

Using Webservice Object Referencing Field

In this short tutorial we will show you how to use a Webservice Object Referencing Field type in ConfiForms

We will configure it to show the data from Jira issue And alternatively from a Confluence page. So there will be 2 fields of this type in a form

We are configuring a form with 2 fields, one to point at our confluence and another to point at our Jira instance

Form configuration

ConfiForms Form Definition | formName = myform

ConfiForms (Form View) Registrations Control | restrictions = confluence-administrators

ConfiForms Form Field Definition | fieldName = jiraRef | field...

ConfiForms Form Field Definition | fieldName = pageMetadata | ...

ConfiForms Rules for Field Definition | action = Hide field | field...

Fields

jiraRef	pageMetadata
Edit 'ConfiForms Form Field Definition' Macro Field for ConfiForms dynamic forms Documentation Field name * jiraRef Must be unique within the form and can be alphanumeric (contain only latin symbols and/or numbers, no spaces and umlauts!) Field label * Jira issue reference ☐ Required * Field type Webservice Object Referencing F Webservice connection vertuna-test Select macro Save Cancel	

Service URL

`/rest/api/latest/issue/[entry.jiraRef]`

Your service must return an array of JSON objects (or a single JSON object) in order for this field to work. Or you can specify a root to use (Example: `fieldname.anotherfield`) to navigate to your array of elements.

You can access context variables here: `[entry._user]`, `[entry._now]`, as well as the value for the "ID" field you have mapped, also via `[entry.field_name]` notation (where `field_name` is the name of the field you have put in "ID" mapping parameter, see below)

You can (and should) reference this field's value in your service URL call, using `[entry.fieldname]` notation. The value will be set into the service URL before execution

Field to use as "ID"

`key`

You can navigate using fields in a JSON tree, like: `myfield.anotherfield`. If 'Root to use' parameter is given, then you start your navigation from a given root. You can map multiple values by referencing them via `[entry.field_name]`

Edit 'ConfiForm'

Field for ConfiForm
[Documentation](#)

Field name *

`pageMetadata`

Must be unique within alphanumeric (contain and/or numbers, no sp

Field label *

Page metadata

☐ Required *

Field type

Webservice Objec

Webservice conne

confluence clone

[Select macro](#)

Service URL

/rest/api/cc

Your service r
objects (or a s
for this field to
root to use (E
fieldname.and
array of eleme
You can acces
[entry._user],
value for the '
also via [entry
field_name is
have put in "Il
below)

You can (and
value in your s
[entry.fieldnar
be set into the
execution

Field to u

id

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tree, like: i
use' paran
your navig
map multi
via [entry.]

We also have a Hide Field rule to hide "pageMetadata" as we always want it to show the current page's metadata

