Simplify
HTTP Access Protocol to Simplify Service

v1.3

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Simplify

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1 INTRODUCTION

This document describes access protocol to the Simplify service via an HTTPS connection through programs. These access points take API form via the HTTPS action call.

This protocol allows any program to communicate inside programs with the Simplify server (https://service.simplify.fr) for:

- Authenticate to the Simplify server.
- Sending an Audio Report file to the Simplify server.
- Retrieving the typed RTF Report from the Simplify Server.
- Retrieving the list of all Reports for a Doctor from the Simplify Server.
- Log out of the Simplify server.

Client/server access is done entirely in HTTPS.

The functional operating mode is equivalent to the user interface in web mode.

1.1 Document recipient

The document is intended for developers (Java, Visual Basic, C/C++, Delphi, Powerbuilder, 4D, etc.) who wish to incorporate a direct interface into their programs with the Simplify service.

It will be assumed that the user (Doctor) has basic knowledge of how the Simplify Service operates.

1.2 Modifications to version 1.1

The code error **error_invalid_doctor_name** has been added. It is returned by functions **HttpSendFile**, **HttpGetJobsInfo**, and **HttpRecvFile** if a doctor_name passed in parameters does not correspond with any existing doctor on the server.

1.3 Modifications to version 1.2

Specification: Queries must be in UTF-8 format.

2 OPERATION

2.1 General Remarks

HTTP access protocol to Simplify service is displayed in the form of a list of HTTP queries corresponding with different available actions.

These queries all appear as: https://service.simplify.fr/Action
Each action having a specific parameters list.

2.2 Network communications

Sending and receiving operations of reports are exclusively done in HTTP and HTTPS mode. It is necessary and enough that the following ports are open on the computer PC:

- Port 80.
- Port 443.

2.3 SSL stream encryption

The streams are all encrypted in SLL by the HTTPS link between the PC and the Simplify server.

No information (login/password, audio files, CR RTF, etc.) circulates in plain text between the PC and the Simplify server.

3 HTTPS Access Protocol to Simplify Manual

3.1 HttpAuth : Login Query

Action	HttpAuth		
Address	https://service.simplify.fr/simplify/HttpAuth		
Type	GET or POST		
Description	User Login & Authentication through SSL onto the Simplify Server.		
Query parameters	text	login	Doctor's Login
	text	password	Doctor's Password
Response format	text/plain	The response contains one of the following strings: • Alphanumerical authentication token • **error_invalid_login** in case an error occurs on the login/password. • **error_stack_trace** followed by the stack trace of the exception if an exception has occurred while processing the query.	

Note:

- Logins and passwords must not be hardcoded and are subject to modification by Simplify at any time. They must be requested from Users/Doctors during authentication.

- The login used for authentication and the return token must be saved during the session. They are needed to complete other queries.

- This query as well as all other queries must be formatted as UTF-8.

3.2 HttpSendFile: File Send Query

This query is used to send an audio file to the Simplify Server to be processed by an operator.

It is also possible to attach to the query one or more document templates which will be associated with the audio file. The templates should be sent in RTF format.

The maximum size of each file sent is 25 MB.
The total size of files sent must not exceed 50 MB.

The query must be in Multipart Post and UTF-8 format

The query returns a "Job ID" which is a unique number assigned to the upcoming Report. The Job ID will be used to later retrieve the typed Report in RTF format.

Action	HttpSendFile		
Address	https://service.simplify.fr/simplify/HttpSendFile		
Type	Multipart POST		
Description	Sending an audio file with a label to the Simplify server through SSL.		
Query parameters	text	login	Login used during HttpAuth call
	text	token	Authentication token returned by Httpauth call
	text	doctor_name	Doctor's Name. Must exist beforehand and be unique in the system.
	text	label	File label can be null.
	file	audioFile	The audio file
	file	modelFile1	The first template associated with the audio file *(optional)*
	file	modelFilen	The nth template associated with the audio file *(optional)*
Response format	text/plain	Return Code: • Job number > 0 assigned to the Report if it has been sent correctly • **error_invalid_login** if the login and/or the token do not match those used/returned by HttpAuth. • **error_invalid_doctor_name** if the doctor_name does not exist in the system. • **error_invalid_request** if not all the parameters are filled out. • **error_maximum_authorized_file_length_exceeded** if the file sent is too large. • **error_invalid_extension** if the file extension is not supported by the server. • **error_file_upload_size_zero** if the size of the uploaded file is null. • **error_stack_trace** followed by the stack trace of the exception if an exception has occurred while processing the query.	

Note:

- It is essential to guarantee that the Doctor Name is unique. That's why we recommend using the national physician ID number for the doctor_name.
- The doctor_name must exist beforehand in the Simplify data base. Please contact Simplify to insert the necessary doctor_name (s).
- The maximum size of the audio files is limited to 25 MB.

