Poplar Forms Documentation

Release 4.0.7

Poplar Development

Jan 28, 2022

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The Remote Actions package, and accompanying REMOTEACTION module, are used to integrate Orchid Extender's Workflow for Sage 300 with fleetingforms.io to securely collect well formatted, validated, data from users or customers from beyond the corporate perimeter.

Quickstart

Want to get up and running with a basic approval form quickly? This guide will walkthough the steps required to add a remote approval to your workflow.

Adding a remote approval to an existing workflow is easy. This is what needs to be done:

- 1. Select or create a Message Template to use for the notification to the user that a remote approval is available.
- 2. Select or create a Message Template to use for the form title and content.
- 3. Identify the Sage users or Extender User Groups that need to receive a notification.
- 4. Identify the actions the user can take and how the buttons for those actions should be labelled.
- 5. Add the REMOTEACTION. SendApprovalFormEmail action to your template, providing the email notification Message Template, Users, from content Message Template, and actions as parameters.

That's all! The next time the workflow is triggered, a remote approval form will be created and the users notified.

1.1 Selecting a Notification Template

pass

1.2 Selecting a From Content Template

pass

1.3 Identifying the Sage Users or Groups

pass

1.4 Identifying the Form Actions

pass

1.5 Adding the SendApprovalFormEmail Action

pass

Adobe Sign Quickstart

This guide provides a detailed walkthrough of connecting Remote Action to Adobe Sign.

Note: Adobe Sign is supported in Remote Action version 5.1 and newer.

The overall process that needs to be completed to connect Adobe Sign to the Remote Action service is:

- 1. Create an account.
- 2. Create a new API application.
- 3. Perform the initial configuration in Sage.
- 4. Complete the OAuth workflow.

2.1 Creating an Account

Remote Actions will connect to the User's Adobe sign account. The user must create an account before a connection can be established.

For demonstration and testing, a free developer account can be used. All agreements created using a demo account have a watermark applied and cannot be used in production.

To create a new developer account, visit the Adobe Sign Developer Account Sign-Up.

2.2 Creating the API Application

An API Application allows a service, like Remote Actions, to obtain a token used to act on a user's behalf. The application must be created and authorized by the user to obtain tokens. The authorization can be revoked at any time.

To create an API application, sign in to Adobe Sign and take the following steps:

- 1. Once you've signed in, you will be redirected to your dashboard. The URL will be in the form https://secure.<shard>.adobesign.com/.... The shard will be a short code like na1, eu2, or ap3. Take note of:
 - Shard:

🕡 🔒 😋 https://secure.na4.adobesign.com/account/

Fig. 1: The shard for this account is na4.

- 2. In the navigation column on the left of the screen, expand Adobe Sign API and open API Applications.
- 3. In the API Applications page, click the + icon to create a new application.

API Applica	i			
Q Search				⊕ ≡
Name	Application ID	Created -	Status	Create

Fig. 2: Click the + icon to create a new application.

- 4. Create a new CUSTOMER API application.
 - Name: remote-action-service-<COMPANY>
 - Description: Remote Action Intergate with Sage 300 <COMPANY>
 - Domain: CUSTOMER
- 5. Once the application has been created, highlight it and select *Configure OAuth*.
- 6. Configure OAuth for the application. Take note of:
 - Client ID:
 - Client Secret:

Set the following values:

- Redirect URI: https://poplars.dev/adobe-sign-activate.html
- Enable the following OAuth Scopes with the modifier self:
 - user_read
 - agreement_read
 - agreement_write
 - agreement_send
- 5. In Sage, start Extender -> Remote Action -> Setup -> Adobe Sign Connect.

Х

Create

Provide a name for your application to issue a set of credentials for use with Adobe Sign's API

Name:

remote-action-service-saminc

Display Name:

Remote Action - Integrate with Sage 300 - SAMINC

Domain:

• CUSTOMER (This application will only have access to data within your account)

O PARTNER (This application will have access to any authorized Adobe Sign account)

Cancel	Save	

Fig. 3: Define a new CUSTOMER API application.