The APIs we use return something like this

Jira

// 20210202191810

```
// https://vertuna.atlassian.net/rest/api/latest/issue/TEST-122
```

```
{
  "expand": "renderedFields,names,schema,operations,editmeta,changelog,versionedRepresentations,customfield_10941.
  properties,customfield_10942.properties",
  "id": "16632",
  "self": "https://vertuna.atlassian.net/rest/api/latest/issue/16632",
  "key": "TEST-122",
  "fields": {
    "statuscategorychangedate": "2019-05-29T15:11:54.924+0300",
    "issuetype": {
      "self": "https://vertuna.atlassian.net/rest/api/2/issuetype/10004",
      "id": "10004",
      "description": "A problem which impairs or prevents the functions of the product.",
      "iconUrl": "https://vertuna.atlassian.net/secure/viewavatar?size=medium&avatarId=10303&avatarType=issuetype",
      "name": "Bug",
      "subtask": false,
      "avatarId": 10303
    },
    "timespent": null,
    "project": {
      "self": "https://vertuna.atlassian.net/rest/api/2/project/10200",
      "id": "10200",
      "key": "TEST",
      "name": "Test Project",
      "projectTypeKey": "software",
      "simplified": false,
      "avatarUrls": {
        "48x48": "https://vertuna.atlassian.net/secure/projectavatar?pid=10200&avatarId=10011",
        "24x24": "https://vertuna.atlassian.net/secure/projectavatar?size=small&s=small&pid=10200&avatarId=10011",
        "16x16": "https://vertuna.atlassian.net/secure/projectavatar?size=xsmall&s=xsmall&pid=10200&avatarId=10011",
        "32x32": "https://vertuna.atlassian.net/secure/projectavatar?size=medium&s=medium&pid=10200&avatarId=10011"
      }
    },
    "fixVersions": [
  ],
    "aggregatetimespent": null,
    "resolution": null,
    "customfield_10500": null,
    "customfield_10940": null,
    "customfield_10941": null,
    "customfield_10942": null,
    "customfield_10700": null,
    "customfield_10943": null,
    "customfield_10944": null,
    "customfield_10945": null,
    "customfield_10946": null,
    "resolutiondate": null,
    "workratio": -1,
    "lastViewed": null,
    "watches": {
      "self": "https://vertuna.atlassian.net/rest/api/2/issue/TEST-122/watchers",
      "watchCount": 1,
      "isWatching": true
    },
    "issuerestriction": {
      "issuerestrictions": {
  },
      "shouldDisplay": false
    },
    "created": "2019-05-29T15:11:54.585+0300",
    "priority": {
      "self": "https://vertuna.atlassian.net/rest/api/2/priority/3",
      "iconUrl": "https://vertuna.atlassian.net/images/icons/priorities/medium.svg",
      "name": "Medium",
      "id": "3"
    },
    "customfield_10100": null,
    "customfield_10300": {
```

```
"hasEpicLinkFieldDependency": false,
"showField": false,
"nonEditableReason": {
  "reason": "PLUGIN_LICENSE_ERROR",
  "message": "The Parent Link is only available to Jira Premium users."
},
"labels": [

],
"timeestimate": null,
"aggregatetimeoriginalestimate": null,
"versions": [

],
"customfield_10937": null,
"customfield_10938": [

],
"customfield_10939": null,
"issuelinks": [

],
"assignee": {
  "self": "https://vertuna.atlassian.net/rest/api/2/user?accountId=557058%3A49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6",
  "accountId": "557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6",
  "emailAddress": "sasha@vertuna.com",
  "avatarUrls": {
    "48x48": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/48",
    "24x24": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/24",
    "16x16": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/16",
    "32x32": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/32"
  },
  "displayName": "Alex Medved",
  "active": true,
  "timeZone": "Europe/Tallinn",
  "accountType": "atlassian"
},
"updated": "2019-05-29T15:11:54.585+0300",
"status": {
  "self": "https://vertuna.atlassian.net/rest/api/2/status/10000",
  "description": "",
  "iconUrl": "https://vertuna.atlassian.net/",
  "name": "To Do",
  "id": "10000",
  "statusCategory": {
    "self": "https://vertuna.atlassian.net/rest/api/2/statuscategory/2",
    "id": 2,
    "key": "new",
    "colorName": "blue-gray",
    "name": "To Do"
  }
},
"components": [

],
"timeoriginalestimate": null,
"description": "again",
"customfield_10012": "0|i0020f:",
"timetracking": {

},
"customfield_10600": null,
"customfield_10007": null,
"security": null,
"customfield_10800": null,
"attachment": [
```

```
],
"customfield_10009": null,
"aggregatetimesteetimate": null,
"customfield_10928": null,
"summary": "test me",
"creator": {
"self": "https://vertuna.atlassian.net/rest/api/2/user?accountId=557058%3A49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6",
"accountId": "557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6",
"emailAddress": "sasha@vertuna.com",
"avatarUrls": {
"48x48": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/48",
"24x24": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/24",
"16x16": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/16",
"32x32": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/32"
},
"displayName": "Alex Medved",
"active": true,
"timeZone": "Europe/Tallinn",
"accountType": "atlassian"
},
"subtasks": [

],
"reporter": {
"self": "https://vertuna.atlassian.net/rest/api/2/user?accountId=557058%3A49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6",
"accountId": "557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6",
"emailAddress": "sasha@vertuna.com",
"avatarUrls": {
"48x48": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/48",
"24x24": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/24",
"16x16": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/16",
"32x32": "https://avatar-management--avatars.us-west-2.prod.public.atl-paas.net/557058:49c2eeaf-b72c-4e4d-86a7-97c1a77b50b6/724453b8-04c2-43f6-8315-fa266a2d435a/32"
},
"displayName": "Alex Medved",
"active": true,
"timeZone": "Europe/Tallinn",
"accountType": "atlassian"
},
"aggregateprogress": {
"progress": 0,
"total": 0
},
"customfield_10000": null,
"customfield_10001": null,
"customfield_10200": null,
"customfield_10003": null,
"customfield_10400": "{}",
"customfield_10004": null,
"environment": null,
"duedate": null,
"progress": {
"progress": 0,
"total": 0
},
"votes": {
"self": "https://vertuna.atlassian.net/rest/api/2/issue/TEST-122/votes",
"votes": 0,
"hasVoted": false
},
"comment": {
"comments": [
```

```

],
"self": "https://vertuna.atlassian.net/rest/api/2/issue/16632/comment",
"maxResults": 0,
"total": 0,
"startAt": 0
},
"worklog": {
"startAt": 0,
"maxResults": 20,
"total": 0,
"worklogs": [

]
}
}
}
}

