



Feature at a Glance

Support for User Profile in Document Approval API

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Feature at a Glance

Introducing: Support for User Profile in Document Approval API

Customer challenge

Today customers can only approve user profile changes via the UI in the SAP Ariba Buyer application. The Document Approval API did not support user profile change approvals, thus limiting the functionality.

Meet that challenge with SAP Ariba

This feature adds user profiles to the list of approvable document types supported by the Document Approval API.

Experience key benefits

Customers will now be able to adopt the document approval API to allow approvers to review and approve user profile changes. This gives customers more flexibility and simplifies the approval process for user profile changes.

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 but requires **customer configuration**.

Prerequisites and Restrictions

To track user profiles in the Document Approval API, you must configure the `Application.Approvable.AllowedForExternalApproval` parameter in the Intelligent Configuration Manager as follows:

- Add the value `ariba.common.core.UserProfile` to track user profiles
- To track multiple document types, add all desired values.

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.

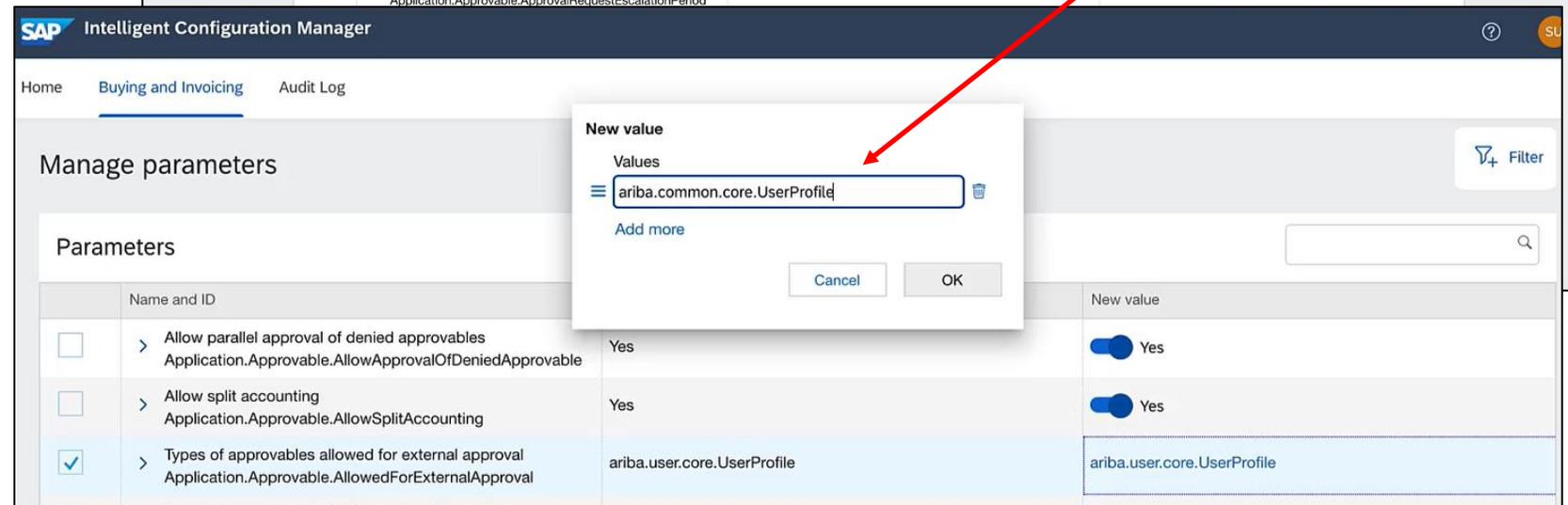
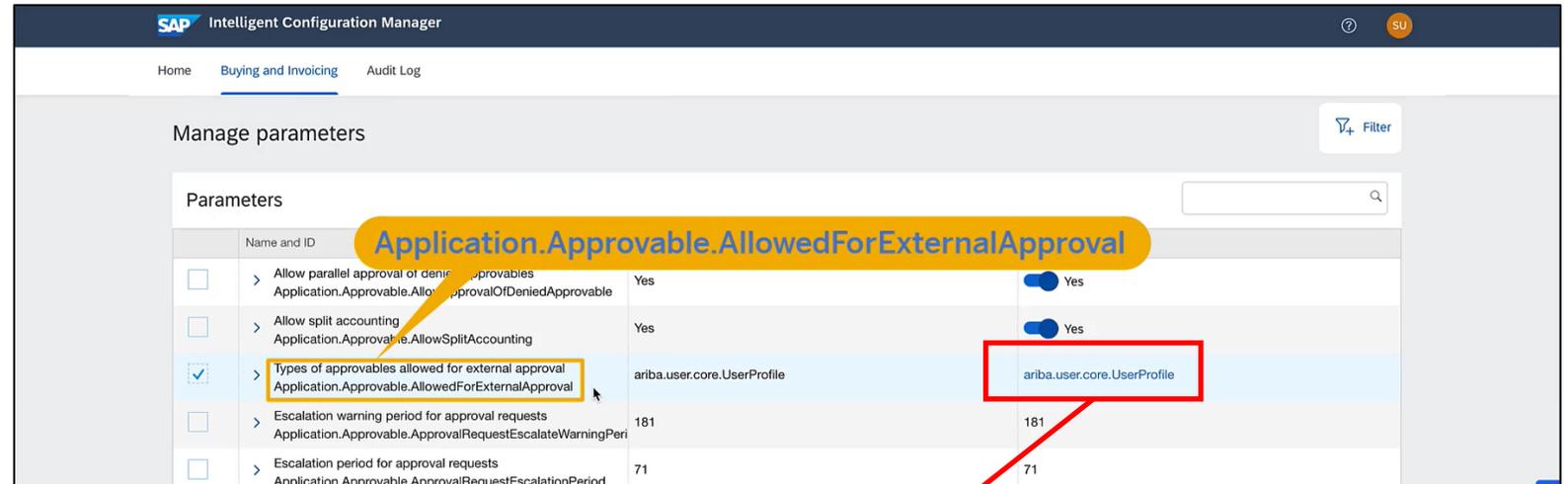
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Update User Profile Parameter

