

White Paper

Fabasphere Web Services

2025 September Release

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1 Introduction

The Fabasphere provides web services that can be used by third-party applications to execute actions in the Fabasphere. A web service is invoked in context of a user. The authentication is carried out with a “password for applications” that is managed by the user.

2 Password for Applications

The web service is authenticated with a password for applications.

To define a password for applications, perform the following steps:

1. In the Fabasphere Web Client open the account menu (your user name).
2. Click “Advanced Settings” > “Access for Applications”.
3. In the *Passwords for Applications* field click “New”.
4. Define the desired settings and click “Next”.
 - *Description*
The free-text description of the password for application.
 - *Valid for*
The web service (e.g., “Standard Web Services for the Fabasphere”) for which the password should be used.
 - *Validity Period*
After the specified period has expired, the password can no longer be used unless its validity period is extended.
 - *Enable IP Range*
Allows to define an IPv4 address range for which the password for applications is valid. Must be in CIDR notation (e.g., 198.51.100.0/24)
5. Copy the displayed password that can be used for the authentication of the web service.
Note: The password is only displayed once and cannot be displayed again.
6. Click “Close”.

Note: Passwords for applications enable secure access via HTTPS, independent of the user password. The password can be revoked at any time and expires automatically after the defined period if it is not renewed. The password can only be viewed once.

3 Standard Web Services for the Fabasphere

The standard web service encapsulates commonly used operations.

3.1 SOAP and WSDL

You can use SOAP to call the operations listed in the Fabasphere Standard Web Service WSDL.

The WSDL can be retrieved via following URL:

`https://<host>/<vdir>/fscdav/wsdl?WEBSVC=FSCFOLIOCLOUD_1_1001_StandardWebService`

Example:

https://at.cloud.fabasoft.com/folio/fscdav/wsdl?WEBSVC=FSCFOLIOCLOUD_1_1001_StandardWebService

3.2 JSON

The Fabasphere Standard Web Service also supports the JSON format. You can call the operations the following way:

`https://<host>/<vdir>/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/<operation>`

Example:

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/GetCurrentUser

3.3 Available Operations

The Fabasphere Standard Web Service provides following operations:

- `AddObjectRemark`
Adds a remark to an object.
- `CreateChangeSubscription`
Creates a change subscription that is used to inform about changes of objects added to the change subscription.
- `CreateTeamRoom`
Creates a Teamroom with the defined values.
- `CreateTeamRoomInit`
Retrieves the required information (e.g. the list of all organizations of the user) for creating a Teamroom.
- `DeleteChangeSubscription`
Deletes a change subscription.
- `GetChangedObjects`
Returns a list of changed objects since a defined date.
- `GetCurrentUser`
Returns all relevant data for the currently logged in user.
- `GetObjectHistory`
Returns the history of an object.
- `GetObjectRemarks`
Returns all remarks of an object.
- `GetSearchFolderResults`
Returns a list of objects contained in a search folder.
- `SendTeamRoomInvitation`
Sends invitations for the defined Teamroom to all defined users.
- `SendTeamRoomInvitationInit`
Returns a list of users of a Teamroom and the default invitation message for this Teamroom.

More information about the parameters of the operations can be found here (the listed actions are mapped to the corresponding web service operations):

- AddObjectRemark (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_AddObjectRemark)
- CreateChangeSubscription (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_CreateChangeSubscription)
- DeleteChangeSubscription (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_DeleteChangeSubscription)
- GetChangedObjects (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_GetChangedObjects)
- GetCurrentUser (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_GetCurrentUser)
- GetObjectHistory (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_GetObjectHistory)
- GetObjectRemarks (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_GetObjectRemarks)
- GetSearchFolderResults (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowsstdservices.htm#FSCOWSSTDSEVICES_1_1001_GetSearchFolderResults)

3.4 Examples

The following chapters provide some standard web service examples.

3.4.1 GetCurrentUser

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/GetCurrentUser

Example	
Input JSON Object	

Output JSON Object

```
{
  "userdata":{
    "_":"UserData",
    "objaddress":"COO.1.506.1.5553",
    "udfirstname":"Christina",
    "udsurname":"Baumann",
    "udsalutation":"Sehr geehrte Damen und Herren",
    "udorgtxt":"Cloud DataXchange",
    "udemailinformation":[
      {
        "_":"EmailInformation",
        "emailaddress":"baumann@sq.fabasoft.com",
        "addrtopic":{
          "_":"TermComponentObject",
          "objaddress":"COO.1.1001.1.182480",
          "objname":"E-Mail 1"
        }
      }
    ],
    "udfeatures":[
      {
        "_":"UserFeature",
        "uffeatureid":"aspect",
        "ufadditionalfeatureinfo":[
          "FSCFOLIO@1.1001:CMISProperties",
          "FSCFOLIO@1.1001:CMISPropertiesRemarks"
        ]
      },
      {
        "_":"UserFeature",
        "uffeatureid":"basetypefolder",
        "ufadditionalfeatureinfo":[
          "CODESK@1.1:Folder"
        ]
      }
    ],
    "udhomelocation":"https://at.cloud.fabasoft.com/folio",
    "udcountryid":"AT"
  }
}
```

Note: `udcountryid` will return the ISO3166Alpha2 code of the country.

3.4.2 CreateTeamroom

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/createTeamRoomInit

Example

Input JSON Object

Output JSON Object

```
{
  "groups":{
    "_":"Group",
    "objaddress":"COO.1.506.1.8025",
    "objname":"Cloud DataXchange"
  },
}
```

```

    "securitylevels":null,
    "errors":null,
    "enforceprimarygroup":false,
    "preselectprimarygroup":true
  }

```

Note: Retrieves required information such as organizations assigned to the user. Security levels are not used in the Fabasphere. If an organization enforces to be used as primary organization, only that one will be returned and `enforceprimarygroup` will be `true`.

