**SMARTERAPP SPECIFICATION**

**for**

**TDS SUPPORT TOOL API**

Authored by

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Revision Description | Author/Modifier | Date |
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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 |
| 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:

{

"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. |  |  |
| 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/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 |