In order to enable user profile

- Log in to view parameters in Intelligent Configuration Manager (ICM),
- **Application.Approvable.AllowedForExternalApproval** parameter, must be set to **ariba.common.core.UserProfile** to allow user profile changes to be approved via API.



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User makes changes in UI

Users may go into the application and change profile information

- Updates may include name, email, supervisor, groups, organizational accounting information, such as business unit, cost center, and shipping and delivery information.
- After making updates, the user is able to see the old (From) and new (To) profile information.

The screenshot shows the SAP Ariba 'Personal Profile' change request interface. The user is 'UP20: Chad Noll demo 3'. The form is in the 'Review Changes' step. A red box highlights the 'From' and 'To' profile information comparison. A red arrow points from the 'Review Changes' step indicator to the 'From' profile information.

From	To
Chad Noll demo 3	Chad Noll demo 4
Demo_UserProfile_Changes_3@ansmp.ariba.com	Demo_UserProfile_Changes_4@ansmp.ariba.com
Customer Administrator, Expense User, Receiving Administrator, Payment Administrator, Catalog Extract, Report Manager, Expense Manager, Field Engineer, Purchasing Administrator, Category Attribute Admin, Budget Manager, Purchasing User, Expense Administrator, Invoice Administrator, Charge Editor, EForm Template Manager, Asset Manager	Customer Administrator, Expense User, Receiving Administrator, Payment Administrator, Catalog Extract, Report Manager, Expense Manager, Field Engineer, Purchasing Administrator, Category Attribute Admin, Budget Manager, Purchasing User, Expense Administrator, Invoice Administrator, Charge Editor, EForm Template Manager, Catalog Approver
Archie Rooney	Anthony Manning
New York Sales	Ariba New York
Shilpa Pattnaik	Shilpa Pattnaik test

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Configuration to allow user profile details through API

User profile details are not displayed via API by default, so the configuration must be updated to have the profile data shown.

- A. Again, the Intelligent Configuration Manager is used to search for the **Approvable.ShowUserProfileDataExternally** parameter
- B. Set to **Yes** and save the changes.

The screenshot shows the SAP Intelligent Configuration Manager interface. The breadcrumb navigation is 'Home > Buying and Invoicing > Audit Log'. The main heading is 'Manage parameters'. A search bar contains the text 'Show'. A table lists various parameters. The parameter 'Application.Approvable.ShowUserProfileDataExternally' is highlighted in blue. A yellow callout bubble labeled 'A' points to the parameter name. A red box labeled 'B' highlights the 'Yes' toggle switch for this parameter.