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/CreteTeamRoom

Example

Input JSON Object

As POST request in the document envelope:

```

{
  name:"New Teamroom",
  parent:"COO.1.506.1.7065",
  group:"COO.1.506.1.8025",
  notification:false
}

```

As GET request in the URL as parameter:

?name=New Teamroom&parent=COO.1.506.1.7065&...

Output JSON Object

```

{
  "teamroom":{
    "_":"TeamRoom",
    "objaddress":"COO.1.506.3.11579",
    "objname":"New Teamroom"
  },
  "errors":null
}

```

Note: The name is mandatory. If the parent is empty, the objects will be put on the users' desk. By default the notifications for a new Teamroom are activated.

3.4.3 SendTeamRoomInvitation

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/SendTeamRoomInvitationInit

Example

Input JSON Object

As POST request in the document envelope:

```

{ teamroom:"COO.1.506.3.11579" }

```

As GET request in the URL as parameter:

?teamroom=COO.1.506.3.11579

Output JSON Object

```
{
  "message": "\r\nHello!\r\n\r\nIn order to simplify our collaboration I would
like to invite you to the Fabasphere. In this trusted and reliable environment
we will be able to exchange data and create joint work results.\r\n\r\nBest
regards,\r\nChristina Baumann\r\nCloud DataXchange\r\n",
  "subject": "New Teamroom",
  "notacceptedusers": {
    "_": "JSAPIUser",
    "apiuobjaddress": "COO.1.506.1.5565",
    "apiuobjname": "R\u00fcegg Luca",
    "apiumail": "rueegg@fabasoft.com",
    "apiufirstname": "Luca",
    "apiusurname": "R\u00fcegg"
  },
  "notinitedusers": null,
  "allusers": {
    "_": "JSAPIUser",
    "apiuobjaddress": "COO.1.506.1.5565",
    "apiuobjname": "R\u00fcegg Luca",
    "apiumail": "rueegg@fabasoft.com",
    "apiufirstname": "Luca",
    "apiusurname": "R\u00fcegg"
  },
  "errors": null
}
```

Note: Retrieves required information such as not invited users and users who have not accepted the invitation.

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/StandardTeamRoomInvitation

Example

Input JSON Object

As POST request in the document envelope:

```
{
  teamroom: "COO.1.1.1.1",
  users: [{
    "_": "JSAPIUser",
    "apiuobjaddress": "COO.1.506.1.268",
    "apiufirstname": "William",
    "apiusurname": "Briere",
    "apiuobjname": "Briere William",
    "apiumail": "briere@sq.fabasoft.com"
  }],
  subject: "text",
  message: ["Line 1", "Line 2", "..."]
}
```

Output JSON Object

```
{
  "users": null,
  "errors": null
}
```

Note: The input parameter `users` will be reduced by each successful invitation. Each entry with invalid values or where an error occurred will be returned in the output JSON object as `users`. If no user exists for the entries `apiobjaddress` or `apiumail` a user will be created.

The first name, surname and e-mail address in a user JSON object are mandatory, so that the user can be created, if it does not exist.

The message that is passed is encoded in UTF-8. If this message should contain line breaks, every line is a single entry in the message text list.

3.4.4 TeamRoomInvitations

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/TeamRoomInvitations

Example	
Input JSON Object	

Output JSON Object	
<pre>{ "amount":1, "pendinginvitations":{ "_":"TeamRoomInvitation", "objaddress":"COO.1.506.3.11649", "objname":"Marketing", "issuer":"Baumann Christina", "invitationtime":"2015-08-21T12:16:38+02:00" } }</pre>	

3.4.5 RespondInvitation

https://at.cloud.fabasoft.com/folio/wsjson/FSCFOLIOCLOUD_1_1001_StandardWebService/RespondInvitation

Example	
Input JSON Object	
As POST request in the document envelope: <pre>{ context:"COO.1.1001.1.324322", teamroom:"COO.1.506.3.11579" }</pre>	
As GET request in the URL as parameter: <code>?teamroom=COO.1.506.3.11579</code>	
Output JSON Object	
<pre>{ "result":{ "_":"TeamRoom", "objaddress":"COO.1.506.3.11649", "objname":"Marketing" } }</pre>	

```
},  
"errors":null  
}
```

Note: The context may be COO.1.1001.1.324322 (accept) or COO.1.1001.1.324317 (refuse).

4 Workflow

The workflow web service provides following operations:

- `GetWorklistAvailableLists`
Returns all non-empty lists of the worklist with reference and name.
- `GetWorklist`
Returns the work list entries of the list defined by the `reference` parameter.
- `GetWorklistEntry`
Returns a work list entry defined by the `obj` parameter.
- `GetWorkItems`
Returns the work items for a work list entry defined by the `obj` parameter.
- `ExecuteWorkItem`
Executes a work item.

Example

https://at.cloud.fabasoft.com/folio/wsjson/FSCOWSWF_1_1001_WorkflowWebService/GetWorklistAvailableLists

https://at.cloud.fabasoft.com/folio/wsjson/FSCOWSWF_1_1001_WorkflowWebService/GetWorklist?reference=worklisttracking

https://at.cloud.fabasoft.com/folio/wsjson/FSCOWSWF_1_1001_WorkflowWebService/GetWorklistEntry?obj=COO.1.506.2.1431

More information about the parameters of the operations can be found here (the listed actions are mapped to the corresponding web service operations):

- `WSGetWorklistAvailableLists`
(https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowswf.htm#FSCOWSWF_1_1001_WSGetWorklistAvailableLists)
- `WSGetWorklist` (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowswf.htm#FSCOWSWF_1_1001_WSGetWorklist)
- `WSGetWorklistEntry`
(https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowswf.htm#FSCOWSWF_1_1001_WSGetWorklistEntry)
- `WSGetWorkItems` (https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowswf.htm#FSCOWSWF_1_1001_WSGetWorkItems)

- WSExecuteWorkItem
(https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscowswf.htm#FSCOWSWF_1_1001_WSExecuteWorkItem)

Customization point:

CPMobileAppMapping (<https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/cp-fscowswf-CPMobileAppMapping.htm>)

5 Organization Management

The organization management web service allows managing members of an organization. The user for calling the web service should be an organization administrator with a defined "Organization Management" password for applications (see chapter 2 "Password for Applications").