```

Confluence

```

// 20210202191428
// https://wiki.vertuna.com/rest/api/content/70582440

{
  "id": "70582440",
  "type": "page",
  "status": "current",
  "title": "Using Webservice Object Referencing Field",
  "space": {
    "id": 655361,
    "key": "CONFIFORMS",
    "name": "Confiforms",
    "type": "global",
    "_links": {
      "webui": "/display/CONFIFORMS",
      "self": "https://wiki.vertuna.com/rest/api/space/CONFIFORMS"
    }
  },
  "_expandable": {
    "metadata": "",
    "icon": "",
    "description": "",
    "homepage": "/rest/api/content/557060"
  },
  "history": {
    "latest": true,
    "createdBy": {
      "type": "known",
      "username": "sash",
      "userKey": "ff8080814b899f8f014b89a09f260002",
      "profilePicture": {
        "path": "/download/attachments/557058/user-avatar",
        "width": 48,
        "height": 48,
        "isDefault": false
      }
    },
    "displayName": "Alex Medved",
    "_links": {
      "self": "https://wiki.vertuna.com/rest/api/user?key=ff8080814b899f8f014b89a09f260002"
    }
  },
  "_expandable": {
    "status": ""
  }
},
"createdDate": "2021-02-02T19:13:43.073+02:00",
"_links": {
  "self": "https://wiki.vertuna.com/rest/api/content/70582440/history"
},

```

```

    "_expandable": {
      "lastUpdated": "",
      "previousVersion": "",
      "contributors": "",
      "nextVersion": ""
    },
    "version": {
      "by": {
        "type": "known",
        "username": "sash",
        "userKey": "ff8080814b899f8f014b89a09f260002",
        "profilePicture": {
          "path": "/download/attachments/557058/user-avatar",
          "width": 48,
          "height": 48,
          "isDefault": false
        },
        "displayName": "Alex Medved",
        "_links": {
          "self": "https://wiki.vertuna.com/rest/api/user?key=ff8080814b899f8f014b89a09f260002"
        }
      },
      "_expandable": {
        "status": ""
      }
    },
    "when": "2021-02-02T19:13:43.073+02:00",
    "message": "",
    "number": 1,
    "minorEdit": false,
    "hidden": false,
    "_links": {
      "self": "https://wiki.vertuna.com/rest/experimental/content/70582440/version/1"
    },
    "_expandable": {
      "content": "/rest/api/content/70582440"
    }
  },
  "extensions": {
    "position": "none"
  },
  "_links": {
    "webui": "/display/CONFIFORMS/Using+Webservice+Object+Referencing+Field",
    "edit": "/pages/resumedraft.action?draftId=70582440",
    "tinyui": "/x/qAA1B",
    "collection": "/rest/api/content",
    "base": "https://wiki.vertuna.com",
    "context": "",
    "self": "https://wiki.vertuna.com/rest/api/content/70582440"
  },
  "_expandable": {
    "container": "/rest/api/space/CONFIFORMS",
    "metadata": "",
    "operations": "",
    "children": "/rest/api/content/70582440/child",
    "restrictions": "/rest/api/content/70582440/restriction/byOperation",
    "ancestors": "",
    "body": "",
    "descendants": "/rest/api/content/70582440/descendant"
  }
}