	Name and ID	Current value	New value
<input type="checkbox"/>	> Show accounting info for tax line items on invoices Application.Invoicing.ShowAccountingForTaxLineItems	Yes	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/>	> Show Review Order Confirmation tasks in To Do for groups Application.Procure.AddOCReviewInToDoListOfUserGroups	No value	Add new value
<input type="checkbox"/>	> Show items extension collection request process Application.Procure.ShowItemsExtensionCollectionRequestProcess	No	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/>	> Application.Contract.MasterAgreement.AllowExternalDocume Application.Contract.MasterAgreement.AllowExternalDocume	No	<input type="checkbox"/> No
<input type="checkbox"/>	> Enable the display of V&E API warnings Application.GuidedBuy.EnableVandEShowAllWarnings	false	false
<input checked="" type="checkbox"/>	> Allow user profile changes in Document Approval API Application.Approvable.ShowUserProfileDataExternally	Yes	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/>	> Show orders for child service lines in linked contracts Application.Contract.ShowOrdersForChildServiceLinesInLink	No	<input type="checkbox"/> No
<input type="checkbox"/>	> Show services-related fields for non-catalog items in APC pur Application.Procure.ShowServiceFieldsForNonCatalogItemIn/	No	<input type="checkbox"/> No

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Run Get Changes API

Running the Get Changes API shows a list of changes, including:

- A. Approver arooney
- B. Approvable ID
- C. ApprovableUniqueName UP20

The screenshot shows a REST client interface with a GET request to the endpoint `'changes?realm=p2pTeSg&$filter=changeSequenceId gt 87'`. The 'Headers' tab is active, showing a table with columns 'KEY' and 'Value'. The 'Body' tab is also active, showing the JSON response in 'Pretty' format. The response is a list of change objects. A specific change object is highlighted with red boxes and yellow callouts:

```
1  {
2    "value": [
3      {
4        "changeSequenceId": "88",
5        "approvableId": "QUFB50FKaktQdng",
6        "approvableUniqueName": "UP20",
7        "restResourceName": "userprofiles",
8        "approvers": "[{\\"type\\":\\"User\\",\\"uniqueName\\":\\"arooney\\"}]",
9        "changeParameters": "{\\"approvalRequestBaseId\\":\\"AAAAAFwKP0m\\"}",
10       "changeType": "ApprovalRequestActivated",
11       "realm": "p2pTeSg"
12     }
13   ]
14 }
```

Callout B points to the `"approvableId": "QUFB50FKaktQdng"` field. Callout C points to the `"approvableUniqueName": "UP20"` field. Callout A points to the `"approvers": "[{\\"type\\":\\"User\\",\\"uniqueName\\":\\"arooney\\"}]"` field.

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Run Get User Profiles API

- Running the Get User Profiles API using approvableID shows a more specific list of changes, including these fields:

- A. name
- B. emailAddress
- C. groups (Asset Manager removed and Catalog Approver added)
- D. Supervisor

- This listing mirrors what was shown in the UI on slide 4.

Document Approval / v2 / Get UserProfiles

GET /userprofiles/QUFBS0FKaktQdng?realm=p2pTeSg

```
1 {
2   "approvableId": "QUFBS0FKaktQdng",
3   "fullURL": "http://c02c993hmd6t:12038/Buyer/Main/ad/webjumper?realm=p2pTeSg",
4   "name": "Chad Noll demo 3",
5   "uniqueName": "cnoll",
6   "diff": {
7     "oldChanges": {
8       "name": "Chad Noll demo 3",
9       "accounting": {
10        "company": "US- Global Designs",
11        "businessUnit": "US002",
12        "costCenter": "Operations",
13        "procurementUnit": "US002",
14        "account": "Other Travel and Entertainment",
15        "emailAddress": "Demo_UserProfile_Changes_3@ansmtp.ariba.com",
16        "deliverTo": "Shilpa Pattnaik",
17        "groups": [
18          "Customer Administrator",
19          "Expense User",
20          "Receiving Administrator",
21          "Payment Administrator",
22          "Catalog Extract",
23          "Report Manager",
24          "Expense Manager",
25          "Field Engineer",
26          "Purchasing Administrator",
27          "CategoryAttributeAdmin",
28          "Budget Manager",
29          "Purchasing User",
30          "Expense Administrator",
31          "Invoice Administrator",
32          "Charge Editor",
33          "EForm Template Manager",
34          "Asset Manager",
35          "supervisor": "Archie Rooney",
36          "limitedResponsibilitygroups": []
37        ]
38      }
39    },
40    "newChanges": {
41      "name": "Chad Noll demo 4",
42      "accounting": {
43        "company": "US- Global Designs",
44        "businessUnit": "US002",
45        "costCenter": "Operations",
46        "procurementUnit": "US002",
47        "account": "Other Travel and Entertainment",
48        "emailAddress": "Demo_UserProfile_Changes_4@ansmtp.ariba.com",
49        "deliverTo": "Shilpa Pattnaik test",
50        "groups": [
51          "Customer Administrator",
52          "Expense User",
53          "Receiving Administrator",
54          "Payment Administrator",
55          "Catalog Extract",
56          "Report Manager",
57          "Expense Manager",
58          "Field Engineer",
59          "Purchasing Administrator",
60          "CategoryAttributeAdmin",
61          "Budget Manager",
62          "Purchasing User",
63          "Expense Administrator",
64          "Invoice Administrator",
65          "Charge Editor",
66          "EForm Template Manager",
67          "Catalog Approver",
68          "supervisor": "Anthony Manning",
69          "limitedResponsibilitygroups": []
70        ]
71      }
72    }
73  }
74 }
```