5.1 SOAP and WSDL

You can use SOAP to call the operations listed in the organization management web service WSDL.

The WSDL can be retrieved via following URL:

https://<host>/<vdir>/fscdav/wsd1?WEBSVC=FSCFOLIOCLOUD_1_1001_OrganizationWebService

Example:

https://at.cloud.fabasoft.com/folio/fscdav/wsd1?WEBSVC=FSCFOLIOCLOUD_1_1001_OrganizationWebService

5.2 Available Operations

The organization management web service provides following operations:

- UpdateOrganizationMember
Allows creating and updating an organization member.
- ManageOrganizationMembership
Allows changing the membership of a user.
- UpdateOrganizationTeam
Allows creating and updating a team.

More information about the parameters of the operations can be found here (the listed actions are mapped to the corresponding web service operations):

- WSUpdateOrganizationMember
(https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscfoliocloud.htm#FSCFOLIOCLOUD_1_1001_WSUpdateOrganizationMember)
- WSManageOrganizationMembership
(https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documentation/actions-fscfoliocloud.htm#FSCFOLIOCLOUD_1_1001_WSManageOrganizationMembership)

[Documentation/actions-fscfoliocloud.htm#FSCFOLIOCLOUD_1_1001_WSManageOrganizationMembership](#))

- [WSUpdateOrganizationTeam](#)
(https://help.developer.fabasoft.com/index.php?topic=doc/Reference-Documents/actions-fscfoliocloud.htm#FSCFOLIOCLOUD_1_1001_WSUpdateOrganizationTeam)

5.3 Examples

The following chapters provide some organization management web service examples.

5.3.1 UpdateOrganizationMember

Example

SOAP Request

```
<soap:Envelope xmlns:soap="https://www.w3.org/2003/05/soap-envelope"
xmlns:fsc="https://schemas.fabasoft.com/websvc/FSCFOLIOCLOUD_1_1001_OrganizationWe
bService/">
  <soap:Header/>
  <soap:Body>
    <fsc:UpdateOrganizationMember>
      <fsc:data>
        <fsc:FSCFOLIOCLOUD_1_1001_organizationid>COO.1.506.1.9022
        </fsc:FSCFOLIOCLOUD_1_1001_organizationid>
        <fsc:FSCFOLIOCLOUD_1_1001_email>user@example.com
        </fsc:FSCFOLIOCLOUD_1_1001_email>
        <fsc:FSCFOLIOCLOUD_1_1001_title>Dr.
        </fsc:FSCFOLIOCLOUD_1_1001_title>
        <fsc:FSCFOLIO_1_1001_address>
          <fsc:FSCFOLIO_1_1001_Address>
            <fsc:FSCFOLIO_1_1001_addrstreet>Example Street
            </fsc:FSCFOLIO_1_1001_addrstreet>
            <fsc:FSCFOLIO_1_1001_addrzipcode>12345
            </fsc:FSCFOLIO_1_1001_addrzipcode>
            <fsc:FSCFOLIO_1_1001_addrcity>Example City
            </fsc:FSCFOLIO_1_1001_addrcity>
            <fsc:FSCFOLIO_1_1001_addrstate>Example State
            </fsc:FSCFOLIO_1_1001_addrstate>
            <fsc:FSCFOLIO_1_1001_addrcountry>Example Country
            </fsc:FSCFOLIO_1_1001_addrcountry>
            <fsc:FSCFOLIO_1_1001_addrtopic>COO.1.1001.1.182477
            </fsc:FSCFOLIO_1_1001_addrtopic>
          </fsc:FSCFOLIO_1_1001_Address>
        </fsc:FSCFOLIO_1_1001_address>
        <fsc:FSCFOLIOCLOUD_1_1001_overwriteattributes>
          <fsc:string>address</fsc:string>
        </fsc:FSCFOLIOCLOUD_1_1001_overwriteattributes>
      </fsc:data>
    </fsc:UpdateOrganizationMember>
  </soap:Body>
</soap:Envelope>
```

The Fabasphere ID of the organization is used to identify the corresponding organization. The e-mail is used to identify the user to be created or modified. In this example, a title and an address entry will be set for the user. The `overwriteattributes` parameter defines that addresses with the defined address topic `COO.1.1001.1.182477` will be removed and replaced

by the new address entry. If `overwriteattributes` is not defined for `address`, the new address entry will just be added (exception: if the whole address entry does not differ, nothing is done).

5.3.2 ManageOrganizationMembership

Example

SOAP Request

```
<soapenv:Envelope xmlns:soapenv="https://schemas.xmlsoap.org/soap/envelope/"
xmlns:fsc="https://schemas.fabasoft.com/websvc/FSCFOLIOCLOUD_1_1001_OrganizationWe
bService/">
  <soapenv:Header/>
  <soapenv:Body>
    <fsc:ManageOrganizationMembership>
      <fsc:data>
        <fsc:FSCFOLIOCLOUD_1_1001_organizationid>COO.1.506.1.9022
        </fsc:FSCFOLIOCLOUD_1_1001_organizationid>
        <fsc:FSCFOLIOCLOUD_1_1001_email>user@example.com
        </fsc:FSCFOLIOCLOUD_1_1001_email>
        <fsc:FSCFOLIOCLOUD_1_1001_membershiptype>MSC_REMOVEMEMBER
        </fsc:FSCFOLIOCLOUD_1_1001_membershiptype>
        <fsc:FSCFOLIOCLOUD_1_1001_successor>successor@example.com
        </fsc:FSCFOLIOCLOUD_1_1001_successor>
        <fsc:FSCFOLIOCLOUD_1_1001_informmember>0
        </fsc:FSCFOLIOCLOUD_1_1001_informmember>
      </fsc:data>
    </fsc:ManageOrganizationMembership>
  </soapenv:Body>
</soapenv:Envelope>
```

The Fabasphere ID of the organization is used to identify the corresponding organization. The e-mail is used to identify the user whose membership should be changed. In this example, the member is excluded from the defined organization. A successor is specified and the excluded member should not be informed by e-mail.

