# GeoPal Scriptable Steps

# API Documentation

ver 1.6

**Change Log**

| Date | Version | Changes Made | Changes By |
|---|---|---|---|
| 18/12/2013 | 1 | Initial Version | Sean OReilly |
| 19/12/2013 | 1.1 | renamed duplicate getAssetIdentifier to getAssetName | Tara Fennell |
| 13/01/2014 | 1.2 | New methods for pdf, creating jobs and goto jobs/job list added | Tara Fennell |
| 10/04/2014 | 1.3 | New methods for getting and setting jobworkflow action values | Tara Fennell |
| 17/06/2014 | 1.4 | Added documentation for setJobWorkflowIsActive, | Tara Fennell |

| | | updateAssetStatus and scanBarcode | |
|---|---|---|---|
| 18/06/2014 | 1.5 | Fixed param definition for setJobWorkflowIsMandatoryByName what was int should have been string | Sean OReilly |
| 19/06/2014 | 1.6 | Deprecated httpSender | Sean OReilly |

# 1. Scriptable Steps
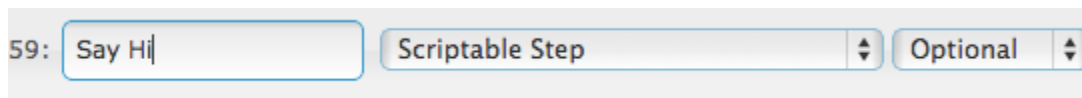
This section describes what scriptable steps are.

## 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.



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 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 | Geopal.getJobFieldValueByName('Enter Customer Id'); |
| Returns | String |

### getJobFieldValueByPosition

| Description | Gets a job field value by their position in the list |
| --- | --- |
| Parameters | int: The Job Field Position |
| Example | Geopal.getJobFieldValueByPosition(0); |
| 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<br>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<br>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<br>string: value |
| **Example** | Geopal.setJobFieldValueByTemplateId(999, 'new value'); |
| **Returns** | None |

# 4. Scriptable Steps Api Job Field File

## downloadJobfieldFileByName

| Description | Downloads job field file by name |
|---|---|
| **Available** | 1.7.x |
| **Parameters** | String: callbackSuccess<br>String: callbackFailed<br>String: name |
| **Example** | var successFileFound = function(filepath) {<br>        Geopal.showMessage(filepath); |

| | |
|---|---|
| | ```
};

var failedFileNotFound = function(error) {
        Geopal.showMessage(error);
};

Geopal.downloadJobfieldFileByName('successFileFound','failedFileNotFou
nd','Customer Docket');
``` |
| **Returns** | None |

## downloadJobfieldFileByTemplateId

| | |
|---|---|
| **Description** | Downloads job field file by templateId |
| **Available** | 1.7.x |
| **Parameters** | String: callbackSuccess<br>String: callbackFailed<br>int: templateId |
| **Example** | ```
var templateId = Geopal.getJobTemplateId();
var successFileFound = function(filepath) {
        Geopal.showMessage(filepath);
};

var failedFileNotFound = function(error) {
        Geopal.showMessage(error);
};

Geopal.downloadJobfieldFileByName('successFileFound','failedFileNotFou
nd',templateId);
``` |
| **Returns** | None |

## downloadJobfieldFileByPosition

| | |
|---|---|
| **Description** | Downloads job field file by position |
| **Available** | 1.7.x |
| **Parameters** | String: callbackSuccess<br>String: callbackFailed<br>int: position |
| **Example** | var successFileFound = function(filepath) { |

| | |
|---|---|
| | ```
        Geopal.showMessage(filepath);
};

var failedFileNotFound = function(error) {
        Geopal.showMessage(error);
};

