

# JSON API



Introduced in v5, the API Domain Whitelist setting in [General Settings](#) needs to be configured to allow JSON API requests. If a request is from a non-whitelisted domain, the response will be a HTTP 400 Bad Request.

## New Feature

Form Data API and List Data API are newly added feature in Joget Workflow v6.

- App
  - web/json/app/{\*:appld}/{~:version}/form/{\*:formId}/columns
  - web/json/app/{\*:appld}/{~:version}/generator/{\*:formId}/generate
  - web/json/apps/install
  - web/json/apps/published/processes
  - web/json/apps/published/userviews
  - web/json/console/app/list
  - web/json/console/app/{\*:appld}/version/list
  - web/json/console/app/{\*:appld}/{~:version}/builder/actions
  - web/json/console/app/{\*:appld}/{~:version}/envVariable/list
  - web/json/console/app/{\*:appld}/{~:version}/datalist/list
  - web/json/console/app/{\*:appld}/{~:version}/datalist/options
  - web/json/console/app/{\*:appld}/{~:version}/form/tableNameList
  - web/json/console/app/{\*:appld}/{~:version}/forms
  - web/json/console/app/{\*:appld}/{~:version}/forms/options
  - web/json/console/app/{\*:appld}/{~:version}/package/deploy
  - web/json/console/app/{\*:appld}/{~:version}/package/xpdl
  - web/json/console/app/{\*:appld}/{~:version}/pluginDefault/list
  - web/json/console/app/{\*:appld}/{~:version}/message/list
  - web/json/console/app/{\*:appld}/{~:version}/userview/list
  - web/json/console/app/{\*:appld}/{~:version}/userview/options
  - web/json/workflow/package/list
- Assignments
  - web/json/workflow/assignment/accept/{\*:activityId}
  - web/json/workflow/assignment/complete/{\*:activityId}
  - web/json/workflow/assignment/completeWithVariable/{\*:activityId}
  - web/json/workflow/assignment/list
  - web/json/workflow/assignment/list/count
  - web/json/workflow/assignment/list/accepted
  - web/json/workflow/assignment/list/accepted/count
  - web/json/workflow/assignment/list/accepted/process
  - web/json/workflow/assignment/list/pending
  - web/json/workflow/assignment/list/pending/count
  - web/json/workflow/assignment/list/pending/process
  - web/json/workflow/assignment/process/view/{\*:processId}
  - web/json/workflow/assignment/withdraw/{\*:activityId}
  - web/json/workflow/assignment/variable/{\*:activityId}/{\*:variable}
  - web/json/workflow/assignment/view/{\*:activityId}
- Processes
  - web/json/workflow/process/abort/{\*:processId}
  - web/json/workflow/process/latest/{\*:processDefId}
  - web/json/workflow/process/list
  - web/json/workflow/process/list/package
  - web/json/workflow/process/start/{\*:processDefId}
  - web/json/workflow/process/variable/{\*:processId}/{\*:variable}
  - web/json/workflow/process/view/{\*:processId}
  - web/json/workflow/variable/list/{\*:processId}
- Monitoring
  - web/json/monitoring/activity/abort/{\*:processId}/{\*:activityDefId}
  - web/json/monitoring/activity/list
  - web/json/monitoring/activity/reassign
  - web/json/monitoring/activity/reevaluate
  - web/json/monitoring/activity/start/{\*:processId}/{\*:activityDefId}
  - web/json/monitoring/activity/variable/{\*:activityId}/{\*:variable}
  - web/json/monitoring/activity/view/{\*:activityId}
  - web/json/monitoring/completed/process/list
  - web/json/monitoring/process/copy/{\*:processId}/{\*:processDefId}
  - web/json/monitoring/process/variable/{\*:processId}/{\*:variable}
  - web/json/monitoring/process/view/{\*:processId}

- web/json/monitoring/running/activity/complete
- web/json/monitoring/running/activity/reassign
- web/json/monitoring/running/process/list
- web/json/monitoring/user/reevaluate
- SLA
  - web/json/workflow/activity/sla/list
- Audit Trail
  - web/json/workflow/audittrail/list
- Directory
  - web/json/directory/admin/dept/list
  - web/json/directory/admin/employment/list
  - web/json/directory/admin/employment/noHaveOrganization/list
  - web/json/directory/admin/employment/noInDept/list
  - web/json/directory/admin/employment/noInGrade/list
  - web/json/directory/admin/group/list
  - web/json/directory/admin/grade/list
  - web/json/directory/admin/organization/list
  - web/json/directory/admin/subdept/list
  - web/json/directory/admin/user/deptAndGrade/options
  - web/json/directory/admin/user/group/list
  - web/json/directory/admin/user/list
  - web/json/directory/admin/user/notInGroup/list
  - web/json/directory/user/sso
  - web/json/workflow/currentUsername
- Plugin
  - web/json/plugin/list
  - web/json/plugin/listOsgi
  - web/property/json/getElements
  - web/property/json/getPropertyOptions
  - web/property/json/\*:appld/(~:version)/getDefaultProperties
  - web/property/json/\*:appld/(~:version)/getPropertyOptions
- System
  - web/json/apps/verify
  - web/json/console/setting/message/list
  - web/json/hash/options
  - web/json/workflow/testConnection
- Form Data API
  - web/json/data/form/load/\*:appld/\*:formId/\*:primaryKeyValue
  - web/json/data/form/store/\*:appld/\*:formId/\*:primaryKeyValue
  - web/json/data/form/delete/\*:appld/\*:formId/\*:primaryKeyValue
- List Data API
  - web/json/data/list/\*:appld/\*:listId

## App

`web/json/app/*:appld/(~:version)/form/*:formId/columns`

### Description

Retrieves all columns for a form

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- appld - App definition id
- version - (Optional) App definition version
- formId - Form definition Id

### Sample URL

`http://localhost:8080/jw/web/json/app/crm/form/crm_account/columns`

### Sample Result

```
[{
  "value": "accountName",
  "label": "Account Name"
}, {
  "value": "address",
  "label": "address"
}, {
  "value": "city",
  "label": "City"
}, {
  "value": "country",
  "label": "Country"
}, {
  "value": "dateCreated",
  "label": "Date Created"
}, {
  "value": "dateModified",
  "label": "Date Modified"
}, {
  "value": "id",
  "label": "ID"
}, {
  "value": "state",
  "label": "State"
}]
```

## web/json/app/(\*:appld)/(~:version)/generator/(\*:formId)/generate

### Description

Executes a generator plugin based on a form

### User Role

Admin

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- plugin - Class name of generator plugin to execute
- appld - App Definition id
- version - (Optional) App definition version
- formId - Form definition id

### Sample URL

[http://localhost:8080/jw/web/json/app/crm/generator/crm\\_account/generate?plugin=org.joget.plugin.enterprise.CrudGenerator](http://localhost:8080/jw/web/json/app/crm/generator/crm_account/generate?plugin=org.joget.plugin.enterprise.CrudGenerator)

### Sample Result

```
{
  "message": "CRUD generated. Click <a href=\"/jw/web/console/app/crm/2/userview/builder/crm_userview_sales?menuId=c4a0c79c-c0a83810-5291318b-96650e7d\" target=\"_blank\">here</a> to continue edit CRUD in Userview Builder.",
  "error": false,
  "pluginDisabled": false
}
```

## web/json/apps/install

### Description

Downloads and imports an app form an URL

### User Role

Admin

**Method**

HTTP POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- url - Url to download an app

**Sample URL**

http://localhost:8080/jw/web/json/apps/install?url= http%3A%2F%2Fwww.joget.org%2Fdownloads%2Fsimple\_crm.jwa

**Sample Result**

```
{
  "appId" : "mcrm",
  "appName" : "Simple CRM",
  "appVersion" : "1"
}
```

### web/json/apps/published/processes

**Description**

Retrieves all published processes based on logged in user

**User Role**

Anyone (Including anonymous)

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - (Optional) App definition Id to filter the list

**Sample URL**

http://localhost:8080/jw/web/json/apps/published/processes?appld=crm

**Sample Result**

```
{
  "apps": [{
    "processes": [{
      "id": "crm#3#process1",
      "processVersion": "3",
      "appVersion": 2,
      "name": "Proposal Approval Process",
      "idWithoutVersion": "process1",
      "url": "/jw/web/client/app/crm/2/process/process1?start=true"
    }],
    "id": "crm",
    "name": "CRM",
    "version": 2
  }]
}
```

### web/json/apps/published/userviews

**Description**

Retrieves all published userviews based on logged in user

**User Role**

Anyone (Including anonymous)

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - (Optional) App definition Id to filter the list

#### Sample URL

<http://localhost:8080/jw/web/json/apps/published/userviews?appld=crm>

#### Sample Result

```
{
  "apps": [{
    "id": "crm",
    "name": "CRM",
    "userviews": [{
      "id": "crm_userview_sales",
      "description": "",
      "name": "CRM: Sales Force Automation",
      "url": "/jw/web/userview/crm/crm_userview_sales",
      "version": 2
    }],
    "version": 2
  }]
}
```

## web/json/console/app/list

#### Description

Retrieves all apps

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/console/app/list?name=crm>

#### Sample Result

```
{
  "total": 2,
  "data": [{
    "id": "crm",
    "name": "CRM",
    "version": 2
  }, {
    "id": "mcrm",
    "name": "Simple CRM",
    "version": 1
  }]
}
```

