



# **TIBCO® Managed File Transfer Command Center**

## **API Guide**

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# Contents

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|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| <b>Contents</b>                                                      | <b>2</b>  |
| <b>JSON API Introduction</b>                                         | <b>4</b>  |
| URL                                                                  | 4         |
| Examples                                                             | 6         |
| JSON Data Returned                                                   | 7         |
| CSRF_NONCE Validation                                                | 8         |
| gettree                                                              | 8         |
| createdir                                                            | 12        |
| deldir                                                               | 13        |
| delfile                                                              | 14        |
| rename                                                               | 14        |
| <b>MFT REST Calls</b>                                                | <b>16</b> |
| HTTP Methods Used                                                    | 17        |
| Authentication                                                       | 17        |
| REST HTTP Return Codes                                               | 17        |
| Resources Supported by REST                                          | 18        |
| Command Center and Internet Server Administrative (Admin) REST Calls | 18        |
| Command Center Only REST Calls                                       | 34        |
| Internet Transfer REST Calls                                         | 47        |
| <b>MFT File Transfer REST Calls</b>                                  | <b>50</b> |
| Upload a File in Streaming Mode                                      | 50        |
| Download a File in Streaming Mode                                    | 55        |
| Upload a File in Non-Streaming Mode                                  | 58        |
| Download a File in Non-Streaming Mode                                | 59        |
| Internet Server Alias to Alias Transfer                              | 60        |

|                                                        |           |
|--------------------------------------------------------|-----------|
| <b>Creating Customer File Transfer Interface .....</b> | <b>64</b> |
| <b>Warnings for Using Custom Transfers .....</b>       | <b>65</b> |
| <b>TIBCO Documentation and Support Services .....</b>  | <b>66</b> |
| <b>Legal and Third-Party Notices .....</b>             | <b>68</b> |

# JSON API Introduction

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TIBCO® Managed File Transfer Internet Server provides a mechanism for navigating through the directory tree associated with a transfer user. TIBCO MFT Internet Server supports FT (File Transfer) Rest calls, but TIBCO MFT Command Center does not.

After you log in to TIBCO Managed File Transfer (MFT) Internet Server, a program can navigate through the TIBCO MFT Internet Server directory structure using `jsondirtree.jsp`. Parameters are passed to the server in the URL and the data returned is formatted into JSON. Only one level of files and directories is returned for each call.

The `jsondirtree` API is an HTTP servlet call that is used to perform the following tasks:

- List files and folders in a particular path.
- Create a directory.
- Delete a directory.
- Delete a file.
- Rename a file or directory.

**i Note:** To use the `jsondirtree` API to process file structure, you must first log in to the MFT Server and be assigned **TransferRight**. The MFT Server uses basic authentication. Only authorized transfer requests for the authenticated user are allowed by the `jsondirtree` call.

## URL

The JSON API interface is exposed through a standard URL that contains the call methods and parameters provided by TIBCO MFT Internet Server.

To call a JSON API, you have to navigate to the following formatted URL with your browser:

```
https://your.server.com:port/context
/control?view=view/filetransfer/jsondirtree.jsp&action=action
&path=path&dest=dest&org.apache.catalina.filters.CSRF_NONCE=
19BEA97FB025306EED7023F14F620558
```

The following table lists the parameters in the URL:

| Name            | Description                                                                                                                                                                                                                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| your.server.com | IP name or address of the MFT server.                                                                                                                                                                                                                                                                                                                 |
| port            | HTTPS port.<br>If using 443, this parameter is not required.                                                                                                                                                                                                                                                                                          |
| context         | Context of the application.<br>Generally, cfcc is used.                                                                                                                                                                                                                                                                                               |
| action          | Action requested.<br>The supported actions are as follows: <ul style="list-style-type: none"> <li>• gettree: returns an array of files or folders in the defined path.</li> <li>• createdir: creates a folder.</li> <li>• deldir: deletes an empty folder.</li> <li>• defile: deletes a file.</li> <li>• rename: renames a file or folder.</li> </ul> |
| path            | The alias path defined in the transfer definitions for the user. For example, /VirtualAlias1 indicates viewing all files in Virtual Alias1.                                                                                                                                                                                                           |
| dest            | The target file or folder name.<br>This parameter is only used on the rename action.                                                                                                                                                                                                                                                                  |

| Name                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>org.apache.catalina.filters.CSRF_NONCE</code> | The CSRF nonce is used to protect against CSRF attacks. The first <code>jsondirtree</code> call must include no parameters, and it returns a <code>CSRF_NONCE</code> . The <code>CSRF_NONCE</code> must be included in the URL on the next <code>jspondortree</code> call. Each <code>jsondirtree</code> call returns a <code>CSRF_NONCE</code> that must be included on the URL of the next <code>jsondirtree</code> call. |

## Examples

The following table lists the parameters and their sample URLs:

| Parameter              | Sample URLs                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>gettree</code>   | <code>https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&amp;action=gettree&amp;path=/&amp;org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193</code><br><br>or<br><br><code>https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&amp;action=gettree&amp;path=/Dir1/FY2018&amp;org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193</code> |
| <code>createdir</code> | <code>https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&amp;action=createdir&amp;path=/Dir1/FY2018&amp;org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193</code>                                                                                                                                                                                                                |
| <code>deldir</code>    | <code>https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&amp;</code>                                                                                                                                                                                                                                                                                                                                  |

| Parameter | Sample URLs                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | action=deldir&path=/Dir1/FY2018&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193                                                                                                                    |
| delfile   | https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=delfile&path=/Dir1/FY2018/acct.xls&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193                                 |
| rename    | https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=deldir&path=/Dir1/FY2018/file1.txt&dest=/Dir1/FY2013/acct.file1.txt&org.apache.catalina.filters.CSRFNONCE=0BC0207D47896DBF5EEA627EEA716193 |



**Note:** Only the file or directory name of the dest parameter is used. The parent path is ignored.

## JSON Data Returned

Data is returned from the jsondirtree request in JSON format.

The following list shows the returned data:

- Information about the call
- CSRF\_NONCE that should be included in the URL of the next call. For more information about CSRF\_NONCE checking, see the "CSRF\_NONCE Validation" section.
- An array of data describing files and folders returned

To see how this works, you can log in to TIBCO MFT Internet Server and issue the jsondirtree command shown earlier. The browser displays the JSON data returned. You can navigate through the directory tree by updating the path parameter.



**Note:** Additional fields might be returned by JSON and fields that are not documented must be ignored.

## CSRF\_NONCE Validation

MFT has enhanced the security of the JSONDIRTREE by including a check for a CSRF nonce. The check protects jsondirtree requests against CSRF attacks by including a CSRF token (referred to as CSRF\_NONCE) on each request.

Here is how this works: The first jsondirtree request must be run without any parameters. This request does not require a CSRF\_NONCE and returns a CSRF\_NONCE that must be used in the next jsondirtree request.

For example:

<https://localhost:8443/cfcc/control?view=view/filetransfer/jsondirtree.jsp>

This returns an output similar to the following response:

```
{ "vmgrname": "null", "deldir": "N", "errmsg": "\"Unknown action:
null\\\"\", \"changemode\": \"\", \"delfile\": \"N\", \"readfid\": \"\", \"token\": \"-
8923610393526332683\", \"rc\": 1, \"path\": \"\\\", \"writefid\": \"\", \"rename\": \"N\", \"
action\": null, \"create\": \"N\", \"csrftoken\": \"
&org.apache.catalina.filters.CSRF_
NONCE=0BC0207D47896DBF5EEA627EEA716193
\", \"currentmode\": \"\", \"currentcrlf\": \"\" }
```

**i Note:** The CSRF\_NONCE parameter is highlighted in bold. This parameter is the CSRF\_NONCE that must be used on the next jsondirtree request.

[https://localhost:8443/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=gettree&path=/&org.apache.catalina.filters.CSRF\\_NONCE=0BC0207D47896DBF5EEA627EEA716193](https://localhost:8443/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=gettree&path=/&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193)

Each jsondirtree request returns a CSRF\_NONCE. The CSRF\_NONCE must be included in the URL of the next jsondirtree call in the `&org.apache.catalina.filters.CSRF_NONCE=nonceReturnedOnLastCall` format.

## gettree

You can use this method to return an array of files or folders in the defined path.

