

Tutorial: Download Distributed Contents in REST Services

This doc shows a series of JSON message samples to down content media from the ACS server, the BOCS server or the REST server in Documentum REST Services (seeing [IIG RESTful Web Services](#)).

1. Assumed that you get a document resource.

```
GET http://rest-demo/dctm-rest/repositories/acme01/objects/090004d2800051c9
```

```
Accept: application/vnd.emc.documentum+json
```

```
Authorization: Basic ZG1hZG1pbjpwYXNzd29yZA==
```

From the document resource, you'll find two link relations "contents" and "<http://identifiers.emc.com/linkrel/primary-content>" which point to the contents feed and the primary content of this document, respectively.

```
{
  "name": "object",
  "type": "dm_document",
  "definition": "http://rest-demo/dctm-rest/repositories/acme01/types/dm_document",
  "properties": {"r_object_id": "090004d2800051c9"...},
  "links": [
    {"rel": "self"...},
    {"rel": "edit"...},
    {"rel": "http://identifiers.emc.com/linkrel/delete"...},
    {"rel": "canonical"...},
    {"rel": "http://identifiers.emc.com/linkrel/parent-links"...},
    {"rel": "parent"...},
    {"rel": "http://identifiers.emc.com/linkrel/cabinet"...},
    {
      "rel": "contents",
      "href": "http://rest-demo/dctm-rest/repositories/acme01/objects/090004d2800051c9/contents"
    },
    {
      "rel": "http://identifiers.emc.com/linkrel/primary-content",
      "href": "http://rest-demo/dctm-rest/repositories/acme01/objects/090004d2800051c9/contents/content"
    },
    {"rel": "http://identifiers.emc.com/linkrel/checkout"...},
    {"rel": "version-history"...},
    {"rel": "http://identifiers.emc.com/linkrel/current-version"...},
    {"rel": "http://identifiers.emc.com/linkrel/relations"...}
  ]
}
```

You could then GET on the contents feed or the individual primary content resource to retrieve the downloadable content media links for them, using the URI query parameter "media-url-policy" and "network-location".

In this tutorial, we show some samples on downloading content media on the individual content resource.

2. Get default content media

Get on the self link of specified content resource.

```
GET http://rest-demo/dctm-rest/repositories/acme01/
objects/090004d2800051c9/contents?format=pdf&modifier=&page=0
```

```
Accept: application/vnd.emc.documentum+json
```

```
Authorization: Basic ZG1hZG1pbjpwYXNzd29yZA==
```

You'll find the "enclosure" and "<http://identifiers.emc.com/linkrel/content-media>" link relations from the response. They are duplicated URLs pointing to the same target content media location. The link relation "enclosure" is duplicated to support Atom client.

```
{
  "name": "content",
  "properties": {"object_name": "Mon_4PM_Galileo906_Sanofi_Rorive.ppt"...},
  "links": [
    {"rel": "self"...},
    {
      "rel": "enclosure",
      "title": "ACS",
      "href": "http://acs-host/ACS/servlet/ACS?command=read&version=2.3&docbaseid=01
    },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "ACS",
      "href": "http://acs-host/ACS/servlet/ACS?command=read&version=2.3&docbaseid=01
    },
    {"rel": "parent"...}
  ]
}
```

By default, ACS link for the content media is returned, when the ACS server is available. When ACS is not available, a media link from the local REST server will be returned. It could also be controlled by the URI query parameter "media-url-policy".

3. Get content media from the local REST server

```
GET http://rest-demo/dctm-rest/repositories/
acme01/objects/090004d2800051c9/contents?
format=pdf&modifier=&page=0&media-url-policy=local
```

```
Accept: application/vnd.emc.documentum+json
```

```
Authorization: Basic ZG1hZG1pbjpwYXNzd29yZA==
```

The content media links in the response is from the local REST server, which can be identified by the link title.

```
{
  "name": "content",
  "properties": {"object_name": "Mon_4PM_Galileo906_Sanofi_Rorive.ppt"...},
  "links": [
    {"rel": "self"...},
    {
      "rel": "enclosure",
      "title": "LOCAL",
      "href": "http://rest-demo/dctm-rest/repositories/acme01/objects/090004d2800051c9/content-media?form"
    },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "LOCAL",
      "href": "http://rest-demo/dctm-rest/repositories/acme01/objects/090004d2800051c9/content-media?form"
    },
    {"rel": "parent"...}
  ]
}
```

4. Get content media from the BOCS server

You can also specify a network location to get the content media from a BOCS server.

```
GET http://rest-demo/dctm-rest/repositories/
acme01/objects/090004d2800051c9/contents?
format=pdf&modifier=&page=0&network-location=shanghai
```

```
Accept: application/vnd.emc.documentum+json
```

```
Authorization: Basic ZG1hZG1pbjpwYXNzd29yZA==
```

```
{
  "name": "content",
  "properties": {"object_name": "Mon_4PM_Galileo906_Sanofi_Rorive.ppt"...},
  "links": [
    {"rel": "self"...},
    {
      "rel": "enclosure",
      "title": "BOCS-shanghai",
      "href": "http://bocs-shanghai/bocs/servlet/ACS?command=read&version=2.1&docb:
    },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "BOCS-shanghai",
      "href": "http://bocs-shanghai/bocs/servlet/ACS?command=read&version=2.1&docb:
    },
    {"rel": "parent"...}
  ]
}
```

5. Get all possible content media links

Some clients want to support client side failover for the content media downloading, then you could get all content media links in one call by specifying "media-url-policy=all".

```
GET http://rest-demo/dctm-rest/repositories/
acme01/objects/090004d2800051c9/contents?
format=pdf&modifier=&page=0&media-url-policy=all

Accept: application/vnd.emc.documentum+json

Authorization: Basic ZG1hZG1pbjpwYXNzd29yZA==
```

```
{
  "name": "content",
  "properties": { "object_name": "Mon_4PM_Galileo906_Sanofi_Rorive.ppt" ... },
  "links": [
    { "rel": "self" ... },
    { "rel": "enclosure" ... },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "ACS",
      "href": "http://acs-host/ACS/servlet/ACS?command=read&version=2.3&docbaseid=0004d2&basepath=C%3A%5CDc
    },
    { "rel": "enclosure" ... },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "LOCAL",
      "href": "http://rest-demo/dctm-rest/repositories/acme01/objects/090004d2800051c9/content-media?format
    },
    { "rel": "enclosure" ... },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "BOCS-toronto",
      "href": "bocs-toronto/bocs/servlet/ACS?command=read&version=2.1&docbaseid=0004d2&basepath=C%3A%5CDocu
    },
    { "rel": "enclosure" ... },
    {
      "rel": "http://identifiers.emc.com/linkrel/content-media",
      "title": "BOCS-shanghai",
      "href": "http://bocs-shanghai/bocs/servlet/ACS?command=read&version=2.1&docbaseid=0004d2&basepath=C%3
    },
    { "rel": "parent" ... }
  ]
}
```

Please check out Documentum Platform REST development guide for the full options of the distributed content support.

[Learn more about Documentum REST Services >>](#)