## web/json/console/app(\*:appld)/version/list

### Description

Retrieves all version of an app

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

http://localhost/jw/web/json/workflow/process/list/package

### Sample Result

```
{
  "total": 2,
  "data": [{
    "dateModified": "23-07-2015 07:25 AM",
    "description": null,
    "dateCreated": "28-05-2015 10:08 PM",
    "published": "",
    "version": "1"
  }, {
    "dateModified": "04-09-2015 03:05 AM",
    "description": null,
    "dateCreated": "22-07-2015 11:24 PM",
    "published": "<div class=\"tick\"></div>",
    "version": "2"
  }]
}
```

## web/json/console/app(\*:appld)/(~:version)/builder/actions

### Description

Retrieves all Datalist Actions plugins

### User Role

Admin

### Method

HTTP GET/POST

#### Parameters

- applID - App Definition Id
- version - (Optional) App Definition version

#### Sample URL

http://localhost:8080/jw/web/json/console/app/crm/builder/actions

#### Sample Result

```
{
  "actions": [
    {
      "name": "Data List Hyperlink Action",
      "className": "org.joget.apps.datalist.lib.HyperlinkDataListAction",
      "label": "Hyperlink",
      "type": "text",
      "propertyOptions": "[{ title: 'Configure Link', properties: [{ label: 'Hyperlink', name: 'href', type: 'textfield', description: 'URL (Eg. http:\\\\\\www.google.com)' }, { label: 'Hyperlink Target', name: 'target', type: 'selectbox', description: 'Hyperlink Target is for Row Action usage only', options: [{ value: '_self', label: 'Current Window' }, { value: '_blank', label: 'New Window' }, { value: 'popup', label: 'Popup Dialog' }]}], type: 'gridCombine', columns: [{ key: 'hrefParam', label: 'Parameter Name' }, { key: 'hrefColumn', label: 'Column Name' }], { label: 'Label', name: 'label', type: 'textfield', description: 'Label shown in the column (for row actions)', value: 'Hyperlink' }, { label: 'Confirmation Message', name: 'confirmation', type: 'textfield' }, { label: 'Visible when no record or checkbox?', name: 'visible', type: 'checkbox', options: [ { 'value': 'true', 'label': '' } ] } ] ] ]]"
    }, {
      "name": "Form Row Delete Action",
      "className": "org.joget.apps.datalist.lib.FormRowDeleteDataListAction",
      "label": "Delete",
      "type": "text",
      "propertyOptions": "[{ title: 'Edit Delete Action', properties: [{ name: 'label', label: 'Label', type: 'textfield' }, { name: 'formDefId', label: 'Form', type: 'selectbox', options_ajax: '[CONTEXT_PATH]/web/json/console/app/crm/2/forms/options', required: 'True' }, { name: 'confirmation', label: 'Confirmation Message', type: 'textfield' }, { name: 'deleteGridData', label: 'Delete Associated Grid Data?', type: 'checkbox', value: 'false', options: [ { value: 'true', label: '' } ] }, { name: 'deleteSubformData', label: 'Delete Associated Child Form Data?', type: 'checkbox', value: 'false', options: [ { value: 'true', label: '' } ] }, { name: 'abortRelatedRunningProcesses', label: 'Abort Related Running Processes?', type: 'checkbox', value: 'false', options: [ { value: 'true', label: '' } ] } ] ] ]]"
    }
  ]
}
```

web/json/console/app/(\*:applid)/(~:version)/envVariable/list

#### Description

Retrieves all environment variable of an app

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

- appld - App Definiton Id
- version- (Optional) App Definiton version
- filter - (Optional) id filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

http://localhost:8080/jw/web/json/console/app/crm/envVariable/list

**Sample Result**

```
{
  "total": 2,
  "data": [{
    "id": "refNo",
    "value": "75",
    "remarks": "Used for plugin: IdGeneratorField"
  }, {
    "id": "welcome",
    "value": "<b>Welcome Message</b>",
    "remarks": ""
  }]
}
```

**web/json/console/app/\*:appld/(~:version)/datalist/list**

**Description**

Retrieves all datalist of an app

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition Id
- version - (Optional) App Definition version
- filter - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

http://localhost:8080/jw/web/json/console/app/crm/datalist/list

**Sample Result**



```

{
  "total": 3,
  "data": [{
    "id": "crm_contact_list",
    "dateModified": "22-07-2015 11:24 PM",
    "description": "Contact List",
    "name": "Contact List",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_inbox",
    "dateModified": "28-08-2015 09:42 AM",
    "description": null,
    "name": "Task Inbox",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_opportunity_list",
    "dateModified": "22-07-2015 11:24 PM",
    "description": "Opportunity List",
    "name": "Opportunity List",
    "dateCreated": "22-07-2015 11:24 PM"
  }
  ]
}

```

## web/json/console/app/(\*:appld)/(~:version)/datalist/options

### Description

Retrieves all datalist of an app in value-label pair.

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition Id
- version - (optional) App Definiton version
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/console/app/crm/datalist/options>

### Sample Result

```

[ {
  "value": "",
  "label": ""
}, {
  "value": "crm_account_list",
  "label": "Account Listing"
}, {
  "value": "crm_contact_list",
  "label": "Contact List"
}, {
  "value": "crm_opportunity_list",
  "label": "Opportunity List"
}, {
  "value": "crm_inbox",
  "label": "Task Inbox"
} ]

```

## web/json/console/app/{\*:appld}/(::~version)/form/tableNameList

### Description

Retrieves all table name used in an app

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition Id
- version - (Optional) App Definiton version

### Sample URL

http://localhost:8080/jw/web/json/console/app/crm/form/tableNameList

### Sample Result

```
{
  "tableName": [ "crm_account", "crm_contact", "crm_opportunity", "crm_proposal" ]
}
```

## web/json/console/app/{\*:appld}/(::~version)/forms

### Description

Retrieves all forms in an app

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version
- name - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

http://localhost:8080/jw/web/json/console/app/crm/forms

### Sample Result

```

{
  "total": 7,
  "data": [{
    "id": "crm_account",
    "dateModified": "07-09-2015 08:30 AM",
    "tableName": "crm_account",
    "name": "Account Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_contact",
    "dateModified": "22-07-2015 11:24 PM",
    "tableName": "crm_contact",
    "name": "Contact Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_opportunity",
    "dateModified": "22-07-2015 11:24 PM",
    "tableName": "crm_opportunity",
    "name": "Opportunity Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_proposal_approval_form",
    "dateModified": "22-07-2015 11:24 PM",
    "tableName": "crm_proposal",
    "name": "Proposal Approval Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_proposal_form",
    "dateModified": "13-08-2015 02:55 AM",
    "tableName": "crm_proposal",
    "name": "Proposal Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_proposal_resubmit_form",
    "dateModified": "22-07-2015 11:24 PM",
    "tableName": "crm_proposal",
    "name": "Proposal Resubmit Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }, {
    "id": "crm_proposal_sending_form",
    "dateModified": "22-07-2015 11:24 PM",
    "tableName": "crm_proposal",
    "name": "Proposal Sending Form",
    "dateCreated": "22-07-2015 11:24 PM"
  }
  ]
}

```

## web/json/console/app/\*:appld/(~:version)/forms/options

### Description

Retrieves all form in an app in value-label pair

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version

### Sample URL

<http://localhost:8080/jw/web/json/console/app/crm/forms/options>

#### Sample Result

```
[{
  "value": "",
  "label": ""
}, {
  "value": "crm_account",
  "label": "Account Form"
}, {
  "value": "crm_contact",
  "label": "Contact Form"
}, {
  "value": "crm_opportunity",
  "label": "Opportunity Form"
}, {
  "value": "crm_proposal_approval_form",
  "label": "Proposal Approval Form"
}, {
  "value": "crm_proposal_form",
  "label": "Proposal Form"
}, {
  "value": "crm_proposal_resubmit_form",
  "label": "Proposal Resubmit Form"
}, {
  "value": "crm_proposal_sending_form",
  "label": "Proposal Sending Form"
}]
```

#### web/json/console/app/\*:appld/(~:version)/package/deploy

##### Description

Deploy a new version of XPDL to an app

##### User Role

Admin

##### Method

HTTP POST

##### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version
- packageXpdl - Multipart file of a XPDL file

##### Sample URL

http://localhost:8080/jw/web/json/console/app/crm/package/deploy

##### Sample Result

```
{"status" : "complete"}
```

#### web/json/console/app/\*:appld/(~:version)/package/xpdl

##### Description

Retrieves XPDL file of an app

##### User Role

Admin

##### Method

HTTP GET/POST

#### Parameters

- appld - App Definition id
- version - (Optional) App Definition version

#### Sample URL

http://localhost:8080/jw/web/json/console/app/crm/package/xpdl

### web/json/console/app/(\*:appld)/(~:version)/pluginDefault/list

#### Description

Retrieves all configured default plugin properties of an app

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version
- filter - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

http://localhost:8080/jw/web/json/console/app/crm/pluginDefault/list

#### Sample Result

```
{
  "total": 2,
  "data": [{
    "id": "org.joget.apps.app.lib.EmailTool",
    "pluginName": "Email Tool",
    "pluginDescription": "Sends email message to targeted recipient(s)"
  }, {
    "id": "org.joget.apps.app.lib.ProcessDataCollectorAuditTrail",
    "pluginName": "Process Data Collector",
    "pluginDescription": "Save process data into app_report_* tables for reporting purposes"
  }
]
```

