

# Experiment Resource API

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## Related

- [How To Download Files via the XNAT REST API](#)

## Get A Listing Of All Resource Folders Stored With An Experiment



For an image session, this only URI only returns resources stored with the experiment, not any resources stored at the scan or image assessor context. See [Image Session Scans API](#) and [Image Assessor Resource API](#) for details.

```
GET - /data/projects/{project-id}/subjects/{subject-id | subject-label}/experiments/{experiment-id | experiment-label}/resources
GET - /data/experiments/{experiment-id}/resources
```

## Parameters

<b>{project-id}</b>	Path parameter
<b>{subject-id} or {subject-label}</b>	Path parameter. Subject label is a project-specific field, and can only be used if a project is specified.
<b>{experiment-id} or {experiment-label}</b>	Path parameter. Experiment label is a project-specific field, and can only be used if a project is specified.
<b>format</b>	Optional querystring parameter. Specify the format of the returned response. <ul style="list-style-type: none"><li>• json (default)</li><li>• html</li><li>• xml</li><li>• csv</li></ul>
<b>sortBy</b>	Optional querystring parameter: Sort the returned results by one or more parameters in the Result array. Multiple parameters can be provided, separated by commas.

## Response

This call returns an array of resource descriptors, where the key values are "**xnat\_abstractresource\_id**" and "**label**", which can be used as a path parameter.

```

{
  "ResultSet": {
    "Result": [
      {
        "cat_desc": "string",
        "cat_id": "",
        "category": "resources",
        "content": "",
        "element_name": "xnat:resourceCatalog",
        "file_count": "integer",
        "file_size": "integer (bytes)",
        "format": "string",
        "label": "string {resource-label}",
        "tags": "string",
        "xnat_abstractresource_id": "integer {resource-id}"
      }
    ],
    "totalRecords": "integer",
    "title": "Resources"
  }
}

```

## Get A Listing Of All Resource Files Stored With An Experiment



For an image session, this only URI only returns files stored with the experiment, not any files stored at the scan or image assessor context.

```

GET - /data/projects/{project-id}/subjects/{subject-id | subject-label}/experiments/{experiment-id | experiment-label}/files
GET - /data/experiments/{experiment-id}/files

```

### Parameters

<b>{project-id}</b>	Path parameter
<b>{subject-id} or {subject-label}</b>	Path parameter. Subject label is a project-specific field, and can only be used if a project is specified.
<b>{experiment-id} or {experiment-label}</b>	Path parameter. Experiment label is a project-specific field, and can only be used if a project is specified.
<b>format</b>	Optional querystring parameter. Specify the format of the returned response. <ul style="list-style-type: none"> <li>• json (default)</li> <li>• html</li> <li>• xml</li> <li>• csv</li> </ul>
<b>sortBy</b>	Optional querystring parameter: Sort the returned results by one or more parameters in the Result array. Multiple parameters can be provided, separated by commas.

### Response

This call returns an array of file listings, where each has a unique URI path to the resource file.

```

{
  "ResultSet": {
    "Columns": [
      {
        "key": "URI",
        "serverRoot": ""
      }
    ],
    "Result": [
      {
        "cat_ID": "integer {resource-id}",
        "collection": "string {resource-label}",
        "file_content": "string",
        "file_format": "",
        "file_tags": "string",
        "digest": "hash",
        "Name": "string {filename}",
        "Size": "integer",
        "URI": "/data/experiments/{experiment-id}/resources/{resource-id}/files/{filename}"
      },
      ...
    ],
    "title": "Files"
  }
}

```

## Get The Contents Of An Experiment Resource File



This URI returns the raw contents of a resource file. If your client cannot parse this file, it will not provide a usable output. See [How To Download Files via the XNAT REST API](#) for help on downloading resources.

```

GET - /data/projects/{project-id}/subjects/{subject-id | subject-label}/experiments/{experiment-id | experiment-label}/resources/{resource-id | resource-label}/files/{filename}
GET - /data/experiments/{experiment-id}/resources/{resource-id}/files/{filename}

```

### Parameters

<b>{project-id}</b>	Path parameter
<b>{subject-id} or {subject-label}</b>	Path parameter. Subject label is a project-specific field, and can only be used if a project is specified.
<b>{experiment-id} or {experiment-label}</b>	Path parameter. Experiment label is a project-specific field, and can only be used if a project is specified.
<b>{resource-id} or {resource-label}</b>	Path parameter.
<b>{filename}</b>	Path parameter.