Geopal.downloadJobfieldFileByPosition('successFileFound','failedFileNotFound',3);
``` |
| **Returns** | None |

# 5. 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 |
|---|---|
| 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 |

## getJobWorkflowActionValueByName

| Description | Gets a job workflow values by name |
|---|---|

| Parameters | string: The Job Workflow Name |
|---|---|
| Example | Geopal.getJobWorkflowActionValueByName('Pick From List'); |
| Returns | String |

## getJobWorkflowActionValueByPosition

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

## getJobWorkflowActionValueByTemplateId

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

## getJobWorkflowIsActive

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

## getJobWorkflowIsActiveByPosition

| Description | Gets the current job workflow is active by position |
|---|---|

| Parameters | None |
|---|---|
| Returns | Boolean |

## getJobWorkflowIsActiveByTemplateId

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

## getJobWorkflowIsActiveByName

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

## getWorkflowFilePathByName

| Description | Gets the current job workflow filepath by name |
|---|---|
| Available | 1.7.x |
| Parameters | String: name of workflow |
| Example | Geopal.getWorkflowFilePathByName('Signature PDF Signed'); |
| Returns | String |

## getWorkflowFilePathByTemplateId

| Description | Gets the current job workflow filepath by TemplateId |
|---|---|
| Available | 1.7.x |
| Parameters | int: template id of workflow |
| Example | Geopal.getWorkflowFilePathByTemplateId(512); |

| Returns | String |
|---------|--------|

## getWorkflowFilePathByPosition

| Description | Gets the current job workflow filepath by name |
|-------------|------------------------------------------------|
| Available | 1.7.x |
| Parameters | int: position of workflow |
| Example | Geopal.getWorkflowFilePathByPosition(6); |
| Returns | String |

## 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 |

## gotoJobById

| Description | Goes to a job by job id. Auto accept defaults to false and start tab defaults to TAB_STEPS |
| --- | --- |
| Available | 1.7.x |
| Parameters | int: The Job Id |
| Example | Geopal.gotoJobById(823); |
| Returns | None |

## gotoJobById

| Description | Goes to a job by job id with option to accept job. Start tab defaults to TAB_STEPS |
| --- | --- |
| Available | 1.7.x |
| Parameters | int: The Job Id<br>boolean: auto accept job |
| Example | Geopal.gotoJobById(823, true); |
| Returns | None |

## gotoJobById

| Description | Goes to a job by job id with option to open to tab and auto accept |
| --- | --- |
| Available | 1.7.x |
| Parameters | int: The Job Id<br>int: Start tab<br>boolean: auto accept job |
| Example | Geopal.gotoJobById(823,1,false); |

| Returns | None |
|---|---|
| Note | Start tab is affected by configuration options. If configuration options remove at tab at an index, out of bounds error may occur or wrong tab will be opened. TAB_STEPS = 0; TAB_MAPS = 1; TAB_DETAILS = 2; TAB_ASSET = 3; TAB_CRM = 4; |

## gotoJobByIdentifier

| Description | Goes to a job by job identifier. Auto accept defaults to false and start tab defaults to TAB_STEPS |
|---|---|
| Available | 1.7.x |
| Parameters | String: The Job identifier |
| Example | Geopal.gotoJobById(823); |
| Returns | None |

## gotoJobByIdentifier

| Description | Goes to a job by job identifier with option to accept job. Start tab defaults to TAB_STEPS |
|---|---|
| Available | 1.7.x |
| Parameters | String: The Job identifier<br>boolean: auto accept job |
| Example | Geopal.gotoJobById('test job', true); |
| Returns | None |

## gotoJobByIdentifier

| Description | Goes to a job by job identifier with option to open to tab. Auto accept defaults to false |
|---|---|
| Available | 1.7.x |
| Parameters | String: The Job identifier<br>int: Start tab |
| Example | Geopal.gotoJobById('test job',1); |
| Returns | None |

# gotoJobByIdentifier

| Description | Goes to a job by job identifier with option to open to tab and auto accept |
|---|---|
| Available | 1.7.x |
| Parameters | String: The Job identifier<br>int: Start tab<br>boolean: auto accept job |
| Example | Geopal.gotoJobById('test job',1,false); |
| Returns | None |