### web/json/console/app/(\*:appld)/(~:version)/message/list

#### Description

Retrieves all created custom i18n message of an app

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version
- filter - (Optional) id and message filter

- locale - (Optional) language code for filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/console/app/crm/message/list>

#### Sample Result

```
{
  "total": 1,
  "data": {
    "message": "",
    "id": "general.method.label.search_zh_CN",
    "locale": "zh_CN",
    "messageKey": "general.method.label.search"
  }
}
```

### web/json/console/app(\*:appld)/(~:version)/userview/list

#### Description

Retrieves all userviews of an app

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version
- filter - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/console/app/crm/userview/list>

#### Sample Result

```
{
  "total": 1,
  "data": {
    "id": "crm_userview_sales",
    "dateModified": "13-09-2015 02:55 AM",
    "description": "",
    "name": "CRM: Sales Force Automation",
    "dateCreated": "22-07-2015 11:24 PM"
  }
}
```

### web/json/console/app(\*:appld)/(~:version)/userview/options

#### Description

Retrieves all userviews of an app in value-label pair

#### User Role

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - App Definition id
- version - (Optional) App Definition version
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

http://localhost:8080/jw/web/json/console/app/crm/userview/options

**Sample Result**

```
[{
  "value": "",
  "label": ""
}, {
  "value": "crm_userview_sales",
  "label": "CRM: Sales Force Automation"
}]
```

## web/json/workflow/package/list

**Description**

Retrieves package (app) list

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - a function (in JavaScript) to call back after invoking this method

**Sample URL**

http://localhost:8080/jw/web/json/workflow/package/list

**Sample Result**

```
{
  "data": [{
    "packageId": "crm",
    "packageName": "CRM"
  }, {
    "packageId": "helpdesk",
    "packageName": "Helpdesk"
  }]
}
```

## Assignments

### web/json/workflow/assignment/accept/{\*:activityId}

**Description**

Accept an assigned assignment



**Deprecated** Since v3, the concept of accept & withdraw assignment is removed

#### User Role

Anyone (Including anonymous)

#### Method

HTTP POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - Activity instance id

#### Sample URL

http://localhost:8080/jw/web/json/workflow/assignment/accept/879\_223\_crm\_process1\_approve\_proposal

#### Sample Result

```
{
  "assignment" : "879_223_crm_process1_approve_proposal"
  "status" : "accepted"
}
```

### web/json/workflow/assignment/complete/{\*:activityId}

#### Description

Completes an assigned assignment

#### User Role

Anyone (Including anonymous)

#### Method

HTTP POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id

#### Sample URL

http://localhost:8080/jw/web/json/workflow/assignment/complete/879\_223\_crm\_process1\_approve\_proposal

#### Sample Result

```
{
  "activityId": "879_223_crm_process1_approve_proposal",
  "nextActivityId": "882_223_crm_process1_send_proposal",
  "processId": "223_crm_process1",
  "status": "completed"
}
```

### web/json/workflow/assignment/completeWithVariable/{\*:activityId}

#### Description

Completes an assigned assignment with option to set workflow variables.

#### User Role

Anyone (Including anonymous)

#### Method



HTTP POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id
- var\_\* - (Optional) parameters prefixed with "var\_" used to set workflow variable

#### Sample URL

[http://localhost:8080/jw/web/json/workflow/assignment/complete/879\\_223\\_crm\\_process1\\_approve\\_proposal?var\\_status=Sent](http://localhost:8080/jw/web/json/workflow/assignment/complete/879_223_crm_process1_approve_proposal?var_status=Sent)

#### Sample Result

```
{
  "activityId": "879_223_crm_process1_approve_proposal",
  "nextActivityId": "882_223_crm_process1_send_proposal",
  "processId": "223_crm_process1",
  "status": "completed"
}
```

## web/json/workflow/assignment/list

#### Description

Retrieves all assignments of current logged in user

#### User Role

Anyone (Including anonymous)

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- packageId - (Optional) App Definition Id
- processDefId - (Optional) Process definition Id with version
- processId - (Optional) Process instance id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/workflow/assignment/list?rows=3&packageId=crm>

#### Sample Result

```

{
  "total": 10,
  "data": [{
    "id": "477_118_crm_process1_approve_proposal",
    "activityId": "477_118_crm_process1_approve_proposal",
    "processVersion": "1",
    "serviceLevelMonitor": "-",
    "processId": "118_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "21-07-2015 03:03 AM",
    "label": "Approve Proposal",
    "acceptedStatus": false,
    "activityName": "Approve Proposal"
  }, {
    "id": "479_119_crm_process1_approve_proposal",
    "activityId": "479_119_crm_process1_approve_proposal",
    "processVersion": "1",
    "serviceLevelMonitor": "-",
    "processId": "119_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "21-07-2015 03:03 AM",
    "label": "Approve Proposal",
    "acceptedStatus": false,
    "activityName": "Approve Proposal"
  }, {
    "id": "481_120_crm_process1_approve_proposal",
    "activityId": "481_120_crm_process1_approve_proposal",
    "processVersion": "1",
    "serviceLevelMonitor": "-",
    "processId": "120_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "21-07-2015 03:03 AM",
    "label": "Approve Proposal",
    "acceptedStatus": false,
    "activityName": "Approve Proposal"
  }
  ]
}

```

## web/json/workflow/assignment/list/count

### Description

Retrieves the number of assignments of current logged in user

### User Role

Anyone (Including anonymous)

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- packageId - (Optional) App Definition Id
- processDefId - (Optional) Process definition Id with version
- processId - (Optional) Process instance id

### Sample URL

<http://localhost:8080/jw/web/json/workflow/assignment/list/count?packageId=crm>

### Sample Result

```
{"total":10}
```

## web/json/workflow/assignment/list/accepted

### Description

Retrieves all accepted assignments of current logged in user



**Deprecated** Since v3, the concept of accept & withdraw assignment is removed

### User Role

Anyone (Including anonymous)

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - (Optional) Process instance id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/workflow/assignment/list/accepted?rows=3>

### Sample Result

```

{
  "total": 10,
  "data": [{
    "id": "477_118_crm_process1_approve_proposal",
    "activityId": "477_118_crm_process1_approve_proposal",
    "processVersion": "1",
    "serviceLevelMonitor": "-",
    "processId": "118_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "21-07-2015 03:03 AM",
    "label": "Approve Proposal",
    "acceptedStatus": false,
    "activityName": "Approve Proposal"
  }, {
    "id": "479_119_crm_process1_approve_proposal",
    "activityId": "479_119_crm_process1_approve_proposal",
    "processVersion": "1",
    "serviceLevelMonitor": "-",
    "processId": "119_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "21-07-2015 03:03 AM",
    "label": "Approve Proposal",
    "acceptedStatus": false,
    "activityName": "Approve Proposal"
  }, {
    "id": "481_120_crm_process1_approve_proposal",
    "activityId": "481_120_crm_process1_approve_proposal",
    "processVersion": "1",
    "serviceLevelMonitor": "-",
    "processId": "120_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "21-07-2015 03:03 AM",
    "label": "Approve Proposal",
    "acceptedStatus": false,
    "activityName": "Approve Proposal"
  }
  ]
}

```

## web/json/workflow/assignment/list/accepted/count

### Description

Retrieves the number of accepted assignments of current logged in user



**Deprecated** Since v3, the concept of accept & withdraw assignment is removed

### User Role

Anyone (Including anonymous)

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

### Sample URL

<http://localhost:8080/jw/web/json/workflow/assignment/list/accepted/count>

#### Sample Result

```
{ "total": 3 }
```

### web/json/workflow/assignment/list/accepted/process

#### Description

Retrieves processes list based on accepted assignment of current logged in user



**Deprecated** Since v3, the concept of accept & withdraw assignment is removed

#### User Role

Anyone (Including anonymous)

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

#### Sample URL

http://localhost:8080/jw/web/json/workflow/assignment/list/accepted/process

#### Sample Result

```
{
  "data": [ {
    "count": 3,
    "processVersion": "3",
    "processName": "Proposal Approval Process",
    "processDefId": "crm#3#process1",
    "label": "Proposal Approval Process ver 3 (3)",
    "url": "/json/workflow/assignment/list/accepted?processId=crm%233%23process1"
  } ]
}
```

### web/json/workflow/assignment/list/pending

#### Description

Retrieves all pending assignments of current logged in user

#### User Role

Anyone (Including anonymous)

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - (Optional) Process instance id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

http://localhost:8080/jw/web/json/workflow/assignment/list/pending

#### Sample Result

```
{
  "total": 3,
  "data": [{
    "id": "841_206_crm_process1_send_proposal",
    "activityId": "841_206_crm_process1_send_proposal",
    "processVersion": "3",
    "serviceLevelMonitor": "-",
    "processId": "206_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "04-09-2015 11:05 AM",
    "label": "Send Proposal",
    "activityName": "Send Proposal"
  }, {
    "id": "842_207_crm_process1_approve_proposal",
    "activityId": "842_207_crm_process1_approve_proposal",
    "processVersion": "3",
    "serviceLevelMonitor": "-",
    "processId": "207_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "04-09-2015 11:05 AM",
    "label": "Approve Proposal",
    "activityName": "Approve Proposal"
  }, {
    "id": "843_208_crm_process1_send_proposal",
    "activityId": "843_208_crm_process1_send_proposal",
    "processVersion": "3",
    "serviceLevelMonitor": "-",
    "processId": "208_crm_process1",
    "description": "",
    "processName": "Proposal Approval Process",
    "due": "-",
    "dateCreated": "04-09-2015 11:05 AM",
    "label": "Send Proposal",
    "activityName": "Send Proposal"
  }
  ]
}
```

