

Swedavia RVU API



apideveloper.swedavia.se



Using the RVU API

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1 THE RVU API

The RVU API offers a way of sending the result of a passenger survey through an API over HTTPS.

1.1 Date and time values

Datetimes should be sent in UTC format.

2 ENDPOINTS

This section explains the endpoint of the RVU API. Further, request body and possible responses are explained.

2.1 Survey

The endpoint is designed to receive data from surveys conducted at Swedavia airports. One request should be performed per survey response, and the request body should contain the data from the survey.

POST <https://api.swedavia.se/rvu/v1/survey>

2.1.1

Request Body

The column 'Null' describes whether the property is nullable or not.

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>CorrelationId</i>	No	String	Unique identifier for the survey response. Should be generated by the party responsible for conducting the survey.
<i>SupplierId</i>	No	String	Identifier of the party responsible for conducting the survey. This constant will be agreed upon in cooperation with Swedavia.
<i>AirportIata</i>	Yes	String	The IATA of the airport where the survey was conducted.
<i>DateOfInterview</i>	Yes	String (UTC-formatted DateTime string)	Date and time when the survey was conducted, in the format yyyy-MM-ddTHH:mm:ss.FFF Z.
<i>PassengerInformation</i>	No	Object (PassengerInformation)	Data regarding the passenger responding to the survey. See 2.1.1.1 for explicit object details.
<i>FlightInformation</i>	No	Object (FlightInformation)	Data related to the flight used by the respondent of the survey. See 2.1.1.2 for explicit object details.
<i>AirportTransferInformation</i>	No	Object (AirportTransferInformation)	Data regarding how the respondent traveled to the airport. See 2.1.1.3

			for explicit object details.
<i>TripDetails</i>	No	Object (TripDetails)	Data related to the overall trip the respondent is traveling. See 2.1.1.4 for explicit object details.
<i>AirportStayDetails</i>	No	Object (AirportStay-Details)	Data regarding how the respondent behaved during their stay at the airport. See 2.1.1.5 for explicit object details.
<i>InterviewMethod</i>	Yes	Integer	Key representing which type of method that was used for this interview. See 2.1.2.6.1 for valid options.
<i>Weight</i>	Yes	String	Weight for the response.
<i>ReasonForRejection</i>	Yes	Integer	Key representing the reason why the respondent did not participate in the survey. See 2.1.2.6.2 for valid options.

2.1.1.1 *PassengerInformation*

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>Age</i>	Yes	Integer	Key representing a range of ages, mapping to the age of the respondent. See 2.1.2.1.3 for explicit object details.
<i>Sex</i>	Yes	Integer	Key representing the sex of the passenger. See

			2.1.2.1.1 for valid options.	
	<i>HomeCountryCode</i>	Yes	String	The country code where the respondent lives.
	<i>HomePostalCode</i>	Yes	String	String with digits representing the postal code where the respondent lives.
	<i>NoOfDomTripsR12</i>	Yes	Integer	Number of domestic trips the respondent has done the last twelve months.
	<i>NoOfIntTripsR12</i>	Yes	Integer	Number of international trips the respondent has done the last twelve months.
	<i>CopenhagenMalmoTravelsR12</i>	Yes	Integer	Number of trips the respondent has done that originates from Copenhagen and results in a flight from Sturup airport.
	<i>TravelFrequency</i>	Yes	Integer	Key representing the category of travel frequency the respondent belongs to. See 2.1.2.1.2 for valid options.

2.1.1.2

FlightInformation

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>TimeTableDeparture</i>	Yes	String (UTC-formatted DateTime string)	The date and time when the respondent's flight is scheduled to depart.
<i>ActualDepartureDate</i>	Yes	String (UTC-formatted DateTime string)	The date and time when the

<i>FlightId</i>	Yes	String	respondents flight actually departs. The id of the flight which the respondent is booked to fly.
<i>CodeShare</i>	Yes	String	Alternate flight-id if the booked flight is shared by multiple airlines.
<i>FlightType</i>	Yes	String	Indicates if the flight traveled by the respondent is an arrival (“A”) or departure (“D”).
<i>SubsequentDestination</i>	Yes	String	If the trip contains multiple transfers, this correlates to the airport IATA of the next transfer flight destination.
<i>FinalDestination</i>	Yes	String	The airport IATA of the final destination of the trip.
<i>Terminal</i>	Yes	Integer	Key representing the terminal where the flight is departing. See 2.1.2.2.1 for valid options.
<i>Gate</i>	Yes	String	The gate where the flight is departing from.

2.1.1.3

AirportTransferInformation

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>TransportType</i>	Yes	Integer	Key representing the type of transport used for traveling to the airport. See 2.1.2.3.1 for valid options.
<i>Car</i>	No	Object (Car)	If the respondent was traveling to the

airport with car, this property is used for additional details about the car. See 2.1.1.3.1 for explicit object details.