| Note | Start tab is affected by configuration options. If configuration options remove at tab at an index, out of bounds error may occur or wrong tab will be opened. TAB_STEPS = 0; TAB_MAPS = 1; TAB_DETAILS = 2; TAB_ASSET = 3; TAB_CRM = 4; |

# gotoJobList

| Description | Goes to job list |
|---|---|
| Available | 1.7.x |
| Example | Geopal.gotoJobList(); |
| 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<br>string: new value |
| Example | Geopal.setJobWorkflowValueByName('Pick From a List', 'new value'); |
| Returns | None |

## setJobWorkflowValueByPosition

| Description | Sets a job workflow value by position |
|---|---|
| Parameters | int: Job Workflow Position<br>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<br>string: new value |
| Example | Geopal.setJobWorkflowValueByTemplateId(999, 'new value'); |
| Returns | None |

## setJobWorkflowActionValueByName

| Description | Sets a job workflow value by name |
|---|---|
| Parameters | string: Job Workflow Name<br>string: new value |
| Example | Geopal.setJobWorkflowValueByName('Pick From a List', 'new value,new options,new everthing'); |

| Returns | None |
|---------|------|

## setJobWorkflowActionValueByPosition

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

## setJobWorkflowActionValueByTemplateId

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

## setJobWorkflowIsActive

| | |
|---|---|
| **Description** | Sets a job workflow value to be active |
| **Parameters** | boolean: isActive |
| **Example** | Geopal.setJobWorkflowIsActive(true); |
| **Returns** | None |

## setJobWorkflowIsActiveByPosition

| | |
|---|---|
| **Description** | Sets a job workflow value to be active by position |

| Parameters | int: Job Workflow Position<br>boolean: isActive |
|---|---|
| Example | Geopal.setJobWorkflowIsActiveByPosition(12,true); |
| Returns | None |

## setJobWorkflowIsActiveByTemplateId

| Description | Sets a job workflow value to be active by template id |
|---|---|
| Parameters | int: Job Workflow Template Id<br>boolean: isActive |
| Example | Geopal.setJobWorkflowIsActiveByTemplateId(999, true); |
| Returns | None |

## setJobWorkflowIsMandatoryByName

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

## setJobWorkflowIsMandatory

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

## setJobWorkflowIsMandatoryByPosition

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

## setJobWorkflowIsMandatoryByTemplateId

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

## setJobWorkflowIsMandatoryByName

| Description | Sets a job workflow value to be mandatory by name |
|---|---|
| Parameters | string: Job Workflow Name<br>boolean: isMandatory |
| Example | Geopal.setJobWorkflowIsMandatoryByName('Pick From a List', true); |
| Returns | None |

## setWorkflowFileByName

| Description | Sets a job workflow file by name |
|---|---|
| Available | 1.7.x |
| Parameters | String: name of workflow<br>String: file path |
| Example | Geopal.setWorkflowFileByName('Signature PDF Signed', filepath); |
| Returns | None |

## setWorkflowFileByTemplateId

| Description | Sets a job workflow file by template id |
| --- | --- |
| Available | 1.7.x |
| Parameters | int: template id of workflow<br>String: file path |
| Example | Geopal.setWorkflowFileByTemplateId(512, filepath); |
| Returns | None |

## setWorkflowFileByPosition

| Description | Sets a job workflow file by template id |
| --- | --- |
| Available | 1.7.x |
| Parameters | int: position of workflow<br>String: file path |
| Example | Geopal.setWorkflowFileByPosition(2, filepath); |
| Returns | None |

## forceCheckOut

| Description | Checks out of current job |
| --- | --- |
| Available | 1.7.x |
| Example | Geopal.forceCheckOut(); |
| Returns | None |

# 6. Scriptable Steps Api Create Job

## createSimpleJob

| Description | Creates a job with current date and time |
| --- | --- |
| Available | 1.7.x |

| Parameters | String: callbackSucces<br>String: callbackFailure<br>int: templateId |
|---|---|
| Example | GeopalJobCreate.createSimpleJob('success','failed',templateId); |
| Returns | None |

## createAdvancedJob

| Description | Creates a job with options |
|---|---|
| Available | 1.7.x |