#### web/json/workflow/assignment/list/pending/count

##### Description

Retrieves the number of all pending assignments of current logged in user

##### User Role

Anyone (including anonymous)

##### Method

HTTP GET/POST

##### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

##### Sample URL

<http://localhost:8080/jw/web/json/workflow/assignment/list/pending/count>

##### Sample Result

```
{"total":3}
```

## web/json/workflow/assignment/list/pending/process

### Description

Retrieves process list based on pending assignments of current logged in user

### User Role

Anyone (Including anonymous)

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

### Sample URL

<http://localhost:8080/jw/web/json/workflow/assignment/list/pending/process>

### Sample Result

```
{
  "data": [{
    "count": 3,
    "processVersion": "3",
    "processName": "Proposal Approval Process",
    "processDefId": "crm#3#process1",
    "label": "Proposal Approval Process ver 3 (3)",
    "url": "/json/workflow/assignment/list/accepted?processId=crm%233%23process1"
  }]
}
```

## web/json/workflow/assignment/process/view/(\*:processId)

### Description

Retrieves process information based on available assignment of current logged in user

### User Role

Anyone (Including anonymous)

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - Process instance id

### Sample URL

[http://localhost:8080/jw/web/json/workflow/assignment/process/view/208\\_crm\\_process1](http://localhost:8080/jw/web/json/workflow/assignment/process/view/208_crm_process1)

### Sample Result

```
{
  "activityId": "843_208_crm_process1_send_proposal",
  "processVersion": "3",
  "activityDefId": "send_proposal",
  "processId": "208_crm_process1",
  "assigneeId": "admin",
  "description": "",
  "processName": "Proposal Approval Process",
  "dateCreated": "04-09-2015 03:05 AM",
  "participant": "Requester",
  "processDefId": "crm#3#process1",
  "variable": {
    "status": "approved"
  },
  "activityName": "Send Proposal"
}
```

## web/json/workflow/assignment/withdraw/{\*:activityId}

### Description

Withdraws an accepted assignment



**Deprecated** Since v3, the concept of accept & withdraw assignment is removed

### User Role

Anyone (Including anonymous)

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id

### Sample URL

[http://localhost:8080/jw/web/json/workflow/assignment/withdraw/879\\_223\\_crm\\_process1\\_approve\\_proposal](http://localhost:8080/jw/web/json/workflow/assignment/withdraw/879_223_crm_process1_approve_proposal)

### Sample Result

```
{
  "activityId": "879_223_crm_process1_approve_proposal",
  "status": "withdrawn"
}
```

## web/json/workflow/assignment/variable/{\*:activityId}/{\*:variable}

### Description

Sets value of workflow variable of an assignment

### User Role

Anyone (Including anonymous)

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id
- variable - workflow variable to set value
- value - value of workflow variable



**Sample URL**

[http://localhost:8080/jw/web/json/workflow/assignment/variable/843\\_208\\_crm\\_process1\\_send\\_proposal/status?value=test](http://localhost:8080/jw/web/json/workflow/assignment/variable/843_208_crm_process1_send_proposal/status?value=test)

**Sample Result**

```
{ "status": "variableSet" }
```

**web/json/workflow/assignment/view/{\*:activityId}****Description**

Retrieves information of an assignment

**User Role**

Anyone (Including anonymous)

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id

**Sample URL**

[http://localhost:8080/jw/web/json/workflow/assignment/view/843\\_208\\_crm\\_process1\\_send\\_proposal](http://localhost:8080/jw/web/json/workflow/assignment/view/843_208_crm_process1_send_proposal)

**Sample Result**

```
{
  "activityId": "843_208_crm_process1_send_proposal",
  "processVersion": "3",
  "activityDefId": "send_proposal",
  "processId": "208_crm_process1",
  "assigneeId": "admin",
  "description": "",
  "processName": "Proposal Approval Process",
  "dateCreated": "04-09-2015 03:05 AM",
  "participant": "Requester",
  "processDefId": "crm#3#process1",
  "variable": {
    "status": "approved"
  },
  "activityName": "Send Proposal"
}
```

Processes**web/json/workflow/process/abort/{\*:processId}****Description**

Aborts a running process instance

**User Role**

Admin

**Method**

HTTP POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - Process instance id

**Sample URL**

http://localhost:8080/jw/web/json/workflow/process/abort/208\_crm\_process1

**Sample Result**

```
{ "status": "aborted", "processId": "208_crm_process1" }
```

**web/json/workflow/process/latest/\*:processDefId****Description**

Gets latest Process def Id of a process based on a Process def Id

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processDefId - Process Definition Id (Replace '#' with ':' in the id)

**Sample URL**

http://localhost:8080/jw/web/json/workflow/process/latest/crm:1:process1

**Sample Result**

```
{ "id": "crm#3#process1", "encodedId": "crm:3:process1" }
```

**web/json/workflow/process/list****Description**

Retrieves process list

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- allVersion - (Optional) "yes" to load all versions, "no" to load latest version
- packageId - (Optional) package id (App id)
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page
- checkWhiteList - (Optional true/false) to return the list based on process white list

**Sample URL**

http://localhost:8080/jw/web/json/workflow/process/list

**Sample Result**

```
{
  "total": 3,
  "desc": false,
  "sort": "name",
  "start": 0,
  "data": [{
    "id": "hdc_v1001#1#hdc_certification_process",
    "packageName": "halal certification",
    "name": "HDC Certification Process",
    "packageId": "hdc_v1001",
    "label": "HDC Certification Process ver 1",
    "version": "1"
  }, {
    "id": "mdec_v1002#12#mdec_wpl",
    "packageName": "MDec Work Progress",
    "name": "mdec_wpl",
    "packageId": "mdec_v1002",
    "label": "mdec_wpl ver 12",
    "version": "12"
  }, {
    "id": "mora#5#mora_new_application",
    "packageName": "MORA Halal Certification",
    "name": "MORA New Application",
    "packageId": "mora",
    "label": "MORA New Application ver 5",
    "version": "5"
  }
  ]
}
```

## web/json/workflow/process/list/package

### Description

Retrieve first process with details of every packages

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- checkWhiteList - (Optional) Boolean value to return the list based on process white list

### Sample URL

<http://localhost:8080/jw/web/json/workflow/process/list/package>

### Sample Result

```

{
  "data": [{
    "id": "hr_expense",
    "count": 2,
    "processVersion": "3",
    "packageName": "HR Expenses Claim App",
    "processId": "hr_expense#3#process1",
    "processName": "Expense Approval Process",
    "packageId": "hr_expense",
    "label": "HR Expenses Claim App",
    "url": "/json/workflow/process/list?packageId=hr_expense"
  }, {
    "id": "isr",
    "count": 1,
    "processVersion": "2",
    "packageName": "ISR",
    "processId": "isr#2#isr",
    "processName": "ISR Process",
    "packageId": "isr",
    "label": "ISR",
    "url": "/json/workflow/process/list?packageId=isr"
  }, {
    "id": "hrleave",
    "count": 2,
    "processVersion": "1",
    "packageName": "JINC Leave Solution",
    "processId": "hrleave#1#la",
    "processName": "Leave Application System",
    "packageId": "hrleave",
    "label": "JINC Leave Solution",
    "url": "/json/workflow/process/list?packageId=hrleave"
  }
  ]
}

```

## web/json/workflow/process/start/\*:processDefId

### Description

Starts a process based on process start whitelist

### User Role

Anyone (Including anonymous)

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processDefId - Process Definition Id (Replace '#' with ':' in the id)



#### Obtaining Latest Published Process Version

Instead of specifying `crm:3:process1` in the call, we can use the keyword `latest` in the processDefId - `crm:latest:process1` to automatically set to the published app's process version.

- processInstanceId - (Optional) used to start the previous created but haven't start process instance
- recordId - (Optional) used to start a process instance with existing record
- var\_\* - (Optional) parameters prefixed with "var\_" will be used to set workflow variable

### Sample URL

<http://localhost:8080/jw/web/json/workflow/process/start/crm:3:process1>

### Sample Result

```
{"activityId": "885_224_crm_process1_approve_proposal", "processId": "224_crm_process1"}
```



For "activityId" to be returned, please ensure the "Show The Next Assignment When Completed" is checked under the **Run Process** activity in [Map Activities to Forms](#) tab and the next activity after the start of process is assigned to the same person that starts the process.