API Applications \circ

 Q Search

 View / Edit | Deactivate | Configure OAuth for Application

 remote-actions-service-saminc
 CBJCHBCAABAA2DFml5CQFiJh9P0Zu7d0vbEVu1sC9Xdp 03/20/2021 05:56

Fig. 4: Highlight the new application to reveal *Configure OAuth* link.

nfigure O/	Auth			
Client ID:	CBJCHBCA	iJh9P0Zu7d0vbEVu1sC9Xdp		
Client Secre	et: _nfpiqyZA	v_Ocw4NGz9	9iqsN∙	PIfiUCGU
	Note: You	must keep yo	ur Clie	ent Secret confidential.
Redirect UF	RI: https://po	oplars.dev/ac	dobe-	sign-activate.html
		redirectUri sp ris as comma	-	d in your OAuth requests must belong to this list of uris. You can mentior rated list.
Enabled So	copes			
		,		quest through the OAuth protocol. Please limit the scopes that you plication, which is one of the requirements for Certification.
Please conta	act support if you n	eed to chang	ge whi	ich scopes are enabled for your application.
				n requests that use the ":group" scope modifier, and only Account ":account" scope modifier.
Enabled?	Scope	Modifier		Description
	user_read	self	•	View users in your account
	user_write	account	Ŧ	Create or manage users within your account
	user_login	account	Ŧ	Login access – providing full access to any user in your account overriding other requests
~	agreement_rea d	self	•	Access documents & data on behalf of $\textbf{any user in your account}$
>	agreement_writ e	self	•	Manage the status of documents on behalf of any user in your account
~	agreement_sen	self	•	Send documents on behalf of any user in your account
	d			

Fig. 5: Record the Client ID and Client Secret, set the scopes for self.

S Sage 300 - Poplar Developmen Home	t			
Open Close Page Print Company Company Setup Destination File	Gobject ▼ Object ▼ Properties © Dbjects	Up One View Level View Desktop View		Help Help Help Help
 Common Services Bank Services 	^	Remote Action (A	Adobe Sign Con	nect)
Currency Scheduling > Tax Services		Dealer: www.orchid	ness Systems, Orchid Busines: .systems chid.systems	s Systems
✓ Extender				
Inquiries		Name	Туре	Details
Remote Action Reports		Poller	Program	VI7011
Setup Workflow		Remote Action Option	ns Program	VI7012
 General Ledger Information Manager 		Token Management	Program	VI7013
 Inventory Control I/C Items and Price Lists 		Adobe Sign Connect	Program	VI7014

Fig. 6: Open the Adobe Sign Connect utility to start connecting Remote Action to your Adobe Sign account.

- 6. Fill in the Shard, Client ID, and Client Secret that you noted in the previous steps. Once filled in, the *Authorize* button will be enabled.
- 7. Click the *Authorize* button. A web browser will open, prompt you to sign in and authorize the application to connect to Adobe Sign on your behalf.
- 8. After authorizing the application, you will be redirected to the Poplar Development Adobe Sign Connection Confirmation page. This page will display the values required to complete the connection. Take note of:
 - Access Point:
 - Connection Code:
- 9. Input the Access Point and Connection Code into the Adobe Sign Connect screen in Sage. Complete the connection by clicking on the *Connect* button.

Note: If the access point URL ends with a / it will automatically be removed.

10. Once connected, the configuration is complete.

🔅 POPLAR -	Remote Actions - Conn 🗕 🗖 🗙
File Help	<u> </u>
Connection status	ready to authorize
Shard	na4
Client ID	CBJCHBCAABAA2DFm15CQFiJh9P0Zu7d0vbEVu1
Client Secret	_nfpiqyZAv_Ocw4NGz9iqsN-PlfiUCGU
	Authorize
Access Point	
Connection Code	
	Connect Close

Fig. 7: Input the Shard, Client ID, and Client Secret recorded in the previous steps.

Adobe Sign Activation

Thank you for activating Remote Actions with Adobe Sign.

Your API Access Point is https://api.na4.adobesign.com/ and the activation code is CBNCKBAAHBCAABAAA12ka7bMaOe8hbRm4fKDTD03z9e5ukRx

Copy these values into the Remote Actions Adobe Sign Configuration to complete the connection.

If you have any trouble, please contact us.

Fig. 8: The Poplar Development Adobe Sign Connection Confirmation page displays the Connection Code and API Access point required to complete the connection.

