

Additional information on Rejseplanen Tariff requests to the HAFAS.api

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Hacon Ingenieurgesellschaft mbH Lister Straße 15 30163 Hannover Germany



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Additional information on Rejseplanen Tariff requests to the HAFAS.api

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1 tripInternal with getTariff=profilestring

Instead of tripInternal the usual trip service of the APi Server will be used. Two parameters are needed:

- tariff=1 (this turns on the fare module)
- travellerProfileData=profilestring (this is the same JSON string as used in getTariff for tripInternal)

The result will contain TariffResult with fareSetItems and fareItems each containing a list of params as documented in the API Server documentation. All pertinent fare related data will be in these params, much more than was available in old tripInternal request.

Example https://{{API Server URL}}/trip?accessId={...}&tariff=1&travellerPro-fileData=%7B%22trf%22%3A%5B%22RK%22%2C%22ST%22%2C%22SP%22%5D%2C%22psg%22%3A%5B%22A%22%2C%22C%22P%22%2C%22Y%22%5D%7D&originExtId=8600626&destEx-tId=8600512

travellerProfileData = {"trf":["RK","ST","SP"],"psg":["A","C","P","Y"]}

The travellerProfileData JSON structure supports the following input fields.

Parameter		Туре	Description		
sd	0	Integer/String	Sale date for selecting the tariff data set. Format: YYYYMMDD/"YYYY-MM-DD" Default: <today></today>		
bc	0	String	 "CHEAPEST_AVAIL": Return only the cheapest business class available for the journey 		
			 "ALL": Return all possible business classes available for the journey 		
			Default: "ALL"		
trf	0	Array of Strings	Tariff types to calculate fares for.		
			"RK": Rejsekort		
			"ST": Single Ticket		
			"SP": Season Pass		
			"MT": Multi-Ride Ticket		
			"FT": Flextrafik		
			"DO": DSB Orange		
			"DOF": DSB Orange Fri		
			"AT": Air Traffic		
			 "PP": Fares via Pricing Proxy 		
			"AOD": Arriva OneDay		
			Default: "RK"		
psg	0	Array of Strings	Passenger types to calculate fares for.		
			• "A": Adult		



Parameter		Туре	Description
			• "B": Bike
			• "C": Child
			• "D": Dog
			"H": Handicapped
			"P": Pensioner
			• "Y": Young
			Default: "A", "C", "P", "Y", "B"
sp	0	Object with special Season Pass configu- ration	
zonal and a relational season pass are a "prefer": Only return the zonal season pass		Allows to specify how to handle situations where both a zonal and a relational season pass are available: "prefer": Only return the zonal season pass "norel": Only return the relational season pass (default)	
sp.ig- noreMinZones	0		true: Return season pass options (with 2 zones each) if the journey is inside 1 zone (works for Takst Vest and Zealand). false (default): Do not return season passes if the journey is inside 1 zone.
rk	0	Object with Rejskort card information	
rk.sn	0	Integer/String	Serial number of Rejsekort Card (has no effect if "RK" is not included in trf)

2 stRoutes

2.1 With origin and destination

This service will continue to be called stRoutes. An interval search is performed.

Response is contained in an envelop structure. The elements contained at the top level are dialectVersion, serverVersion, requestId, technicalMessages, res or err

The res or err element contained in the envelop structure is the same as the response of the old ReST API. Users of the old ReST API can ignore all other elements and just work with res

Example

https://{{API Server URL}}/stRoutes?acces-sId={...}&oStop=8600512&dStop=8600611&&psgs=%5B%22A%22,%22C%22%5D&&travel_on=20230422&



https://{{API Server URL}}/stRoutes?accessId={...}&oStop=479321200&dStop=450564300&psgs=[%22A%22,%22C%22]&travel_on=202 30423&format=xml

2.2 With origin only (on Zealand only)

This service is called stRoutesAddon. This service does not perform interval search.

Response is contained in an envelop structure. The elements contained at the top level are dialectVersion, serverVersion, requestId, technicalMessages, res or err

The res or err element contained in the envelop structure is the same as the response of the old ReST API. Users of the old ReST API can ignore all other elements and just work with res

Example:

```
https://{{API Server URL}}/stRoutesAddon?acces-
sId={...}&oStop=8600611&psgs=%5B%22A%22,%22C%22%5D&mode=DSB-2
```

3 spPrice

3.1 With origin and destination, optionally via

This service will continue to be called spPrice. An interval search is performed. The parameter ctxRecon is not supported anymore.