| Parameters | String: callbackSucces<br>String: callbackFailure<br>String: date ->can be null<br>String: time ->can be null<br>String: jobIdentifier ->can be null<br>int: templateId<br>int: addressId ->can be null<br>int: customerId ->can be null<br>int: personId ->can be null<br>String: assetIdentifier ->can be null |
| Example | var templateId = GeopalTemplate.getJobTemaplateIdByName('1 Geopal Test);<br><br>var currentDate = new Date(1388844300000);<br>var date = currentDate.getFullYear()+'-'+(currentDate.getMonth()+1)+'-'+currentDate.getDate();<br><br>var time = currentDate.getHours()+':'+currentDate.getMinutes();<br><br>var jobIdentifier ='tara is testing';<br><br>var address = 1478;<br><br>var customer = 9987;<br><br>var person = 394;<br><br>var asset = 'Test201310228';<br><br>GeopalJobCreate.createAdvancedJob('success','failed',<br>      null, null, jobIdentifier, templateId, address,<br>        customer, person, asset); |

| Returns | None |
|---|---|

## createAdvancedJobWithFields

| Description | Creates a job with options |
|---|---|
| Available | 1.7.x |
| Parameters | String: callbackSucces<br>String: callbackFailure<br>String: date ->can be null<br>String: time ->can be null<br>String: jobIdentifier ->can be null<br>int: templateId<br>int: addressId ->can be null<br>int: customerId ->can be null<br>int: personId ->can be null<br>String: assetIdentifier ->can be null<br>String: jobWorkflows ->can be null<br>String jobFields ->can be null |
| Example | var templateId = GeopalTemplate.getJobTemaplateIdByName('1 Geopal Test);<br><br>var currentDate = new Date(1388844300000);<br>var date = currentDate.getFullYear()+'-'+(currentDate.getMonth()+1)+'-'+currentDate.getDate();<br><br>var time = currentDate.getHours()+':'+currentDate.getMinutes();<br><br>var jobIdentifier ='tara is testing';<br><br>var address = 1478;<br><br>var customer = 9987;<br><br>var person = 394;<br><br>var asset = 'Test201310228';<br><br>var workflows = '{"List Select 1":"test 1","List Select 2":"test 2","List Select 3":"test 3"}';<br><br>var fields = '{"testField1":"test field 1","testField2":"test field 2"}';<br><br>GeopalJobCreate.createAdvancedJobWithFields('success','failed',<br>    null, null, jobIdentifier, templateId, address,<br>    customer, person, asset, workflows, fields); |

| | |
|---|---|
| **Returns** | None |

# 7. Scriptable Steps Api Assets

### getAssetIdentifier

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

### getAssetName

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

### getBoundAssetFieldValueByAssetCompanyFieldId

| | |
|---|---|
| **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.getBoundAssetFieldValueByAssetCompanyFieldId(222); |
| **Returns** | String |

### getBoundAssetFieldValueByAssetCompanyFieldName

| | |
|---|---|
| **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.getBoundAssetFieldValueByAssetCompanyFieldName('take photo of asset'); |
| Returns | String |

## updateAssetStatus

| Description | Updates the asset status id. |
|---|---|
| Parameters | String: identifier<br>int assetStatusId |
| Example | GeopalAsset.updateAssetStatus('test asset',12); |
| Returns | String |

# 8. Scriptable Steps Api PDF

## addSignaturetoPdfField

| Description | Adds signature image to pdf acro field by acro field name |
|---|---|
| Available | 1.7.x |
| Parameters | String: callBackSuccess<br>String: callBackFailed<br>String: PDFFilepath<br>String: signatureFilepath<br>String: fieldName<br>int: pageNumber |
| Example | GeopalPDF.addSignaturetoPdfField('success','failed', pdfFilePath , filepath,'signature',1) |
| Returns | None |

## addSignaturetoPdfSignatureField

| Description | Adds signature image to pdf acro field by acro field of type Signature |
|---|---|
| Available | 1.7.x |
| Parameters | String: callBackSuccess |

| | String: callBackFailed<br>String: PDFFilepath<br>String: signatureFilepath<br>int: pageNumber |
|---|---|
| **Example** | GeopalPDF.addSignaturetoPdfSignatureField('success','failed', pdfFilePath , filepath,1) |
| **Returns** | None |

## addSignaturetoPdfAtPositionByCoordinates

| Description | Adds signature image to pdf at coordinates. Page number defaults to 1 |
|---|---|
| **Available** | 1.7.x |
| **Parameters** | String: callBackSuccess<br>String: callBackFailed<br>String: PDFFilepath<br>String: signatureFilepath<br>float: llx -> lower left x position<br>float: lly -> lower left y position<br>float: urx -> upper right x position<br>float: ury -> upper right y position |
