

GeoPal Scriptable Steps

API Documentation

ver 1.1

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Change Log

Date	Version	Changes Made	Changes By
18/12/2013	1	Initial Version	Sean O'Reilly
19/12/2013	1.1	renamed duplicate getAssetIdentifier to getAssetName	Tara Fennell

1. Scriptable Steps

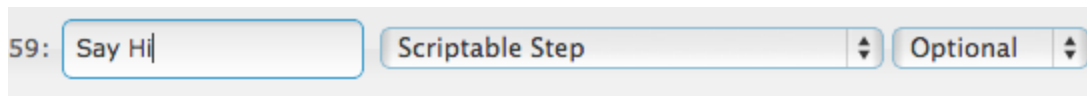
This section describes what scriptable steps are.

Scripting

Scriptable steps can be used to create logic, scoring, calculation and other steps that require advanced features. Steps can be scripted using javascript. All the features of javascript can be used to update, set, and get job workflow and field values. Scriptable steps have been included since 1.3.9

Scripting Window

The scripting step can be activated by selecting Scriptable Step in the job workflow.



59: Say Hi | Scriptable Step | Optional

The script itself can be entered by clicking on the Enter Details button.

Scriptable Step:

```
var name = Geopal.getJobEmployeeFullName();  
Geopal.showMessage('Hello World ' + name);  
Geopal.setJobWorkflowValue('Said Hi to ' + name);
```

All geopal scriptable functions can be accessed through the Geopal namespace.

2. Scriptable Steps Api Jobs

getJobId

Description	Gets the geopal job id for the job. If the job has not been synced yet to the
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	server then it is 0.
Parameters	None
Returns	Int

getJobIdentifier

Description	Gets the geopal job identifier for the job.
Parameters	None
Returns	String

getJobTemplateName

Description	Gets the geopal job template name for the job.
Parameters	None
Returns	String

getJobTemplateId

Description	Gets the geopal job template id for the job.
Parameters	None
Returns	Int

getJobAddress

Description	Gets the full address of the job
Parameters	None
Returns	String

getJobCustomerIdentifier

Description	Gets the customer identifier
Parameters	None
Returns	String

getJobCustomerName

Description	Gets the customer name
Parameters	None
Returns	String

getJobEmployeeFullName

Description	Gets the assigned to employee's full name
Parameters	None
Returns	String

getJobEmployeeId

Description	Gets the assigned to employee's id
Parameters	None
Returns	Int

getJobPersonIdentifier

Description	Gets the job persons identifier. In the UI its called Contact.
Parameters	None
Returns	String

getJobPersonFirstName

Description	Gets the job persons first name. In the UI its called Contact.
Parameters	None
Returns	String

getJobPersonLastName

Description	Gets the job persons last name. In the UI its called Contact.
Parameters	None
Returns	String

getJobPersonFullName

Description	Gets the job persons full name. In the UI its called Contact.
Parameters	None
Returns	String

getJobStatusId

Description	Gets the job's status id. You can see all job statuses via api/jobs/statuses
Parameters	None
Returns	Int

3. Scriptable Steps Api Job Fields

getJobFieldValueByName

Description	Gets a job field value by name
Parameters	String: The Job Field Name
Example	<code>Geopal.getJobFieldValueByName('Enter Customer Id');</code>
Returns	String

getJobFieldValueByPosition

Description	Gets a job field value by their position in the list
Parameters	int: The Job Field Position
Example	<code>Geopal.getJobFieldValueByPosition(0);</code>
Returns	String

getJobFieldValueByTemplateId

Description	Gets a job field value by their template id. You can find the template id of job with the api api/jobtemplates/get call.
Parameters	int: The Job Field Template Id

Example	Geopal.getJobFieldValueByTemplateId(999);
Returns	String

setJobFieldValueByName

Description	Sets a Job Field value by name
Parameters	string: The Job Field Name string: value
Example	Geopal.setJobFieldValueByName('Enter Details', 'new value');
Returns	None

setJobFieldValueByPosition

Description	Sets a Job Field value by position
Parameters	int: The Job Field Position string: value
Example	Geopal.setJobFieldValueByPosition(1, 'new value');
Returns	None

setJobFieldValueByTemplateId

Description	Sets a Job Field value by template id
Parameters	int: The Job Field Template Id string: value
Example	Geopal.setJobFieldValueByTemplateId(999, 'new value');