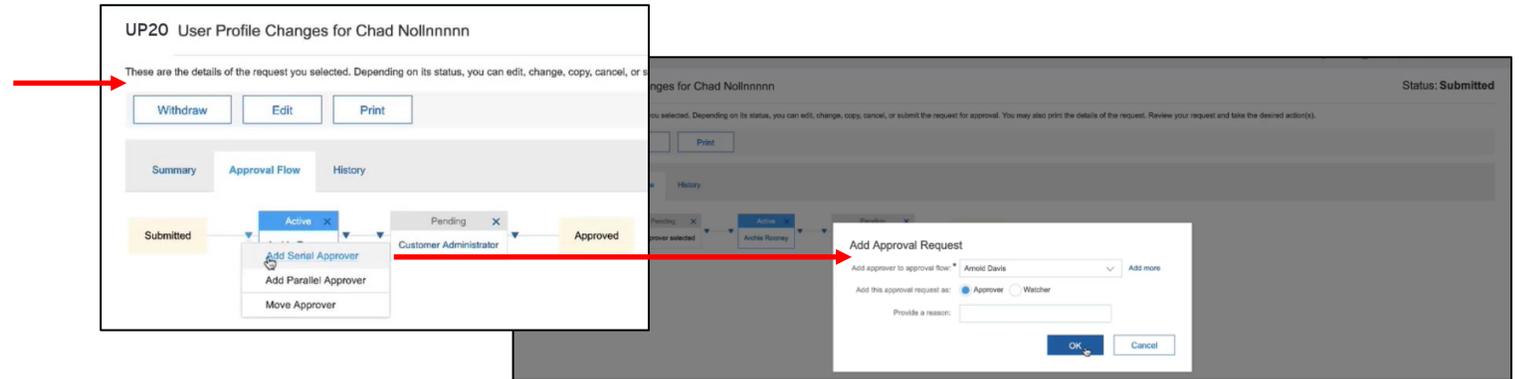
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Adding Approvers

Approvers may be added via the application and confirmed via API.

- This shows the application UI for adding an approver, Arnold Davis
- Using the GetChanges API after adding the approver in the UI, the results show:
 - A. An approver has been added
 - B. An approver request has been activated
 - C. New approver is listed as adavis



```
13     "approvableBaseID": "AAAKAjEsIJ",
14     "changeParameters": "",
15     "changeSequenceId": "2",
16     "changeType": "ApproverAdded",
17     "approvableUniqueName": "UP11",
18     "restResourceName": "userprofiles",
19     "approvers": [{"type": "User", "uniqueName": "aroney"}],
20     "realm": "p2pTeSg"
21   },
22   {
23     "approvableBaseID": "AAAKAjEsIJ",
24     "changeParameters": "{\"approvalRequestBaseId\":\"AAAAAFWEsNS\"}",
25     "changeSequenceId": "3",
26     "changeType": "ApprovalRequestActivated",
27     "approvableUniqueName": "UP11",
28     "restResourceName": "userprofiles",
29     "approvers": [{"type": "User", "uniqueName": "adavis"}],
30     "realm": "p2pTeSg"
31   }
```

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Approving user profile changes via UI

Approvals may be submitted via the application UI or API

- Approval through the UI can be done by simply clicking **Approve**, adding any comments, and hitting **OK**.