The query's multipart POST format

The query must be equivalent to a "Multipart Post" and "UTF-8" HTML form as follows:

```
<html>
  <head>
    <title>Simplify HttpSendFile Example</title>
  </head>
  <body>
  <center>

  Sending a report on the Simplify server with HttpSendFile <br><br>

      <!--
      Comments:
      The client program will need to emulate the following post form.
      Note that the type is:
      enctype="multipart/form-data" et acceptcharset="UTF-8
      -->

      <form action="http://service.simplify.fr/simplify/HttpSendFile"
       method="post"
       enctype="multipart/form-data" acceptcharset="UTF-8">

      <br> login       : <input type="text" size=30 name="login">
      <br> token       : <input type="text" size=30 name="token">
      <br> doctor_name : <input type="text" size=30 name="doctor_name">
      <br> label       : <input type="text" size=30 name="label">
      <br> file        : <input type="file" size=30 name="file"><br>

      <br> <input type="submit" value="Envoyer le fichier">

      </form>
      </center>
  </body>
</html>
```

For your texts, you can access this form at the following address: http://service.simplify.fr/simplify/HttpSendFileFormulaire.html.

3.3 HttpGetJobsInfo / Query to retrieve information from Jobs

This query allows the user to retrieve a list of Jobs and information associated with them according to different criteria. The information is retrieved in the form a series of lines, each line corresponding to a job. The information is divided by "**;**":

Job Id ; Status; Label ; Start Date ; End Date ; RTF File Size

Action	**HttpGetJobsInfo**		
Address	https://service.simplify.fr/simplify/HttpGetJobsInfo		
Call Type	GET or POST		
Description	Retrieving a list of jobs assigned to a Doctor.		
Query parameters	text	login	Login used during HttpAuth call
	text	token	Token returned by the HttpAuth call
	text	doctor_name	Name of the Doctor "owner" of Jobs.
	text	status	• **status_all** for all statuses. • **status_waiting_to_be_processed** • **status_being_processed** • **status_waiting_to_be_controlled** • **status_being_controlled** • **status_ready** • **status_archived**
	text	start_date	Date in the format YYYYMMDD when sent on the audio file server
	text	end_date	Date in the format YYYYMMDD for processing the report on the server.
	text	offset	Index starting at 0. (numerical value).
	text	limit	Number of maximum rows to retrieve (numerical value)
Response format	text/plain	• Liste of jobs corresponding to the query (one by row). • **error_invalid_login** if the login and/or the token do not match those used/returned by HttpAuth. • **error_invalid_doctor_name** if the doctor_name does not exist in the system. • **error_invalid_request** if all the parameters are not filled out or if a numerical value is incorrect. • **error_status_unknown** if the status is void. • **error_invalid_startdate** the start date is void. • **error_invalid_enddate** if the end date is void. • **error_stack_trace** followed by the stack trace of the exception if an exception has occurred while processing the query.	

Here are the default values for parameters left blank

Argument	Default value if left blank (empty field or at 0)
status	STATUS_ALL
start_date	today.
end_date	today.
offset	0
limit	1000

Note:

- The returned end date is **null** if the file is not yet being processed.

3.4 HttpRecvFile: Query to receive an RTF file.

This query makes it possible to retrieve an RTF report matching the audio file processed by Simplify and sent with HttpSendFile.

Action	HttpRecvFile		
Address	https://service.simplify.fr/simplify/HttpRecvFile		
Call Type	GET or POST		
Description	Retrieving a report in RTF format using the Simplify server.		
Query parameters	text	login	Login used during HttpAuth call
	text	token	Token returned by the HttpAuth call
	text	doctor_name	Name of the Doctor "owner" of the Report and Job ID.
	text	job_id	Job number (assigned by a previous call by httpsSendFile).
Response format	application/rtf	The flow corresponding with the RTF file of the requested report.	
	text/plain	If the report is not ready: • **status_waiting_to_be_processed** • **status_being_processed** • **status_waiting_to_be_controlled** • **status_being_controlled** If an error occurrs: • **error_status_unknown** if the status is unknown. • **error_invalid_jobid** if the job id does not exist or is not assigned to the doctor passed as a parameter. • **error_invalid_login** if the login and/or the token do not match those used/returned by HttpAuth. • **error_invalid_doctor_name** if the doctor_name does not exist in the system. • **error_stack_trace** followed by the stack trace of the exception if an exception has occurred while processing the query.	

Note:

- The response type is different depending on whether the file has been created (application/rtf) or not (text/plain with the status or error content).

3.5 Log-out query

This request allows the user to immediately log out of Simplify Service.

Action	HttpDisconnect	
Address	https://service.simplify.fr/simplify/HttpDisconnect	
Call Type	GET or POST	
Description	Logging out of the user program on the Simplify Server.	
Query parameters	text	login
	text	token
Response format	text/plain	• **ok** if logging-out is effective • **error_invalid_login** if the login and/or the token do not match with those used/returned by HttpAuth • **error_stack_trace** followed by the stack trace of the exception if an exception has occurred while processing the query.

3.6 Examples of calls from a client station using Java

The Eclipse project **simplify_http_api.zip** contains the source code and the libraries of a class example covering all APIs.

The Eclipse project is available here:
https://service.simplify.fr/simplify/download/http_api/simplify_http_api.zip

The Java class source code is available here:
https://service.simplify.fr/simplify/download/http_api/HttpAPiTest.java

4 HELP

For any technical question please contact Simplify's technical partner who manages the Simplify support service:

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