Paris Airports - Web API
Airports Path finding

AÉROPORTS DE PARIS

Airports path finding
Hackathon – A660

Version			
Version	**Date**	**writer**	**Comment**
1.0	19/05/2015	Olivier MONGIN	Document creation

Rédacteur : Olivier.MONGIN@adp.fr	Date : 19/05/2015
Approbateur :Olivier MERCIER	Date : 29/05/2015

SOMMAIRE

DIRECTION DES SYSTEMES D'INFORMATION

AÉROPORTS DE PARIS

1 Introduction

This web API is a restful web API. You can find a way from start POI to end POI with this function (path way is fixed to STANDARD).

1.1 Protocol

This API use http protocol. You can decide to use JSON or XML. If you are building Web Pages for AJAX calls, then JSON is a good choice.

2 Web service

2.1 Objects

2.1.1 Path

This object is used to find a way from start POI to end POI.

Name	Type	Description
accessFilter	String	If the path have a access filter
EndPoiId	Int	End POI id
StartPoiId	Int	Start POI id
Status	String	
Steps	Step (object list)	List of steps

Step definition

Name	Type	Description
Distance	Float	Distance in meter
Duration	Float	Duration in second
SegmentType	String	Type of path segment (STD=standard)
endPoint	Object Point	End Point
startPoint	Object Point	Start Point

Point definition

Name	Type	Description
Alt	Float	Altitude
areaType	String	Zone type (exemple : ZP=>Public zone)
floorID	Int	Floor number (for KML maps)
Lat	Double	Latitude
Lng	Double	Longitude
mapId	Int	Map ID (for KML maps)
mapName	String	Map name
TerminalId	Int	Terminal ID
TerminalName	String	TerminalName (for KML maps = description of the terminal placemark and KML file)

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2.1.1.1 Request

You can use this API with HTTP GET.

	Request URI	Version
GET	*http://hackathonapi.aeroportsdeparis.fr/ADP.WebAPI.PathFinding/api/Paths?apiKey={apiKey}&idPOI_Start={idPOI_Start}&idPOI_End={idPOI_End}*	HTTP/1.1

You can use parameters

Parameters name	Type	Description
APIKey	string	API authentication token
idPOI_Start	Int	Start POI id
idPOI_End	Int	End POI id

2.1.1.2 Response

Response body:

```
{
"accessFilter":"STANDARD",
"EndPoiId":2798,
"StartPoiId":1857,
"status":"OK",
"steps":[
        {"distance":11.266433155582407,
        "duration":12.3930759,
        "SegmentType":"STD",
        "endPoint":
                {"alt":112.0,
                "areaType":"ZP",
                "lat":49.003280639648438,
                "lng":2.576751708984375,
                "mapId":367,
                "mapName":"Terminal 2E - Niveau 2",
                "terminalId":16,
                "terminalName":"2E"
                },
        "startPoint":
                {"alt":112.0,
                "areaType":"ZP",
                "lat":49.0032844543457,
                "lng":2.5765976905822754,
                "mapId":367,
```

```
                "mapName":"Terminal 2E - Niveau 2",
                "terminalId":16,
                "terminalName":"2E"
                }
        },
        {"distance":10.292141809281713,
        "duration":11.3213568,
        "SegmentType":"STD",
        "endPoint":
                {"alt":112.0,
                "areaType":"ZP",
                "lat":49.003376007080078,
                "lng":2.5767476558685303,
                "mapId":367,
                "mapName":"Terminal 2E - Niveau 2",
                "terminalId":16,
                "terminalName":"2E"
                },
        "startPoint":
                {"alt":112.0,
                "areaType":"ZP",
                "lat":49.003280639648438,
                "lng":2.576751708984375,
                "mapId":367,
                "mapName":"Terminal 2E - Niveau 2",
                "terminalId":16,
                "terminalName":"2E"
                }
        }]
}
```