## web/json/workflow/process/variable/{\*:processId}/{\*:variable}

### Description

Sets workflow variable of a process instance

### User Role

Admin

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id
- variable - workflow variable name
- value - value of workflow variable to be set

### Sample URL

[http://localhost:8080/jw/web/json/workflow/process/variable/208\\_crm\\_process1/status?value=test](http://localhost:8080/jw/web/json/workflow/process/variable/208_crm_process1/status?value=test)

### Sample Result

```
{"status" : "variableSet"}
```

## web/json/workflow/process/view/{\*:processId}

### Description

Retrieves information of a process definition

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - Process Definition Id (Replace '#' with '.' in the id)

### Sample URL

<http://localhost:8080/jw/web/json/workflow/process/view/crm:3:process1>

### Sample Result

```
{
  "packageName": "CRM",
  "processId": "crm#3#process1",
  "name": "Proposal Approval Process",
  "packageId": "crm",
  "version": "3"
}
```

## web/json/workflow/variable/list/{\*:processId}

### Description

Retrieves all variables of a process instance

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id

### Sample URL

http://localhost:8080/jw/web/json/workflow/variable/list/208\_crm\_process1

### Sample Result

```
{
  "processId": "208_crm_process1",
  "variable": {
    "status": "approved"
  }
}
```

## Monitoring

### web/json/monitoring/activity/abort/{\*:processId}/{\*:activityDefId}

### Description

Aborts an activity of a process instance

### User Role

Admin

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id
- activityDefId - activity definition id

### Sample URL

http://localhost:8080/jw/web/json/monitoring/activity/abort/208\_crm\_process1/send\_proposal

### Sample Result

```
{ "activityDefId": "send_proposal", "status": "aborted", "processId": "208_crm_process1" }
```

### web/json/monitoring/activity/list

### Description

Retrieves a list of all activities

### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - (Optional) process instance id for filtering
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

[http://localhost:8080/jw/web/json/monitoring/activity/list?processId=116\\_hr\\_expense\\_process1](http://localhost:8080/jw/web/json/monitoring/activity/list?processId=116_hr_expense_process1)

#### Sample Result

```
{
  "total": 3,
  "data": [{
    "id": "474_116_hr_expense_process1_approve_claim",
    "serviceLevelMonitor": "-",
    "name": "Approve Claim",
    "state": "open.not_running.not_started",
    "dateCreated": "15-07-2015 02:54 AM"
  }, {
    "id": "472_116_hr_expense_process1_new_claim",
    "serviceLevelMonitor": "-",
    "name": "Edit Claim",
    "state": "closed.completed",
    "dateCreated": "15-07-2015 02:53 AM"
  }, {
    "id": "473_116_hr_expense_process1_tool4",
    "serviceLevelMonitor": "-",
    "name": "Update Record Status to Submitted",
    "state": "closed.completed",
    "dateCreated": "15-07-2015 02:54 AM"
  }
]}
```

## web/json/monitoring/activity/reassign

#### Description

Reassigns a user to replace another user assigned to an assignment

#### User Role

Admin

#### Method

HTTP POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- username - username that will replace the assigned user
- replaceUser - username of an existing assignee of the assignment
- activityId - activity instance id of the assignment

#### Sample URL

[http://localhost:8080/jw/web/json/monitoring/activity/reassign?activityId=841\\_206\\_crm\\_process1\\_send\\_proposal&username=admin&replaceUser=cat](http://localhost:8080/jw/web/json/monitoring/activity/reassign?activityId=841_206_crm_process1_send_proposal&username=admin&replaceUser=cat)

#### Sample Result

```
{ "activityId": "841_206_crm_process1_send_proposal", "username": "admin", "replaceUser": "cat" }
```

## web/json/monitoring/activity/reevaluate

### Description

Reevaluates an activity

### User Role

Admin

### Method

HTTP POST

### Parameters

- activityId - activity instance id to be reevaluate

### Sample URL

[http://localhost:8080/jw/web/json/monitoring/activity/reevaluate?activityId=841\\_206\\_crm\\_process1\\_send\\_proposal](http://localhost:8080/jw/web/json/monitoring/activity/reevaluate?activityId=841_206_crm_process1_send_proposal)

## web/json/monitoring/activity/start/{\*:processId}/{\*:activityDefId}

### Description

Starts an activity in a running process instance

### User Role

Admin

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id
- activityDefId - activity definition id
- abortCurrent - (Optional) true or false value to abort all the running activities in the process instance

### Sample URL

[http://localhost:8080/jw/web/json/monitoring/activity/start/116\\_hr\\_expense\\_process1/verify\\_claim](http://localhost:8080/jw/web/json/monitoring/activity/start/116_hr_expense_process1/verify_claim)

### Sample Result

```
{ "result": true, "activityDefId": "verify_claim", "processId": "116_hr_expense_process1" }
```

## web/json/monitoring/activity/variable/{\*:activityId}/{\*:variable}

### Description

Sets value to a workflow variable to a running activity instance

### User Role

Admin

### Method

HTTP POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id



- variable - workflow variable name
- value - workflow variable value

**Sample URL**

http://localhost:8080/jw/web/json/monitoring/activity/variable/474\_116\_hr\_expense\_process1\_approve\_claim/status?value=test

**Sample Result**

```
{ "status": "variableSet" }
```

**web/json/monitoring/activity/view/{\*:activityId}****Description**

Retrieves information of an activity instance

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- activityId - activity instance id

**Sample URL**

http://localhost:8080/jw/web/json/monitoring/activity/view/474\_116\_hr\_expense\_process1\_approve\_claim

**Sample Result**

```
{
  "processId": "116_hr_expense_process1",
  "serviceLevelMonitor": "-",
  "createdTime": "Wed Jul 15 10:54:10 MYT 2015",
  "processName": "Expense Approval Process",
  "assignee": "admin",
  "activityId": "474_116_hr_expense_process1_approve_claim",
  "activityDefId": "approve_claim",
  "processVersion": "1",
  "processDefId": "hr_expense#1#process1",
  "participant": "approver",
  "finishTime": "",
  "variable": {
    "status": "test"
  },
  "activityName": "Approve Claim",
  "dueDate": ""
}
```

**web/json/monitoring/completed/process/list****Description**

Retrieves a list of all completed process instances

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

- packageId - (Optional) App/ package id
- processId - (Optional) process instance id for filtering
- processName - (Optional) process name for filtering
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/monitoring/completed/process/list?rows=3>

#### Sample Result

```
{
  "total": 74,
  "data": [{
    "id": "133_hr_expense_process1",
    "serviceLevelMonitor": "-",
    "requesterId": "admin",
    "name": "Expense Approval Process",
    "state": "closed.aborted",
    "due": "-",
    "startedTime": "29-07-2015 01:46 AM",
    "version": "2"
  }, {
    "id": "135_crm_process1",
    "serviceLevelMonitor": "-",
    "requesterId": "admin",
    "name": "Proposal Approval Process",
    "state": "closed.aborted",
    "due": "-",
    "startedTime": "04-08-2015 09:28 AM",
    "version": "2"
  }, {
    "id": "136_crm_process1",
    "serviceLevelMonitor": "-",
    "requesterId": "admin",
    "name": "Proposal Approval Process",
    "state": "closed.aborted",
    "due": "-",
    "startedTime": "04-08-2015 09:31 AM",
    "version": "2"
  }
  ]
}
```

#### web/json/monitoring/process/copy/{\*:processId}/{\*:processDefId}

##### Description

Copies the state and workflow variables of a running process instance to start a new process instance

##### User Role

Admin

##### Method

HTTP POST

##### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id
- processDefId - process definition id to start a new process (replace "#" to ":")
- abortCurrent - (Optional) true or false value to abort the current running process instance after start a new process instance

#### Sample URL

[http://localhost:8080/jw/web/json/monitoring/process/copy/116\\_hr\\_expense\\_process1/hr\\_expense:1:process1](http://localhost:8080/jw/web/json/monitoring/process/copy/116_hr_expense_process1/hr_expense:1:process1)

#### Sample Result

```
{
  "processId": "228_hr_expense_process1",
  "processDefId": "hr_expense#1#process1",
  "activities": [ "896_228_hr_expense_process1_approve_claim" ]
}
```

#### web/json/monitoring/process/variable/{\*:processId}/{\*:variable}

**Description**

Sets a value to workflow variable of a process instance

**User Role**

Admin

**Method**

HTTP POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id
- variable - workflow variable name
- value - workflow variable value

**Sample URL**

[http://localhost:8080/jw/web/json/monitoring/process/variable/224\\_crm\\_process1/status?value=test](http://localhost:8080/jw/web/json/monitoring/process/variable/224_crm_process1/status?value=test)

**Sample Result**

```
{ "status": "variableSet" }
```

#### web/json/monitoring/process/view/{\*:processId}

**Description**

Retrieves information of a process instance

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- processId - process instance id

**Sample URL**

[http://localhost:8080/jw/web/json/monitoring/process/view/224\\_crm\\_process1](http://localhost:8080/jw/web/json/monitoring/process/view/224_crm_process1)

**Sample Result**

```
{
  "requester": "admin",
  "serviceLevelMonitor": "-",
  "processId": "224_crm_process1",
  "name": "Proposal Approval Process",
  "finishTime": "",
  "states": ["open.running", "open.running"],
  "packageId": "crm",
  "processDefId": "crm#3#process1",
  "dueDate": "",
  "startedTime": "",
  "version": "3"
}
```

## web/json/monitoring/running/activity/complete

### Description

Completes a running activity

### User Role

Admin

### Method

HTTP POST

### Parameters

- processDefId - process definition id (replace '#' to ':')
- processId - process instance id
- activityId - activity instance id

### Sample URL

[http://localhost:8080/jw/web/json/monitoring/running/activity/complete?processDefId=crm:3:process1&processId=224\\_crm\\_process1&activityId=885\\_224\\_crm\\_process1\\_approve\\_proposal](http://localhost:8080/jw/web/json/monitoring/running/activity/complete?processDefId=crm:3:process1&processId=224_crm_process1&activityId=885_224_crm_process1_approve_proposal)

## web/json/monitoring/running/activity/reassign

### Description

Reassigns a user to replace another user assigned to an assignment

### User Role

Admin

### Method

HTTP POST

### Parameters

- processDefId - process definition id (replace '#' to ':')
- processId - process instance id
- activityId - activity instance id
- username - username that will replace the assigned user
- replaceUser - username of an existing assignee of the assignment