5.3.3 UpdateOrganizationTeam

Example

SOAP Request

```
<soap:Envelope xmlns:soap="https://www.w3.org/2003/05/soap-envelope"
xmlns:fsc="https://schemas.fabasoft.com/websvc/FSCFOLIOCLOUD_1_1001_OrganizationWe
bService/">
  <soap:Header/>
  <soap:Body>
    <fsc:UpdateOrganizationTeam>
      <fsc:data>
        <fsc:FSCFOLIOCLOUD_1_1001_organizationid>COO.1.506.1.9022
        </fsc:FSCFOLIOCLOUD_1_1001_organizationid>
        <fsc:FSCFOLIOCLOUD_1_1001_teamid>MT
        </fsc:FSCFOLIOCLOUD_1_1001_teamid>
        <fsc:FSCFOLIOCLOUD_1_1001_teamname>My Team
        </fsc:FSCFOLIOCLOUD_1_1001_teamname>
        <fsc:FSCFOLIOCLOUD_1_1001_teammembers>
          <fsc:string>laura.hammond@example.com
          </fsc:string>
          <fsc:string>daniel.porter@example.com
          </fsc:string>
        </fsc:string>
      </fsc:data>
    </fsc:UpdateOrganizationTeam>
  </soap:Body>
</soap:Envelope>
```

```

        </fsc:FSCFOLIOCLOUD_1_1001_teammembers>
        <fsc:FSCFOLIOCLOUD_1_1001_overwriteattributes>
          <fsc:string>teammembers</fsc:string>
        </fsc:FSCFOLIOCLOUD_1_1001_overwriteattributes>
      </fsc:data>
    </fsc:UpdateOrganizationTeam>
  </soap:Body>
</soap:Envelope>

```

The Fabasphere ID of the organization is used to identify the corresponding organization. The team ID is used to identify the team to be created or modified. In this example, the name of the team is set and two members are added. Only existing users can be added. Because `overwriteattributes` is defined for `teammembers`, an update of the team will cause the replacement of all existing members by the two defined members. Otherwise, the defined two members will be added to the exiting list.

6 Contact Management

The contact management web service allows retrieving, creating, updating and deleting contacts.

Note: Retrieve the WSDL to get an overview of the general options. The JSON requests correspond to the SOAP XML requests as you can see in the examples below.

6.1 SOAP and WSDL

The WSDL can be retrieved via following URL:

`https://<host>/<vdir>/fscdav/wsd1?WEBSVC=FSCCONTACTMGMT_1_1001_ContactWebService`

Example:

https://at.cloud.fabasoft.com/folio/fscdav/wsd1?WEBSVC=FSCCONTACTMGMT_1_1001_ContactWebService

6.2 JSON

You can call the operations the following way:

`https://<host>/<vdir>/wsjson/FSCCONTACTMGMT_1_1001_ContactWebService/<operation>`

Example:

https://at.cloud.fabasoft.com/folio/wsjson/FSCCONTACTMGMT_1_1001_ContactWebService/GetContactsByKey

6.3 Available Operations

The contact management web service provides following operations:

- `GetContactsByKey`
Retrieves contacts based on a key (*Import ID* or *Fabasphere ID*). Several contacts can be returned, e.g. in case of several identical import IDs. If more than 100 contacts or contact rooms are found, an error is returned.

- `GetContactsByName`
Retrieves contacts based on a name ("LIKE" search in the *Name* field). Several contacts can be returned, e.g. if the search matches several contact names. If more than 100 contacts or contact rooms are found, an error is returned.
- `UpdateContact`
Creates a new contact or updates an existing one.
- `DeleteContact`
Deletes a contact.

More information about the parameters of the operations can be found here (the listed actions are mapped to the corresponding web service operations):

- `WSGetContactsByKey`
https://help.developer.fabasoft.com/doc/Reference-Documentation/actions-fsccontactmgmt.htm#FSCCONTACTMGMT_1_1001_WSGetContactsByKey
- `WSGetContactsByName`
https://help.developer.fabasoft.com/doc/Reference-Documentation/actions-fsccontactmgmt.htm#FSCCONTACTMGMT_1_1001_WSGetContactsByName
- `WSUpdateContact`
https://help.developer.fabasoft.com/doc/Reference-Documentation/actions-fsccontactmgmt.htm#FSCCONTACTMGMT_1_1001_WSUpdateContact
- `WSDeleteContact`
https://help.developer.fabasoft.com/doc/Reference-Documentation/actions-fsccontactmgmt.htm#FSCCONTACTMGMT_1_1001_WSDeleteContact

6.4 Examples

The following chapters provide several contact management web service examples.

6.4.1 GetContactsByKey

In the following example all contact persons with *Import ID* "P1" of rooms with *Import ID* "Room_A1" of the configuration with *Fabasphere ID* "COO.1.506.2.586" are retrieved.

Note: In any case the *Import ID* or *Fabasphere ID* can be used to identify the objects.

Example

SOAP Request

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:fsc="http://schemas.fabasoft.com/websvc/FSCCONTACTMGMT_1_1001_ContactWebServ
ice/">
  <soap:Header/>
  <soap:Body>
    <fsc:GetContactsByKey>
      <fsc:contactkey>P1</fsc:contactkey>
      <fsc:contactroomkey>Room_A1</fsc:contactroomkey>
      <fsc:contactclass>ContactRoomPerson</fsc:contactclass>
      <fsc:contactconfigkey>COO.1.506.2.586</fsc:contactconfigkey>
    </fsc:GetContactsByKey>
  </soap:Body>
</soap:Envelope>
```



