

```
        "score": {
          "from": "-1",
          "to": "10"
        },
        "scoreStatus": {
          "from": "NOTSCORED",
          "to": "SCORED"
        }
      }]
    }
  }
}
```

Data Exchange Protocol

Name	Description
Protocol	HTTPS RESTful API
Authentication and Authorization	OAuth 2.0
Base URL	https://*[TDS_BASE_URL]*/supporttool-external

API Endpoint	HTTP Verb	Description	Body Content	Required Permissions	Responses
/api/scoring/import/{fileName}	POST	Test Results Transmission file TRT submitted for rescoring	TRT (application/xml) http://www.smarterapp.org/documents/TestResultsTransmissionFormat.pdf	Support Tool Admin -- or -- Scoring Validator	200: Job created successfully 401: Not authorized Note: Successful response body is a JSON (application/json) Job Status record
/api/scoring	GET	Find all scoring jobs submitted by currently authenticated user	n/a	Support Tool Admin -- or -- Scoring Validator	200: Success 401: Not authorized Note: Successful response body is a JSON (application/json) list of Job Status records

API Endpoint	HTTP Verb	Description	Body Content	Required Permissions	Responses
/api/scoring/{jobId}	GET	Find one scoring job by job ID. (jobId must exactly match the id field from a Job Status record)	n/a	Support Tool Admin -- or -- Scoring Validator	200: Success 401: Not authorized 404: Job not found or does not belong to current user Note: Successful response body is a JSON (application/json) Job Status record
/api/scoring/{jobId}/rescored	GET	Retrieve the rescored TRT for the job with the given job ID.	n/a	Support Tool Admin -- or -- Scoring Validator	202: Batch job accepted 400: Bad request 401: Not authorized 404: Job not found or does not belong to current user or rescoring process has not completed successfully Note: Successful response body is a TRT XML (application/xml) http://www.smarterapp.org/documents/TestResultsTransmissionFormat.pdf
/api/scoring/{jobId}/report	GET	Retrieve the validation (difference) report for the job with the given job ID.	n/a	Support Tool Admin -- or -- Scoring Validator	202: Batch job accepted 400: Bad request 401: Not authorized 404: Job not found or does not belong to current user or rescoring process has not completed successfully Note: Successful response body is a JSON (application/json) Validation Report record