SAP Ariba

Feature at a Glance

Document Approval API overhauled in new version

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Target GA: August, 2021

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Ease of implementation	● High-touch
Geographic relevance	● Global

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Customer challenge

Lack of consistency among the different APIs that SAP Ariba opens to customers, including:

- how APIs are called
- use of query parameter
- filtering
- error formatting
- pagination

makes it difficult for customers to use and adopt our APIs.

Meet that challenge with SAP Ariba

The new version of the Document Approval API implements many best practices that have been developed since the publication of the prior version.

Improvements in the new version include updated pagination and various syntax changes designed to make the query process easier and more completely REST compliant.

Experience key benefits

APIs will now adhere to:

- pagination guidelines
- naming consistency
- endpoint changes
- structure and semantic changes.

These changes will ensure that the Document Approval API is consistent to all SAP APIs and make its usage easier for customers and partners.

Solution area

SAP Ariba APIs
SAP Ariba developer portal
SAP Ariba Buying
SAP Ariba Buying and Invoicing
SAP Ariba Invoice Management

Implementation information

This feature is automatically on for all customers with the applicable solutions and is ready for immediate use.

Prerequisites and Restrictions

In order to create an application and request access to use the SAP Ariba APIs relevant to this feature, you must have access to the SAP Ariba developer portal. For details refer to “Steps to start using the APIs” in the help for *The SAP Ariba Developer Portal*.

To use the Document Approval API, your procurement solution must be configured to track invoices, requisitions, or both. You can also track delegation and reassignment changes. For details see How to configure your procurement solution to use the Document Approval API

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Detailed feature information

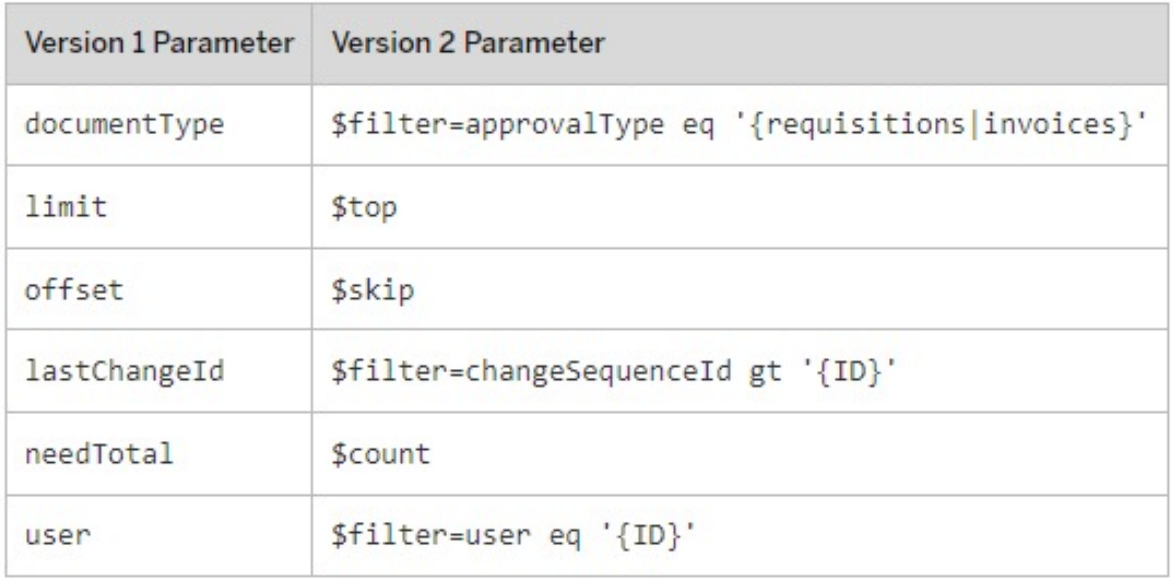
Version 2 of the Document Approval API renames several parameters and changes endpoint- and parameter-related syntax in various ways, requiring customers to modify any APIs using the prior version parameters. See documentation for complete listings.

$count
Controls whether number of elements in a collection is returned with the response. When this parameter is true, the count is returned inline, parallel to the value field that encloses the returned approvable data, as part of the response containing the collection itself.

$filter
Use of this parameter varies from endpoint to endpoint, always to filter the results set. Details for use of $filter are provided with the examples for each endpoint.

$skip
An offset from the beginning of the result set, used for pagination.

$top
The maximum number of records to be returned in the response. This can be used in combination with $skip for pagination purposes. For example, if $top=10 and the results set contains 100 records, the response will contain the first 10 records. To retrieve the next set of records in the results set, submit a new query with $skip=10. For the following page, $skip=20 and so on.