```
</soap:Body>
</soap:Envelope>
```

JSON Request

```
{
  "contactkey": "P1",
  "contactroomkey": "Room_A1",
  "contactclass": "ContactRoomPerson",
  "contactconfigkey": "COO.1.506.2.586"
}
```

6.4.2 GetContactsByName

In the following example all contact persons and organizations with "jones" in the name (case-insensitive) of rooms with *Import ID* "Room_A1" are retrieved.

Example

SOAP Request

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:fsc="http://schemas.fabasoft.com/websvc/FSCCONTACTMGMT_1_1001_ContactWebService/">
  <soap:Header/>
  <soap:Body>
    <fsc:GetContactsByName>
      <fsc:name>Jones</fsc:name>
      <fsc:contactroomkey>Room_A1</fsc:contactroomkey>
      <fsc:contactclass></fsc:contactclass>
      <fsc:contactconfigkey></fsc:contactconfigkey>
    </fsc:GetContactsByName>
  </soap:Body>
</soap:Envelope>
```

JSON Request

```
{
  "name": "Jones",
  "contactroomkey": "Room_A1",
  "contactclass": "",
  "contactconfigkey": ""
}
```

6.4.3 UpdateContact

In the following example a contact person is created or updated (identified by *Import ID* "P1"). In addition to the surname and first name two addresses and two websites are defined.

Note: If `overridekeys` is defined for a property, empty values are considered and in case of lists existing entries are removed. Otherwise, empty values are ignored and new values are added to a list. In this example, the websites property will have the defined two entries (existing entries are removed) and the academic title will be emptied.

A special case are general object class properties (like `objsubject`) and fields of user-defined forms. If you add a user-defined form category (`COOTC_1_1001_objcategory`) to a contact, you can also define the values of the user-defined fields within the `FSCAPPTOOLS_1_1001_additionalfields` block. Within this block the default override keys are not working. You can use `FSCAPPTOOLS_1_1001_ftoverwrite` instead (only works for list

properties). Empty values of single properties are always considered. In the following example the user-defined form category COO.1.506.1.1005845 that provides a string property with programming name UDName and a list property with programming name UDList is assigned to the contact. ftoverwrite is set to true for the list.

Example

SOAP Request

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:fsc="http://schemas.fabasoft.com/websvc/FSCCONTACTMGMT_1_1001_ContactWebServ
ice/">
  <soap:Header/>
  <soap:Body>
    <fsc:UpdateContact>
      <fsc:data>
        <fsc:FSCCONTACTMGMT_1_1001_contactroomid>Room_A1
        </fsc:FSCCONTACTMGMT_1_1001_contactroomid>
        <fsc:FSCCONTACTMGMT_1_1001_contactclassid>ContactRoomPerson
        </fsc:FSCCONTACTMGMT_1_1001_contactclassid>
        <fsc:FSCCONTACTMGMT_1_1001_contactid>P1
        </fsc:FSCCONTACTMGMT_1_1001_contactid>
        <fsc:COOTC_1_1001_objcategory>COO.1.506.1.1005845
        </fsc:COOTC_1_1001_objcategory>
        <fsc:COOSYSTEM_1_1_usersurname>Jones
        </fsc:COOSYSTEM_1_1_usersurname>
        <fsc:COOSYSTEM_1_1_userfirstname>Cadence
        </fsc:COOSYSTEM_1_1_userfirstname>
        <fsc:FSCCONTACTMGMT_1_1001_persacademictitle>
        </fsc:FSCCONTACTMGMT_1_1001_persacademictitle>
        <fsc:FSCFOLIO_1_1001_address>
          <fsc:FSCFOLIO_1_1001_Address>
            <fsc:FSCFOLIO_1_1001_addrstreet>Honauerstr. 4
            </fsc:FSCFOLIO_1_1001_addrstreet>
            <fsc:FSCFOLIO_1_1001_addrzipcode>4020
            </fsc:FSCFOLIO_1_1001_addrzipcode>
            <fsc:FSCFOLIO_1_1001_addrcity>Linz
            </fsc:FSCFOLIO_1_1001_addrcity>
            <fsc:FSCFOLIO_1_1001_addrtopic>COO.1.1001.1.182477
            </fsc:FSCFOLIO_1_1001_addrtopic>
            <fsc:FSCCONTACTMGMT_1_1001_scopecontactroom>COO.1.506.3.2422
            </fsc:FSCCONTACTMGMT_1_1001_scopecontactroom>
          </fsc:FSCFOLIO_1_1001_Address>
          <fsc:FSCFOLIO_1_1001_Address>
            <fsc:FSCFOLIO_1_1001_addrstreet>Hauptplatz 1
            </fsc:FSCFOLIO_1_1001_addrstreet>
            <fsc:FSCFOLIO_1_1001_addrzipcode>4020
            </fsc:FSCFOLIO_1_1001_addrzipcode>
            <fsc:FSCFOLIO_1_1001_addrcity>Linz
            </fsc:FSCFOLIO_1_1001_addrcity>
            <fsc:FSCFOLIO_1_1001_addrtopic>COO.1.1001.1.182478
            </fsc:FSCFOLIO_1_1001_addrtopic>
            <fsc:FSCCONTACTMGMT_1_1001_scopecontactroom>COO.1.506.3.2422
            </fsc:FSCCONTACTMGMT_1_1001_scopecontactroom>
          </fsc:FSCFOLIO_1_1001_Address>
        </fsc:FSCFOLIO_1_1001_address>
        <fsc:FSCFOLIO_1_1001_website>
          <fsc:string>https://www.fabasoft.com</fsc:string>
          <fsc:string>https://www.fabasoft.at</fsc:string>
        </fsc:FSCFOLIO_1_1001_website>
        <fsc:FSCCONTACTMGMT_1_1001_overridekeys>
          <fsc:string>persacademictitle</fsc:string>
          <fsc:string>website</fsc:string>
        </fsc:FSCCONTACTMGMT_1_1001_overridekeys>
        <fsc:FSCAPPTOOLS_1_1001_additionalfields>
```