🔅 POPLAR -	Remote Actions - Conn 🗆 🗙	
File Help	2	2
Connection status	: ready to connect	
Shard	na4	
Client ID	CAABAA2DFm15CQFiJh9P0Zu7d0vbEVu1sC9Xdp	
Client Secret	_nfpiqyZAv_Ocw4NGz9iqsN-PlfiUCGU	
	Authorize	
Access Point	https://api.na4.adobesign.com/	
Connection Code	AABAAA12ka7bMaOe8hbRm4fKDTD03z9e5ukRx	
	Connect Close	

Fig. 9: When you click *Connect*, the process will be completed and a persistent connection established.

🔅 POPLAR - Remote Actions - Conn 😑 🗖						
File Help						
Connection status:	: connected					
Shard	na4					
Client ID	CBJCHBCAABAA2DFmI5CQFiJh9P0Zu7d0vbEVu*					
Client Secret	_nfpiqyZAv_Ocw4NGz9iqsN-PlfiUCGU					
	Authorize					
Access Point	https://api.na4.adobesign.com/					
Connection Code	CBNCKBAAHBCAABAAA12ka7bMaOe8hbRm4fKI					
	Connect Close					

Fig. 10: When you click Connect, the process will be completed and a persistent connection established.

chapter $\mathbf{3}$

Leisurely Start

This guide provides a detailed walkthrough of creating a new workflow that leverages remote approvals. To provide some context, it is built around a specific use case: approving Sale prices for items.

Poller

The poller retrieves completed remote approval forms and applies them to their respective workflows.

The poller can be run manually or using Process Scheduler. Manual execution is helpful while testing and setting up the service but Process Scheduler should be used in production environments.

4.1 Running the Poller with Process Scheduler

The poller is designed to be run in the background as a Task managed by the Windows Task Scheduler. This can be accomplished using Process Scheduler.

4.1.1 Setting Up Process Scheduler

Start by creating an email message template that will be sent to an administrator in the event of an error in the poller.

Open the *Process Scheduler -> Setup -> E-Mail Messages* screen. Create a new Process Scheduler Email Template, setting all the required fields and including the details of the errors in the message body.

🍒 ORCLTD - Proc	🍐 ORCLTD - Process Scheduler E-mail Messages 🛛 🗖 🗙						
File Help							
Message ID] ►	▶ ♀ +				
Description	Error report from the remote approvals polle	r.					
Date Last Maintained	/ / Active						
E-mail Subject	Errors in Remote Approvals Poller						
remote approvals poller: \$DETAILS	re encountered during the execution of the	>	SCHEDID - Schedule ID Description SDETAILS - The integrity check log text AUDIT - The service pack audit log COMPANY_ORGID - Database ID COMPANY_CONAME - Name COMPANY_ADDR01 - Address COMPANY_ADDR02 - Address Line 2 COMPANY_ADDR03 - Address Line 3 COMPANY_ADDR03 - Address Line 3 COMPANY_ADDR04 - Address Line 4 COMPANY_CITY - City COMPANY_STATE - State/Province COMPANY_POSTAL - Zip/Postal Code COMPANY_LOCTYPE - Location Type COMPANY_LOCCODE - Location Code	~			
Add Dele	ete	~	SCOMPANY_PHONE - Telephone SCOMPANY_FAX - Fax Number SCOMPANY_CONTACT - Contact SCOMPANY_CNTRYCODE - Country Code SCOMPANY_BRANCH - Branch SCOMPANY_HOMECUR - Functional Currency SCOMPANY_REPORTCUR - Reporting Currency	v			

With a template created, it is time for a new Schedule. Open the *Process Scheduler -> Setup -> Schedules* screen. Create a new schedule, setting the Schedul ID, description, and email sending parameters.

🖋 ORCLTD - Process Scheduler Schedules 🛛 🗖 🗖					
File Help					
Schedule ID					
Description	Poll for completed remote approvals.				
Active					
Send e-mail	Only if errors				
E-mail To	admin@company.com				
E-mail CC					
Message ID	PPFORMSPOLL Q Open				
Company	Q 📑				
Lin Step Number	Q Company Action Send e-mail on error Ne	ext step on em	ror Ne	× ^	
<			>	×	
Add Del	ete Run Audit Log Detail	L	Close		

In the Schedules screen, create a new line, Step Number 1, the company for which the poller should run, and set the action to *Run Extender Script*.