2.1.1.3.1 Car

<i>Property</i>		<i>Data Type</i>	<i>Description</i>
<i>EnvironmentCar</i>	Yes	Integer	Key deciding whether the car used for traveling to the airport could be classified as an environment friendly car. See 2.1.2.3.2 for valid options.
<i>PeopleInCar</i>	Yes	Integer	Key representing how many passengers the car carried to the airport. See 2.1.2.3.4 for valid options.
<i>ParkingLot</i>	Yes	Integer	Key representing the parking lot where the car was parked. See 2.1.2.3.3 for valid options.

2.1.1.4

TripDetails

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>ArrivalTimeToAirport</i>	Yes	String (UTC-formatted DateTime string)	Date and time when the respondent arrived at the airport.
<i>DaysOfTravel</i>	Yes	Integer	How many days the trip will last.
<i>DirectFlight</i>	Yes	Boolean	True if the respondent will reach their destination through a direct flight.
<i>Transfer</i>	Yes	Object (Transfer)	Leave null if respondent is using a direct flight. Contains additional information when the respondent is using transfer flights. See 2.1.1.4.1 for explicit object details
<i>CheckInType</i>	Yes	Integer	Key representing how the respondent was checking in. See 2.1.2.4.2 for valid options.
<i>PurposeOfTravel</i>	Yes	Integer	Key representing the purpose of the respondent's travel. See 2.1.2.4.3 for valid options.
<i>OriginAirportIata</i>	Yes	String	The IATA of the airport where the trip started.
<i>OriginPostalCode</i>	Yes	String	String with digits representing the postal code where the trip started.

2.1.1.4.1 Transfer

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>MultipleTransfers</i>	Yes	Integer	Key describing however the transfer has multiple legs or not. See 2.1.2.4.1 for valid options.
<i>FirstPointOfTransfer</i>	Yes	String	Airport IATA of the first transfer flight destination.
<i>SecondaryTransferFlight</i>	Yes	String	Airport IATA of the second transfer flight destination.

2.1.1.5 *AirportStayDetails*

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>VisitedFoodAndBeverages</i>	Yes	Boolean	True if the respondent has visited any establishment serving food or beverages.
<i>TakeAwayFood</i>	Yes	Integer	Key representing if the respondent did takeaway food or beverages from any establishment. See 2.1.2.5.3 for valid options.
<i>ConsumedFood</i>	Yes	[Integer]	Array of keys representing the types of food the respondent has consumed during the airport stay. See 2.1.2.5.1 for valid keys.
<i>FoodSpending</i>	Yes	[Object] (Spending)	An array of spending objects representing the food spending at the airport. One

			object represents the total amount of spending for one currency. See 2.1.1.5.1 for explicit object details.
<i>VisitedShops</i>	Yes	Boolean	True if the respondent has visited any shops.
<i>DidPurchase</i>	Yes	Boolean	True if the respondent did buy anything from a store at the airport.
<i>ShopTypesVisited</i>	Yes	[Integer]	An array of keys representing the different types of shops. See 2.1.2.5.2 for valid options.
<i>RetailSpending</i>	Yes	[Object] (Spending)	An array of spending objects representing the retail spending at the airport. One object represents the total amount of spending for one currency. See 2.1.1.5.1 for explicit object details.
<i>GroupSpendingDetails</i>	Yes	Object (GroupInfo)	An object containing information regarding the overall spending of the group the respondent is traveling together with. See 2.1.1.5.2 for explicit object details.

2.1.1.5.1 Spending

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>SpendingAmount</i>	No	Integer	The total amount spent with this currency.
<i>SpendingCurrency</i>	Yes	String	The ISO 4217 code for the currency.

2.1.1.5.2 GroupInfo

<i>Property</i>	<i>Null</i>	<i>Data Type</i>	<i>Description</i>
<i>PeopleInGroup</i>	Yes	Integer	The number of people in the group.
<i>GroupSpending</i>	Yes	[Object] (Spending)	An array of spending objects representing the retail spending at the airport for the group. One object represents the total amount of spending for one currency. See 2.1.1.5.1 for explicit object details.

2.1.2 Constants

Throughout the API some constants are used as keys for fixed value options. The keys are represented as integers. In the tables below, these keys are listed from the overall API contract structure.

2.1.2.1 *PassengerInformation*

2.1.2.1.1 Sex

<i>Key</i>	<i>Value</i>
1	Male
2	Female
3	Other
4	Opt out

2.1.2.1.2 TravelFrequency

<i>Key</i>	<i>Value</i>
1	Every week
2	Once every month
3	Once every quarter
4	Once every six months
5	Once every year
6	Less often
7	Unknown

2.1.2.1.3 Age

<i>Key</i>	<i>Value</i>
1	16 – 19
2	20 – 25
3	26 – 34
4	35 – 49
5	50 – 64
6	65+

2.1.2.2 *FlightInformation*

2.1.2.2.1 Terminal

<i>Key</i>	<i>Value</i>
0	Missing
1	Arlanda T2
2	Arlanda T3 Domestic
3	Arlanda T4 Domestic
4	Arlanda T5a
5	Arlanda T5b
6	Arlanda T5f
11	Landvetter Domestic
12	Landvetter International
13	Sturup
14	Bromma
15	Luleå
16	Umeå

