

Handling Blobs in the REST Interface

Runtime 2021.6 Builder 7.15.0 The xUML Runtime can handle blob parameters in the body of a REST interface. This can be configured by four tags on REST operations for REST service and REST adapter.

Find below an overview on these tags and what combinations make sense.

Location	Direction	Attribute	Description
Service	Request	Accepted Request Content Type	Define which content types the endpoint accepts.
		Reject Other Request Content Types	Define if other content types should be rejected with HTTP 406 (Not Acceptable).
	Response	Blob Body Content Type	Define which content types the endpoint can return to the client.
		Reject Other Response Content Type	Define if the service should reject the request with HTTP 415 (Unsupported Media Type) if the client request has divergent accept headers.
Adapter	Request	Accepted Request Content Type	Specify a list of content types you accept as a response. The Runtime generates a matching "Accept" header to your request.
		Reject Other Request Content Types	Specifies if the REST adapter should reject calls to this endpoint if a request uses a custom content type that does not match the content types listed in Accepted Request Content Type . This can be the case if you set the accept header manually. If set to true, and the accept header does not match, the adapter does not contact the endpoint at all but rejects calls with an exception (Set "accept" header does not accept any of declared response content types).
	Response	Blob Body Content Type	Specify which content type you are sending with your request. The Runtime generates a matching "Content-Type" header to your request.
		Reject Other Response Content Type	Specifies if the REST adapter should reject calls to this endpoint if a request uses a custom content type that does not match the content types listed in Blob Body Content Type . This can be the case if you set the content-type header manually. If set to true, and the content-type header does not match, the adapter does not contact the endpoint at all but rejects calls with an exception (Request content type not declared as accepted by the service).

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- [Defining a REST Service Interface](#)
- [Implementing REST Methods](#)
- [REST Service Reference](#)

Examples

Example File (Builder project Add-ons/REST):



```
<your example path>\Add-ons\REST\uml\restBlobContent.xml
<your example path>\Add-ons\REST\uml\accessRestBlobContent.xml
```

The example service provides a REST interface to store a blob to memory and retrieve stored blobs. The service accepts content type [application/msexcel](#) .

Server (restBlobContent.xml)		Content Type Settings		Description
Store a blob	POST /blob	Accepted Request Content Type	application/msexcel	The server can store Excel files.

Return a blob by id	GET /blob /<an id>	Blob Body Content Type	application /msexcel	The server returns Excel files upon request.
Client (accessRestBlobContent.xml)		Content Type Settings		
Send a blob	POST /blob	Blob Body Content Type	application /msexcel	The client sends Excel files.
Retrieve a blob	GET /blob /<an id>	Accepted Request Content Type	application /msexcel	The client accepts Excel files as a response.

Good Cases

The following table shows some example calls and how they would be executed.

Client		Generated Header	Server
1	Store a blob	POST /blob	Content-Type: application/msexcel
			accepts request
2	Retrieve a blob	GET /blob/123456	Accept: application/msexcel
			returns id HTTP 201
			accepts request
			returns Excel file

Error Cases

The following table shows some error cases and their consequences if you do not rely on the automatically generated headers but set your own headers instead.

Client		Custom Header	Server
1	Store a blob, wrong content type	POST /blob	Content-Type: application/msword
			accepts request
2	Store a blob, wrong content type, server rejects other content types	POST /blob	Content-Type: application/msword
			handles wrong content type internally
3	Retrieve a blob, wrong content type	GET /blob /123456	Accept: application /msword
			Reject Other Request Content Types = true
4	Retrieve a blob, wrong content type, server rejects other content types	GET /blob /123456	Accept: application /msword
			HTTP 406 (not acceptable)
			accepts request
			handles wrong content type internally
			Reject Other Response Content Type = true
			HTTP 415 (Unsupported Media Type)