Version 1 Parameter	Version 2 Parameter
`documentType`	`$filter=approvalType eq '{requisitions|invoices}'`
`limit`	`$top`
`offset`	`$skip`
`lastChangeId`	`$filter=changeSequenceId gt '{ID}'`
`needTotal`	`$count`
`user`	`$filter=user eq '{ID}'`

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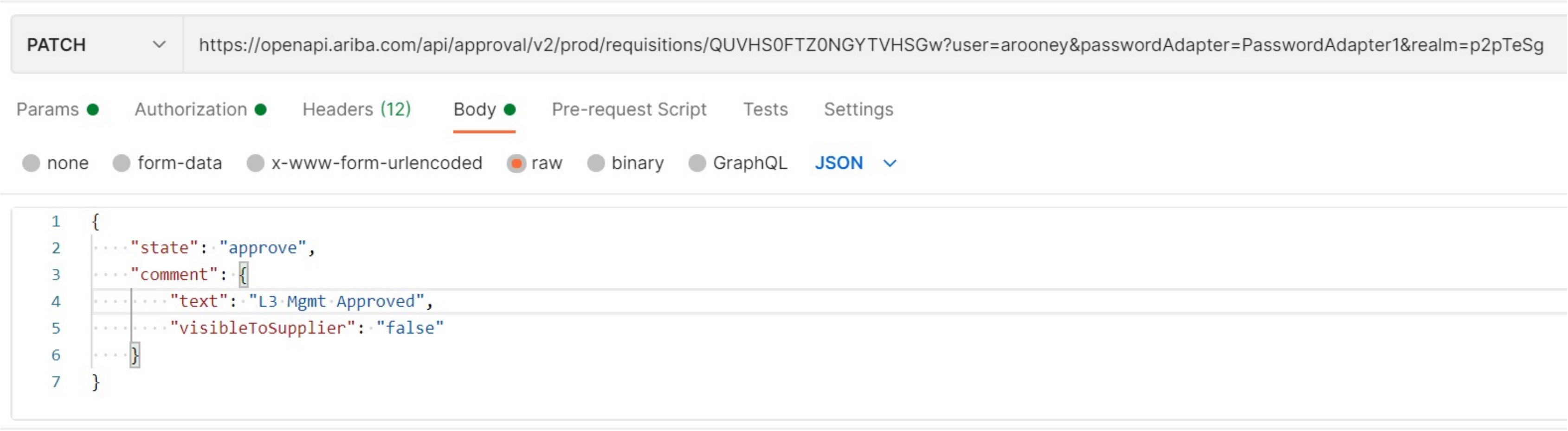
Endpoints

- While parameters and syntax changed largely in this API, there is a specific endpoint change that is important to note.
- For acting on an approvable in V1, we used a POST call to send approval/denial messages with a comment
- In Version 2, this same action is done using a PATCH call, as shown in the screenshot
- For a full list of endpoints, please see documentation.



PATCH https://openapi.ariba.com/api/approval/v2/prod/requisitions/QUVHS0FTZ0NGYTVHSGw?user=arooney&passwordAdapter=PasswordAdapter1&realm=p2pTeSg

```
{
    "state": "approve",
    "comment": {
        "text": "L3 Mgmt Approved",
        "visibleToSupplier": "false"
    }
}
```

PATCH /{approvablType}/{approvableId}	Changes the state of the specified approvable and/or adds a comment.

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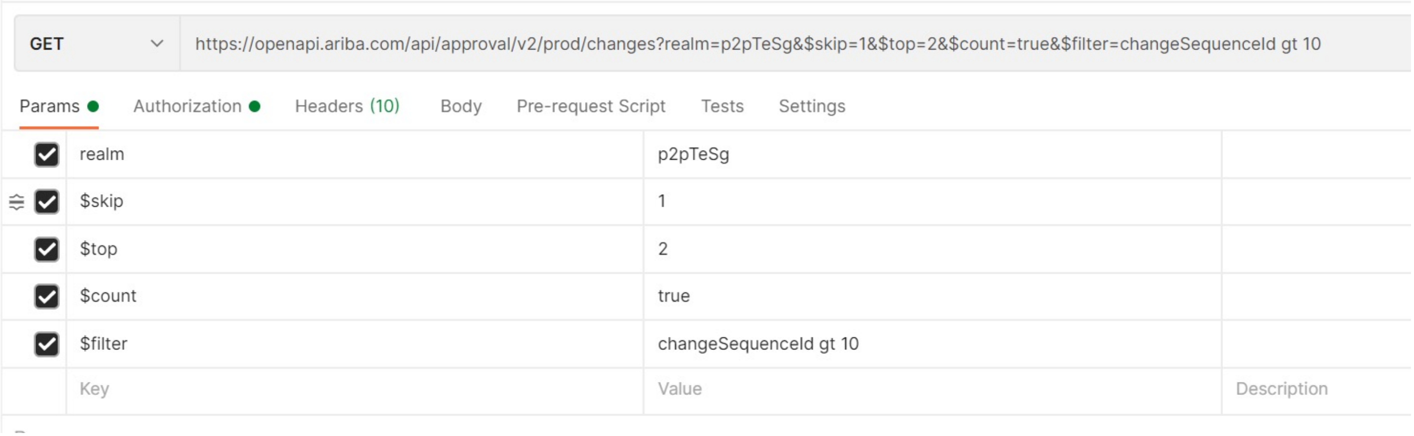
Sample V2 Screenshots using Postman