```

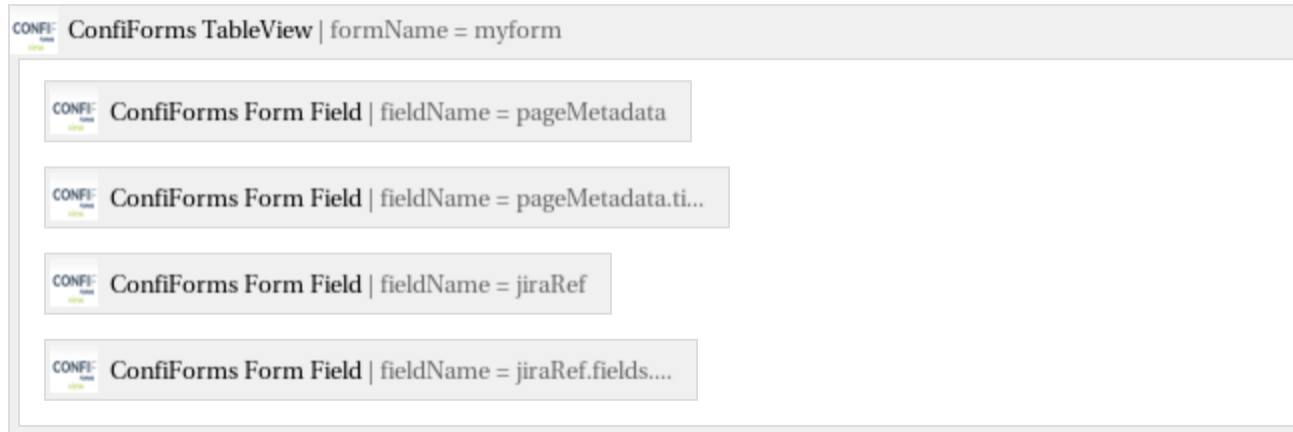
And we want to show the "Page title" and the issue type description for this particular issue, in a table...

Online Demo

Page metadata	Page title	Jira issue reference	Jira issue type description
70582440	Using Webservice Object Referencing Field	JTEST-12	The sub-task of the issue

Build like this

|



And to access "page title" we use the following expression (in the "field name" parameter of the ConfiForms Field macro) to navigate to a desired property:

```
pageMetadata.title
```

And to navigate to Jira issue type description we use

```
jiraRef.fields.issuetype.description
```