Returns	None
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4. Scriptable Steps Api Job Workflows

getJobWorkflowName

Description	Gets the current job workflow name
Parameters	None
Returns	String

getJobWorkflowPosition

Description	Gets the current job workflow position
Parameters	None
Returns	Int

getJobWorkflowValue

Description	Gets the current job workflow value
Parameters	None
Returns	String

getJobWorkflowValueByName

Description	Gets a job workflow value by name
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Parameters	string: The Job Workflow Name
Example	Geopal.getJobWorkflowValueByName('Pick From List');
Returns	String

getJobWorkflowValueByPosition

Description	Gets a job workflow value by position
Parameters	int: The Job Workflow Position
Example	Geopal.getJobWorkflowValueByPosition(15);
Returns	String

getJobWorkflowValueByTemplateId

Description	Gets a job workflow value by template id
Parameters	int: The Job Workflow Template Id
Example	Geopal.getJobWorkflowValueByTemplateId(999);
Returns	String

getJobWorkflowsActive

Description	Gets the current job workflow is active
Parameters	None
Returns	Boolean

getJobWorkflowsActiveByPosition

Description	Gets the current job workflow is active by position
Parameters	None
Returns	Boolean

getJobWorkflowsActiveByTemplateId

Description	Gets the current job workflow is active by template id
Parameters	None
Returns	Boolean

getJobWorkflowsActiveByName

Description	Gets the current job workflow is active by name
Parameters	None
Returns	Boolean

gotoJobWorkflowByName

Description	Goes to a job workflow by name
Parameters	string: The Job Workflow Name
Example	Geopal.gotoJobWorkflowByName('Annotate Picture');
Returns	None

gotoJobWorkflowByPosition

Description	Goes to a job workflow by position
Parameters	int: The Job Workflow Position
Example	Geopal.gotoJobWorkflowByPosition(10);
Returns	None

gotoJobWorkflowByTemplateId

Description	Goes to a job workflow by template id
Parameters	int: The Job Workflow Template Id
Example	Geopal.gotoJobWorkflowByTemplateId(10);
Returns	None

setJobWorkflowValue

Description	Sets the current job workflow value
Parameters	string: new value
Example	Geopal.setJobWorkflowValue('new value');
Returns	None

setJobWorkflowValueByName

Description	Sets a job workflow value by name
Parameters	string: Job Workflow Name string: new value
Example	Geopal.setJobWorkflowValueByName('Pick From a List', 'new value');

Returns	None
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setJobWorkflowValueByPosition

Description	Sets a job workflow value by position
Parameters	int: Job Workflow Position string: new value
Example	Geopal.setJobWorkflowValueByPosition(12, 'new value');
Returns	None

setJobWorkflowValueByTemplateId

Description	Sets a job workflow value by template id
Parameters	int: Job Workflow Template Id string: new value
Example	Geopal.setJobWorkflowValueByTemplateId(999, 'new value');
Returns	None

setJobWorkflowsMandatory

Description	Sets a job workflow value to be mandatory
Parameters	boolean: isMandatory
Example	Geopal.setJobWorkflowsMandatory(true);
Returns	None

setJobWorkflowsMandatoryByPosition

Description	Sets a job workflow value to be mandatory by position
Parameters	int: Job Workflow Position boolean: isMandatory
Example	Geopal.setJobWorkflowsMandatoryByPosition(12,true);
Returns	None

setJobWorkflowsMandatoryByTemplateId

Description	Sets a job workflow value to be mandatory by template id
Parameters	int: Job Workflow Template Id boolean: isMandatory
Example	Geopal.setJobWorkflowsMandatoryByTemplateId(999, true);
Returns	None

setJobWorkflowsMandatoryByName

Description	Sets a job workflow value to be mandatory by name
Parameters	int: Job Workflow Name boolean: isMandatory
Example	Geopal.setJobWorkflowsMandatoryByName('Pick From a List', true);
Returns	None

5. Scriptable Steps Api Assets

getAssetIdentifier

Description	Gets the current job asset identifier. Returns empty String if none found
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Parameters	None
Returns	String

getAssetName

Description	Gets the current job asset name. Returns empty String if none found
Parameters	None
Returns	String

getBoundAssetFieldValueByAssetCompanyId

Description	Gets the current job asset field value by asset company field id. Returns empty String if none found
Parameters	int: Asset Company Field Id
Example	Geopal.getBoundAssetFieldValueByAssetCompanyId(222);
Returns	String

getBoundAssetFieldValueByAssetCompanyName

Description	Gets the current job asset field value by asset company field name. Returns empty String if none found
Parameters	string: Asset Company Field name
Example	Geopal.getBoundAssetFieldValueByAssetCompanyName('take photo of asset');
Returns	String

6. Scriptable Steps Api Other

showMessage

Description	Shows a notification message
Parameters	string: message
Example	<code>Geopal.showMessage('hi');</code>
Returns	None

showSingleChoiceList

Description	Shows a single choice list
Available	1.4.x
Parameters	string: callBackEnter string: callBackCancel string: commaSepString string: title
Example	<pre>var success = function(item) { Geopal.showMessage(item + " was picked!"); } var cancel = function() { Geopal.showMessage('nothing was picked'); } Geopal.showSingleChoiceList('success', 'cancel', '1,2,3, 'Pick a number');</pre>
Returns	None

showMultiChoiceList

Description	Shows a multiple choice list
Available	1.6.126
Parameters	string: callBackEnter string: callBackCancel string: commaSepString string: title