Response is contained in an envelop structure. The elements contained at the top level are dialectVersion, serverVersion, requestId, technicalMessages, res or err

The res or err element contained in the envelop structure is the same as the response of the old ReST API. Users of the old ReST API can ignore all other elements and just work with res

Example

```
https://{{API Server URL}}/spPrice?accessId={...}&for-
mat=json&oaddr=Odense+St.&daddr=Ringstedt+St.&psgs=%5B%22A%22,%22C%22%5D&jour-
ney_info=1&sort=frequency-
```

https://{{API Server URL}}/spPrice?accessId={...}&format=json&oaddr=Svend-borg+Gymn.&daddr=Ørbæk+Hallen&psgs=%5B%22A%22,%22C%22%5D&issue_on=2023-04-23&journey_info=1&sort=frequency-

3.2 With reconstruction context

This service is called spPriceReconstruction. Parameter ctxRecons is supported. Parameters oaddr, daddr, vaddr are not supported. A reconstruction request is performed without interval search.

Response is contained in an envelop structure. The elements contained at the top level are dialectVersion, serverVersion, requestId, technicalMessages, res or err



The res or err element contained in the envelop structure is the same as the response of the old ReST API. Users of the old ReST API can ignore all other elements and just work with res

Example

https://{{API Server URL}}/spPriceReconstruction?accessId={...}&for-mat=json&psgs=%5B%22A%22%2C%22C%22C%22P%22%2C%22Y%22%2C%22H%22%2C%22B%22%5D&issue_on=2023-06-12&with_purse=false&journey_info=0&valid_from=2023-06-12&ctxRecons=T%24A%3D1%400%3DVejle%20St.%40L%3D8600073%40a%3D128%40%24A%3D1%400%3DEs-

bjerg%20St.%40L%3D8600215%40a%3D128%40%24202306061649%24202306061818%24Re%2033 54%24%241%24%24%24%24%24|3520,3521,3527,3529,3530,3535,3538,3540,3542,3548,3549,3573,3574,3610,3614,3620,3622,3660,3666,3667,3676

4 Others

Confer the WADL of the API Server.

All responses will be contained in an envelope structure. The elements contained at the top level are dialectVersion, serverVersion, requestId, technicalMessages, res or err

The res or err element contained in the envelop structure is the same as the response of the old ReST API. Users of the old ReST API can ignore all other elements and just work with res

Examples:

```
StStops:https://{{API Server URL}}/stStops?accessId={...}&format=xml convertZones:https://{{API Server URL}}/convertZones?acces-sId={...}&if=4&of=8&z=1041,1042,1003,1004&o=1002&d=1040&uc=self&format=json spPriceForZones:https://{{API Server URL}}/spPriceForZones?accessId={...}&format=json&zn=5&fs=7 spDailyZonalPrices:https://{{API Server URL}}/spDailyZonalPrices?acces-sId={...}&format=xml&fs=7
```

5 PolygonForZone

This service is not part of API Server but a HAITI request, zoneNumber and date. <HAITI-URL>?style=dsbtarif&reduce=1&getcontent=<zoneNumber>&date=<date>

6 Tariff Data Versions

The request for requesting the tariff data versions from the Journey Planner is now a HTTP POST request. The following uses CURL but it may be called via Postman or another HTTP POST tool.



```
curl --location --request POST 'https://rkrp.hafas.cloud/bin/iphone.exe' --
header 'Accept: application/json' --header 'Content-Type: application/json' --
data-raw '{
        "auth": {
                 "aid": "j1sa92pcj72ksh0-web",
"type": "AID"
        "client": {
                 "id": "DK",
                 "type": "WEB"
        "formatted": false,
        "id": "87g85kuk4w8b9w8x",
        "lang": "dan",
        "svcReqL": [
                         "id": "1|1|",
                         "meth": "ServerInfo",
                         "req": {
                                  "getTariffInfo": true
                 }
        "ver": "1.59"
} '
```

7 Document History

Date	Version	Author	Remarks
2023-05-31	1.0	Markus Franz	Initial Version
2023-11-22	2.0	Kshitij Kulshreshtha	