- In these examples, we're showing the calls that have been updated with version 2 parameters/syntax

- **Note**: *Example screenshots use US data center. Please change runtime URL accordingly*.

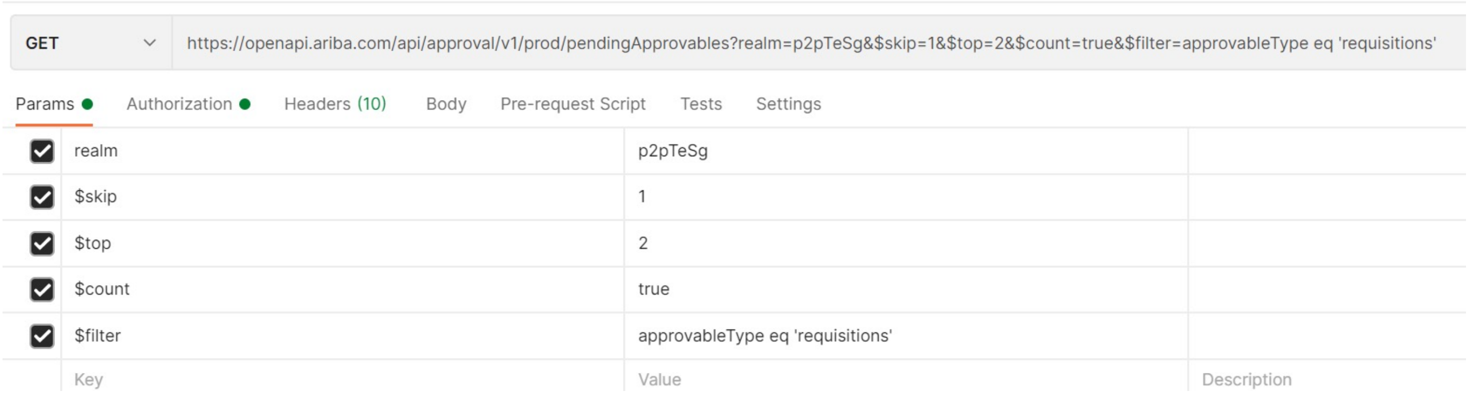
/changes endpoint using updated parameters



https://openapi.ariba.com/api/approval/v2/prod/changes?realm=p2pTeSg&$skip=1&$top=2&$count=true&$filter=changeSequenceId gt 10

	Key	Value	Description
☑	realm	p2pTeSg	
☑	$skip	1	
☑	$top	2	
☑	$count	true	
☑	$filter	changeSequenceId gt 10	

/pendingapprovals endpoint using updated parameters, filtered on requisitions



https://openapi.ariba.com/api/approval/v1/prod/pendingApprovables?realm=p2pTeSg&$skip=1&$top=2&$count=true&$filter=approvableType eq 'requisitions'

	Key	Value	Description
☑	realm	p2pTeSg	
☑	$skip	1	
☑	$top	2	
☑	$count	true	
☑	$filter	approvableType eq 'requisitions'	