```

        <fsc:FSCAPPTOOLS_1_1001_FieldType>
        <fsc:FSCAPPTOOLS_1_1001_ftreference>UDName
        </fsc:FSCAPPTOOLS_1_1001_ftreference>
        <fsc:FSCAPPTOOLS_1_1001_ftvalue>
        <fsc:string>User-Defined Name</fsc:string>
        </fsc:FSCAPPTOOLS_1_1001_ftvalue>
    </fsc:FSCAPPTOOLS_1_1001_FieldType>
    <fsc:FSCAPPTOOLS_1_1001_FieldType>
    <fsc:FSCAPPTOOLS_1_1001_ftreference>UDList
    </fsc:FSCAPPTOOLS_1_1001_ftreference>
    <fsc:FSCAPPTOOLS_1_1001_ftvalue>
    <fsc:string>COO.1.30001.1.3139</fsc:string>
    <fsc:string>COO.1.30001.1.3140</fsc:string>
    </fsc:FSCAPPTOOLS_1_1001_ftvalue>
    <fsc:FSCAPPTOOLS_1_1001_ftoverwrite>true
    </fsc:FSCAPPTOOLS_1_1001_ftoverwrite>
    </fsc:FSCAPPTOOLS_1_1001_FieldType>
    </fsc:FSCAPPTOOLS_1_1001_additionalfields>
    </fsc:data>
</fsc:UpdateContact>
</soap:Body>
</soap:Envelope>

```

JSON Request

```

{
  "data": {
    "contactroomid": "Room_A1",
    "contactclassid": "ContactRoomPerson",
    "contactid": "P1",
    "objcategory": "COO.1.506.1.1005845",
    "usersurname": "Jones",
    "userfirstname": "Cadence",
    "persacademictitle": "",
    "address": [
      {
        "addrstreet": "Honauerstr. 4",
        "addrzipcode": 4020,
        "addrcity": "Linz",
        "addrtopic": "COO.1.1001.1.182477",
        "scopecontactroom": "COO.1.506.3.2422"
      },
      {
        "addrstreet": "Hauptplatz 1",
        "addrzipcode": 4020,
        "addrcity": "Linz",
        "addrtopic": "COO.1.1001.1.182478",
        "scopecontactroom": "COO.1.506.3.2422"
      }
    ],
    "website": [
      "https://www.fabasoft.com",
      "https://www.fabasoft.at"
    ],
    "overridekeys": [
      "persacademictitle",
      "website"
    ],
    "additionalfields": [
      {
        "ftreference": "UDName",
        "ftvalue": "User-Defined Name"
      },
      {
        "ftreference": "UDList",
        "ftvalue": [
          "COO.1.30001.1.3139",
          "COO.1.30001.1.3140"
        ]
      }
    ]
  }
}

```

```

    },
    "ftoverwrite": "true"
  }
]
}
}

```

6.4.4 DeleteContact

In the following example the contact with *Import ID* "Contact_C12" of room with *Import ID* "Room_A1" is deleted. If more than one contact is found, an error is returned.

Example

SOAP Request

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:fsc="http://schemas.fabasoft.com/websvc/FSCCONTACTMGMT_1_1001_ContactWebService/">
  <soap:Header/>
  <soap:Body>
    <fsc>DeleteContact>
      <fsc:contactroomid>Room_A1</fsc:contactroomid>
      <fsc:contactid>Contact_C12</fsc:contactid>
    </fsc>DeleteContact>
  </soap:Body>
</soap:Envelope>

```

JSON Request

```

{
  "contactroomid": "Room_A1",
  "contactid": "Contact_C12"
}

```

7 Material Master Data

The material master data web service allows creating and updating materials and price conditions.

Note:

- Retrieve the WSDL to get an overview of the general options. The JSON requests correspond to the SOAP XML requests as you can see in the examples below.
- The shelves are identified either by the *Import ID* or *Fabasphere ID*.
- The materials are identified by the *Material Number* or *Fabasphere ID*.
- The price conditions are identified by the *Price Condition ID* or *Fabasphere ID*.
- The sales organizations are identified by the *Company Code* (the field has to be enabled in the contact management configuration) or *Fabasphere ID*.
- If a property (short reference) is defined in `FSCMATERIALMASTERDATA_1_1001_overridekeys`, empty values are taken over and lists are overwritten.
- The decimal places of a floating point number are separated by a dot.
- `lscode` supports ISO codes like `en`, `de` or `de-at` of available languages.

- `currsymbol` supports all currencies (e.g. EUR or USD) that you can see when defining a currency in the user interface.
- `pcdcalculationrule` supports following integer values;
 - 1: Percentage
 - 2: Fixed Amount
 - 3: Quantity
 - 4: Gross Weight
 - 5: Net Weight
 - 6: Volume
 - 7: Formula
 - 8: Percentage (In Hundred)
 - 9: Percentage (Travel Expenses)
 - 10: Quantity - Monthly Price
 - 11: Quantity - Yearly Price
 - 12: Quantity - Daily Price
 - 13: Quantity - Weekly Price
 - 14: Commodity Price
- `pcdpricescaletype` supports following integer values;
 - 1: No Scale
 - 2: Quantity Scale
- `psdkind` supports following integer values;
 - 1: From Scale
 - 2: To Scale

7.1 SOAP and WSDL

The WSDL can be retrieved via following URL:

```
https://<host>/<vdir>/fscdav/wsd1?WEBSVC=FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService
```

Example:

https://at.cloud.fabasoft.com/folio/fscdav/wsd1?WEBSVC=FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService

7.2 JSON

You can call the operations the following way:

```
https://<host>/<vdir>/wsjson/  
FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService/<operation>
```

Example:

https://at.cloud.fabasoft.com/folio/wsjson/FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService/UpdateMaterial

7.3 Available Operations

The material master data web service provides following operations:

- `GetMaterial`
Retrieves a material.
Note: If several materials with the same material number are found, a list of materials is returned.
- `UpdateMaterial`
Creates a new material or updates an existing one.
- `GetPriceCondition`
Retrieves a price condition.
Note: If several price conditions with the same price condition ID are found, a list of price conditions is returned.
- `UpdatePriceCondition`
Creates a new price condition or updates an existing one.