## Sample URLs

`https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=gettree&path=/&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193`

or

`https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=gettree&path=/Dir1/FY2018&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193`

## Fixed Parameters Returned

The following table lists the data returned:

| Parameter | Description                                                                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "token"   | The token to use for all file transfer requests.<br>It is changed on each request.                                                                                                      |
| "rc"      | The valid values are as follows: <ul style="list-style-type: none"><li>• 0: success.</li><li>• 1: failure.</li></ul>                                                                    |
| "errmsg"  | Message.                                                                                                                                                                                |
| "path"    | The path value sent to the server.<br>Forward slash (/) means the root level.                                                                                                           |
| "action"  | The action requested.                                                                                                                                                                   |
| "defile"  | Defines whether the transfer definition allows a delete file action.<br>The valid values are as follows: <ul style="list-style-type: none"><li>• "Y": yes.</li><li>• "N": no.</li></ul> |

| Parameter     | Description                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "deldir"      | <p>Defines whether the transfer definition allows a delete directory action.</p> <p>The valid values are as follows:</p> <ul style="list-style-type: none"> <li>• "Y": yes.</li> <li>• "N": no.</li> </ul> |
| "rename"      | <p>Defines whether the transfer definition allows a rename action.</p> <p>The valid values are as follows:</p> <ul style="list-style-type: none"> <li>• "Y": yes.</li> <li>• "N": no.</li> </ul>           |
| "create"      | <p>Defines whether the transfer definition allows a create directory action.</p> <p>The valid values are as follows:</p> <ul style="list-style-type: none"> <li>• "Y": yes.</li> <li>• "N": no.</li> </ul> |
| "readfid"     | <p>The download transfer ID associated with this file or folder.</p> <p>This parameter is used when uploading or downloading files.</p>                                                                    |
| "writefid"    | <p>The upload transfer ID associated with this file or folder.</p> <p>This parameter is used when uploading or downloading files.</p>                                                                      |
| "vmgrname"    | This parameter is for internal use only and can be ignored.                                                                                                                                                |
| "changemode"  | This parameter is for internal use only and can be ignored.                                                                                                                                                |
| "currentcrlf" | This parameter is for internal use only and can be ignored.                                                                                                                                                |
| "currentmode" | This parameter is for internal use only and can be ignored.                                                                                                                                                |

## Array of Children Returned

The following table lists the array of children returned:

| Parameter      | Description                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "entries"      | A JSON array for files and folders in the parent directory.<br>There is one entry in the array for each file or folder in the path.                                         |
| "isdir"        | Defines whether the entry is a directory.<br>The valid values are as follows: <ul style="list-style-type: none"> <li>• "Y": yes.</li> <li>• "N": this is a file.</li> </ul> |
| "size"         | The file size when <i>isdir</i> is not equal to "Y" ( <i>isdir</i> != "Y").                                                                                                 |
| "modified"     | The date of last modification: seconds since 1 January 1970.                                                                                                                |
| "name"         | The file or folder name.                                                                                                                                                    |
| "readrestart"  | Defines whether download restart is supported.<br>The valid values are as follows: <ul style="list-style-type: none"> <li>• "Y": yes.</li> <li>• "N": no.</li> </ul>        |
| "writerestart" | Defines whether upload restart is supported.<br>The valid values are as follows: <ul style="list-style-type: none"> <li>• "Y": yes.</li> <li>• "N": no.</li> </ul>          |
| "delfile"      | The parameter echoes information from the root entry.                                                                                                                       |
| "deldir"       | The parameter echoes information from the root entry.                                                                                                                       |
| "rename"       | The parameter echoes information from the root entry.                                                                                                                       |
| "create"       | The parameter echoes information from the root entry.                                                                                                                       |

| Parameter       | Description                                                |
|-----------------|------------------------------------------------------------|
| "readfid"       | The parameter echoes information from the root entry.      |
| "writefid"      | The parameter echoes information from the root entry.      |
| "readcompress"  | The parameter is for internal use only and can be ignored. |
| "writecompress" | The parameter is for internal use only and can be ignored. |
| "remainingpath" | The parameter is for internal use only and can be ignored. |
| "changemode"    | The parameter is for internal use only and can be ignored. |
| "currentmode"   | The parameter is for internal use only and can be ignored. |
| "currentcrlf"   | The parameter is for internal use only and can be ignored. |

## createdir

You can use this method to create a directory in the defined path.

### Sample URL

```
https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=createdir&path=/Dir1/FY2018&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193
```

### Fixed Parameters Returned

The following table lists the parameters returned:

| Parameters | Description                      |
|------------|----------------------------------|
| "rc"       | The valid values are as follows: |

| Parameters | Description                                                                       |
|------------|-----------------------------------------------------------------------------------|
|            | <ul style="list-style-type: none"><li>• 0: success</li><li>• 1: failure</li></ul> |
| "errmsg"   | Message                                                                           |
| "path"     | The path value sent to the server.                                                |
| "action"   | The action requested.                                                             |

## deldir

You can use this method to delete a directory.

### Sample URL

`https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=deldir&path=/Dir1/FY2018&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193`

### Fixed Parameters Returned

The following table lists the parameters returned:

| Parameters | Description                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------------------|
| "rc"       | The valid values are as follows: <ul style="list-style-type: none"><li>• 0: success.</li><li>• 1: failure.</li></ul> |
| "errmsg"   | Message.                                                                                                             |
| "path"     | The path value sent to the server.                                                                                   |

| Parameters | Description           |
|------------|-----------------------|
| "action"   | The action requested. |

## delfile

You can use this method to delete a file.

### Sample URL

`https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=delfile&path=/Dir1/FY2018/acct.xls&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193`

### Fixed Parameters Returned

The following table lists the parameters returned:

| Parameters | Description                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------------------|
| "rc"       | The valid values are as follows: <ul style="list-style-type: none"><li>• 0: success</li><li>• 1: failure</li></ul> |
| "errmsg"   | Message                                                                                                            |
| "path"     | The path value sent to the server.                                                                                 |
| "action"   | The action requested.                                                                                              |

## rename

You can use this method to rename a file or directory.

## Sample URL

`https://mft.acme.com/cfcc/control?view=view/filetransfer/jsondirtree.jsp&action=deldir&path=/Dir1/FY2018/file1.txt&dest=/Dir1/FY2013/acct.file1.txt&org.apache.catalina.filters.CSRF_NONCE=0BC0207D47896DBF5EEA627EEA716193`



**Note:** Only the file or directory name that is part of the "dest" parameter, is used. The parent path is ignored.

## Fixed Parameters Returned

The following table lists the parameters returned:

| Parameters | Description                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------------------|
| "rc"       | The valid values are as follows: <ul style="list-style-type: none"><li>• 0: success.</li><li>• 1: failure.</li></ul> |
| "errmsg"   | Message.                                                                                                             |
| "path"     | The path value sent to the server.                                                                                   |
| "action"   | The action requested.                                                                                                |

# MFT REST Calls

---

MFT supports REST calls for the most common administrative functions.

## API Specification Files And Schema Used For REST Calls

The REST OpenAPI specification files in *MFT-Install/server/webapps/cfcc/public/docs* are as follows:

- *admin.json* - The JSON schema is used for all Admin REST calls supported by Command Center, and Internet Server when the Admin service is enabled.
- *admincc.json* - The JSON schema is used for Command Center REST calls. Internet Server does not support these REST calls.
- *ft.json* - The JSON schema is used for Internet Server File Transfer Rest calls. Command Center does not support these REST calls.

 **Note:** These OpenAPI specification files can be imported in Postman, TIBCO ActiveMatrix BusinessWorks™ 6.4, and Swagger UI. For information on how to configure and run the REST calls, see *TIBCO ActiveMatrix BusinessWorks™ REST Reference*.

Before you use the JSON schemas, update the following line in the JSON files:

```
host : "localhost: 8443"
```

localhost must be changed to the host name of where the calls are run.

8443 must be changed to the HTTP or HTTPS port of where the calls are run.

## Redoc Used for API Documentation

MFT uses Redoc for API documentation.

Documentation for Command Center and Internet Server Administrative (Admin) REST calls can be accessed by clicking the Redoc link, which is at the upper-right corner of each Internet Server or Command Center admin page.

# HTTP Methods Used

MFT uses the following HTTP methods.

| Method | Description                                                  |
|--------|--------------------------------------------------------------|
| GET    | Used to retrieve a record or to search for multiple records. |
| POST   | Used to create an object.                                    |
| PUT    | Used to update an object.                                    |
| DELETE | Used to delete an object.                                    |

There are some calls that do not fit into these categories. For example, PUT is used to stop, start, return status of Transfer Servers.

## Authentication

The basic authentication header should be included in the HTTP parameters. The user ID defined must have authorization to perform the desired function on the resource defined. MFT also supports certificate authentication for REST calls. To do this, you must configure the MFT Server HTTPS connector to request certificates.

**Note:**

- SAML and OIDC authentication is not supported for REST calls.
- When OIDC or SAML is configured, REST users must be configured in an exclusion list so that the users can be used in an HTTPS request without using SAML or OIDC.