Example	<pre> var success = function(items) { for(var i = 0;i<items.length;i++){ Geopal.showMessage(items[i] + " was picked!"); } } var cancel = function() { Geopal.showMessage('nothing was picked'); } Geopal.showMultiChoiceList('success', 'cancel', '1,2,3, 'Pick some numbers'); </pre>
Returns	None

showYesNoDialog

Description	Shows a yes/no dialog
Available	1.5.x
Parameters	string: callBackYes string: callBackNo string: title string: message string: yesText string: noText
Example	<pre> var yes = function() { Geopal.showMessage('yes selected'); }; var no = function() { Geopal.showMessage('no selected'); }; Geopal.showYesNoDialog('yes', 'no', 'Yes No Selector', 'Please pick yes or no', 'yes text', 'no text'); </pre>
Returns	None

showYesNoMaybeDialog

Description	Shows a yes/no/maybe dialog
Available	1.5.x
Parameters	string: callBackYes string: callBackNo string: callBackMaybe string: title string: message string: yesText string: noText string: maybeText
Example	<pre> var yes = function() { Geopal.showMessage('yes selected'); } var no = function() { Geopal.showMessage('no selected'); } var maybe = function() { Geopal.showMessage('maybe selected'); } Geopal.showYesNoMaybeDialog('yes', 'no', 'maybe', 'Title', 'Call me maybe?', 'yes text', 'no text', 'maybe text'); </pre>
Returns	None

showEnterText

Description	Shows a enter text dialog
Available	1.5.x
Parameters	string: callBackEnter string: callBackCancel string: defaultText string: title string: message

Example	<pre> var enter = function(item) { Geopal.showMessage('text entered'+item); }; var cancel = function() { Geopal.showMessage('cancelled'); }; Geopal.showEnterText('enter', 'cancel', 'default text', 'Please enter something', 'your message'); </pre>
Returns	None

showEnterNote

Description	Shows a enter note dialog
Available	1.5.x
Parameters	string: callBackEnter string: callBackCancel string: defaultText string: title string: message
Example	<pre> var enter = function(item) { Geopal.showMessage('note entered'+item); }; var cancel = function() { Geopal.showMessage('cancelled'); }; Geopal.showEnterNote('enter', 'cancel', 'default text', 'Please enter something', 'your message'); </pre>
Returns	None

startPhoneDialer

Description	Shows phone number in Phone Dialer. This also ends the execution of the javascript because this starts a new activity.
Available	1.6.205

Parameters	string: callbackFailed string: phoneNumber
Example	<pre>var failed = function() { Geopal.showMessage('start phone dialer failed'); }; Geopal.startPhoneDialer('failed', '01234678');</pre>
Returns	None

httpSender

Description	Retrys sending http parameters if offline
Available	1.7.x
Parameters	String: url String: post_params
Example	Geopal.httpSender('http://geopal-solutions.com','username=12345&password=12345')
Returns	Boolean

7. Examples

Hello World

```
Geopal.showMessage('Hello ' + Geopal.getJobEmployeeFullName());
```

Calculation

Simple calculation

```
Geoapl.setJobWorkflowValue(10 * 10);
```

or

Multiply an entered number by 10

```
Geoapl.setJobWorkflowValue(10 * Geoapl.getJobWorkflowValueByName('Enter Number'));
```

or

Add two entered numbers together

```
var number1 = Geoapl.getJobWorkflowValueByName('Enter Number1');
```

```
var number2 = Geoapl.getJobWorkflowValueByName('Enter Number2');
```

```
Geoapl.setJobWorkflowValue(number1 + number2);
```

Conditional Logic

If a number is greater than 10 then initiate a failed action, otherwise initiate success action

```
var number = Geoapl.getJobWorkflowValueByName('Enter Number1');
```

```
if (number > 10) {
```

```
    Geoapl.setJobWorkflowValue('Failed');
```

```
    Geopal.gotoJobWorkflowValueByName('Failed Step');
```

```
} else {
```

```
    Geoapl.setJobWorkflowValue('Passed');
```

```
    Geopal.gotoJobWorkflowValueByName('Passed Step');
```

```
}
```

Scoring

Scoring formula:

item1 = 1 point

item2 = 5 points

item3 = 10 points

The list steps have been set to: item1,item2,item3

```
function value2score(value) {
```

```
    switch(value) {
```

```
        case 'item1':
```

```
            return 1;
```

```
            break;
```

```
        case 'item2':
```

```
            return 5;
```

```
            break;
```

```
        case 'item3':
```

```
        return 10;
        break;
    default:
        return 0;
    }
}
```

```
var list1 = Geopal.getJobWorkflowValueByName('List Select 1');
var list2 = Geopal.getJobWorkflowValueByName('List Select 2');
var list3 = Geopal.getJobWorkflowValueByName('List Select 3');
```

```
var score1 = value2score(list1);
var score2 = value2score(list2);
var score3 = value2score(list3);
```

```
var score = score1 + score2 + score3;
```

```
Geopal.setJobWorkflowValue(score);
```