👂 ORCLTD - Proc		3 ×						
File Help								
Schedule ID	I I PPFO	RMSPOLL	▶ ► २	+				
Description	Poll for complete	ed remote approvals.						
Active								
Send e-mail	Only if errors	~						
E-mail To	admin@compar	ny.com						
E-mail CC								
Message ID	PPFORMSPOL	PPFORMSPOLL Q Open						
Company		् 🖪						
Lin Step Number	Q, Company	Action	Send e-mail on error	Next step on error	Next ste	ep on suc 🔨		
1 1	ORCEWF	Run Extender Script	Yes	0	0			
						~		
<						>		
Add Del	Add Delete Run Audit Log Detail Close							

Open the line details by selecting *Detail*... for the current line. Select the *REMOTEACTION.poller* script and save without any parmeters.

解 Details	;	×
Line	See 'Example Extender Script.py' for an example script.	
Step Number	1	
Action	Run Extender Script V	
Send e-mail on error	Yes 🗸	
Company	ORCEWF	
Script	PPFORMS.poller C	ξ
Parameters		
Next step on error	0 Send email	
Next step on success	0 Send email Q	
Date last run		
Time last run	00:00:00	
Last status		
Number of errors		
Last log	Open	
- Save Dele		

4.1.2 Setting Up the Windows Scheduled Task

With the schedule configured in Process Scheduler, a scheduled task must be created that can be run automatically in the background. To create a new Scheduled Task, start by opening *Start -> Windows Administrative Tools -> Task Scheduler*.

≡	Best m	atch				
ŵ	\bigoplus	Task So Desktop		er		
	Setting	js				>
	🛱 S	che dule	task s			
ŝ	▣	ŝ	ß		□¤	13
	Task S	che				

Right click on the *Task Scheduler Library* and select *Create Task*.

Start by defining the task name, User to run the task, and allow the task to run in the background when the user is not log in.

Poll Remote Actions - Sage 300 Properties (Local Computer)						Х	
General Trigg	Jers Actions	Conditions	Settings	History			
Name: Poll Remote Actions - Sage 300							
Location:							
Author: ORCHIDV2020\Administrator							
Description:	Description:						
- Security opti	ons						
When running the task, use the following user account:							
ORCHIDV20	ORCHIDV2020\Administrator Change User or Group						
O Run only when user is logged on							
Run whether user is logged on or not							
Do not store password. The task will only have access to local computer resources.							
Run with highest privileges							
🗌 Hidden	Configur	e for: Wind	dows Vista	™, Windows Server™ 2008			~
						OK Cancel	

Move on to configure the *Triggers*. Create a trigger that will fire when the machine is started and every 5 minutes thereafter indefinitely.

Edit Trigger								×
Begin the task: Settings	At startu	р				~		
No additional	settings	required.						
Advanced settings								
Delay task for:		15 minut	es 🗸					
Repeat task every:		5 minute	s v		for a durati	on of:	Indefinitely ~	
Stop all running tasks at end of repetition duration								
□ Stop task if it runs longer than: 3 days <								
Activate:	5/31/202	20 🔲 🔻	3:34:10 PM	*	Synchi	ronize	across time zones	
Expire:	5/31/202	21 🔲 🔻	3:34:10 PM	×	Synchi	ronize	across time zones	
✓ Enabled								
							OK Cano	:el

Configure the *Action* that will be performed. Create a new action that *Start a program*. The program to start is OzIntegrityCheck.exe, located in the Sage300\oz6?a\ folder. The Schedule ID (REMOTEACTIONPOLL in the example) must be provided as an argument.

Edit Action X					
You mus	t specify what action this task will perforr	n.			
Action:	Start a program		~		
Settings	;				
Progra	m/script:				
C:\Sag	e\Sage300\oz67a\OZIntegrityCheck.exe		Browse		
Add ar	guments (optional):	PPFORM:	SPOLL		
Start in	n (optional):				
		OK	Cancel		

Finally, configure a sensible set of options for the task. The task should rarely take longer than a minute to run. In addition to allowing it being run on demand for testing, it should be stopped automatically if it has run for an hour and multiple instances should not run in parallel.

