

# ACP Gadgets

## ACP Gadgets

6connect's API Composer Platform (ACP) is a vendor-agnostic toolbox for developing interconnected endpoint workflows using data from one or more API service providers, separate from ProVision. ACP serves as a universal 'glue layer' for API-driven development, to standardize and streamline endpoint automation logic, save developer time, and increase the overall robustness of API-driven code. ACP is available as a separate product.

The gadget(s) listed below interface with ACP.

- ACP Gadgets
  - ACP ("Workflows") Gadget
    - Setting up ACP Access
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    - Working with the ACP Workflow Form

## ACP ("Workflows") Gadget

The ACP Workflow Form is a gadget connecting the ACP (API Composer Platform) with the ProVision interface to run workflows.

The screenshot shows the 'ACP Workflow Form' configuration window. At the top, it says 'Execute the selected ACP Workflow from the resource page.' Below this are several fields: 'Workflow' (a dropdown menu with 'Service Turnup' selected), 'Gadget Title' (a text input field with 'Workflow Example'), 'Map Local ID to' (a dropdown menu with 'parent\_id' selected), and 'Constraints' (a section with a note: 'Use predefined constraints to make the execution form more user-friendly. Leave empty value if you don't want to link an ACP user\_given with constraint.'). Under 'Constraints', there are three dropdown menus for 'service\_name', 'parent\_id', and 'hostname', each with 'Choose constraint' selected. At the bottom, there are two checkboxes: 'Refresh Page When Done' (unchecked) and 'Display JSON Results' (checked).

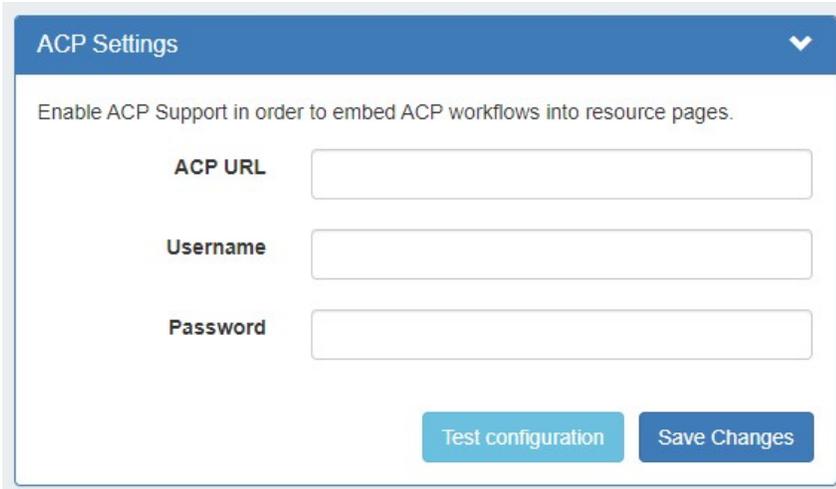
It allows users to specify and execute workflows created in the ACP product on a resource entry page.

The screenshot shows the 'ACP Workflow Form' after execution. A green message box at the top says 'The workflow was successfully executed'. Below this, the 'Workflow Test' section contains the text: 'This gadget will execute the workflow "1. Simple One-Step Workflow" which has 1 steps and 0 required fields.' At the bottom right, there is a blue button labeled 'Execute workflow'.

See below for additional details on setting up and working with the ACP Workflow Form:

## Setting up ACP Access

Before using the ACP Workflow Gadget, you must set the ACP URL and user credentials in Admin [Admin Settings](#).



The screenshot shows a configuration panel titled "ACP Settings" with a dropdown arrow. Below the title, it says "Enable ACP Support in order to embed ACP workflows into resource pages." There are three input fields: "ACP URL", "Username", and "Password". At the bottom, there are two buttons: "Test configuration" and "Save Changes".

Enter the ACP URL for a licensed ACP instance, then provide the ACP Username and Password for the user that should be used to execute workflows.

To verify the account, click "Test Configuration" - you will be notified whether the account is valid.

When done, click "Update".

After setup, the ACP Workflows Gadget will load with the available Workflows from your ACP instance, and can be configured to select which workflow and inputs you wish to use.

## Configuring the ACP Workflow Form

The ACP Workflow Form is accessed from the [Edit Section](#) page, under "Manage Gadgets".

Once ACP settings have been added to Admin Preferences, the "ACP Workflow Form" Gadget can be added to a section, containing fields to select the desired workflow to run, title, and map input options.