## REST HTTP Return Codes

The following table lists the REST HTTP return codes:

| Return Code | Description                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Successful                                                                                                                                                           |
| 201         | Successful Create                                                                                                                                                    |
| 400         | Invalid Parameter                                                                                                                                                    |
| 401         | Invalid Credentials                                                                                                                                                  |
| 403         | Forbidden                                                                                                                                                            |
| 404         | Not Found                                                                                                                                                            |
| 409         | Request Conflict<br><br>This is also a catch-all when an error does not belong to another category. A message is generally returned with a description of the error. |
| 500         | Internal server Error - Unable to process the request                                                                                                                |

## Resources Supported by REST

The resources supported by REST are provided in the following sections:

- [Command Center and Internet Server Administrative \(Admin\) REST Calls](#)
- [Command Center Only Calls](#)
- [Internet Transfer REST Calls](#)

## Command Center and Internet Server Administrative (Admin) REST Calls

The Admin REST calls only work on Command Center or Internet Server when `admin-service-enabled` is true in the `web.xml` file. For information on rights to run an Admin

REST call, see *TIBCO® Managed File Transfer Command Center User Guide* or *TIBCO® Managed File Transfer Internet Server User Guide*.

*MFT-Install/server/webapps/cfcc/public/docs/admin.json*

REST URL: The URLs for the Admin REST calls are as follows:

- Command Center - `https://your.company.com:8443/cfcc/rest/admin/v7/resource/{parameters}`
- Internet Server - `https://your.company.com:7443/cfcc/rest/admin/v7/resource/{parameters}`

where,

| Component                                  | Description                                                  |
|--------------------------------------------|--------------------------------------------------------------|
| <code>https://your.company.com:8443</code> | Defines the protocol, host name, and port                    |
| <code>cfcc</code>                          | Defines the MFT default context                              |
| <code>rest</code>                          | Defines that this is a REST call                             |
| <code>admin</code>                         | Defines that this is an admin REST call                      |
| <code>v7</code>                            | Defines the REST call version                                |
| <code>resource</code>                      | Defines the object of the REST call (like users and servers) |
| <code>parameters</code>                    | Defines the URL files required for the REST call             |

Note that the REST version is used to insulate users from changes in the REST calls. The following REST call versions are supported:

- v2: For MFT 8.2.x
- v3: for MFT 8.3.x
- v4, v4.1, v4.2: for MFT 8.4.x
- v5: for MFT 8.5.x
- v6: for MFT 8.6.x

- v7: for MFT 8.7.x

New MFT releases maintain support for older versions of REST calls.

**i Note:** While the version corresponds with the MFT release number, this may not be the case in future releases.

The following table lists the resource, the HTTP method, the description, and the URL that starts with the resource for some of the major Admin REST calls. For the complete list and their usage, click Redoc on the upper-right corner of the page.

| Resource    | HTTP Method | Description               | URL Resource and Parameters                                                                                                                                                                                                                                                                 |
|-------------|-------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| departments | POST        | Adds departments          | departments                                                                                                                                                                                                                                                                                 |
|             | GET         | Searches departments      | departments                                                                                                                                                                                                                                                                                 |
|             | GET         | Gets a department         | departments/{deptName}                                                                                                                                                                                                                                                                      |
|             | DELETE      | Deletes a department      | departments/{deptName}                                                                                                                                                                                                                                                                      |
|             | PUT         | Updates a department      | departments/{deptName}                                                                                                                                                                                                                                                                      |
| errorEvents | GET         | Searches for error events | /errorevents?initiatingUser=<br><string>&serverHostName=<br><string>&sourceProtocol=<br><string>&destinationServer=<br><string>&destinationProtocol=<br><string>&errorType=<br><string>&searchStartDate=<br><string>&searchStartTime=<br><string>&searchEndDate=<br><string>&searchEndTime= |

| Resource | HTTP Method | Description                                             | URL Resource and Parameters                                                                                                                                       |
|----------|-------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |             |                                                         | <string>&numberOfDays=<string>                                                                                                                                    |
|          | GET         | Retrieves error event details                           | /errorevents/{errorEventId}                                                                                                                                       |
| groups   | POST        | Adds groups                                             | groups                                                                                                                                                            |
|          | GET         | Searches groups                                         | groups?<br>userId=<string>                                                                                                                                        |
|          | GET         | Gets a group                                            | groups/{groupId}                                                                                                                                                  |
|          | DELETE      | Deletes a group                                         | groups/{groupId}                                                                                                                                                  |
|          | PUT         | Updates a group                                         | groups/{groupId}                                                                                                                                                  |
|          | PUT         | Adds a user to a group /<br>removes a user from a group | groups/{groupId}/{userId}                                                                                                                                         |
|          | GET         | Retrieves user IDs assigned<br>to a group               | groups/{groupId}/users                                                                                                                                            |
| isaudits | GET         | Searches Internet Server<br>audit records               | /isaudits?<br>auditId=<br><string>&localTransactionId=<br><string>& clientFileName=<br><string>&serverFileName=<br><string>& serverName=<br><string>&processName= |

| Resource | HTTP Method | Description                       | URL Resource and Parameters                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|-------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |             |                                   | <string>& userData=<br><string>&transferUserId=<br><string>& transferStatus=<br><string>&department=<br><string>& fromDateAndTime=<br><string>&toDateAndTime=<br><string>& noOfDays=<br><string>&recordsReturned=<br><string>&pageNumber=<br><string>&<br>as2MDNStatusSuccess=<br><string>&<br>as2MDNStatusFailure=<br><string>&<br>as2MDNStatusPending=<br><string>& transferId=<br><string>&virtualAlias=<br><string> |
|          | GET         | Gets Internet Server audit record | isaudits/{auditId}                                                                                                                                                                                                                                                                                                                                                                                                      |
|          | DELETE      | Deletes audits by date            | isaudits/date                                                                                                                                                                                                                                                                                                                                                                                                           |
|          | DELETE      | Deletes audits by number of days  | isaudits/days                                                                                                                                                                                                                                                                                                                                                                                                           |
| ldap     | PUT         | Synchronizes a user or an         | ldap                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Resource           | HTTP Method | Description                        | URL Resource and Parameters                                                                                                   |
|--------------------|-------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                    |             | authenticator                      |                                                                                                                               |
| lockout<br>release | PUT         | Releases an invalid login lock (s) | lockoutrelease                                                                                                                |
| mftversion         | GET         | Gets the version                   | mft/version                                                                                                                   |
| pgp<br>publickeys  | POST        | Adds PGP public keys               | pgppublickeys                                                                                                                 |
|                    | GET         | Searches PGP public keys           | pgppublickeys?<br>userServerFlag=<br><string>&status=<br><string>&name=<br><string>&keyId=<br><string>&lastKeyId=<br><string> |
|                    | GET         | Gets a PGP public key              | pgppublickeys/{keyId}                                                                                                         |
|                    | PUT         | Updates a PGP public key           | pgppublickeys/{keyId}                                                                                                         |
|                    | DELETE      | Deletes a PGP public key           | pgppublickeys/{keyId}                                                                                                         |
| pgp<br>systemkeys  | POST        | Adds PGP system key                | pgpsystemkeys                                                                                                                 |

| Resource               | HTTP Method | Description                      | URL Resource and Parameters                                                                                                                           |
|------------------------|-------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | PUT         | Imports a PGP system key         | pgpsystemkeys                                                                                                                                         |
|                        | PUT         | Updates a PGP system key         | pgpsystemkeys/{keyId}                                                                                                                                 |
|                        | GET         | Searches all the PGP system keys | pgpsystemkeys                                                                                                                                         |
|                        | GET         | Gets details of a PGP system key | pgpsystemkeys/{keyId}                                                                                                                                 |
|                        | DELETE      | Removes a PGP system key         | pgpsystemkeys/{keyId}                                                                                                                                 |
| protocol<br>publickeys | POST        | Adds a public key                | protocolpublickeys                                                                                                                                    |
|                        | GET         | Searches public keys             | protocolpublickeys?<br>keyType=<br><string>&userServerFlag=<br><string>& keyStatus=<br><string>&userOrServerName=<br><string>& lastKeyId=<br><string> |
|                        | PUT         | Updates a public key             | protocolpublickeys<br>/{keyType}/{keyId}                                                                                                              |
|                        | DELETE      | Deletes a public key             | protocolpublickeys<br>/{keyType}/{keyId}                                                                                                              |
|                        | GET         | Gets a public key                | protocolpublickeys/                                                                                                                                   |

| Resource               | HTTP Method | Description                               | URL Resource and Parameters                                                                  |
|------------------------|-------------|-------------------------------------------|----------------------------------------------------------------------------------------------|
|                        |             |                                           | {UserServerFlag}/{keyType}/<br>{keyId}                                                       |
|                        | PUT         | Retrieves public keys for a server        | protocolpublickeys/server                                                                    |
| protocol<br>systemkeys | POST        | Adds a protocol system key                | protocolsystemkeys                                                                           |
|                        | PUT         | Imports a protocol system key             | protocolsystemkeys                                                                           |
|                        | GET         | Exports a protocol system key             | protocolsystemkeys/:keyId?<br>serverFileName=<string>&<br>keyType=<string>                   |
|                        | PUT         | Updates a protocol system key             | protocolsystemkeys/{keyType}/<br>{keyId}                                                     |
|                        | GET         | Searches all the protocol system keys     | protocolsystemkeys?<br>keyType=<br><string>&description=<br><string>& lastKeyId=<br><string> |
|                        | GET         | Gets the details of a protocol system key | protocolsystemkeys/{keyType}/<br>{keyId}                                                     |
|                        | DELETE      | Removes a protocol system key             | protocolsystemkeys/{keyType}/<br>{keyId}                                                     |

