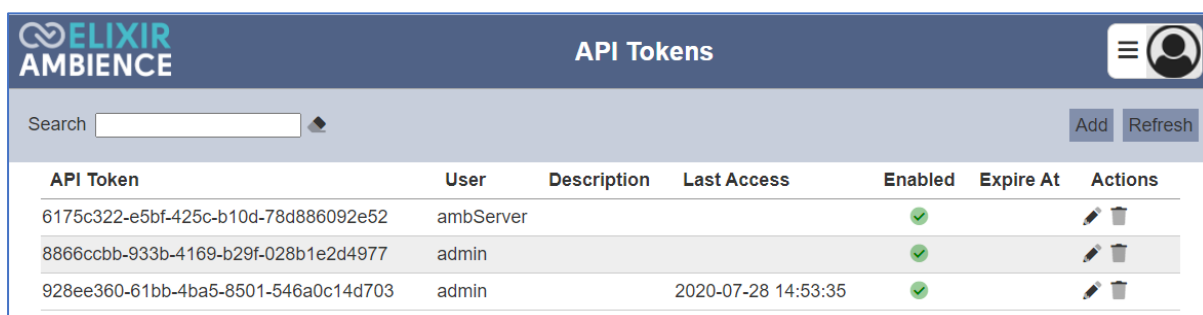


Rendering a Report Template via REST API for Elixir Ambience 2020+

The following example showcases how a report template on the Elixir Ambience server repository is rendered via REST API.

1. Create API token

Add an API token and assign a user account to this API token. The API token string will be appended to the API call in a later step.



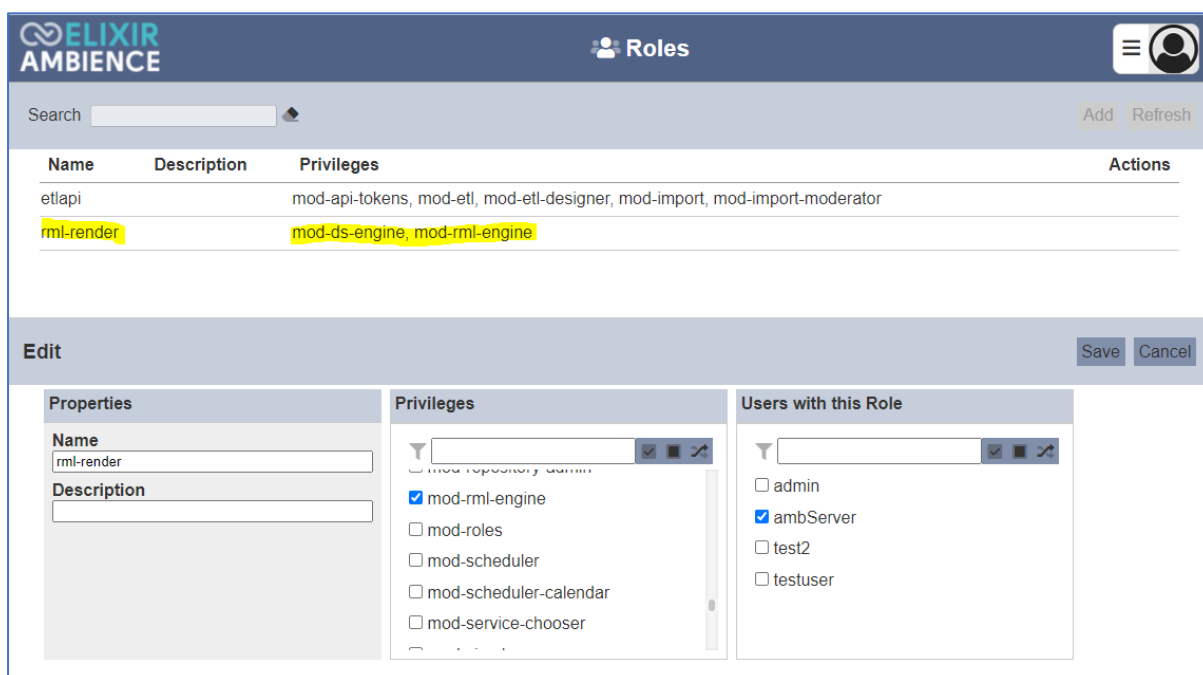
The screenshot shows the 'API Tokens' page in the Elixir Ambience interface. It features a search bar, 'Add' and 'Refresh' buttons, and a table with columns for API Token, User, Description, Last Access, Enabled, Expire At, and Actions. Three tokens are listed, all with 'Enabled' status checked.

API Token	User	Description	Last Access	Enabled	Expire At	Actions
6175c322-e5bf-425c-b10d-78d886092e52	ambServer			<input checked="" type="checkbox"/>		
8866ccbb-933b-4169-b29f-028b1e2d4977	admin			<input checked="" type="checkbox"/>		
928ee360-61bb-4ba5-8501-546a0c14d703	admin		2020-07-28 14:53:35	<input checked="" type="checkbox"/>		

2. Create Role

Add a role and assign a user that has the following access privileges:

- a. mod-ds-engine
- b. mod-rml-engine



The screenshot shows the 'Roles' page in the Elixir Ambience interface. It features a search bar, 'Add' and 'Refresh' buttons, and a table with columns for Name, Description, Privileges, and Actions. The 'rml-render' role is highlighted. Below the table is an 'Edit' section with 'Save' and 'Cancel' buttons. The 'Edit' section is divided into three panels: Properties, Privileges, and Users with this Role.