### Response

Success (200) returns the file in its native format.

## Create A New Experiment Resource Folder

Note: **{resource-label}** must be new and unique in this subject. Once created, resource descriptors cannot be modified.

```
PUT - /data/projects/{project-id}/subjects/{subject-label}/experiments/{experiment-label}/resources/{resource-label}
PUT - /data/experiments/{experiment-id}/resources/{resource-label}
```

### Parameters

<b>{project-id}</b>	Required path parameter
<b>{subject-id} or {subject-label}</b>	Required path parameter
<b>{experiment-id} or {experiment-label}</b>	Required path parameter
<b>{resource-label}</b>	Required path parameter. Specify the label of the resource that you want to create. XNAT will automatically assign an ID.
<b>format</b>	Optional querystring parameter. Specify a string format descriptor for this resource folder.
<b>tags</b>	Optional querystring parameter. Specify a comma-separated list of tags for this resource folder.
<b>content</b>	Optional querystring parameter. Specify a string description of the resource folder's content.

**Response:** none

## Upload A New Experiment Resource File

Note: **{filename}** must be unique within this resource folder, otherwise the file will not be uploaded.

```
PUT - /data/projects/{project-id}/subjects/{subject-id | subject-label}/experiments/{experiment-id | experiment-label}/resources/{resource-id | resource-label}/files/{filename}
PUT - /data/experiments/{experiment-id | experiment-label}/resources/{resource-id | resource-label}/files/{filename}
```

### Parameters

<b>{project-id}</b>	Required path parameter
<b>{subject-id} or {subject-label}</b>	Required path parameter
<b>{experiment-id} or {experiment-label}</b>	Required path parameter
<b>{resource-id} or {resource-label}</b>	Required path parameter. If this resource collection is not already defined, it will be defined automatically by this call.
<b>{filename}</b>	Required path parameter. This will be the name of the file as it is stored in XNAT. It can be different from the original name of your uploaded file.
<b>inbody=true</b>	Optional querystring parameter. Use if including the file in the body of the request as opposed to part of a multi-part form data
<b>file</b>	Required body or form parameter.
<b>format</b>	Optional querystring parameter. Specify a string format descriptor for this resource folder.
<b>content</b>	Optional querystring parameter. Specify a string description of the resource folder's content.

### Response Codes

<b>200</b>	OK - File Created
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	OK - Duplicates Existing File (File not created or updated)
	OK - User does not have permission to upload files (File not created or updated)

## Update An Existing Resource File

```
POST - /data/experiments/{experiment-id}/resources/{resource-id | resource-label}/files/{filename}?
overwrite=true
```

### Parameters

<b>{experiment-id}</b>	Required path parameter
<b>{resource-id} or {resource-label}</b>	Required path parameter.
<b>{filename}</b>	Required path parameter. This must match an existing file name as it is stored in XNAT.
<b>overwrite=true</b>	Required querystring parameter. This must be set to allow your new file to overwrite your existing one
<b>file</b>	Required body parameter
<b>inbody=true</b>	Optional querystring parameter. Use if including the file in the body of the request as opposed to part of a multi-part form data

### Response Codes

<b>200</b>	OK
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## Delete An Experiment Resource Collection



This URI will also delete all files in the resource collection

```
DELETE - /data/experiments/{experiment-id}/resources/{resource-id | resource-label}
```

### Parameters

<b>{experiment-id} or {experiment-label}</b>	Required path parameter
<b>{resource-id} or {resource-label}</b>	Required path parameter

### Response Codes

<b>200</b>	OK
<b>403</b>	Forbidden

## Delete An Experiment Resource File

```
DELETE - /data/experiments/{experiment-id}/resources/{resource-id | resource-label}/files/{filename}
```

### Parameters

<b>{experiment-id} or {experiment-label}</b>	Required path parameter
<b>{resource-id} or {resource-label}</b>	Required path parameter
<b>{filename}</b>	Required path parameter

### Response Codes

<b>200</b>	OK
<b>403</b>	Forbidden