| Resource           | HTTP Method | Description                                                                                                  | URL Resource and Parameters          |
|--------------------|-------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------|
| roles              | GET         | Gets all roles.<br><br>You must have AdministratorRight, UpdateTransferUserRight to run this call.           | roles                                |
|                    | PUT         | Adds a user to a role / removes a user from a role.                                                          | roles/{userId}                       |
|                    | GET         | Gets roles for a user                                                                                        | roles/{userId}                       |
|                    | GET         | Gets a role.<br><br>You must have AdministratorRight, UpdateTransferUserRight to run this call.              | roles/id/{roleId}                    |
|                    | GET         | Gets all users in a role.<br><br>You must have AdministratorRight, UpdateTransferUserRight to run this call. | roles/users/id/{roleId}              |
| server credentials | POST        | Creates server credentials                                                                                   | servercredentials                    |
|                    | PUT         | Updates server credentials                                                                                   | servercredentials                    |
|                    | DELETE      | Removes server credentials                                                                                   | servercredentials/{userOrGroupType}/ |

| Resource | HTTP Method | Description                        | URL Resource and Parameters                                                                                                                                              |
|----------|-------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |             | from a user                        | {userOrGroupId}/{serverName}                                                                                                                                             |
|          | GET         | Gets server credentials for a user | servercredentials/<br>{userOrGroupType}/<br>{userOrGroupId}/{serverName}                                                                                                 |
|          | GET         | Searches server credentials        | servercredentials?<br>userOrGroupType=<br><string>&userOrGroupId=<br><string>&serverName=<br><string>&remoteUserId=<br><string>&remoteUserWindowsDom<br>ain=<br><string> |
| servers  | POST        | Adds servers                       | servers                                                                                                                                                                  |
|          | GET         | Searches servers                   | servers?<br><br>serverName=<string>&<br><br>ipName=<string>&<br><br>serverType=<string>&<br><br>serverPlatform=<string>&<br><br>department=<string>                      |
|          | PUT         | Updates a server                   | servers/{servername}                                                                                                                                                     |
|          | DELETE      | Deletes a server                   | servers/{servername}                                                                                                                                                     |
|          | GET         | Gets a server                      | servers/{servername}                                                                                                                                                     |

| Resource  | HTTP Method | Description        | URL Resource and Parameters                                                                                                                                     |
|-----------|-------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags      | GET         | Searches tags      | tags?<br>name=<string>&<br>value=<string>&<br>resources=<array of strings>&<br>resourceid=<string>                                                              |
|           | POST        | Add tags           | tags                                                                                                                                                            |
|           | PUT         | Updates a tag      | tags?<br>resource=<string>&<br>resourceid=<string>                                                                                                              |
|           | DELETE      | Deletes a tag      | tags?<br>resource=<string>&<br>resourceid=<string>                                                                                                              |
| transfers | POST        | Adds transfers     | transfers                                                                                                                                                       |
|           | GET         | Searches transfers | transfers?<br>transferId=<string>&<br>serverFileName=<string>&<br>authUserId=<string>&<br>authGroupId=<string>&<br>serverName=<string>&<br>department=<string>& |

| Resource        | HTTP Method | Description                                                                                                                                                                                                                                                                                                  | URL Resource and Parameters                                                                                                                     |
|-----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |             |                                                                                                                                                                                                                                                                                                              | description=< string>&<br>virtualAlias=<string>&<br>expiredFlag=<string>&<br>processName=<string>&<br>userData=<string>&<br>lastFileId=<string> |
|                 | GET         | Lists all transfer definitions of a user                                                                                                                                                                                                                                                                     | users/{userId}/transfers                                                                                                                        |
|                 | GET         | Gets a transfer                                                                                                                                                                                                                                                                                              | transfers/{transferId}                                                                                                                          |
|                 | PUT         | Updates a transfer                                                                                                                                                                                                                                                                                           | transfers/{transferId}                                                                                                                          |
|                 | DELETE      | Deletes a transfer                                                                                                                                                                                                                                                                                           | transfers/{transferId}                                                                                                                          |
|                 | DELETE      | Deletes expired transfers.<br><br>You must have<br>AdministratorRight,<br>UpdateTransferDefinitionR<br>ight to run this call.                                                                                                                                                                                | transfers/expired                                                                                                                               |
| transferservers | PUT         | Provides the status, starts, or<br>stops the transfer server.<br><br><div> <b>Note:</b> The transferservers<br/>             REST call has been<br/>             deprecated. It has been<br/>             replaced by the<br/>             transferserverstatus<br/>             REST call.           </div> | transferservers/{hostname}                                                                                                                      |

| Resource                  | HTTP Method | Description                                     | URL Resource and Parameters           |
|---------------------------|-------------|-------------------------------------------------|---------------------------------------|
| transfer<br>serversconfig | GET         | Retrieves the AS2 transfer server configuration | /tranferserverconfig/as2/{hostName}   |
|                           | PUT         | Updates the AS2 transfer server configuration   | /tranferserverconfig/as2/{hostName}   |
|                           | GET         | Retrieves FTP transfer server configuration     | /tranferserverconfig/ftp/{hostName}   |
|                           | PUT         | Updates FTP transfer server configuration       | /tranferserverconfig/ftp/{hostName}   |
|                           | GET         | Retrieves OFTP2 transfer server configuration   | /tranferserverconfig/oftp2/{hostName} |
|                           | PUT         | Updates OFTP2 transfer server configuration     | /tranferserverconfig/oftp2/{hostName} |
|                           | GET         | Retrieves Platform Server configuration         | /tranferserverconfig/ps/{hostName}    |
|                           | PUT         | Updates Platform Server configuration           | /tranferserverconfig/ps/{hostName}    |
|                           | GET         | Retrieves SSH transfer server configuration.    | /tranferserverconfig/ssh/{hostName}   |
|                           | PUT         | Updates SSH transfer server configuration       | /tranferserverconfig/ssh/{hostName}   |
| transfer                  | PUT         | Provides the status and starts                  | /transferserverstatus/                |

| Resource     | HTTP Method | Description                  | URL Resource and Parameters                                                                                                                                                                                                                                                                                                                                  |
|--------------|-------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| serverstatus |             | or stops the transfer server | {hostname}                                                                                                                                                                                                                                                                                                                                                   |
| users        | POST        | Adds users                   | users                                                                                                                                                                                                                                                                                                                                                        |
|              | GET         | Gets a user                  | users/{userId}                                                                                                                                                                                                                                                                                                                                               |
|              | PUT         | Updates a user               | users/{userId}                                                                                                                                                                                                                                                                                                                                               |
|              | DELETE      | Deletes a user               | users/{userId}                                                                                                                                                                                                                                                                                                                                               |
|              | GET         | Searches users               | users?<br>userId=<string>&<br>FullName=<string>&<br>AssignedRight=<string>&<br>Group=<string>&<br>EmailAddress=<string>&<br>UserType=<string>&<br>Department=<string>&<br>fromExpirationDate=<string>&<br>toExpirationDate=<string>&<br>DisabledUsers=<string>&<br>LockedUsers=<string>&<br>canChangeOwnPassword=<string>&<br>PasswordNeverExpires=<string>& |

| Resource | HTTP Method | Description      | URL Resource and Parameters                      |
|----------|-------------|------------------|--------------------------------------------------|
|          |             |                  | PasswordExpired=<string>&<br>lastUserId=<string> |
|          | PUT         | Changes Password | /user/password                                   |

## Important Guidelines for REST Calls

- **Public Key / PGP Public Key REST Calls:** Enter key data with \r\n characters.  
Example:

```

-----BEGIN CERTIFICATE-----\r\n

MIIBqzCCARSgAwIBAgIGAV8GPboIMA0GCSqGSIb3DQEBBQUAMA8xDTALBgNVBAMMBHR
lc3QwHhcN\r\n

MTcxMDEwMTIyMzQ5WhcNMjIxMDA5MTgzMDAwWjAPMQ0wCwYDVQQDDAR0ZXN0MIGfMA0
GCSqGSIb3\r\n

DQEBAQUAA4GNADCBiQKBgQCD8/xhSXzHHD8D0rRaALRE1l7PwjPKTD3vb1LWSGNMTd1
s/FiC/Yeb\r\n

LD4iZ2dpywhwojqtm4+0eowX/EhhluQQ628o/HV2l9JqpHqt75tNiVhed4YhApzGfpo
TAJGA05q8\r\n

mtN4nhhsyUZRA4tcib5qSyDUQWy6Fd9yAabm+S0B6wIDAQABoxIwEDA0BgNVHQ8BAf8
EBAMCAvQw\r\n

DQYJKoZIhvcNAQEFBQADgYEA VRf7uTZ8MwmA0oc32BcToWj+xQwf+D3pJZ+XrDP/NDM
RcXwimJ0N\r\n

+zcQ07ZqgZ+Hy/PVEKSWb0BEwAZPtNuvJhLnkZtE9rq+TxfDR4wn1zWPKmJKLLuCSdx
NK535xI4n\r\n
F84cED1MC0ZFh5wZdB3VFh8mXchZw9RnPM/kWP2hZls=\r\n
-----END CERTIFICATE-----

```

In TIBCO ActiveMatrix BusinessWorks™, \r\n characters must be replaced with &crLf; character.