Poll Remote Actions - Sage 300 Properties (Local Computer)						
General Triggers Actions Conditions Settings History						
Specify additional settings that affect the behavior of the task.						
Allow task to be run on demand						
Run task as soon as possible after a scheduled start is missed						
\square If the task fails, restart every: 1 minute \sim						
Attempt to restart up to:	3 times					
Stop the task if it runs longer than:						
✓ If the running task does not end when requested, force it to stop						
\square If the task is not scheduled to run again, delete it after: 30 days \sim						
If the task is already running, then the following rule applies:						
Queue a new instance 🗸						
	OK Cancel					

Once the configuration of the task is complete, restart the computer for the schedule to take effect, or start it manually.

4.2 **REMOTEACTION.poller**

Form Client

The form client is a support library that includes the FormClient class as well as helper functions that are used across multiple Workflow Actions.

This library is of interest only to those that need to compose custom workflow actions that create, read, or delete approval forms.

Workflow Actions

Included in the Poplar Forms package are a number of workflow actions that can be used to generate and send forms to Sage Users, Extender groups, and client email addresses.

6.1 Using Workflow Actions

The workflow actions included with the package can be used in any workflow step. All workflow actions perform the following:

- 1. Render the form content message template.
- 2. Use the rendered content to generate the approval form.
- 3. Obtain the approval form URL and, if necessary, append default values as URL parameters.
- 4. Render and send an email notification to all specified users.

In order to perform these tasks, the actions all accept the following parameters:

```
Parameter1: Notification Email Template - used to render notification email
template, inserting the {FORMURL} template variable.
Parameter2: To list - Sage Users or Extender Groups to notify of the
approval.
Parameter3: Form Content Template - used to render the form content, the
subject is used as the page title and the content is displayed
above the form. Both plain text and HTML content are
supported.
Parameter4: Button Labels and Progress To steps - a comma separated list of
button_label=progress_to_stepname pairs.
```

6.2 HTML Content in Forms

HTML can be used in form titles and content. Only a subset of HTML tags are supported ALLOWED_HTML_TAGS.

To use HTML content in a form, create a message template that represents a valid HTML page (i.e. begins/ends with <html> tags and contains a <body>).

The following message template will render the customer name in italics, an amount in bold, contains a list, and whitespace management:

```
<html>
   <head></head>
   <body>
      Customer <i>{IDCUST} {NAMECUST}</i>
         has requested a change of credit limit
         from {AMTCRLIMT:2} to
         <b>{TOVALUE:2}</b>
      <br />
      This is a list of things!
      Thing1
      Thing2
      Lorax
      The change was done on {DD}/{MM}/{YYY} at
         {HOUR}:{MINUTE}:{SECOND} by {USER}
   </body>
</html>
```

Customize a Form

Forms are highly customizable! Many different fields types are supported, validations can be applied, and everything in the form template down to the field help text and error messages are easily changed.

Each Workflow Action contains a list of form controls and an action map at the top of the file after the import statements. By customizing the form_controls the layout, fields, and actions of a form can be customized.

For a detailed walkthough of creating a new action for a custom Sale Price approval workflow based on the SendApprovalFormEmail action check out the leisurely start guide.

7.1 Create a New Workflow Action

The first step to customizing a form is copying one of the existing actions to a new Workflow action file. Because workflow actions are stored in the database, an existing action file cannot be copied to a new file and edited.

One method of creating and registering new workflow actions is to view the file contents from the database and copy them into a new file.

- 1. Open the *Extender -> Setup -> Scripts* screen.
- 2. Right-click on the script that will be used to build the new action and select *View*. The action file contents open in a text editor.
- 3. In the text editor, select *File* \rightarrow *New*.
- 4. Copy the contents of the existing action file to the new file.
- 5. Close the existing file.
- 6. Save the new file with a unique name.

7.2 Customize the Form

Each workflow action file included with Poplar Forms has a list of form controls defined at the top of the action file. A form control is a widget that displays a field in the form. The standard approval form template looks something like this:

To customize the form, change the contents of the form_controls variable to meet your needs.