7.4 Examples

The following chapters provide several contact management web service examples.

7.4.1 GetMaterial

In the following example the material `Mat-16-A` (*Material Number*) is retrieved from the material shelf with *Import ID*_{MR1} that is assigned to the material master data configuration with *Import ID*_{MC1}.

Example

SOAP Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:fsc="http://schemas.fabasoft.com/websvc/
  FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService/">
  <soapenv:Header/>
  <soapenv:Body>
    <fsc:GetMaterial>
      <fsc:materialnumber>Mat-16-A</fsc:materialnumber>
      <fsc:materialroomid>MR1</fsc:materialroomid>
      <fsc:materialconfigid>MC1</fsc:materialconfigid>
    </fsc:GetMaterial>
  </soapenv:Body>
</soapenv:Envelope>
```

JSON Request

```
{
  "materialnumber": "Mat-16-A",
  "materialroomid": "MR1",
```

```

    "materialconfigid": "MC1"
}

```

7.4.2 UpdateMaterial

In the following example the material `Mat-16-A` (*Material Number*) is imported with a German and English name and two sales organizations are assigned. In addition, a quantity unit and an alternative quantity unit with a conversion factor are defined. Note that the properties `mdmaterialname` and `mdownersalesorganization` are defined as override keys. This way the empty value for `mdownersalesorganization` will be considered and the `mdmaterialname` list is overwritten (instead of adding new entries to existing ones).

Example

SOAP Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:fsc="http://schemas.fabasoft.com/websvc/
  FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService/">
  <soapenv:Header/>
  <soapenv:Body>
    <fsc:UpdateMaterial>
      <fsc:data>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdmaterialroomid>MR1
        </fsc:FSCMATERIALMASTERDATA_1_1001_mdmaterialroomid>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdmaterialnumber>Mat-16-A
        </fsc:FSCMATERIALMASTERDATA_1_1001_mdmaterialnumber>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdmaterialname>
          <fsc:FSCOWSSTDSEVICES_1_1001_LangStr>
            <fsc:FSCOWSSTDSEVICES_1_1001_lscode>de
            </fsc:FSCOWSSTDSEVICES_1_1001_lscode>
            <fsc:FSCOWSSTDSEVICES_1_1001_lsstr>Schraube 16-A
            </fsc:FSCOWSSTDSEVICES_1_1001_lsstr>
          </fsc:FSCOWSSTDSEVICES_1_1001_LangStr>
          <fsc:FSCOWSSTDSEVICES_1_1001_LangStr>
            <fsc:FSCOWSSTDSEVICES_1_1001_lscode>en
            </fsc:FSCOWSSTDSEVICES_1_1001_lscode>
            <fsc:FSCOWSSTDSEVICES_1_1001_lsstr>Screw 16-A
            </fsc:FSCOWSSTDSEVICES_1_1001_lsstr>
          </fsc:FSCOWSSTDSEVICES_1_1001_LangStr>
        </fsc:FSCMATERIALMASTERDATA_1_1001_mdmaterialname>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdownersalesorganization>
          </fsc:FSCMATERIALMASTERDATA_1_1001_mdownersalesorganization>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdsalesorganizations>
          <fsc:string>C1242</fsc:string>
          <fsc:string>C3421</fsc:string>
        </fsc:FSCMATERIALMASTERDATA_1_1001_mdsalesorganizations>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdprimaryunitid>ME1
        </fsc:FSCMATERIALMASTERDATA_1_1001_mdprimaryunitid>
        <fsc:FSCMATERIALMASTERDATA_1_1001_mdalternativeunits>
          <fsc:FSCMATERIALMASTERDATA_1_1001_AlternateQuantityUnitData>
            <fsc:FSCMATERIALMASTERDATA_1_1001_aquunitkey>ME2
            </fsc:FSCMATERIALMASTERDATA_1_1001_aquunitkey>
            <fsc:FSCMATERIALMASTERDATA_1_1001_aquconversionfactor>0.1
            </fsc:FSCMATERIALMASTERDATA_1_1001_aquconversionfactor>
          </fsc:FSCMATERIALMASTERDATA_1_1001_AlternateQuantityUnitData>
        </fsc:FSCMATERIALMASTERDATA_1_1001_mdalternativeunits>
        <fsc:FSCMATERIALMASTERDATA_1_1001_overridekeys>
          <fsc:string>mdmaterialname</fsc:string>
          <fsc:string>mdownersalesorganization</fsc:string>
        </fsc:FSCMATERIALMASTERDATA_1_1001_overridekeys>
      </fsc:data>
    </fsc:UpdateMaterial>
  </soapenv:Body>
</soapenv:Envelope>

```

```

    </fsc:UpdateMaterial>
  </soapenv:Body>
</soapenv:Envelope>

```

JSON Request

```

{
  "data": {
    "mdmaterialroomid": "MR1",
    "mdmaterialnumber": "Mat-16-A",
    "mdmaterialname": [
      {
        "lscode": "de",
        "lsstr": "Schraube 16-A"
      },
      {
        "lscode": "en",
        "lsstr": "Screw 16-A"
      }
    ],
    "mdownersalesorganization": null,
    "mdsalesorganizations": [
      "C1242",
      "C3421"
    ],
    "mdprimaryunitid": "ME1",
    "mdalternativeunits": {
      "AlternateQuantityUnitData": {
        "aquunitkey": "ME2",
        "aquconversionfactor": "0.1"
      }
    },
    "overridekeys": [
      "mdmaterialname",
      "mdownersalesorganization"
    ]
  }
}

```

7.4.3 GetPriceCondition

In the following example the price condition `PR-22` (*Price Condition ID*) is retrieved from the price list with *Import ID* `PL1` that is assigned to the material master data configuration with *Import ID* `MC1`.

