FLARES HTTP(S) Pull Protocol

FLARES 1.2.0

Document Version 1.0.0

Contents

1 Introduction

FLARES – Framework for Launching Applications enabling Rapid Evolution of Services, a Service Creation Environment is targeted to have a single platform for managing all the internal and external applications that provides services to the end user. The primary goals of FLARES are to enable service creation in a very less time thereby enabling rapid launch of the service, provide a single platform for operators and their content providers to have easy interface for service creation and management.

2 FLARES HTTP(S) Protocol

FLARES HTTP(S) interface format:

This document describes request and response flow between the FLARES http adapter and the internal/external applications which are running over HTTP/HTTPS.

All the request parameters or response headers are configurable and the below tables are showing the parameters which FLARES can send/receive towards the applications.

Call flow of the HTTP interface:

- FLARES Http adapter will initiate the connect request to application.
- HTTP request method is **POST**
- All the request parameters are passed as part of query string along with the URL.
- The request parameter keys and response header keys are as part of FLARES configurations which are available for modification through GUI.
- For the Success responses, response code should be HTTP Success (200) and the response content is as part of the HTTP body and the response parameters are as part of HTTP headers.
- For failure responses, the configured message at FLARES will be dispatched to the subscriber as a response.

Following are the parameters which can be configured as request parameters.

SNO	Parameter	Value
1	MSISDN	Subscriber MSISDN
2	MSC	Subscriber MSC
3	IMSI	Subscriber IMSI
4	HLR	Subscriber HLR
5	Connection Type	Subscriber connection type information 0 – All 1 – Prepaid 2 – Postpaid
6	Subscriber Location	Subscriber location information 0 – All 1 – Home 2 – Roam
7	Cell Id	Cell id from where request landed on FLARES

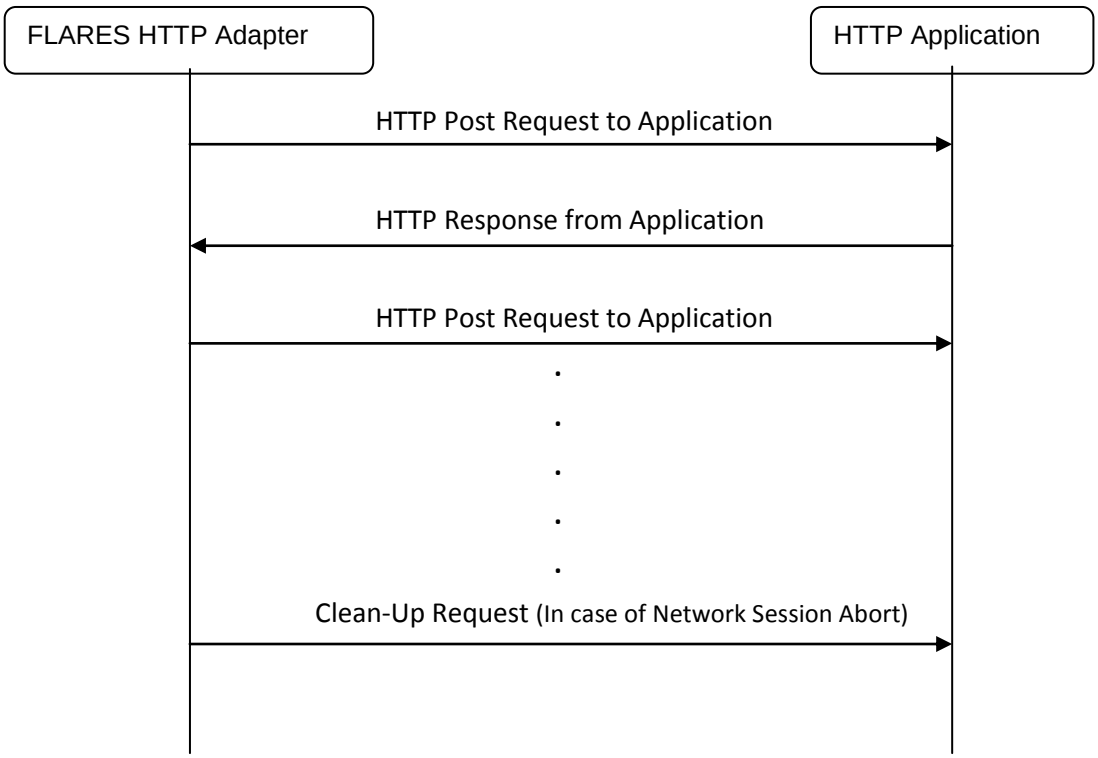
8	Language	Subscriber language code
9	Region	Subscriber region name
10	Subscriber Input	Current input of the subscriber
11	Session Id	Subscriber session id
12	Unique Identifier	Node Unique identifier
13	Multi access code	Configured multi access code for the node
14	Status Code	Status code for the cleanup
15	Date Format	Processed time at FLARES engine in a specific date format
16	New Request	Identifying whether the request is new free flow request or continuous request
17	Input parameters (Questionnaire)	Answers of the questions. Id's are starting from 201 and the order with respect to questionnaire order configuration at node level.
18	Static Content	Static contents which are configured at node level and the order with respect to the configuration at node level.
19	Free flow Parameters	Free flow parameters, which are transferring between the FLARES and application.
20	User tag	Tag name of the user id for authenticating the request
21	Password tag	Tag name of the password for authenticating the request
22	User Id	User name for authenticating the request
23	Password	Password for authenticating the request
24	Cleaner Tag	Tag name for identifying the request is cleanup request.
25	Cleaner Message	Message to be passed while doing the session cleanup at flares end.
26	Error Tag	Tag to denote the status code for cleaning the subscriber session.
27	MSISDN Tag	MSISDN of the subscriber to send the cleanup request towards application