The screenshot displays the 'Approval Summary - User Profile Changes for Chad Noll demo 3' interface. At the top, there are three buttons: 'Approve' (highlighted with a red box), 'Deny', and 'Print'. Below this, the request details are shown, including the request ID 'UP20 - On Behalf Of: Chad Noll demo 3'. The 'From' and 'To' fields are populated with user information and roles. The 'Approval Flow' section shows a process starting from 'Submitted' to 'Active' (Archie Rooney), then to 'Pending' (Anthony Manning and Customer Administrator), and finally to 'Approved'. A 'Comments' dialog box is open, showing a text area with the comment 'Approving - grooney (From UI)' and checkboxes for 'Archive items to label' and 'Go to next request summary'. The 'OK' button in the dialog is also highlighted with a red box.

Approval Summary - User Profile Changes for Chad Noll demo 3

Review the request and then approve, deny, or edit it. To view request details, click the request ID. To review other pending requests, select a specific request from the pull-down list, or click an arrow to display the previous or next request.

Approve Deny Print

UP20 - On Behalf Of: Chad Noll demo 3

Change	From	To
Name	Chad Noll demo 3	Chad Noll demo 4
Email Address	Demo_UserProfile_Changes_3@ansmp.ariba.com	Demo_UserProfile_Changes_4@ansmp.ariba.com
Groups	Customer Administrator, Expense User, Receiving Administrator, Payment Administrator, Catalog Extract, Report Manager, Expense Manager, Field Engineer, Purchasing Administrator, Category Attribute Admin, Budget Manager, Purchasing User, Expense Administrator, Invoice Administrator, Charge Editor, EForm Template Manager, Asset Manager	Customer Administrator, Expense User, Receiving Administrator, Payment Administrator, Catalog Extract, Report Manager, Expense Manager, Field Engineer, Purchasing Administrator, Category Attribute Admin, Budget Manager, Purchasing User, Expense Administrator, Invoice Administrator, Charge Editor, EForm Template Manager, Catalog Approver
Supervisor	Archie Rooney	Anthony Manning
Ship To	New York Sales	Ariba New York
Deliver To	Shilpa Pattnaik	Shilpa Pattnaik test

Approval Flow

Submitted → Active (Archie Rooney) → Pending (Anthony Manning) → Pending (Customer Administrator) → Approved

Approve - Comments

Other approvers and users will see your comments.

You chose to approve UP20.

Comments: Approving - grooney (From UI)

Archive items to label: Archive Items

Go to next request summary

OK Cancel

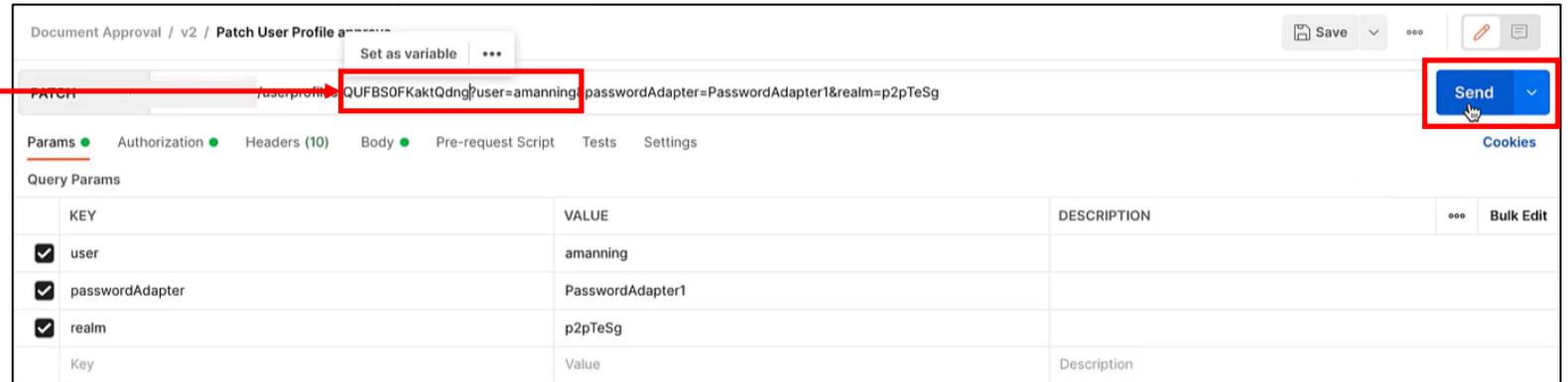
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Introducing: Support for User Profile in Document Approval API