Storage format

```

<h1>Form</h1>
<ac:structured-macro ac:macro-id="8513c626-244c-4d2f-a1c6-20fbfce5b366" ac:name="conform" ac:schema-version="1">
  <ac:parameter ac:name="formName">myform</ac:parameter>
  <ac:rich-text-body>
    <ac:structured-macro ac:macro-id="d66e6cc7-51ec-4b0c-8c68-c74a0a2ae0cc" ac:name="conform-entry-register" ac:schema-version="1">
      <ac:parameter ac:name="restrictions">confluence-administrators</ac:parameter>
      <ac:parameter ac:name="atlassian-macro-output-type">INLINE</ac:parameter>
      <ac:rich-text-body>
        <p>
          <br/>
        </p>
      </ac:rich-text-body>
    </ac:structured-macro>
  </ac:rich-text-body>
  <ac:structured-macro ac:macro-id="f2a06e3e-cb74-441b-8c8d-9464178a6887" ac:name="conform-field-definition" ac:schema-version="1">
    <ac:parameter ac:name="mapping">|key|undefined</ac:parameter>
    <ac:parameter ac:name="fieldName">jiraRef</ac:parameter>
    <ac:parameter ac:name="fieldLabel">Jira issue reference</ac:parameter>
    <ac:parameter ac:name="values">/rest/api/latest/issue/[entry.jiraRef]</ac:parameter>
    <ac:parameter ac:name="extras">4bb4c41a51f289a07507d50a1b841a4d</ac:parameter>
    <ac:parameter ac:name="type">objectRef</ac:parameter>
  </ac:structured-macro>
</p>

```

```
<p>
<ac:structured-macro ac:macro-id="d5acc738-3bd8-45d2-9c7c-5bcfef6c2f4f" ac:name="confiorm-field-definition" ac:
schema-version="1">
<ac:parameter ac:name="mapping">|id|undefined</ac:parameter>
<ac:parameter ac:name="fieldName">pageMetadata</ac:parameter>
<ac:parameter ac:name="fieldLabel">Page metadata</ac:parameter>
<ac:parameter ac:name="values">/rest/api/content/[entry._page]</ac:parameter>
<ac:parameter ac:name="extras">cfa616dd12ec3374aa15e100bd9e20be</ac:parameter>
<ac:parameter ac:name="type">objectRef</ac:parameter>
</ac:structured-macro>
</p>
<p>
<ac:structured-macro ac:macro-id="731a46a8-1fa0-4e04-b778-55b0c9d63830" ac:name="confiorm-field-definition-
rules" ac:schema-version="1">
<ac:parameter ac:name="fieldName">pageMetadata</ac:parameter>
<ac:parameter ac:name="action">Hide field</ac:parameter>
</ac:structured-macro>
</p>
</ac:rich-text-body>
</ac:structured-macro>

<h1>Table</h1>
<ac:structured-macro ac:macro-id="2d84b892-01fa-4aa2-b809-bab871188810" ac:name="confiorm-table" ac:schema-
version="1">
<ac:parameter ac:name="formName">myform</ac:parameter>
<ac:rich-text-body>
<p>
<ac:structured-macro ac:macro-id="033f0763-b490-49d4-87b5-d1e92181d9e0" ac:name="confiorm-field" ac:schema-
version="1">
<ac:parameter ac:name="fieldName">pageMetadata</ac:parameter>
</ac:structured-macro>
</p>
<p>
<ac:structured-macro ac:macro-id="25d9ea60-cd04-487b-85e5-0746b9aa7b26" ac:name="confiorm-field" ac:schema-
version="1">
<ac:parameter ac:name="overrideLabel">Page title</ac:parameter>
<ac:parameter ac:name="fieldName">pageMetadata.title</ac:parameter>
</ac:structured-macro>
</p>
<p>
<ac:structured-macro ac:macro-id="70e0d971-8419-4690-945d-02d502eb49fb" ac:name="confiorm-field" ac:schema-
version="1">
<ac:parameter ac:name="fieldName">jiraRef</ac:parameter>
</ac:structured-macro>
</p>
<p>
<ac:structured-macro ac:macro-id="1b4d0a80-e3d8-44ce-ae84-dc5284124648" ac:name="confiorm-field" ac:schema-
version="1">
<ac:parameter ac:name="overrideLabel">Jira issue type description</ac:parameter>
<ac:parameter ac:name="fieldName">jiraRef.fields.issueType.description</ac:parameter>
</ac:structured-macro>
</p>
</ac:rich-text-body>
</ac:structured-macro>
```