Following are the parameters which applications can send as response headers

SNO	Parameter	Value
1	Charging Tag	Denotes charging is required or not
2	Amount Tag	Denotes how much amount to charge
3	Short code tag	Future purpose
4	Free flow state	Free flow state FC - Free flow Continue FB – Free flow Break.
5	Menu code	Menu code to process

Call flow diagram:

Below diagram shows the request/response call flow between the HTTP adapter and application.



3 Samples HTTP(S) Request/Response

Direct Request:

http://127.0.0.1:8080/application_uri?userid=app1&password=app1pwd&MSISDN=919845098450&MSC=919845098000&input=*121#

'userid' denotes the tag to identify the user id of the request
'app1' denotes the name of the user
'password' denotes the tag for the user password
'app1pwd' denoted the password of the user
'MSISDN' denotes the tag name for the subscriber MSISDN
'919845098450' denotes the subscriber MSISDN
'MSC' denotes the tag name for the subscriber MSC
'919845098000' denotes the subscriber MSC
'input' denotes the subscriber input for the request
'*121#' denotes the current subscriber input for the request

Direct Response:

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Path=/application_uri
charge: Y
amount: 100
Expires: -1
Pragma: no-cache
Cache-Control: max-age=0
Content-Type: UTF-8
Content-Length: 20

Response Message..

'charge' denotes whether charging is required or not.
'amount' denotes how much amount need to be charged
'Response Message..' denotes the application response.

Free flow request:

http://127.0.0.1:8080/application_uri?userid=app1&password=app1pwd&MSISDN=919845098450&MSC=919845098000&input=*121#

'userid' denotes the tag to identify the user id of the request
'app1' denotes the name of the user
'password' denotes the tag for the user password
'app1pwd' denoted the password of the user
'MSISDN' denotes the tag name for the subscriber MSISDN
'919845098450' denotes the subscriber MSISDN
'MSC' denotes the tag name for the subscriber MSC
'919845098000' denotes the subscriber MSC
'input' denotes the subscriber input for the request
'*121#' denotes the current subscriber input for the request

Free flow Response:

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Path=/application_uri
Freeflow: FC
charge: Y
amount: 100
Expires: -1
Pragma: no-cache
Cache-Control: max-age=0
Content-Type: UTF-8
Content-Length: 20

Welcome to the live chat rooms..

1. Informational
2. Whether
3. Adults

Note: If application wants to send the menu as a response message menu options should be separated by new line character.

'Freeflow' denotes whether subscriber session has to continue or not
FC – Freeflow continue
FB – Freeflow Break

'charge' denotes whether charging is required or not.
'amount' denotes how much amount need to be charged
'Response Message..' denotes the application response.

Cleanup Request:

http://127.0.0.1:8080/application_uri?userid=app1&password=app1pwd&MSIDN=919845098450&clean=clean-session&status=522

'userid' denotes the tag to identify the user id of the request
'app1' denotes the name of the user
'password' denotes the tag for the user password
'app1pwd' denoted the password of the user
'MSISDN' denotes the tag name for the subscriber MSISDN
'919845098450' denotes the subscriber MSISDN
'MSC' denotes the tag name for the subscriber MSC
'919845098000' denotes the subscriber MSC
'clean' denotes the tag to identify the cleaner request
'clean-session' denotes the message to identify the cleaner request
'status' denotes the tag to identify the status tag
'522' denotes the reason for cleaning the subscriber session

Cleanup Response:

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Path=/application_uri
Expires: -1
Pragma: no-cache
Cache-Control: max-age=0

Document Change History

Table 3: Document Change History			
Version Number	**Description of Changes**	**Author**	**Comments**
1.1.0	Initial Document	Nagaraju Amarana	
1.1.1	Updated with the cleanup and authentication info, sample examples	Nagaraju Amarana	
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