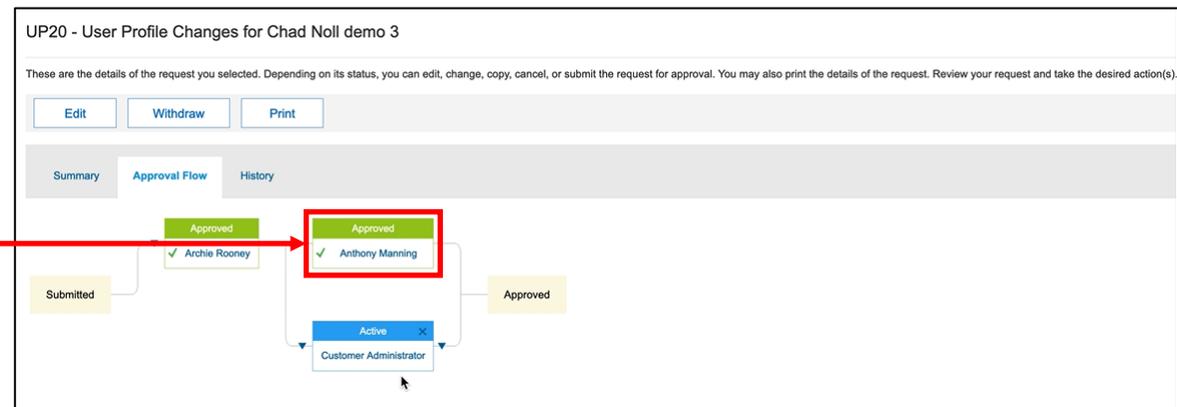
Approving user profile changes via API

Approvals may be submitted via the application UI or API

- Adding a new approval for the next approver via Patch User Profile approve API, we update the string using the approvable ID from the Get Changes API, as shown on slide 6, and “amanning” as the user as shown and **send**.



- Checking back in the approval flow in the application UI, Anthony Manning now shows as having approved the profile change.



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Pending Approvables API

To see what items are awaiting approval, the Pending Approvables API may be used.

- We make some new changes to a user profile name and email address as shown here and submit.

The screenshot shows a 'Personal Profile' change request interface. The title bar indicates 'UP21: Chad Noll demo 4'. On the left, a navigation pane lists five steps: 1. Personal Info, 2. Account/Ship, 3. Justify Changes, 4. Approval Flow, and 5. Review Changes (which is currently selected). The main content area is titled 'Review your request and then submit it for approval.' It displays a comparison table of changes:

Change	From	To
Name	Chad Noll demo 4	Chad Noll demo 5
Email Address	Demo_UserProfile_Changes_4@ansmtp.ariba.com	Demo_UserProfile_Changes_5@ansmtp.ariba.com

Below the table, there is a note: '(*) indicates a required field' and a privacy statement: 'You expressly agree and understand that your data entered into this system may be transferred outside of the European Union or other jurisdiction where you are located, as further described in the Ariba Privacy Statement. SAP Ariba Privacy Statement'. At the bottom right, there are 'Prev', 'Submit', and 'Exit' buttons. A red box highlights the 'To' column of the table.