### Sample URL

[http://localhost:8080/jw/web/json/monitoring/running/activity/reassign?processDefId=crm:3:process1&processId=227\\_crm\\_process1&activityId=890\\_227\\_crm\\_process1\\_approve\\_proposal&username=cat&replaceUser=admin](http://localhost:8080/jw/web/json/monitoring/running/activity/reassign?processDefId=crm:3:process1&processId=227_crm_process1&activityId=890_227_crm_process1_approve_proposal&username=cat&replaceUser=admin)

## web/json/monitoring/running/process/list

### Description

Retrieves a list of all running process instances

### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- packageId - (Optional) app/package id
- processId - (Optional) process instance id
- processName - (Optional) process name
- version - (Optional) process version
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

http://localhost:8080/jw/web/json/monitoring/running/process/list?packageId=crm&rows=3

#### Sample Result

```
{
  "total": 16,
  "data": [{
    "id": "118_crm_process1",
    "serviceLevelMonitor": "-",
    "requesterId": "admin",
    "name": "Proposal Approval Process",
    "state": "open.running",
    "due": "-",
    "startedTime": "21-07-2015 03:03 AM",
    "version": "1"
  }, {
    "id": "119_crm_process1",
    "serviceLevelMonitor": "-",
    "requesterId": "admin",
    "name": "Proposal Approval Process",
    "state": "open.running",
    "due": "-",
    "startedTime": "21-07-2015 03:03 AM",
    "version": "1"
  }, {
    "id": "120_crm_process1",
    "serviceLevelMonitor": "-",
    "requesterId": "admin",
    "name": "Proposal Approval Process",
    "state": "open.running",
    "due": "-",
    "startedTime": "21-07-2015 03:03 AM",
    "version": "1"
  }
  ]
}
```

### web/json/monitoring/user/reevaluate

#### Description

Reevaluates all assignments of an user

#### User Role

Admin

#### Method

HTTP POST

#### Parameters

- username - user to be reevaluate

#### Sample URL

http://localhost:8080/jw/web/json/monitoring/User/reevaluate?username=cat

## SLA

### web/json/workflow/activity/sla/list

#### Description

Retrieve first process with details of every packages

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- appld - (Optional) app definition id
- appVersion - (Optional) app definition version
- processDefid - (Optional) process definition id without package id and version

#### Sample URL

http://localhost:8080/jw/web/json/workflow/activity/sla/list?appld=crm

#### Sample Result

```
{
  "total": 3,
  "data": [{
    "ratioOnTime": 100,
    "activityDefId": "approval",
    "serviceLevelMonitor": "<span class=\"dot_green\">&nbsp;</span>",
    "minDelay": 0,
    "ratioWithDelay": 0,
    "maxDelay": 0,
    "activityName": "Approval"
  }, {
    "ratioOnTime": 100,
    "activityDefId": "parallel",
    "serviceLevelMonitor": "<span class=\"dot_green\">&nbsp;</span>",
    "minDelay": 0,
    "ratioWithDelay": 0,
    "maxDelay": 0,
    "activityName": "Parallel"
  }, {
    "ratioOnTime": 100,
    "activityDefId": "routel",
    "serviceLevelMonitor": "<span class=\"dot_green\">&nbsp;</span>",
    "minDelay": 0,
    "ratioWithDelay": 0,
    "maxDelay": 0,
    "activityName": "Route 1"
  }
]}
```

## Audit Trail

### web/json/workflow/audittrail/list

**Description**

Retrieves a list of audit trail

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- dateFrom - (Optional) date start for filtering. Format is yyyy-MM-dd
- dateTo - (Optional) date to for filtering. Format is yyyy-MM-dd
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

<http://localhost:8080/jw/web/json/workflow/audittrail/list?rows=5>

**Sample Result**

```
{
  "total": 3225,
  "data": [{
    "timestamp": "25-06-2015 07:41 AM",
    "message": "Authentication for user admin: true",
    "id": "2c90a1574e29523a014e29aa77590000",
    "username": "anonymousUser",
    "method": "authenticate",
    "clazz": "org.joget.apps.workflow.security.WorkflowAuthenticationProvider"
  }, {
    "timestamp": "25-06-2015 08:41 AM",
    "message": "Authentication for user admin: true",
    "id": "2c90a1574e29e104014e29e178080000",
    "username": "anonymousUser",
    "method": "authenticate",
    "clazz": "org.joget.apps.workflow.security.WorkflowAuthenticationProvider"
  }, {
    "timestamp": "25-06-2015 08:55 AM",
    "message": "testProcess",
    "id": "2c90a1574e29e81c014e29eddb7a0000",
    "username": "admin",
    "method": "processUpload",
    "clazz": "org.joget.workflow.model.service.WorkflowManagerImpl"
  }, {
    "timestamp": "25-06-2015 08:55 AM",
    "message": "50_testProcess_process1",
    "id": "2c90a1574e29e81c014e29eddecf0001",
    "username": "anonymousUser",
    "method": "processCompleted",
    "clazz": "org.joget.workflow.model.service.WorkflowManagerImpl"
  }, {
    "timestamp": "25-06-2015 08:55 AM",
    "message": "50_testProcess_process1",
    "id": "2c90a1574e29e81c014e29edded80002",
    "username": "anonymousUser",
    "method": "processCompleted",
    "clazz": "org.joget.workflow.model.service.WorkflowManagerImpl"
  }
  ]
}
```

## web/json/directory/admin/dept/list

### Description

Retrieves all department

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- orgId - (Optional) organization id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/dept/list>

### Sample Result



```

{
  "total": 7,
  "data": [{
    "id": "D-001",
    "description": "",
    "name": "CEO Office",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }, {
    "id": "D-002",
    "description": "",
    "name": "Human Resource and Admin",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }, {
    "id": "D-003",
    "description": "",
    "name": "Finance",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }, {
    "id": "D-004",
    "description": "",
    "name": "Marketing",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }, {
    "id": "D-005",
    "description": "",
    "name": "Product Development",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }, {
    "id": "D-006",
    "description": "",
    "name": "Training and Consulting",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }, {
    "id": "D-007",
    "description": "",
    "name": "Support and Services",
    "organization.name": "Joget.Org",
    "parent.name": ""
  }
  ]
}

```

## web/json/directory/admin/employment/list

### Description

Retrieves all user with employment details

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- orgId - (Optional) organization id
- deptId - (Optional) department id
- gradeId - (Optional) grade id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)

- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/employment/list?name=j>

#### Sample Result

```
{
  "total": 2,
  "data": [{
    "grade.name": "Managers",
    "user.firstName": "Jack",
    "user.id": "jack",
    "role": null,
    "user.lastName": "Drake",
    "organization.name": "Joget.Org",
    "employeeCode": null,
    "user.username": "jack",
    "department.name": "Training and Consulting"
  }, {
    "grade.name": "Executives",
    "user.firstName": "Julia",
    "user.id": "julia",
    "role": null,
    "user.lastName": "Kapatelis",
    "organization.name": "Joget.Org",
    "employeeCode": null,
    "user.username": "julia",
    "department.name": "Human Resource and Admin"
  }]
}
```

### web/json/directory/admin/employment/noHaveOrganization/list

#### Description

Retrieves all users not belong to any organization

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/employment/noHaveOrganization/list>

#### Sample Result

```
{
  "total": 1,
  "data": {
    "user.firstName": "Admin",
    "user.id": "admin",
    "role": "",
    "user.lastName": "",
    "employeeCode": "",
    "user.username": "admin"
  }
}
```

## web/json/directory/admin/employment/noInDept/list

### Description

Retrieves all users not belong to a department

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/employment/noInDept/list?orgId=ORG-001&deptId=D-003&name=j>

### Sample Result

```
{
  "total": 3,
  "data": [{
    "grade.name": "Executives",
    "user.firstName": "Cat",
    "user.id": "cat",
    "role": "",
    "user.lastName": "Grant",
    "employeeCode": "",
    "user.username": "cat",
    "department.name": "Product Development"
  }, {
    "grade.name": "Managers",
    "user.firstName": "Jack",
    "user.id": "jack",
    "role": null,
    "user.lastName": "Drake",
    "employeeCode": null,
    "user.username": "jack",
    "department.name": "Training and Consulting"
  }, {
    "grade.name": "Executives",
    "user.firstName": "Julia",
    "user.id": "julia",
    "role": null,
    "user.lastName": "Kapatelis",
    "employeeCode": null,
    "user.username": "julia",
    "department.name": "Human Resource and Admin"
  }
  ]
}
```

## web/json/directory/admin/employment/noinGrade/list

### Description

Retrieves all users not belong to a grade

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- orgId - Organization id
- gradeId - Grade id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/employment/noinGrade/list?orgId=ORG-001&gradeId=G-003&name=c>

### Sample Result

```
{
  "total": 3,
  "data": [{
    "grade.name": "Managers",
    "user.firstName": "Clark",
    "user.id": "clark",
    "role": null,
    "user.lastName": "Kent",
    "employeeCode": null,
    "user.username": "clark",
    "department.name": "Product Development"
  }, {
    "grade.name": "Managers",
    "user.firstName": "Jack",
    "user.id": "jack",
    "role": null,
    "user.lastName": "Drake",
    "employeeCode": null,
    "user.username": "jack",
    "department.name": "Training and Consulting"
  }, {
    "grade.name": "Managers",
    "user.firstName": "David",
    "user.id": "david",
    "role": null,
    "user.lastName": "Cain",
    "employeeCode": null,
    "user.username": "david",
    "department.name": "Support and Services"
  }
]
```