Name	Description	Privileges	Actions
etlapi		mod-api-tokens, mod-etl, mod-etl-designer, mod-import, mod-import-moderator	
rml-render		mod-ds-engine, mod-rml-engine	

Edit Save Cancel

Properties

Name: rml-render
Description:

Privileges

- mod-rml-engine
- mod-roles
- mod-scheduler
- mod-scheduler-calendar
- mod-service-chooser

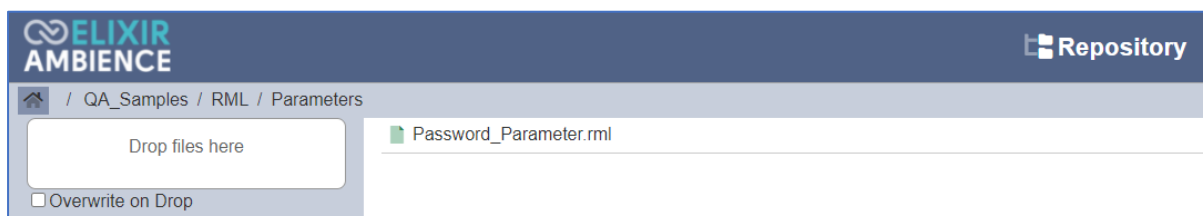
Users with this Role

- admin
- ambServer
- test2
- testuser

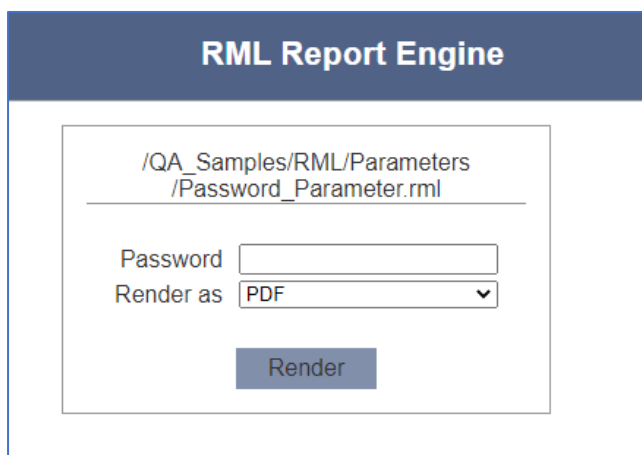
3. Sample Report Template

For this example we will use a sample report template with a parameter. The path of this report template is:

/QA_Samples/RML/Parameters/Password_Parameter.rml



The parameter in this rml template is 'password', e.g.



4. Creating a HTTP call

Using the HTTP endpoint, construct the HTTP call to the rml rendering engine by appending '?elx.token=' and the API token, e.g.

```
http://localhost:8081/rml-engine/api/v1/render?elx.token=6175c322-e5bf-425c-b10d-78d886092e52
```

Construct a header in json format, e.g.

```
-H "Content-Type: application/json" -d "{\"rml\":  
\"/QA_Samples/RML/Parameters/Password_Parameter.rml\", \"Password\":
```


Another approach would be to write the report template, its rendering options and parameters to a json file and specify the path of the json file, e.g.

```
curl -v -X POST http://localhost:8081/rml-engine/api/v1/render?elx.token=6175c322-e5bf-425c-b10d-78d886092e52 -H "Content-Type: application/json" --data "@/app/params.json" --output result.pdf
```

```
C:\app>curl -v -X POST http://localhost:8081/rml-engine/api/v1/render?elx.token=6175c322-e5bf-425c-b10d-78d886092e52 -H "Content-Type: application/json" --data "@/app/params.json" --output result.pdf
Note: Unnecessary use of -X or --request, POST is already inferred.
 % Total % Received % Xferd Average Speed Time Time Time Current
         Dload Upload Total Spent Left Speed
  0     0     0     0     0     0      0      0  --:--:--  --:--:--  --:--:--    0*   Trying ::1...
* TCP_NODELAY set
* Connected to localhost (::1) port 8081 (#0)
> POST /rml-engine/api/v1/render?elx.token=6175c322-e5bf-425c-b10d-78d886092e52 HTTP/1.1
> Host: localhost:8081
> User-Agent: curl/7.55.1
> Accept: */*
> Content-Type: application/json
> Content-Length: 160
>
} [160 bytes data]
* upload completely sent off: 160 out of 160 bytes
< HTTP/1.1 200 OK
< Cache-Control: max-age=0, must-revalidate
< X-Content-Type-Options: nosniff
< X-XSS-Protection: 1; mode=block
< X-Frame-Options: SAMEORIGIN
< Content-Disposition: inline; filename="Password_Parameter.pdf"
< X-elxjob.PageCount: 1
< X-elxjob.ByteCount: 3464
< X-elxjob.RecordCount: 0
< X-elxjob.ElapsedTime: 91
< X-elxjob.StatusCode: 1
< Date: Thu, 09 Sep 2021 13:53:41 GMT
< Content-Type: application/pdf
< Content-Length: 3464
<
{ [3464 bytes data]
100 3624 100 3464 100 160 3464 160 0:00:01 --:--:-- 0:00:01 14496
* Connection #0 to host localhost left intact
```