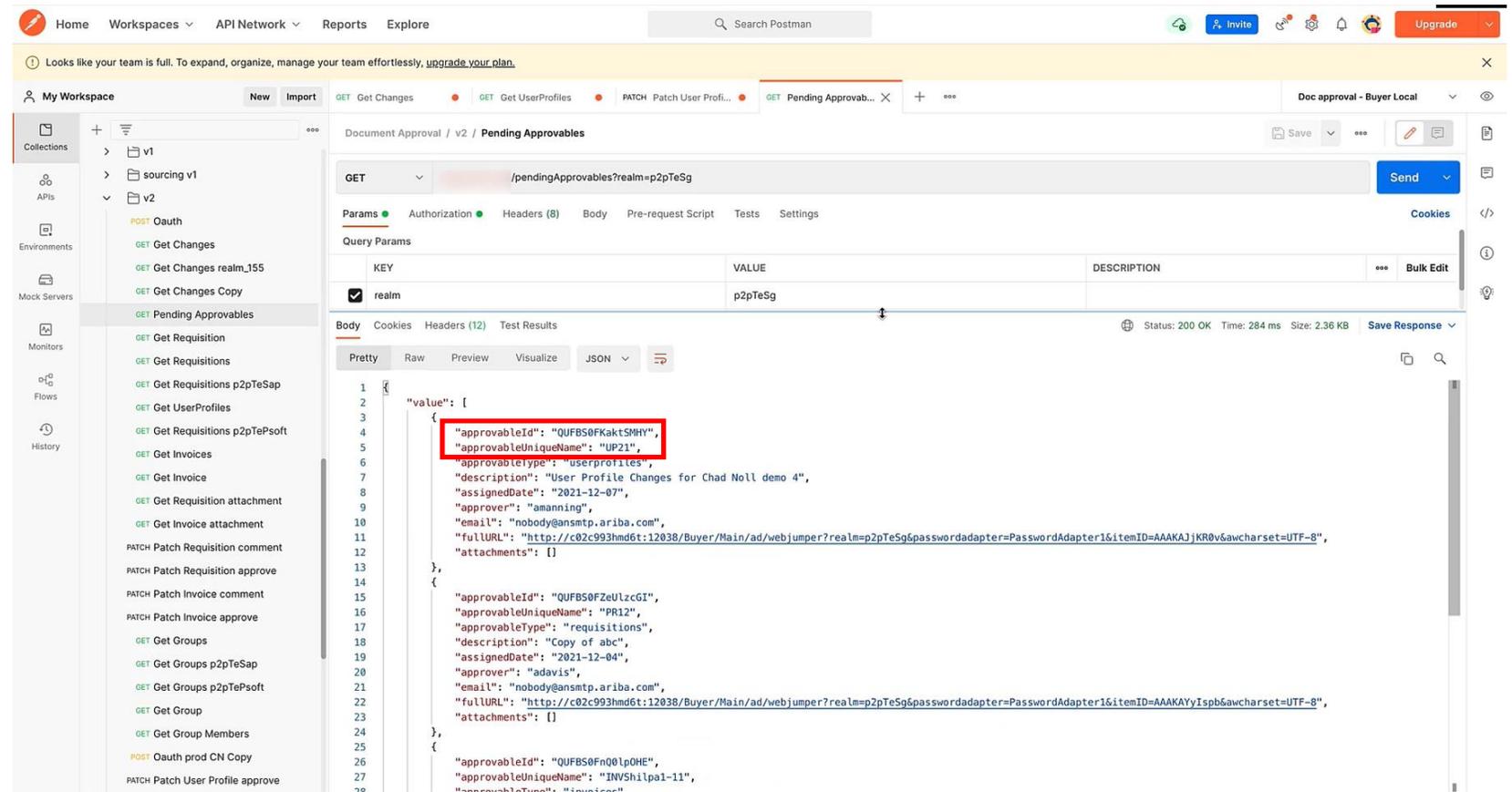
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Introducing: Support for User Profile in Document Approval API

Pending Approvables API

To see what items are awaiting approval, the Pending Approvables API may be used.

- We make some new changes to a user profile name and email address as shown here and submit.
- Now running the Pending Approvables API, we see a new approvable ID, with approvable unique name UP21.



The screenshot shows the Postman interface for the 'Pending Approvables' API endpoint. The URL is `/pendingApprovables?realm=p2pTeSg`. The response is a JSON array of objects. The first object is highlighted with a red box, showing the following fields:

```
{
  "approvableId": "QUFB50FKaktSMHY",
  "approvableUniqueName": "UP21",
  "approvableType": "userProfiles",
  "description": "User Profile Changes for Chad Noll demo 4",
  "assignedDate": "2021-12-07",
  "approver": "amanning",
  "email": "nobody@ansmtp.ariba.com",
  "fullURL": "http://c02c993hmd6t:12038/Buyer/Main/ad/web_jumper?realm=p2pTeSg&passwordadapter=PasswordAdapter1&itemId=AAAKAJjKR0v6awcharset=UTF-8",
  "attachments": []
}
```

Feature at a Glance

Introducing: **Support for User Profile in Document Approval API**

For additional insight on the Document Approval API, refer to the *Document Approval API overhauled in new version* Feature at a Glance linked below.



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Feature at a Glance

Document Approval API overhauled in new version

Andy Rubinson, SAP Ariba
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