



Web Services Guide



1. Rest Services

Including process-based services Workrunner also provides infrastructure services to integrate with other applications.

Infrastructure services can be accessed via **http(s)://<mydomain>.workrunner.io/rest.asmx**

Depending on call style service methods can be called in soap or rest format. If you prefer the use SOAP related WSDL document can be accessed via

http(s)://<mydomain>.workrunner.io/rest.asmx?wsdl

2. Authentication

Infrastructure service calls requires an API Key to execute and get be acquired from system administrator. Some of methods require "logonId" and "logonProvider" parameters to act as user's behalf. Logon provider specifies the registered OpenAuth logon provider. If default Workrunner login system is used can be specified as "Organization". Depending on selected provider logon id can be changes, for example if you use active directory logon id can be specified as Windows logon user.

3. Services

3.1. [GetToken](#)

Generates an authentication token to authorize users later. Generated token can be used to "auth" parameter to authorize users without login requirement.

3.1.1. *Parameters*

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.

3.1.2. Sample Call

Request	<pre>POST http://company.workrunner.io/rest.asmx/getToken HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 80 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization" }</pre>
Response	<pre>HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:10:10 GMT Content-Length: 144 {"d": "41AA3CE3CAFB.....BF8114"}</pre>

3.2. [GetWorklist](#)

Returns the list of work items on user's worklist. Tag parameter specifies the identifier of which list should return.

3.2.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
tag	Worklist identifier. If set to null default inbox is returned.
start	Start number of list. Use 0 to start from beginning.
maxLength	Limit of number of rows in list. Use -1 to get all rows.

3.2.2. Sample Call

Request	<pre> POST http://company.workrunner.io/rest.asmx/getWorklist HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 91 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "tag": null, "start": 0, "maxLength": 30 } </pre>
Response	<pre> HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:15:17 GMT Content-Length: 1245 { "d": [{ "Id": "e5134318-88bd-4a33-b561-4d78380734ce", "Caption": "A new task", "Start": "/Date(1445812020394)/", "End": null, "Instructions": "Please complete.", "State": "Waiting", "Number": 12471 }, { "Id": "796a34c6-fd2e-450e-a2af-8124ea68f8ca", "Caption": "A new other task", "Start": "/Date(1445512843034)/", "End": null, "Instructions": "Please complete.", "State": "Waiting", "Number": 12468 }] } </pre>

3.3. GetWorklistCount

Returns number of records in worklist. You can use this method to specify paging parameters in GetWorkList method.

3.3.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
tag	Worklist identifier. If set to null default inbox is returned.

3.3.2. Sample Call

Request	<pre>POST http://company.workrunner.io/rest.asmx/getWorklistCount HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 91 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "tag": null }</pre>
Response	<pre>HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:15:17 GMT Content-Length: 8 { "d": 50 }</pre>

3.4. GetWorkItem

Gets work item information to display or complete with action.

3.4.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
id	Work item identifier.
readOnly	Set true to fetch work item read only. Default is false.

3.4.2. Sample Call

Request	<pre> POST http://company.workrunner.io/rest.asmx/getWorkItem HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 124 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "id": "e5134318-88bd-4a33-b561-4d78380734ce" } </pre>
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Response	<pre>HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:23:33 GMT Content-Length: 516 { "d": { "Id": "e5134318-88bd-4a33-b561-4d78380734ce", "Caption": "A new task", "Culture": "en-US", "Start": "/Date(1445812020394)/", "End": null, "DeadlineDate": null, "InstanceNumber": 12471, "IsReadOnly": false, "SelectedActionId": null, "Actions": [{ "Id": "2b0aa720-82f8-4a62-b7a1-2389203fa5e7", "Name": "Complete", "Color": "", "BackgroundColor": "", "Order": 1, "Hidden" : false, "RequireComment": false, "ConfirmationMessage": "", "ValidationGroup": "" }, { "Id": "c5350e5c-6e03-4b72-9522-49ab7f849b8a", "Name": "Cancel", "Color": "", "BackgroundColor": "", "Order": 2, "Hidden" : false, "RequireComment": true, "ConfirmationMessage": "", "ValidationGroup": "" }] } }</pre>
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3.5. GetWorkItemData

Gets the xml data of work item.

3.5.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
id	Work item identifier.

3.5.2. Sample Call

Request	<pre>POST http://company.workrunner.io/rest.asmx/getWorkItemData HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 124 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "id": "e5134318-88bd-4a33-b561-4d78380734ce" }</pre>
Response	<pre>HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:23:33 GMT Content-Length: 516 { "d": { "Data": "<xml><poolRoot>.....</poolRoot></xml>", "DataRoot": "poolRoot" } }</pre>

3.6. SelectAction

Selects an action on a work item and returns array of next work item identifiers.

3.6.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
id	Work item identifier.
action	Action identifier.
Data	XML data. Can be null.
comments	User comments

3.6.2. Sample Call

Request	<pre>POST http://company.workrunner.io/rest.asmx/selectAction HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 124 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "id": "e5134318-88bd-4a33-b561-4d78380734ce", "action": "c5350e5c-6e03-4b72-9522-49ab7f849b8a", "data": null }</pre>
Response	<pre>HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:23:33 GMT Content-Length: 516 { "d": ["716F8FCB-98C2-4591-8C43-043D54DEAADA"] }</pre>

3.7. InitiateByProcess

Initiates a new process instance with specified parameters and returns the Id number of work item.

When testing this method with Soap UI, you must include the xml for the data parameter inside <![CDATA[]]>. Ex: <![CDATA[<pool><myField>ABC</myField></pool>]]>

3.7.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
process	Name or Id number of process
task	Name or Id number of task
data	XML data. Can be null.
culture	Culture preference. Can be null.

3.7.2. Sample Call

Request	POST http://company.workrunner.io/rest.asmx/initiateByProcess HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 124 <pre>{ "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "process": "e5134318-88bd-4a33-b561-4d78380734ce", "task": "c5350e5c-6e03-4b72-9522-49ab7f849b8a", "data": "<pool><myField>ABC</myField></pool>" }</pre>
Response	HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:23:33 GMT Content-Length: 516 <pre>{ "d": "716F8FCB-98C2-4591-8C43-043D54DEAADA" }</pre>

3.8. Trigger

Triggers an event for listeners on all processes and returns array of id number of triggered work items. When there is no listener return value is an empty array.

3.8.1. Parameters

Parameter Name	Description
apiKey	Caller system identifier.
logonId	User logon id
logonProvider	User logon provider.
eventName	Name of event
inputData	Event Data in XML can be null.
culture	Culture preference. Can be null.

3.8.2. Sample Call

Request	<pre>POST http://company.workrunner.io/rest.asmx/trigger HTTP/1.1 Content-Type: application/json; charset=utf-8 Host: company.workrunner.io Content-Length: 124 { "apiKey": "xxxx", "logonId": "user@company.com", "logonProvider": "Organization", "eventName" : "myEvent", "data": "<pool><eventParameter>ABC</eventParameter></pool>" }</pre>
Response	<pre>HTTP/1.1 200 OK Cache-Control: private, max-age=0 Content-Type: application/json; charset=utf-8 Date: Mon, 26 Oct 2015 21:23:33 GMT Content-Length: 516 { "d": ["716F8FCB-98C2-4591-8C43-043D54DEAADA"] }</pre>