Need a form with a comment that uses a text field instead of a text area? Edit the APPROVALCOMMENT form control to be of type text:

```
form_controls = [
    {
        'name': 'APPROVALCOMMENT',
        'type': 'text',
        'label': 'Comments',
        'required': True,
    }
]
```

Users sometimes need a nudge, if you want to tell users up front that the comment is required, add some help text to render with the field:

```
form_controls = [
{
    'name': 'APPROVALCOMMENT',
    'type': 'text',
    'label': 'Comments',
    'required': True,
    'help_text': 'Comments are required, please leave one.',
}
```

Because Comments are required, perhaps an initial value is in order to save time in the best case:

```
form_controls = [
        {
            'name': 'APPROVALCOMMENT',
            'type': 'text',
            'label': 'Comments',
            'required': True,
            'help_text': 'Comments are required, please leave one.',
            'initial': 'Approved'
        }
]
```

7.3 Adding New Controls

Simply define a new element in the form_controls list to add an additional control to the form.

What if we need a new form to store the maximum number of widgets that are being approved?

```
form_controls = [
   {
      'name': 'APPROVALCOMMENT',
      'type': 'text',
      'label': 'Comments',
      'required': True,
      'help_text': 'Comments are required, please leave one.',
      'initial': 'Approved'
    },
    {
      'name': 'MAXWIDGETS',
      'type': 'integer',
      'label': 'Maximum Widgets',
      'required': True,
      'help_text': 'What is the maximum number of widgets being approved?',
      'initial': '5432'
    }
1
```

7.4 Where's the Data?

Yes but... where does the data from the new field go? When the Poller applies a form of type workflow_approval (like this one) all the fields are set as values in the Workflow itself.

So in the case described above, in the steps following the approval wait step, the MAXWIDGETS value with be set in the Workflow and can be referenced as {MAXWIDGETS}.

7.5 Progress To Steps and Form Buttons

The buttons displayed at the bottom of the form, and the step that the workflow will progress to when they're pressed, are passed as the fourth parameter to the workflow action.

They are passed as a comma separated list of button label, progress to step name pairs. To render three buttons, *Allow*, *Cancel*, *Deny* that progress to steps Allowed, Canceled, and Denied, provide the following argument:

```
Allow=Allowed, Cancel=Canceled, Deny=Denied
```

7.6 Dynamic Initial Values

There are three ways to set initial values in the form. The first is to include the initial argument to the form control definition at the top of the action file:

```
form_controls = [
    {
```

(continues on next page)

(continued from previous page)

```
'name': 'mycontrol',
...
'initial': 'my initial value'
}
```

]

Using this approach, all users of the form will see the same default value, regardless of the state of the workflow or the user accessing the form.

To display a value that changes based on the state of the workflow or views but is the same for all users, change the call to create_workflow_approval_form() to include the initial value as a keyword argument.

Continuing the MAXWIDGETS example, the initial value can be set to the MAXWIDGETS value in the workflow values by changing the create form call in our custom action:

The final approach is to set a different initial value per user. This is done by customizing the URL parameters in the link sent to each user. If we wanted to provide a different initial value to each user, we can do so before the email is sent:

```
for (username, email_address) in users:
    email = Email()
    email.setTo(email_address)
    if email.load(e.resolve(e.pl)) == False:
        error("Unable to load message template '" + e.pl + "'")
        return 1
    user_url = "{}?MAXWIDGETS={}&".format(url, user_max_widgets)
    email.replace("FORMURL", user_url)
```

Note: If more than one approach is used to set the initial value of a form control, only one will be applied.

Initial values set in the form control definition are preferred over those set dynamically.

Initial values set when creating the workflow form are preferred over those set in the URL parameters.

Sample Workflows

This page contains sample workflows for remote action that you can download and try for yourself.

Note: All the workflows on this page will need to be adjusted for your environment before they will work correctly. Contact us if you'd like a demo.

8.1 Adobe Sign - A/P Invoice Batch Approval Workflow

This workflow uses Adobe Sign to obtain signatures for the approval of A/P Invoice Batches.

A/P Invoice Batch Approval Template

The package contains Workflow actions for Orchid Extender that make it simple to create an approval form that can be completed from any computer, phone, or tablet connected to the internet.

This documentation includes information on using the included Workflow actions to create remote approval forms, setting up the poller, a description of the form client that is used to connect to fleetingforms.io, and instructions on how to customize a form to meet your needs.

If you want to get up and running as quickly as possible, check out the quickstart guide.

Looking for a comprehensive walkthorough of creating a workflow built around a remote approval? Try the leisurelystart.

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