## web/json/directory/admin/group/list

### Description

Retrieves all groups

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- orgId - (Optional) organization id for filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/group/list>

### Sample Result

```

{
  "total": 3,
  "data": [{
    "id": "G-001",
    "description": "",
    "name": "Managers",
    "organization.name": ""
  }, {
    "id": "G-002",
    "description": "",
    "name": "CxO",
    "organization.name": ""
  }, {
    "id": "G-003",
    "description": "",
    "name": "hrAdmin",
    "organization.name": ""
  }]
}

```

## web/json/directory/admin/grade/list

### Description

Retrieves all grades

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- orgId - (Optional) Organization Id for filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/grade/list>

### Sample Result

```

{
  "total": 3,
  "data": [{
    "id": "G-001",
    "description": "",
    "name": "Board Members"
  }, {
    "id": "G-002",
    "description": "",
    "name": "Managers"
  }, {
    "id": "G-003",
    "description": "",
    "name": "Executives"
  }]
}

```

## web/json/directory/admin/organization/list

**Description**

Retrieves all organizations

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

<http://localhost:8080/jw/web/json/directory/admin/organization/list>

**Sample Result**

```
{
  "total": 1,
  "data": {
    "id": "ORG-001",
    "description": "",
    "name": "Joget.Org"
  }
}
```

**web/json/directory/admin/subdept/list****Description**

Retrieves all sub department of a department

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- deptId - department id
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

<http://localhost:8080/jw/web/json/directory/admin/subdept/list?deptId=D-001>

**Sample Result**

```
{
  "total": 1,
  "data": {
    "id": "sub",
    "description": "",
    "name": "Sub Department"
  }
}
```

## web/json/directory/admin/user/deptAndGrade/options

### Description

Retrieves all departments and grades in an organization

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- orgId - Organization id

### Sample URL

<http://localhost:8080/jw/web/json/directory/admin/user/deptAndGrade/options?orgId=ORG-001>

### Sample Result



```

{
  "departments": [{
    "id": "",
    "name": "",
    "prefix": ""
  }, {
    "id": "D-001",
    "prefix": "",
    "name": "CEO Office"
  }, {
    "id": "D-003",
    "prefix": "",
    "name": "Finance"
  }, {
    "id": "D-002",
    "prefix": "",
    "name": "Human Resource and Admin"
  }, {
    "id": "D-004",
    "prefix": "",
    "name": "Marketing"
  }, {
    "id": "D-005",
    "prefix": "",
    "name": "Product Development"
  }, {
    "id": "D-007",
    "prefix": "",
    "name": "Support and Services"
  }, {
    "id": "D-006",
    "prefix": "",
    "name": "Training and Consulting"
  }
  ],
  "grades": [{
    "id": "",
    "name": "",
    "prefix": ""
  }, {
    "id": "G-001",
    "name": "Board Members"
  }, {
    "id": "G-003",
    "name": "Executives"
  }, {
    "id": "G-002",
    "name": "Managers"
  }
  ]
}

```

## web/json/directory/admin/user/group/list

### Description

Retrieves the groups that a user is in or not in.

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- userId - Username that a user is in or not in the group
- orgId - (Optional)

- inGroup - (Optional) true or false. default to true
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

http://localhost:8080/jw/web/json/directory/admin/user/group/list?userId=admin

#### Sample Result

```
{
  "total": 1,
  "data": {
    "id": "G-001",
    "description": "",
    "name": "Managers",
    "organization.name": ""
  }
}
```

## web/json/directory/admin/user/list

#### Description

Retrieves a list of users

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- orgId - (Optional) Organization id for filter
- deptId - (Optional) Department id for filter
- gradId - (Optional) Grade id for filter
- groupId - (Optional) Group id for filter
- roleId - (Optional) Role id for filter
- active - (Optional) 1 = active, 0 = not active
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

#### Sample URL

http://localhost:8080/jw/web/json/directory/admin/user/list?groupId=G-002

#### Sample Result

```
{
  "total": 1,
  "data": {
    "id": "terry",
    "lastName": "Berg",
    "username": "terry",
    "email": "",
    "active": "Active",
    "firstName": "Terry"
  }
}
```

## web/json/directory/admin/user/notInGroup/list

**Description**

Retrieves a list of user not in a group

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- name - (Optional) name filter
- groupId - Group id for filter
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

<http://localhost:8080/jw/web/json/directory/admin/user/notInGroup/list?groupId=G-002>

**Sample Result**

```
{
  "total": 4,
  "data": [{
    "id": "admin",
    "lastName": "",
    "username": "admin",
    "email": "",
    "firstName": "Admin"
  }, {
    "id": "cat",
    "lastName": "Grant",
    "username": "cat",
    "email": "owen@joget.org",
    "firstName": "Cat"
  }, {
    "id": "clark",
    "lastName": "Kent",
    "username": "clark",
    "email": "",
    "firstName": "Clark"
  }, {
    "id": "david",
    "lastName": "Cain",
    "username": "david",
    "email": "",
    "firstName": "David"
  }
  ]
}
```

**web/json/directory/user/sso****Description**

To single sign on a user

**User Role**

Anonymous

**Method**

HTTP GET/POST, support HTTP basic authentication

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- j\_username - (Optional) username for login
- j\_password - (Optional) password for login
- hash - (Optional) [Hashed Password](#)

**Sample URL**

[http://localhost:8080/jw/web/json/directory/user/sso?j\\_username=admin&j\\_password=admin](http://localhost:8080/jw/web/json/directory/user/sso?j_username=admin&j_password=admin)

**Sample Result**

```
{ "username": "admin", "isAdmin": "true", "token": "OWASP_CSRFTOKEN=7BKT-GL1V-Y5LR-T3JJ-41W2-JRBL-CCDB-7C03" }
```

## web/json/workflow/currentUsername

**Description**

Retrieves the username of current logged in user

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method

**Sample URL**

<http://localhost:8080/jw/web/json/workflow/currentUsername>

**Sample Result**

```
{ "username": "admin" }
```

## Plugin

### web/json/plugin/list

**Description**

Retrieves a list of plugins

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- className - (Optional) class name of [plugin type abstract class or interface](#)
- start - where rows start from
- rows - number of rows per page

**Sample URL**

<http://localhost:8080/jw/web/json/plugin/list?start=0&rows=5>

**Sample Result**

```

{
  "total": 140,
  "start": 0,
  "data": [{
    "id": "org.joget.plugin.enterprise.AjaxSubForm",
    "description": "AJAX Subform Element",
    "name": "AJAX SubForm",
    "version": "5.0.0"
  }, {
    "id": "org.joget.plugin.enterprise.AdminUserviewPermission",
    "description": "",
    "name": "Is Admin",
    "version": "5.0.0"
  }, {
    "id": "org.joget.plugin.enterprise.AdvancedFormRowDataListBinder",
    "description": "Retrieves data rows from a form table.",
    "name": "Advanced Form Data Binder",
    "version": "5.0.0"
  }, {
    "id": "org.joget.plugin.enterprise.AdvancedGrid",
    "description": "Advanced Grid Element",
    "name": "Advanced Grid",
    "version": "5.0.0"
  }, {
    "id": "org.joget.plugin.enterprise.AnonymousUserviewPermission",
    "description": "",
    "name": "Is Anonymous",
    "version": "5.0.0"
  }
  ]
}

```

## web/json/plugin/listOsgi

### Description

Retrieves a list of OSGI plugins

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- className - (Optional) class name of [plugin type abstract class or interface](#)
- start - where rows start from
- rows - number of rows per page

### Sample URL

<http://localhost:8080/jw/web/json/plugin/listOsgi?start=0&rows=10>

### Sample Result

```

{
  "total": 1,
  "start": 0,
  "data": {
    "id": "test.directory.TestDirectoryManager",
    "description": "Test Directory Manager",
    "name": "Test Directory Manager",
    "version": "1.0.0"
  }
}

```

## web/property/json/getElements

### Description

Retrieves options of plugins based on a [plugin type abstract class or interface](#)

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- classname - class name of [plugin type abstract class or interface](#)

### Sample URL

<http://localhost:8080/jw/web/property/json/getElements?classname=org.joget.plugin.base.DefaultApplicationPlugin>

### Sample Result

```
[{
  "value": "",
  "label": ""
}, {
  "value": "org.joget.apps.app.lib.DatabaseUpdateTool",
  "label": "Database Update Tool"
}, {
  "value": "org.joget.apps.app.lib.EmailTool",
  "label": "Email Tool"
}, {
  "value": "org.joget.apps.app.lib.JsonTool",
  "label": "Json Tool"
}]
```

## web/property/json/getPropertyOptions

### Description

Retrieves the [Plugin Properties Options](#) of a plugin

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- value - Plugin class name

### Sample URL

<http://localhost:8080/jw/web/property/json/getPropertyOptions?value=org.joget.apps.app.lib.BeanShellTool>

### Sample Result

```
[{
  title: 'Configure Bean Shell',
  properties: [{
    name: 'script',
    label: 'Script',
    type: 'codeeditor',
    required: 'True',
    mode: 'java'
  }]
}]
```

## web/property/json/{\*:appld}/(::~version)/getDefaultProperties

### Description

Retrieves the default [Plugin Properties Options](#) of a plugin based on App Definition meta