- **Search REST Calls:** The wildcard character used for search requests is an asterisk (\*).

- **Search User and Transfer REST Calls:** The search user REST calls return only 100 records at a time. To retrieve the next 100 records, you must set the `lastUserId` parameter to the last user id value that was returned in the previous call. Similarly, for the search transfers rest calls, you must set the `lastFileId` parameter to the last transfer id value that was returned in the previous call.
- **Update Server REST Calls:** You can reset to the default value for the following fields as shown.

| Fields                       | Default Value          | Reset Request               |
|------------------------------|------------------------|-----------------------------|
| <b>FTPKeepAliveInterval</b>  | The default value is 0 | "ftpKeepAliveInterval": ""  |
| <b>ftpPoolingIdleTimeout</b> | The default value is 5 | "ftpPoolingIdleTimeout": "" |
| <b>sshPoolingIdleTimeout</b> | The default value is 5 | "sshPoolingIdleTimeout": "" |

Example:

1. If you want to update the field values to 20, 60, and 60 respectively, enter the request as follows:

```
"ftpKeepAliveInterval": "20"
```

```
"ftpPoolingIdleTimeout": "60"
```

```
"sshPoolingIdleTimeout": "60"
```

2. If you want to reset the fields to their default values, enter the request as follows:

```
"ftpKeepAliveInterval": "",
```

```
"ftpPoolingIdleTimeout": "",
```

```
"sshPoolingIdleTimeout": ""
```



**Note:** The response for the above entries is set to default values only if the value is blank and enclosed between double quotation marks ("").

**Note:**

If you want to reset the values of PPA using the update transfer definition, then you must pass "postActionType1": "NONE" in the update request.

```
{  
  "transferId": "F204K0001807",  
  "postActionType1": "NONE",  
  "postActionType2": "NONE",  
  "postActionType3": "NONE",  
  "postActionType4": "NONE"  
}
```

## Command Center Only REST Calls

MFTCC-Install/server/webapps/cfcc/public/docs/admincc.json

The Command Center REST calls only work on a Command Center. For information on rights to run a Command Center REST call, see the *TIBCO Managed File Transfer Command Center User Guide*.

The URLs for the Command Center REST calls are as follows:

```
https://your.company.com:8443/cfcc/rest/admincc/v7/resource/{parameters}
```

The following table lists the resource, the HTTP method, the description, and the URL that starts with the resource for some of the major Command Center REST calls. For the complete list and their usage, click Redoc on the upper-right corner of the page.

| Resource | HTTP Method | Description                          | URL Resource and Parameters |
|----------|-------------|--------------------------------------|-----------------------------|
| alerts   | GET         | Retrieves login event alert details. | /alerts/login/{alertId}     |

| Resource | HTTP Method | Description                                              | URL Resource and Parameters                                          |
|----------|-------------|----------------------------------------------------------|----------------------------------------------------------------------|
|          | PUT         | Updates an existing login event alert definition.        | /alerts/logon/{alertId}                                              |
|          | POST        | Adds a login event alert.                                | /alerts/logon                                                        |
|          | GET         | Retrieves transfer event alert details.                  | /alerts/transferEvent/{alertId}                                      |
|          | PUT         | Updates an existing transfer event alert definition.     | /alerts/transferEvent/{alertId}                                      |
|          | POST        | Adds a transfer event alert.                             | /alerts/transferEvent                                                |
|          | GET         | Retrieves transfer non-event alert details.              | /alerts/transferNonEvent/{alertId}                                   |
|          | PUT         | Updates an existing transfer non-event alert definition. | /alerts/transferNonEvent/{alertId}                                   |
|          | POST        | Adds a transfer non-event alert.                         | /alerts/transferNonEvent                                             |
|          | GET         | Lists all alerts.                                        | /alerts?transferEvent=<string>&logonEvent=<string>&transferNonEvent= |

| Resource | HTTP Method | Description                                                          | URL Resource and Parameters                                                                                                                                                                                                                                                            |
|----------|-------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |             |                                                                      | <string>&description=<br><string>&severity=<br><string>&enabled=<br><string>&userids=<br><string>&department=<br><string>&transferType=<br><string>&transferStatus=<br><string>&serverName=<br><string>&processName=<br><string>&transferDescription=<br><string>&lastAlertId=<string> |
|          | DEL         | Deletes an alert.                                                    | /alerts/{alertId}                                                                                                                                                                                                                                                                      |
| dni      | POST        | Adds a template to a Platform Server.                                | dni/{psServerName}/{templateName}                                                                                                                                                                                                                                                      |
|          | PUT         | Gets status, start, stop, or update a template of a Platform Server. | dni/{psServerName}/{templateName}                                                                                                                                                                                                                                                      |
|          | GET         | Lists DNI daemons.                                                   | dni                                                                                                                                                                                                                                                                                    |
|          | GET         | Lists templates of a Platform Server.                                | dni/{psServerName}                                                                                                                                                                                                                                                                     |

| Resource | HTTP Method | Description                                | URL Resource and Parameters                                                                                                                                                                                                                                                                               |
|----------|-------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | GET         | Gets a template of a Platform Server.      | dni/{psServerName}/<br>{templateName}                                                                                                                                                                                                                                                                     |
|          | DELETE      | Deletes a template from a Platform Server. | dni/{psServerName}/<br>{templateName}                                                                                                                                                                                                                                                                     |
| events   | GET         | Searches for events                        | /events?eventId=<br><string>&requestType=<br><string>&eventType=<br><string>&userId=<br><string>&department=<br><string>&eventStatus=<br><string>&jobName=<br><string>&fromDate=<br><string>&fromTime=<br><string>&toDate=<br><string>&toTime=<br><string>&numberOfDays=<br><string>&lastEventId=<string> |
|          | GET         | Retrieves event details                    | /events/{eventId}                                                                                                                                                                                                                                                                                         |
| psaudits | DELETE      | Removes PS                                 | psaudits/days                                                                                                                                                                                                                                                                                             |

| Resource | HTTP Method | Description                                         | URL Resource and Parameters                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |             | audits older than days.                             |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|          | DELETE      | Removes PS audits older than date.                  | psaudits/date                                                                                                                                                                                                                                                                                                                                                                                                                         |
|          | GET         | Gets a Platform Server Audit using Audit ID.        | psaudits/{auditId}                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | GET         | Searches Platform Server audits.                    | psaudits?<br>auditId=<string>&<br>localTransactionId=<string>&<br>clientFileName=<string>&<br>serverFileName=<string>&<br>serverName=<string>&<br>processName=<string>&<br>userData=<string>&<br>transferUserId=<string>&<br>transferStatus=<string>&<br>department=<string>&<br>fromDateAndTime=<string>&<br>toDateAndTime=<string>&<br>noOfDays=<string>&<br>pageNumber=<string>&<br>recordsReturned=<string>&<br>nodeName=<string> |
|          | GET         | Searches Platform Server audits on Platform Server. | psaudits/psserver?<br>psServerName=<string>&<br>nodeName=<string>&<br>localTransactionId=<string>&<br>localFileName=<string><br>&transferUserId=<string>&<br>transferStatus=<string>&<br>fromDate=<string>&                                                                                                                                                                                                                           |

| Resource | HTTP Method | Description                                             | URL Resource and Parameters                                                                                  |
|----------|-------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|          |             |                                                         | fromTime=<string>&<br>toDate=<string>&<br>toTime=<string>&<br>noOfDays=<string>&<br>recordsReturned=<string> |
|          | GET         | Gets Platform Server audit record from Platform Server. | psaudits/<br>{localTransactionId}/psserver/<br>{psServerName}                                                |
| psnodes  | POST        | Adds a new Platform Server node to the bank.            | psnodes                                                                                                      |
|          | PUT         | Updates a Platform Server node in the bank.             | psnodes/{nodeName}                                                                                           |
|          | PUT         | Adds or updates node on Platform Server from the bank.  | psnodes/{nodeName}/psserver/<br>{psServerName}                                                               |
|          | PUT         | Adds or updates node on Platform Server.                | psnodes/psserver/<br>{psServerName}                                                                          |
|          | GET         | Gets all Platform Server nodes from the bank.           | psnodes                                                                                                      |