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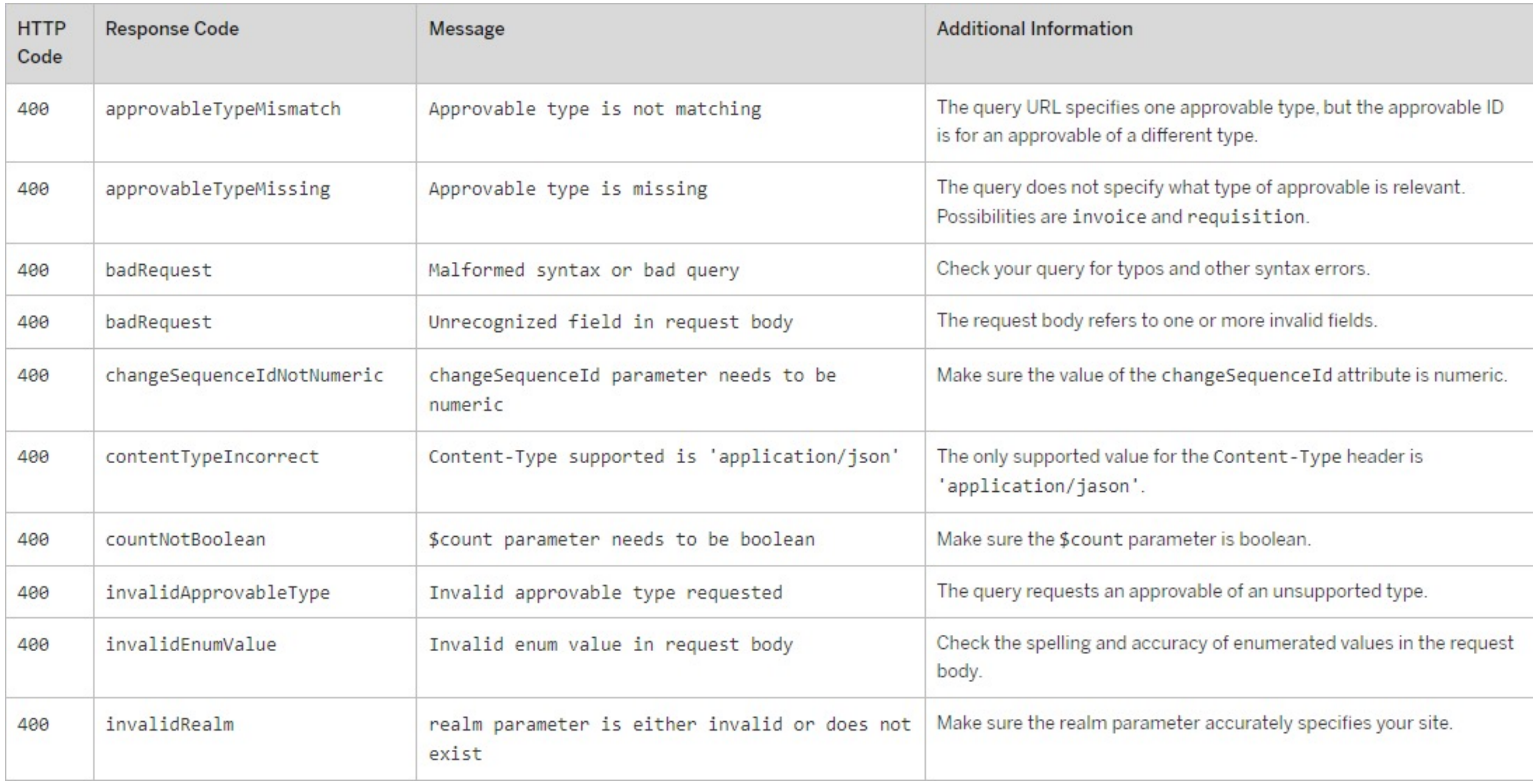
Changes to error messages

- With version 2, there are additional changes to error messages to help customers better understand the errors encountered in their data calls.
- Error messages have been updated to provide more intuitive and meaningful messages for improved user experience.



HTTP Code	Response Code	Message	Additional Information
400	approvableTypeMismatch	Approvable type is not matching	The query URL specifies one approvable type, but the approvable ID is for an approvable of a different type.
400	approvableTypeMissing	Approvable type is missing	The query does not specify what type of approvable is relevant. Possibilities are invoice and requisition.
400	badRequest	Malformed syntax or bad query	Check your query for typos and other syntax errors.
400	badRequest	Unrecognized field in request body	The request body refers to one or more invalid fields.
400	changeSequenceIdNotNumeric	changeSequenceId parameter needs to be numeric	Make sure the value of the changeSequenceId attribute is numeric.
400	contentTypeIncorrect	Content-Type supported is 'application/json'	The only supported value for the Content-Type header is 'application/jason'.
400	countNotBoolean	$count parameter needs to be boolean	Make sure the $count parameter is boolean.
400	invalidApprovableType	Invalid approvable type requested	The query requests an approvable of an unsupported type.
400	invalidEnumValue	Invalid enum value in request body	Check the spelling and accuracy of enumerated values in the request body.
400	invalidRealm	realm parameter is either invalid or does not exist	Make sure the realm parameter accurately specifies your site.