| **Example** | GeopalPDF.addSignaturetoPdfAtPositionByCoordinates('success','failed', pdfFilePath , filepath ,400, 22, 578, 120); |
| **Returns** | None |
| **Note** | Pdf coordinates 0,0 start from lower left hand corner unlike Androids upper left hand 0,0 coordinates |

## addSignaturetoPdfAtPositionByCoordinates

| Description | Adds signature image to pdf at coordinates. Page number defaults to 1 |
|---|---|
| **Available** | 1.7.x |
| **Parameters** | String: callBackSuccess<br>String: callBackFailed<br>String: PDFFilepath<br>String: signatureFilepath<br>float: llx -> lower left x position<br>float: lly -> lower left y position<br>float: urx -> upper right x position<br>float: ury -> upper right y position |

| | int: page number |
|---|---|
| **Example** | GeopalPDF.addSignaturetoPdfAtPositionByCoordinates('success','failed', pdfFilePath , filepath ,400, 22, 578, 120,2); |
| **Returns** | None |
| **Note** | Pdf coordinates 0,0 start from lower left hand corner unlike Androids upper left hand 0,0 coordinates |

## addSignaturetoPdfAtPositionRighthandCorner

| | |
|---|---|
| **Description** | Adds signature image to pdf at coordinates. Page number defaults to 1 |
| **Available** | 1.7.x |
| **Parameters** | String: callBackSuccess<br>String: callBackFailed<br>String: PDFFilepath<br>String: signatureFilepath |
| **Example** | GeopalPDF.addSignaturetoPdfAtPositionRighthandCorner('success','failed', pdfFilePath , filepath); |
| **Returns** | None |
| **Note** | Pdf coordinates 0,0 start from lower left hand corner unlike Androids upper left hand 0,0 coordinates. Rectangle position hardcoded to (400, 22, 578, 120) |

## addSignaturetoPdfAtPositionRighthandCorner

| | |
|---|---|
| **Description** | Adds signature image to pdf at coordinates. Page number defaults to 1 |
| **Available** | 1.7.x |
| **Parameters** | String: callBackSuccess<br>String: callBackFailed<br>String: PDFFilepath<br>String: signatureFilepath<br>int: page number |
| **Example** | GeopalPDF.addSignaturetoPdfAtPositionRighthandCorner('success','failed', pdfFilePath , filepath,2); |
| **Returns** | None |

| Note | Pdf coordinates 0,0 start from lower left hand corner unlike Androids upper left hand 0,0 coordinates. Rectangle position hardcoded to (400, 22, 578, 120) |
|------|---|

## openPDFApplication

| Description | Lanches Pdf Application |
|-------------|-------------------------|
| Available | 1.7.x |
| Parameters | String: callBackFailed<br>String: filepath |
| Example | var failed = function(failedMsg) {<br>      Geopal.showMessage(failedMsg);<br>};<br><br>var openPDF = function() {<br>      GeopalPDF.openPDFApplication('failed',signaturePDFURL);<br>}; |
| Returns | None |

# 9. Scriptable Steps Api Other

## showMessage

| Description | Shows a notification message |
|-------------|------------------------------|
| Parameters | string: message |
| Example | Geopal.showMessage('hi'); |
| Returns | None |

## showSingleChoiceList

| Description | Shows a single choice list |
|-------------|----------------------------|
| Available | 1.4.x |
| Parameters | string: callBackEnter |

| | |
|---|---|
| | string: callBackCancel<br>string: commaSepString<br>string: title |
| **Example** | var success = function(item) {<br>Geopal.showMessage(item + " was picked!");<br>}<br><br>var cancel = function() {<br>Geopal.showMessage('nothing was picked');<br>}<br><br>Geopal.showSingleChoiceList('success', 'cancel', '1,2,3, 'Pick a number','message'); |
| **Returns** | None |

## showMultiChoiceList

| | |
|---|---|
| **Description** | Shows a multiple choice list |
| **Available** | 1.6.126 |
| **Parameters** | string: callBackEnter<br>string: callBackCancel<br>string: commaSepString<br>string: title |
| **Example** | var success = function(items) {<br>  for(var i = 0;i<items.length;i++){<br>    Geopal.showMessage(items[i] + " was picked!");<br>  }<br>}<br><br>var cancel = function() {<br>Geopal.showMessage('nothing was picked');<br>}<br><br>Geopal.showMultiChoiceList('success', 'cancel', '1,2,3, 'Pick some numbers'); |
| **Returns** | None |

## showYesNoDialog

| | |
|---|---|
| **Description** | Shows a yes/no dialog |
| **Available** | 1.5.x |

| Parameters | string: callBackYes<br>string: callBackNo<br>string: title<br>string: message<br>string: yesText<br>string: noText |