| Resource       | HTTP Method | Description                                                | URL Resource and Parameters                        |
|----------------|-------------|------------------------------------------------------------|----------------------------------------------------|
|                | GET         | Gets node from Platform Server.                            | psnodes/{nodeName}/psserver/{psServerName}         |
|                | GET         | Gets all nodes from Platform Server.                       | psnodes/psserver/{servername}                      |
|                | GET         | Gets node from the bank.                                   | psnodes/{nodeName}                                 |
|                | DELETE      | Deletes node From the bank.                                | psnodes/{nodeName}                                 |
|                | DELETE      | Delete node from Platform Server.                          | psnodes/{nodeName}/psserver/{psServerName}         |
| psuserprofiles | POST        | Adds user profile to the banks.                            | psuserprofiles                                     |
|                | PUT         | Adds/Updates a Platform Server user profile in the server. | psuserprofiles/psserver/{psServerName}             |
|                | PUT         | Updates a user profile in the bank.                        | psuserprofiles/{profileId}                         |
|                | PUT         | Updates a user profile in Platform Server from the bank.   | psuserprofiles/{profileId}/psserver/{psServerName} |

| Resource             | HTTP Method | Description                                                        | URL Resource and Parameters                 |
|----------------------|-------------|--------------------------------------------------------------------|---------------------------------------------|
|                      | GET         | Gets all Platform Server user profiles from the bank.              | psuserprofiles                              |
|                      | GET         | Gets all Platform Server user profiles from the server.            | psuserprofiles/psserver/{psServerName}      |
|                      | GET         | Gets a user Profile from the bank using Profile ID.                | psuserprofiles/{profileId}                  |
|                      | DELETE      | Deletes a user profile from Platform Server.                       | psuserprofiles/psserver/{psServerName}      |
|                      | DELETE      | Deletes a user profile from the bank.                              | psuserprofiles/{profileId}                  |
| psresponder profiles | POST        | Adds a new Responder Profile to the bank.                          | psresponderprofiles                         |
|                      | PUT         | Adds or updates a Platform Server Responder Profile in the server. | psresponderprofiles/psserver/{psServerName} |

| Resource | HTTP Method | Description                                                                  | URL Resource and Parameters                             |
|----------|-------------|------------------------------------------------------------------------------|---------------------------------------------------------|
|          | PUT         | Updates a Platform Server Responder Profile in the bank.                     | psresponderprofiles/{profileId}                         |
|          | PUT         | Adds or updates a Platform Server Responder Profile in Server from the bank. | psresponderprofiles/{profileId}/psserver/{psServerName} |
|          | GET         | Gets all Platform Server Responder Profiles from the server.                 | psresponderprofiles/psserver/{psServerName}             |
|          | GET         | Gets a Platform Server Responder Profile from the bank using Profile ID.     | psresponderprofiles/{profileId}                         |
|          | GET         | Gets all Platform Server Responder Profiles from the bank.                   | psresponderprofiles                                     |
|          | DELETE      | Deletes a Responder Profile from the bank.                                   | psresponderprofiles/{profileId}                         |

| Resource                 | HTTP Method | Description                                                      | URL Resource and Parameters                                                                                                                                                                                 |
|--------------------------|-------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | DELETE      | Deletes a Responder Profile from Platform Server.                | psresponderprofiles/psserver/{psServerName}                                                                                                                                                                 |
| platformserver transfers | POST        | Adds a Platform Server transfer.                                 | pstransfers                                                                                                                                                                                                 |
|                          | PUT         | Updates a Platform Server transfer.                              | pstransfers/{transferId}                                                                                                                                                                                    |
|                          | PUT         | Executes a Platform Server transfer from bank using Transfer ID. | pstransfers/{transferId}/execute                                                                                                                                                                            |
|                          | PUT         | Executes a Platform Server transfer.                             | pstransfers/execute                                                                                                                                                                                         |
|                          | GET         | Searches for Platform Server transfers.                          | pstransfers?<br>description=<string>&<br>serverName=<string>&<br>initiatorFileName=<string>&<br>responderFileName=<string>&<br>responderHostName=<string>&<br>transferId=<string>&<br>transferType=<string> |
|                          | GET         | Gets a Platform Server transfer from the bank using transfer     | pstransfers/{transferId}                                                                                                                                                                                    |

| Resource          | HTTP Method | Description                                                                        | URL Resource and Parameters                                                      |
|-------------------|-------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|                   |             | ID.                                                                                |                                                                                  |
|                   | DELETE      | Deletes a Platform Server transfer from bank using transfer ID.                    | pstransfers/{transferId}                                                         |
| services          | PUT         | Gets status, start, or stop a service.                                             | services                                                                         |
|                   | PUT         | Gets status, start, or stop a service or scheduler on a host, or hold a scheduler. | services/{hostname}                                                              |
| activepstransfers | GET         | Retrieves active Platform Transfers for a server.                                  | activepstransfers/{serverName}                                                   |
|                   | GET         | Retrieves details of a Platform Server active transfer.                            | activepstransfers/{serverName} / {transactionId}?wait=<string> &timeout=<string> |
|                   | PUT         | Cancels an active Platform Server transfer.                                        | activepstransfers/{serverName}/ {transactionId}                                  |

| Resource          | HTTP Method | Description                                       | URL Resource and Parameters                                                                      |
|-------------------|-------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------|
| activeistransfers | GET         | Retrieves active Internet transfers.              | activeistransfers                                                                                |
|                   | GET         | Retrieves active Internet transfers for a server. | activeistransfers/{serverName}                                                                   |
|                   | GET         | Retrieves details of an active transfer.          | activeistransfers/details/{auditId}?<br>hostName=<string>&<br>wait=<string>&<br>timeout=<string> |
| hoststats         | GET         | Retrieves host status.                            | hoststats                                                                                        |
| istransfer        | PUT         | Performs Internet Server file transfer.           | istransfer/file                                                                                  |
|                   | PUT         | Performs Internet Server Alias to Alias Transfer. | istransfer/virtualalias                                                                          |
|                   | PUT         | Performs Internet Server JMS transfer.            | istransfer/jms                                                                                   |

| Resource | HTTP Method | Description                                   | URL Resource and Parameters                                                                                                                                                                                                                                    |
|----------|-------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| jobs     | POST        | Adds a job.                                   | jobs                                                                                                                                                                                                                                                           |
|          | PUT         | Updates a job.                                | jobs/jobName/<br>{jobName}/groupName/<br>{groupName}                                                                                                                                                                                                           |
|          | PUT         | Executes a job now.                           | jobs/jobName/<br>{jobName}/groupName/<br>{groupName}/execute                                                                                                                                                                                                   |
|          | GET         | Gets a job using the job name and group name. | jobs/jobName/<br>{jobName}/groupName/<br>{groupName}                                                                                                                                                                                                           |
|          | GET         | Retrieves all active jobs.                    | jobs/activejobs?<br>hostName=<string>                                                                                                                                                                                                                          |
|          | GET         | Searches jobs or gets all jobs.               | jobs?<br>jobName=<string>&<br>groupName=<string>&<br>description=<string>&<br>jobType=<string>&<br>enabled=<string>&<br>batchName=<string> &<br>department=<string>&<br>authorizedUserId=<string>&<br>authorizedGroupId=<string>&<br>jobScheduledDate=<string> |
|          | DELETE      | Deletes a job using job name and group name.  | jobs/jobName/<br>{jobName}/groupName/<br>{groupName}                                                                                                                                                                                                           |

| Resource     | HTTP Method | Description                        | URL Resource and Parameters                            |
|--------------|-------------|------------------------------------|--------------------------------------------------------|
| serverstatus | GET         | Retrieves server status.           | serverstatus                                           |
|              | GET         | Retrieves server status details.   | serverstatus/{serverName}                              |
| statistics   | GET         | Searches statistics by date range. | statistics?<br>startDate={startDate}&endDate={endDate} |

## Internet Transfer REST Calls

MFTIS-Install/server/webapps/cfcc/public/docs/ft.json

The Internet Transfer REST calls only work on an Internet Server. For information on rights to execute Internet Transfer REST calls, see *TIBCO® Managed File Transfer Internet Server User Guide*. The URL for the Internet Transfer REST calls is as follows:

```
https://your.company.com:7443/cfcc/rest/ft/v7/resource/{parameters}
```

The following table lists the resource, the HTTP method, the description, and the URL that starts with the resource for some of the major Internet Transfer REST calls. For the complete list and their usage, click Redoc on the upper-right corner of the page.