Example

SOAP Request

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:fsc="http://schemas.fabasoft.com/websvc/
  FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService/">
  <soap:Header/>
  <soap:Body>
    <fsc:GetPriceCondition>
      <fsc:priceconditionid>PR-22</fsc:priceconditionid>
      <fsc:priceconditionroomid>PL1</fsc:priceconditionroomid>
      <fsc:materialconfigid>MC1</fsc:materialconfigid>
    </fsc:GetPriceCondition>
  </soap:Body>
</soap:Envelope>

```

JSON Request


```
{
  "priceconditionid": "PR-22",
  "priceconditionroomid": "PL1",
  "materialconfigid": "MC1"
}
```

7.4.4 UpdatePriceCondition

In the following example the price condition PR-23 (*Price Condition ID*) is imported. The material Mat-16-A (*Material Number*) and the sales organization C1242 (*Company Code*) is assigned. Several prices and the valid period are defined. objvalidfrom is defined as override key, so that an empty value will be considered.

Example

SOAP Request

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:fsc="http://schemas.fabasoft.com/websvc/
  FSCMATERIALMASTERDATA_1_1001_MasterialMasterDataWebService/">
  <soap:Header/>
  <soap:Body>
    <fsc:UpdatePriceCondition>
      <fsc:data>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdpriceconditionroomid>PR1
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdpriceconditionroomid>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdidentification>PR-23
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdidentification>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdmaterialnumber>Mat-16-A
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdmaterialnumber>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdsalesorganization>C1242
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdsalesorganization>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcvalidfrom>2024-06-23
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcvalidfrom>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcvalidto>2025-06-23
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcvalidto>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdpriceunitid>ME1
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdpriceunitid>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdcurrencyamount>
          <fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>EUR
          </fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>
          <fsc:COOSYSTEM_1_1_currvalue>170.5
          </fsc:COOSYSTEM_1_1_currvalue>
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdcurrencyamount>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdcurrencylowerlimit>
          <fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>USD
          </fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>
          <fsc:COOSYSTEM_1_1_currvalue>10
          </fsc:COOSYSTEM_1_1_currvalue>
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdcurrencylowerlimit>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdcurrencyupperlimit>
          <fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>USD
          </fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>
          <fsc:COOSYSTEM_1_1_currvalue>200
          </fsc:COOSYSTEM_1_1_currvalue>
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdcurrencyupperlimit>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdcalculationrule>5
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdcalculationrule>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdpricescaletype>2
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdpricescaletype>
        <fsc:FSCMATERIALMASTERDATA_1_1001_pcdpricescale>
          <fsc:FSCMATERIALMASTERDATA_1_1001_psdkind>2
          </fsc:FSCMATERIALMASTERDATA_1_1001_psdkind>
        </fsc:FSCMATERIALMASTERDATA_1_1001_pcdpricescale>
      </fsc:data>
    </fsc:UpdatePriceCondition>
  </soap:Body>
</soap:Envelope>
```

```

        <fsc:FSCMATERIALMASTERDATA_1_1001_psdentries>
          <fsc:FSCMATERIALMASTERDATA_1_1001_PriceScaleEntryData>
            <fsc:FSCMATERIALMASTERDATA_1_1001_psedquantity>100
            </fsc:FSCMATERIALMASTERDATA_1_1001_psedquantity>
            <fsc:FSCMATERIALMASTERDATA_1_1001_psedconditionamount>
              <fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>EUR
              </fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>
              <fsc:COOSYSTEM_1_1_currvalue>160
              </fsc:COOSYSTEM_1_1_currvalue>
            </fsc:FSCMATERIALMASTERDATA_1_1001_psedconditionamount>
          </fsc:FSCMATERIALMASTERDATA_1_1001_PriceScaleEntryData>
          <fsc:FSCMATERIALMASTERDATA_1_1001_PriceScaleEntryData>
            <fsc:FSCMATERIALMASTERDATA_1_1001_psedquantity>200
            </fsc:FSCMATERIALMASTERDATA_1_1001_psedquantity>
            <fsc:FSCMATERIALMASTERDATA_1_1001_psedconditionamount>
              <fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>EUR
              </fsc:FSCMATERIALMASTERDATA_1_1001_currsymbol>
              <fsc:COOSYSTEM_1_1_currvalue>140
              </fsc:COOSYSTEM_1_1_currvalue>
            </fsc:FSCMATERIALMASTERDATA_1_1001_psedconditionamount>
          </fsc:FSCMATERIALMASTERDATA_1_1001_PriceScaleEntryData>
        </fsc:FSCMATERIALMASTERDATA_1_1001_psdentries>
      </fsc:FSCMATERIALMASTERDATA_1_1001_pcdpricescale>
      <fsc:FSCMATERIALMASTERDATA_1_1001_overridekeys>
        <fsc:string>objvalidfrom</fsc:string>
      </fsc:FSCMATERIALMASTERDATA_1_1001_overridekeys>
    </fsc:data>
  </fsc:UpdatePriceCondition>
</soap:Body>
</soap:Envelope>

```

JSON Request

```

{
  "data": {
    "pcdpriceconditionroomid": "PR1",
    "pcdidentification": "PR-23",
    "pcdmaterialnumber": "Mat-16-A",
    "pcdsalesorganization": "C1242",
    "pcvalidfrom": "2024-06-23",
    "pcvalidto": "2025-06-23",
    "pcdpriceunitid": "ME1",
    "pcdcurrencyamount": {
      "currsymbol": "EUR",
      "currvalue": "170.5"
    },
    "pcdcurrencylowerlimit": {
      "currsymbol": "USD",
      "currvalue": "10"
    },
    "pcdcurrencyupperlimit": {
      "currsymbol": "USD",
      "currvalue": "200"
    },
    "pcdcalculationrule": "5",
    "pcdpricescaletype": "2",
    "pcdpricescale": {
      "psdkind": "2",
      "psdentries": [
        {
          "psedquantity": "100",
          "psedconditionamount": {
            "currsymbol": "EUR",
            "currvalue": "160"
          }
        },
        {
          "psedquantity": "200",

```

```
        "psedconditionamount": {  
            "currsymbol": "EUR",  
            "currvalue": "140"  
        }  
    }  
],  
},  
"overridekeys": [  
    "objvalidfrom"  
]  
}  
}
```