|---|---|
| Example | var yes = function() {<br>Geopal.showMessage('yes selected');<br>};<br><br>var no = function() {<br>Geopal.showMessage('no selected');<br>};<br><br>Geopal.showYesNoDialog('yes', 'no', 'Yes No Selector', 'Please pick yes or no', 'yes text', 'no text'); |
| Returns | None |

## showYesNoMaybeDialog

| Description | Shows a yes/no/maybe dialog |
|---|---|
| Available | 1.5.x |
| Parameters | string: callBackYes<br>string: callBackNo<br>string: callBackMaybe<br>string: title<br>string: message<br>string: yesText<br>string: noText<br>string: maybeText |
| Example | var yes = function() {<br>Geopal.showMessage('yes selected');<br>}<br><br>var no = function() {<br>Geopal.showMessage('no selected');<br>}<br><br>var maybe = function() {<br>Geopal.showMessage('maybe selected');<br>} |

| | Geopal.showYesNoMaybeDialog('yes', 'no', 'maybe', 'Title', 'Call me maybe?', 'yes text', 'no text', 'maybe text'); |
|---|---|
| **Returns** | None |

## showEnterText

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

## showEnterNote

| | |
|---|---|
| **Description** | Shows a enter note dialog |
| **Available** | 1.5.x |
| **Parameters** | string: callBackEnter<br>string: callBackCancel<br>string: defaultText<br>string: title<br>string: message |
| **Example** | var enter = function(item) {<br>Geopal.showMessage('note entered'+item);<br>}; |

| | |
|---|---|
| | var cancel = function() {<br>Geopal.showMessage('cancelled');<br>};<br><br>Geopal.showEnterNote('enter', 'cancel', 'default text', 'Please enter something', 'your message'); |
| **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<br><br>string: phoneNumber |
| **Example** | var failed = function() {<br>Geopal.showMessage('start phone dialer failed');<br>};<br><br>Geopal.startPhoneDialer('failed', '01234678'); |
| **Returns** | None |

## showSignatureDialog

| | |
|---|---|
| **Description** | Shows dialog box for signature input |
| **Available** | 1.7.x |
| **Parameters** | string: callBackOK<br>string: callBackCancel<br>string: title<br>string: disclaimer |
| **Example** | var ok = function(filepath) {<br>Geopal.showMessage(filepath);<br>};<br><br>var cancel = function() {<br>};<br><br>Geopal.showSignatureDialog('ok','cancel','sign this','this is a disclaimer'); |
| **Returns** | None |

| Note | White background becomes transparent. |
|------|---------------------------------------|

## showProgressDialog

| Description | Shows progress dialog. Message defaults to "processing....." |
|-------------|--------------------------------------------------------------|
| Available | 1.7.x |
| Example | Geopal.showProgressDialog(); |
| Returns | None |
| Note | If dialog is already showing it will close the dialog |

## showProgressDialog

| Description | Shows progress dialog with optional message |
|-------------|----------------------------------------------|
| Available | 1.7.x |
| Parameters | String: message |
| Example | Geopal.showProgressDialog('Loading....'); |
| Returns | None |
| Note | If dialog is already showing it will close the dialog |

## hideProgressDialog

| Description | Hides current progress dialog. |
|-------------|--------------------------------|
| Available | 1.7.x |
| Example | Geopal.hideProgressDialog(); |
| Returns | None |

## httpSender

| Description | Retrys sending http parameters if offline |
|-------------|-------------------------------------------|
| Deprecated | This method is deprecated and will not work in future versions please do not use |
| Available | 1.7.x |

| Parameters | String: url<br>String: post_params |
|---|---|
| Example | Geopal.httpSender('http://geopal-solutions.com','username=12345&password=12345') |
| Returns | Boolean |

### scanBarcode

| Description | Lanches external application to scan barcode. If no app is found shows message |
|---|---|
| Available | 1.10.x |
| Parameters | String callbackSuccess;<br>String callbackFailure; |
| Example | var success = function(item) {<br>Geopal.showMessage('barcode: '+item);<br>};<br><br>var fail = function() {<br>Geopal.showMessage(failed);<br>};<br><br>GeopalBarcode.scanBarcode('success','fail'); |
| Returns | String |

# 10. 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');
```

```javascript
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);
```