| Resource   | HTTP Method | Description          | URL Resource and Parameters |
|------------|-------------|----------------------|-----------------------------|
| navigation | POST        | Creates a directory. | navigation/{filePath:. *}   |
|            | PUT         | Renames a file       | navigation/{fromPath:. *}   |

| Resource   | HTTP Method | Description                       | URL Resource and Parameters |
|------------|-------------|-----------------------------------|-----------------------------|
|            |             | or directory.                     |                             |
|            | GET         | Gets one level directory tree.    | navigation/{filePath:. *}   |
|            | DELETE      | Deletes a directory or file.      | navigation/{filePath:. *}   |
|            |             |                                   |                             |
| transfer   | POST        | Uploads file in streaming mode.   | transfer/{filePath:. *}     |
|            | PUT         | Uploads file in streaming mode.   | transfer/{filePath:. *}     |
|            | GET         | Downloads file in streaming mode. | transfer/{filePath:. *}     |
|            |             |                                   |                             |
| bwtransfer | POST        | Uploads file in rest mode.        | bwtransfer/{filePath:. *}   |
|            | PUT         | Uploads file in rest mode.        | bwtransfer/{filePath:. *}   |
|            | GET         | Downloads file in rest mode.      | bwtransfer/{filePath:. *}   |
|            |             |                                   |                             |
| ftsession  | PUT         | Validates                         | ftsession                   |

| Resource             | HTTP Method | Description                                      | URL Resource and Parameters |
|----------------------|-------------|--------------------------------------------------|-----------------------------|
|                      |             | session.                                         |                             |
|                      | GET         | Gets session.                                    | ftsession                   |
|                      | DELETE      | Closes session.                                  | ftsession                   |
| mft                  | GET         | Gets version.                                    | mft/version                 |
| ftuser               | PUT         | Changes password.                                | ftuser/password             |
|                      | GET         | Gets password expiring days.                     | ftuser/passwordexpiringdays |
|                      | GET         | Gets transfers.                                  | ftuser/transfers            |
|                      | GET         | Gets audits.                                     | ftuser/audits               |
| virtualaliastransfer | PUT         | Performs Internet Server Alias to Alias Transfer | /istransfer/virtualalias    |

# MFT File Transfer REST Calls

---

MFT supports uploading, downloading and moving files from one server to another using a REST call to an Internet Server.

The following two distinct modes for uploading or downloading a file are available:

- **Streaming:** This is designed for larger files and necessitates multiple REST calls for the complete file upload/download.
- **Non-streaming:** This involves transmitting the complete file data within a single request (upload) or response (download) body.

The Internet Server Virtual Alias to Virtual Alias REST call moves files from one server to another.

## Upload a File in Streaming Mode

### REST URL

/rest/ft/v7/transfer/{filePath}

{filePath} is the virtual alias of the transfer definition and the file name.

### HTTP Method

POST or PUT

### URL Parameters

| Parameter | Description              | Value                                                                  |
|-----------|--------------------------|------------------------------------------------------------------------|
| position  | Upload starting position | Position for this chunk of data; long value >= 0.<br>No default value. |

|        |                                        |                                                                                                                                                                                                                                                                 |
|--------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| packet | Packet sequence                        | Sequence for this chunk of data; integer value $\geq 1$ , incremented by one for each packet.<br>No default value.                                                                                                                                              |
| final  | Is this the last packet in this upload | true or false<br>No default value.                                                                                                                                                                                                                              |
| encode | How is the data encoded                | base64, hex, or do not include parameter <ul style="list-style-type: none"> <li>• Base64-the server decodes the data as base64.</li> <li>• Hex - the server interprets the data as hex (2 hex digits equal one byte).</li> </ul> Default - data is not decoded. |

## Return values

### Success:

HTTP 202 for partial upload, 200 for the final package with json message containing audit id

### Errors:

HTTP 4xx with a message in the json body

HTTP 500 with a generic message

## Examples:

### 1. Uploading base64 data:

#### a. First Request:

```
POST
/cfcc/rest/ft/v7/transfer/temp/myfile.txt?position=0&packet=1&
final=false&encode=base64 HTTP/1.1
Host: localhost:7443
Content-Type: application/octet-stream
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Content-Length: 8

SGVsbG8=
```

## Server Response

202

Set-Cookie JSESSIONID=5F1C4407DE51B105204D5F1FCA61AA68

{"message":"Audit id: A812P0001B69"}

## b. Second request:

```
POST
/cfcc/rest/ft/v7/transfer/temp/myfile.txt?position=5&packet=2&
final=true&encode=base64 HTTP/1.1
Host: localhost:7443
Content-Type: application/octet-stream
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Cookie: JSESSIONID=5F1C4407DE51B105204D5F1FCA61AA68
Content-Length: 8

IFdvcmxk
```

## Server Response

200

{"message":"Audit id: A812P0001B69"}

Contents of File myfile.txt

Hello World

## 2. Uploading hex data:

## a. First Request:

```
POST
/cfcc/rest/ft/v7/transfer/temp/myfile.txt?position=0&packet=1&
final=false&encode=hex HTTP/1.1
Host: localhost:7443
Content-Type: application/octet-stream
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Content-Length: 10

48656c6c6f
```

## Server Response

202

Set-Cookie JSESSIONID=678F60540574667A7DEB1B338C7F43E1

{"message":"Audit id: A812P0001B70"}

## b. Second request:

```

POST
/cfcc/rest/ft/v7/transfer/temp/myfile.txt?position=5&packet=2&
final=true&encode=hex HTTP/1.1
Host: localhost:7443
Content-Type: application/octet-stream
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Cookie: JSESSIONID=678F60540574667A7DEB1B338C7F43E1
Content-Length: 12

20576f726c64

```

#### Server Response

```

200
{"message":"Audit id: A812P0001B70"}

```

#### Contents of File myfile.txt

```
Hello World
```

### 3. Uploading unencoded data

#### a. First Request

```

POST
/cfcc/rest/ft/v7/transfer/temp/myfile.txt?position=0&packet=1&
final=false HTTP/1.1
Host: localhost:7443
Content-Type: application/octet-stream
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Content-Length: 5

Hello

```

#### Server Response

```

202
Set-Cookie JSESSIONID=803C7E248C991835EB4D3E110221D998
{"message":"Audit id: A812P0001B71"}

```

#### b. Second Request

```

POST
/cfcc/rest/ft/v7/transfer/temp/myfile.txt?position=5&packet=2&
final=true HTTP/1.1
Host: localhost:7443
Content-Type: application/octet-stream
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Cookie: JSESSIONID=803C7E248C991835EB4D3E110221D998

```

```
Content-Length: 6
```

```
World
```

Server Response

200

```
{"message": "Audit id: A812P0001B71"}
```

Contents of File myfile.txt

Hello World

## Best Practices

To upload a file, data is sent through a series of REST calls. The entire file can be sent in a single request or be broken down into multiple chunks, each sent in a separate request.

- **Session Management:** A `JSessionId` HTTP cookie must be included in every request. This ensures that all chunks are associated with the same file upload session.
- **Content-Type:** The content-type header for all requests must be set to `application/octet-stream`.
- **Request Body:** The file data (or chunk of data) must be placed directly in the request body. The data should not be formatted as JSON.

## Query Parameters

Each upload request must include the following query parameters as needed.

| Parameter | Type    | Description                                                                                                                                    | Required |
|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| packet    | Integer | A 1-based sequential identifier for each data chunk. The first packet is 1, the second is 2, and so on.                                        | Yes      |
| position  | Integer | A 0-based byte offset for the current chunk. For a chunk size of 500 bytes, the first packet's position is 0, the second is 500, and so forth. | Yes      |
| encode    | String  | Specifies the encoding method used on the data (example: base64, hex). This parameter should be omitted if the data is not encoded.            | No       |

## Data Encoding

The requirement for data encoding depends on the file type.

- Text Data: No encoding is necessary. The encode parameter should not be included in the request.
- Binary Data: Data must be encoded before being sent.
  - Base64: This is the recommended encoding method.
  - Hex: Alternatively, data can be hex-encoded, where each character is converted to its ASCII hexadecimal equivalent (example: the character 'a' becomes 61).

## Download a File in Streaming Mode

### REST URL

/rest/ft/v7/transfer/{filePath}

{filePath} would be the virtual alias of the transfer definition and the file name.