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- appld - App Definition Id
- version - (Optional) App Definition version
- value - Plugin class name

### Sample URL

<http://localhost:8080/jw/web/property/json/crm/getDefaultProperties?value=org.joget.apps.app.lib.EmailTool>

### Sample Result

```
{
  "host": "smtp.gmail.com",
  "port": "456",
  "security": "SSL",
  "username": "test@gmail.com",
  "password": "test",
  "from": "test@gmail.com",
  "toSpecific": "",
  "toParticipantId": "",
  "cc": "",
  "bcc": "",
  "subject": "",
  "message": "",
  "isHtml": "",
  "formDefId": "",
  "fields": [],
  "files": []
}
```

## web/property/json/{\*:appld}/(::~version)/getPropertyOptions

### Description

Retrieves the [Plugin Properties Options](#) of a plugin with App Definition meta

### User Role

Admin

### Method

HTTP GET/POST

### Parameters

- appld - App Definition Id
- version - (Optional) App Definition version
- value - Plugin class name

### Sample URL

<http://localhost:8080/jw/web/property/json/crm/getPropertyOptions?value=org.joget.apps.app.lib.BeanShellTool>

### Sample Result

```
[{
  title: 'Configure Bean Shell',
  properties: [{
    name: 'script',
    label: 'Script',
    type: 'codeeditor',
    required: 'True',
    mode: 'java'
  }]
}]
```

## System

### web/json/apps/verify

**Description**

Verifies a URL is valid

**User Role**

Admin

**Method**

HTTP HEAD

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- url - URL to test

**Sample URL**

<http://localhost:8080/jw/web/json/apps/verify?url=http%3A%2F%2Fwww.joget.org>

### web/json/console/setting/message/list

**Description**

Retrieves all messages added in [Manage Messages](#)

**User Role**

Admin

**Method**

HTTP GET/POST

**Parameters**

- callback - (Optional) a function (in JavaScript) to call back after invoking this method
- filter - (Optional) string to filter the results
- locale - (Optional) language code to filter the results
- sort - (Optional) column name to be sorted
- desc - (Optional) Boolean value to determine whether to sort by ascending or descending order (true equals to descending)
- start - (Optional) where rows start from
- rows - (Optional) number of rows per page

**Sample URL**

<http://localhost:8080/jw/web/json/console/setting/message/list>

**Sample Result**

```
{ "total": 1, "data": { "message": "", "id": "402880824fb19a77014fb5025ed80002", "locale": "zh_CN", "key": "general.method.label.search" } }
```

### web/json/hash/options

**Description**

Retrieves all available Hash Variable syntax



#### User Role

Admin

#### Method

HTTP GET/POST

#### Sample URL

http://localhost:8080/jw/web/json/hash/options

#### Sample Result

```
[ "assignment.activityDefId", "assignment.activityId", "assignment.activityName", "assignment.assigneeId",
"assignment.processDefId", "assignment.processId",
"assignment.processName", "assignment.processRequesterId", "assignment.processVersion", "currentUser.active",
"currentUser.email", "currentUser.firstName",
"currentUser.lastName", "currentUser.timeZone", "currentUser.username", "date.DAY+INTEGER.FORMAT", "date.DAY-
INTEGER.FORMAT", "date.FORMAT", "date.MONTH+INTEGER.FORMAT",
"date.MONTH-INTEGER.FORMAT", "date.YEAR+INTEGER.FORMAT", "date.YEAR-INTEGER.FORMAT", "envVariable.KEY", "form.
TABLE.COLUMN", "form.TABLE.COLUMN[PRIMARY_KEY]", "i18n.KEY",
"performer.ACTIVITY_DEF_ID.active", "performer.ACTIVITY_DEF_ID.email", "performer.ACTIVITY_DEF_ID.firstName",
"performer.ACTIVITY_DEF_ID.id", "performer.ACTIVITY_DEF_ID.lastName",
"performer.ACTIVITY_DEF_ID.timeZone", "performer.ACTIVITY_DEF_ID.username", "request.characterEncoding",
"request.contextPath", "request.header.NAME", "request.locale",
"request.method", "request.pathInfo", "request.protocol", "request.queryString", "request.remoteAddr", "request.
requestURI", "request.requestURL", "request.requestedSessionId",
"request.scheme", "request.serverName", "request.serverPort", "request.servletPath", "requestParam.KEY", "user.
USERNAME.active", "user.USERNAME.email", "user.USERNAME.firstName",
"user.USERNAME.lastName", "user.USERNAME.timeZone", "variable.KEY" ]
```

### web/json/workflow/testConnection

#### Description

To tests a JDBC connection

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- datasource - Profile name. Not used.
- driver - driver name
- url - connection URL
- user - username
- password - password
- callback - (Optional) a function (in JavaScript) to call back after invoking this method

#### Sample URL

http://localhost:8080/jw/web/json/workflow/testConnection?datasource=default&driver=com.mysql.jdbc.Driver&url=jdbc%3A%2F%2Flocalhost%3A3306%2Fjwdb%3FcharacterEncoding%3DUTF-8&user=root&password=

#### Sample Result

```
{ "success": true, "datasource": "default" }
```

### Form Data API

### web/json/data/form/load/(\*:appld)/(\*:formId)/(\*:primaryKeyValue)

#### Description

Load a specific form record

#### User Role

Admin

#### Method

HTTP GET/POST

#### Parameters

- appld - App definition ID
- formId - Form definition ID
- primaryKeyValue - The primary key value for the form record
- includeSubformData - Optional, set to true to recursively include subform data
- includeReferenceElements - Optional, set to true to include data from reference elements e.g. selectbox, etc.
- flatten - Optional, set to true to flatten data into a one level key-value map

#### Sample URL

[http://localhost:8080/jw/web/json/data/form/load/crm/crm\\_account/001](http://localhost:8080/jw/web/json/data/form/load/crm/crm_account/001)

#### Sample cURL Request

```
curl -v -d "j_username=admin&j_password=admin" "http://localhost:8080/jw/web/json/data/form/load/crm/crm_account/001?includeSubformData=true&includeReferenceElements=true&flatten=true"
```

#### Sample Response

```
{
  "country": "",
  "dateCreated": "27-07-2015 04:26 AM",
  "address": "",
  "accountName": "001",
  "city": "",
  "dateModified": "20-10-2016 04:36 AM",
  "id": "001",
  "state": ""
}
```

### web/json/data/form/store/{\*:appld}/{\*:formId}/{\*:primaryKeyValue}

#### Description

Create or update a form record

#### User Role

Admin

#### Method

HTTP POST

#### Parameters

- appld - App definition ID
- formId - Form definition ID
- primaryKeyValue - The primary key value for the form record

#### Sample URL

[http://localhost:8080/jw/web/json/data/form/store/crm/crm\\_account/001](http://localhost:8080/jw/web/json/data/form/store/crm/crm_account/001)

#### Sample cURL Request

```
curl -v -X POST -d "j_username=admin&j_password=admin&accountName=001%Updated&address=001%20Address"
http://localhost:8080/jw/web/json/data/form/store/crm//crm_account/001
```

or

```
curl -v --header "Authorization: Basic YWRtaW46YWRtaW4=" -F "accountName=001 Updated" -F "address=001 Address"
http://localhost:8080/jw/web/json/data/form/store/crm//crm_account/001
```

#### Sample Response

```
{
  "id": "001"
}
```

#### web/json/data/form/delete/{\*:appld}/{\*:formId}/{\*:primaryKeyValue}

##### Description

Delete an existing form record

##### User Role

Admin

##### Method

HTTP POST

##### Parameters

- appld - App definition ID
- formId - Form definition ID
- primaryKeyValue - The primary key value for the form record

##### Sample URL

[http://localhost:8080/jw/web/json/data/form/delete/crm/crm\\_account/001](http://localhost:8080/jw/web/json/data/form/delete/crm/crm_account/001)

##### Sample cURL Request

```
curl -v -X POST -d "j_username=admin&j_password=admin" http://localhost:8080/jw/web/json/data/form/delete/crm//crm_account/001
```

#### Sample Response

```
{
  "id": "001"
}
```

#### List Data API

#### web/json/data/list/{\*:appld}/{\*:listId}

##### Description

Load records from a specific datalist

##### User Role

Admin

##### Method

HTTP GET/POST

##### Parameters

- appld - App definition ID
- listId - Datalist definition ID
- start - Optional start index (begins at 0)
- rows - Optional number of rows to return
- URL Request Parameter - Optional filters (e.g. `d-5043735-fn_accountName`)

##### Sample URL

[http://localhost:8080/jw/web/json/data/list/crm/crm\\_account\\_list](http://localhost:8080/jw/web/json/data/list/crm/crm_account_list)

##### Sample cURL Request

```
curl -v -d "j_username=admin&j_password=admin" http://localhost:8080/jw/web/json/data/list/crm/crm_account_list?start=0&rows=20&d-5043735-fn_accountName=00
```

#### Sample Response



#### Important Note

The returned attribute "total" will give the the total number of records regardless of the filters applied unless the attribute "Consider filter value when get total size?" is checked in the datalist.

```
{
  "total": 5,
  "data": [{
    "country": "",
    "accountName": "001 Updated",
    "id": "001",
    "state": ""
  }, {
    "country": "",
    "accountName": "002",
    "id": "002",
    "state": ""
  }, {
    "country": "",
    "accountName": "003",
    "id": "003",
    "state": ""
  }]
}
```