The screenshot shows a window titled "ACP Workflow Form" with a close button. The main text says "Execute the selected ACP Workflow from the resource page." Below this, there is a "Workflow" section with a dropdown menu labeled "Choose ACP Project". A list of workflows is shown below the dropdown, with "1. Simple One-Step Workflow" selected and highlighted in blue. The other workflows in the list are "2. Adjusting Outputs", "3. Connecting Steps", "4. Intro to Debugging", "5. Inputs", "6. Branching by HTTP Code", and "7. Branching by Data Inspection".

Select a Workflow, then edit the title to display on the gadget and map input options. Input options will vary according to the selected workflow.

Registered constraints can be applied to default input fields. See [Constraints](#) for more details.

ACP Workflow Form

Execute the selected ACP Workflow from the resource page.

**Workflow**  
Service Turnup

**Gadget Title**  
Workflow Example

**Map Local ID to**  
parent\_id

**Constraints**  
Use predefined constraints to make the execution form more user-friendly. Leave empty value if you don't want to link an ACP user\_given with constraint.

**service\_name**  
Choose constraint

**parent\_id**  
Choose constraint

Searching...

- Max Length
- Length Min
- Color Enumeration
- Email
- Less than or equal to 6
- Hostname

This beca

Save

### Note

The Constraints Tab is only available to Admin level users. See [Constraints](#) for more details.

You may also choose to refresh the page once the workflow execution is complete, and/or show JSON results.

ACP Workflow Form

Execute the selected ACP Workflow from the resource page.

**Workflow**  
Service Turnup

**Gadget Title**  
Workflow Example

**Map Local ID to**  
parent\_id

**Constraints**  
Use predefined constraints to make the execution form more user-friendly. Leave empty value if you don't want to link an ACP user\_given with constraint.

**service\_name**  
Choose constraint

**parent\_id**  
Max Length

**hostname**  
Choose constraint

Refresh Page When Done

Display JSON Results

Multiple forms may be added to a section, in order to run additional workflows or optional settings. When complete, click "Save".

## Working with the ACP Workflow Form

Once enabled, the gadget will show on the resource page for any resource of the section type.

Input the field data necessary for the workflow - here, it's adding a hostname - then click "Execute Workflow" to process the chain of workflow calls.

Turn Up Example

This gadget will execute the workflow "Customer Turn-up" which has 6 steps and 2 required fields. Resource ID is linked to **customer\_name**.

example1.com.

Execute workflow

If "Display JSON Results" has been enabled, a display modal will appear showing the JSON response of the executed workflow.

ACP Workflow response Close

```
{
  "output-param-1": {
    "id": "15319",
    "name": "aaaa_record",
    "parent_id": "15317",
    "category_id": null,
    "date": "2020-02-05T19:00:54-0800",
    "modified": "2020-02-05T19:00:54-0800",
    "record_type": "AAAA",
    "record_host": "example1.com.",
    "record_value": "2607:fb08:3:2a::8004",
    "record_ttl": "3600",
    "record_comment": "autogenerated by customer turnout",
    "permissions": {
      "resource_id": "15319",
      "create_ipam": "1",
      "read_ipam": "1",
      "update_ipam": "1",
      "delete_ipam": "1",
      "create_dns": "1",
      "read_dns": "1",
      "update_dns": "1",
      "delete_dns": "1",
      "create_peer": "1",
      "read_peer": "1",
      "update_peer": "1",
      "delete_peer": "1",
      "create_resource": "1",
      "read_resource": "1",
      "update_resource": "1",
      "delete_resource": "1",
      "create_user": "1",
      "read_user": "1",
      "user_update": "1",
      "user_delete": "1",
      "swip": "1",
      "admin": "1"
    }
  }
}
```

When done reviewing the response, click "Close".

If the page has not refreshed, you will see a message informing you whether the workflow has successfully executed.

The workflow was successfully executed

Turn Up Example

This gadget will execute the workflow "Customer Turn-up" which has 6 steps and 2 required fields. Resource ID is linked to **customer\_name**.

example1.com.

Execute workflow

In this example, a "Customer Turn-Up" workflow was selected (created in the ACP product) that performed six functions with one button click. The successful "Execute" for "Customer Turn-Up" created a new customer resource entry, assigned IPv4 and IPv6 blocks to them, created a DNS zone for the hostname, and lastly created 'A' and 'AAAA' records for the zone.