### HTTP Method

GET

### URL Parameters

| Parameter | Description                | Values                                                                                                                                                                                                                |
|-----------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| position  | Download starting position | Position for this chunk of data long value >= 0.<br>No default value.<br>base64, hex, or do not include parameter                                                                                                     |
| encode    | How is the data encoded    | <ul style="list-style-type: none"><li>• Base64 - the server decodes the data as base64.</li><li>• Hex - the server interprets the data as hex (2 hex digits equal one byte).</li></ul> Default - data is not decoded. |

|             |                                    |               |
|-------------|------------------------------------|---------------|
| zipdownload | Zip a directory before downloading | true or false |
|-------------|------------------------------------|---------------|

## Return Values

Success:

HTTP 200 and body contains file data

Errors:

HTTP 4xx with a message in the json body

HTTP 500 with a generic message

## Examples

- Downloading base64 data

Request:

```
GET
/cfcc/rest/ft/v7/transfer/temp/localfile.txt?position=0&encode=base
64 HTTP/1.1
Host: localhost:7443
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
```

Server Response

200

Body

YWJjZGVmZ2hpamtsbW5vcHFyc3R1dnd4eXo=

Decodes to

abcdefghijklmnopqrstuvwxy

- Downloading hex data

Request:

```
GET
/cfcc/rest/ft/v7/transfer/temp/localfile.txt?position=0&encode=hex
HTTP/1.1
Host: localhost:7443
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
```

Server Response

200

Body

6162636465666768696a6b6c6d6e6f707172737475767778797a

Decodes to  
abcdefghijklmnopqrstuvwxyz

- Downloading unencoded data

Request:

```
GET /cfcc/rest/ft/v7/transfer/temp/localfile.txt?position=0
HTTP/1.1
Host: localhost:7443
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
```

Server Response

200

Body

abcdefghijklmnopqrstuvwxyz

- Downloading zip file

Request:

```
GET /cfcc/rest/ft/v7/transfer/temp/demo?position=0&zipdownload=true
HTTP/1.1
Host: localhost:7443
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
```

Server Response

200

Body

Binary data that should be saved a zip file

In this example, temp is the virtual alias name and demo is a directory found in that virtual alias.

## Standard Download

In a standard file download, the user can specify the starting point for the data retrieval using a position parameter. However, it is not possible to specify the size of the data chunk returned by the server.

## Zipped Directory Download

This mode is enabled by using the zipdownload parameter and has the following specific constraints:

- **Position:** The position parameter must be set to 0.
- **Encoding:** Any encode parameter in the request are ignored.
- **Content:** The resulting download is a single zip file containing all files and subdirectories located at the target path.

The primary functional difference between the download modes is that the zipped download mode provides the capability to retrieve an entire directory structure as a single archive.

## Upload a File in Non-Streaming Mode

### REST URL

/rest/ft/v7/bwtransfer/{filePath}

{filePath} is the virtual alias of the transfer definition and the file name.

### HTTP Method

POST or PUT

### Body

JSON format, data is base64 encoded

```
{
  "base64Data": "Hello World"
}
```

### Return values

Success:

HTTP 200 for partial upload, 200 for the final package with json message containing audit id

**Errors:**

HTTP 4xx with a message in the json body

HTTP 500 with a generic message

**Examples:****Request:**

```
POST /cfcc/rest/ft/v7/bwtransfer/temp/myfile.txt HTTP/1.1
Host: localhost:7443
Content-Type: application/json
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Content-Length: 42

{
  "base64Data": "SGVsbG8gV29ybGQ="
}
```

**Server Response**

200

```
{"message": "Audit id: A813P00003F9"}
```

**Contents of File myfile.txt**

Hello World



**Note:** This file upload mode facilitates the transmission of data via a single REST call. The request body is to be formatted in JSON, and the file data must be Base64 encoded. The content-type header should be set to application/json.

## Download a File in Non-Streaming Mode

**REST URL**

```
/rest/ft/v7/bwtransfer/{filePath}
```

{filePath} would be the virtual alias of the transfer definition and the file name.

**HTTP Method**

GET

## Return values

Success:

HTTP 200 with json body containing file data

Errors:

HTTP 4xx with a message in the json body

HTTP 500 with a generic message

## Example:

Request:

```
GET /cfcc/rest/ft/v7/bwtransfer/temp/localfile.txt HTTP/1.1
Host: localhost:7443
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
```

Server Response

200

```
{
  "base64Data": "YWJjZGVmZ2hpamtsbW5vcHFyc3R1dnd4eXo="
}
```

**i Note:** This file download mode facilitates the transmission of data via a single REST call. The body of the response is in JSON format. The data is returned in base64 encoded.

# Internet Server Alias to Alias Transfer

## REST URL

/rest/ft/v7/istransfer/virtualalias

## HTTP Method

PUT

## Body

JSON format

| Parameter          | Type    | Description                                                   |
|--------------------|---------|---------------------------------------------------------------|
| isHostName         | string  | Internet Server host name                                     |
| sourceVirtualAlias | string  | Virtual alias name for a download transfer definition         |
| sourceFileName     | string  | File name (supports regex)                                    |
| targetVirtualAlias | string  | Virtual alias name for an upload transfer definition          |
| targetFileName     | string  | File name (supports regex)                                    |
| dataType           | string  | Text or Binary                                                |
| messageDelimiter   | string  | None, CRLF, LF                                                |
| waitForCompletion  | string  | Yes or No                                                     |
| waitTimeout        | string  | Integer from 1 - 1400, which represents the number of minutes |
| fourEyes           | boolean | true or false                                                 |

## Return values

Success:

HTTP 200 with json message containing audit id

Errors:

HTTP 4xx with a message in the json body

HTTP 500 with a generic message

## Example

Request:

```
PUT /cfcc/rest/ft/v7/istransfer/virtualalias HTTP/1.1
Host: localhost:7443
Content-Type: application/json
Authorization: Basic Z2VvcmdlbDpwcm9naW5ldA==
Content-Length: 278
```

```
{
  "isHostName": "MyIS",
  "sourceVirtualAlias": "gcp-ssh",
  "sourceFileName": "*",
  "targetVirtualAlias": "temp",
  "targetFileName": "*",
  "dataType": "Binary",
  "messageDelimiter": "None",
  "waitForCompletion": "Yes",
  "waitTimeout": "30"
}
```

Server Response

```
200
{
  "message": "SUCCESS",
  "id": "A814P0002772"
}
```

## Virtual Alias to Virtual Alias Transfer: File Name Patterns

Use this REST call to move data between servers.

To use this call, enter the following information:

- For source, specify the name of the virtual alias from a download transfer definition. The source file name supports file name, directories, subdirectories and regular expressions.
- For target, specify the name of the virtual alias from an upload transfer definition. The target file name can be \* for directory transfers (the target file name matches the source) or a specific file name for single file transfers.
- Specify the file names.

The following table describes the patterns to use to distinguish expressions.

| Pattern | Description |
|---------|-------------|
|         |             |
|         |             |

---

|    |                                                                                                    |
|----|----------------------------------------------------------------------------------------------------|
| *  | Specifies all files in the directory.                                                              |
| ** | Specifies all files in the directory and its subdirectories.                                       |
| [] | Specifies a regular expressions. Regular expressions are added to the end of the remote file name. |

---

### Examples: Source File Name and Target File Name

- Use a regex to download files only with a certain extension

```
"sourceFileName": "/* [^.*\\.(?i)(doc|docx|pdf|txt|xls|xlsx|jpg)$]"
"targetFileName": "*"`
```

- All files in a directory:

```
"sourceFileName": "/aaa/*"
"targetFileName": "*"`
```

- All files in a directory and all subdirectories:

```
"sourceFileName": "/aaa/**"
"targetFileName": "*"`
```

- Rename a single file:

```
"sourceFileName": "/aaa/bbb.txt"
"targetFileName": "ccc.txt"
```

# Creating Customer File Transfer Interface

---

Through the use of a well-defined interface, you can write your own module in Java to support a protocol not currently supported by TIBCO MFT. Only outbound transfers are supported.

**Note:** The documentation of the Java interface and example code are found in the *MFT Install/server/webapps/cfcc/example/customTransfers* directory on the server. The javadoc folder is found in the docs directory.

## Procedure

1. Write your implementation, compile the code, and package it into a .jar file.
2. Copy the .jar file and any dependent jar files into the following directory on each of the Internet Servers: *MFT Install/server/webapps/cfcc/WEB-INF/lib*
3. Copy the *mft-custom-transfer.jar* file from *MFT Install/server/webapps/cfcc/example/customTransfers* to *MFT Install/server/webapps/cfcc/WEB-INF/lib* on each of the Internet Servers.
4. Restart the MFT Servers.
5. Add a server that is defined as a "custom server".
6. Enter the class name that implements the *com.tibco.mft.transfers.custom.CustomTransfer* interface.
7. Add any extra configuration you may need in a text-based format.

Here is the sample build script from the examples directory:

```
rmdir /S/Q build
mkdir build
javac -classpath mft-custom-transfer.jar;json-simple-1.1.1.jar -d
build src\com\example\transfer\CustomXferImpl.java
cd build
jar -cvf MyCustomXfer.jar com\example\transfer\CustomXferImpl.class
move MyCustomXfer.jar ..\
cd ..
```

```
rmdir /S/Q build
```

## Warnings for Using Custom Transfers

Here are some things to keep in mind when you use custom transfers.

- You are responsible for all changes to support this code.
- You are responsible for verifying that the third-party code is up to date and has no security vulnerabilities.
- You must note that the third-party software supplied by TIBCO MFT Command Center is subject to change.
- You are responsible for implementing and testing the custom transfer change correctly.
- If you are the MFT Admin, you must limit access to the server where the software is located.
- You must install the custom transfer software on each Internet Server that can execute the custom transfer.

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The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

## Product-Specific Documentation

The documentation for this product is available on the [TIBCO® Managed File Transfer Command Center Documentation](#) page.

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