## PDF Signature Capture

```javascript
var pdfFilePath;
var signaturePDFURL;

  var openPDF = function() {
      if (typeof signaturePDFURL=="string" ) {
         GeopalPDF.openPDFApplication('failed',signaturePDFURL);
      } else if(Geopal.getJobWorkflowValue()==='Signature Taken'){
         var workflowFilepath = Geopal.getWorkflowFilePathByName('Signature PDF Signed');
         GeopalPDF.openPDFApplication('failed',workflowFilepath);
      } else {
         Geopal.showMessage('pdf not found');
      }
   };

   var no = function() {

   };

   var successFileFound = function(filepath) {
      pdfFilePath = filepath;
      Geopal.showSignatureDialog('ok','cancel','sign this','this is a disclaimer');
   };

   var failedFileNotFound = function(error) {
      Geopal.showMessage(error);
   };




   var failed = function(failedMsg) {
      Geopal.hideProgressDialog();
      Geopal.showMessage(failedMsg);
   };
```

```javascript
var success = function(url) {
    Geopal.hideProgressDialog();
    signaturePDFURL = url;
    Geopal.setWorkflowFileByName('Signature PDF Signed', url);
    Geopal.setJobWorkflowValue('Signature Taken');
    Geopal.showYesNoDialog('openPDF', 'no', 'Pdf Created', 'Signed PDF has been created
would you like to view it','Show PDF', 'Cancel');
};

var ok = function(filepath) {
    if (typeof pdfFilePath=="string" ) {
        Geopal.showProgressDialog();
        GeopalPDF.addSignaturetoPdfAtPositionRighthandCorner('success','failed',
pdfFilePath , filepath);
    } else {
        Geopal.showMessage('pdf not found');
    }
};

var cancel = function() {

};

var overwrite = function() {
    Geopal.downloadJobfieldFileByName('successFileFound','failedFileNotFound','Customer
Docket');
};


if(Geopal.getJobWorkflowValue()==='Signature Taken'){
    Geopal.showYesNoDialog('overwrite', 'openPDF', 'Pdf has already been signed', 'Would
you like to overwrite it?','Overwrite PDF', 'View PDF');
} else {
    Geopal.downloadJobfieldFileByName('successFileFound','failedFileNotFound','Customer
Docket');
}
```