2.1.2.3 *AirportTransferInformation*

2.1.2.3.1 TransportType

<i>Key</i>	<i>Value</i>
-1	N/A
1	Arlanda – Returning car (dropped off/picked up at the airport).
10	Arlanda – Upptåget

100	Arlanda – Shuttle bus from Stockholm.
101	Arlanda – Airport coach from Västerås.
11	Arlanda – Other train
12	Arlanda – Transfer flight
14	Arlanda – Conference at the airport
15	Arlanda – Other
16	Arlanda – Swebus from Stockholm
17	Arlanda – Stay at airport, arrived with other flight
18	Arlanda – Supershuttle bus.
19	Arlanda – SL Pendeltåg
2	Arlanda – Car parked at the airport
21	Landvetter – Returning car (dropped off/picked up at the airport).
23	Landvetter – Taxi or limo
24	Landvetter – Rental car
25	Landvetter – Airport bus from Göteborg
26	Landvetter – Airport bus from Borås
27	Landvetter – Other bus
28	Landvetter – Transfer flight
3	Arlanda – Taxi or limo
30	Landvetter – Conference
31	Landvetter – Other
32	Landvetter – Swebus from Göteborg
33	Landvetter – Stay at airport, arrived with other flight
34	Landvetter – Shuttle bus
35	Landvetter – Hotel
4	Arlanda – Rental car
41	Sturup – Returning car (dropped off/picked up at the airport).
42	Sturup – Car parked at the airport
43	Sturup – Airport bus from Malmö
44	Sturup – Airport bus from Lund
47	Sturup – Taxi or limo
48	Sturup – Rental car
49	Sturup – Hotel
5	Arlanda – Airport bus from Stockholm
50	Sturup – Transfer flight
51	Sturup – Other
52	Sturup – Stay at airport, arrived with other flight
53	Sturup – Bus from Copenhagen

54	Sturup – Shuttle bus from Svedala
55	Sturup – Other bus
6	Arlanda – Bus from Uppsala
61	Bromma – Returning car
62	Bromma – Car parked at the airport
63	Bromma – Taxi or limo
64	Bromma – Rental car
65	Bromma – Airport bus from Stockholm
66	Bromma – Airport bus from Västerås or Enköping
67	Bromma – SL Bus
68	Bromma – Other bus
69	Bromma – Transfer flight
7	Arlanda – Other bus
70	Bromma – Stay at airport, arrived with other flight
71	Bromma – Other
72	Bromma – Tram
8	Arlanda – Arlanda Express
81	Luleå – Returning car
82	Luleå – Car parked at the airport
83	Luleå – Taxi or limo
84	Luleå – Rental car
85	Luleå – Airport bus
86	Luleå – Other bus
87	Luleå – Stay at airport, arrived with other flight
88	Luleå – Other
89	Luleå – Transfer flight
9	Arlanda – X200 Train
91	Umeå – Car returning (dropped off/picked up at the airport).
92	Umeå – Car parked at the airport
93	Umeå – Taxi or limo
94	Umeå – Rental car
95	Umeå – Airport bus
96	Umeå – Other bus
97	Umeå – Stay at airport, arrived with other flight
98	Umeå – Other
99	Umeå – Transfer flight
20	Arlanda – Hotel
102	Arlanda – Carpool
103	Arlanda – Airport Coach, door to gate.
104	Bromma – Carpool

105	Bromma – Bicycle
106	Landvetter – Carpool
107	Luleå – Bicycle
108	Umeå – Bicycle
22	Landvetter – Parked car

2.1.2.3.2 EnvironmentCar

<i>Key</i>	<i>Value</i>
1	Yes
2	No
3	Unknown

2.1.2.3.3 ParkingLot

<i>Key</i>	<i>Value</i>
1	Arlanda – Swedavia Multistorey
-1	N/A
11	Bromma – Swedavia Multistorey
12	Bromma – Bromma Blocks
13	Bromma – Other
14	Bromma – Swedavia parking outside, close to terminal.
21	Landvetter – Swedavia Multistorey
23	Landvetter – Swedavia outdoor car park
24	Landvetter – Other company car park
31	Sturup – Swedavia Multistorey
33	Sturup – Swedavia car park, no shuttle
34	Sturup – Other company car park
4	Arlanda – Other company car park
5	Arlanda – Swedavia outdoor parking, walking distance.
7	Arlanda – Outdoor car park shuttle

2.1.2.3.4 PeopleInCar

<i>Key</i>	<i>Value</i>
0	Unknown
1	One Person
2	Two Persons
3	Three Persons
4	Four Persons
5	Five Persons
6	Six Persons
7	Seven Persons

2.1.2.4 *TripDetails*

2.1.2.4.1 TransferType

<i>Key</i>	<i>Value</i>
1	Transfer
2	Multiple transfers

2.1.2.4.2 CheckInType

<i>Key</i>	<i>Value</i>
1	Check-in desk
2	Automatic machine
3	Mobile phone
4	Computer
5	At gate
6	VIP Service
7	Transfer
8	Other

2.1.2.4.3 PurposeOfTravel

<i>Key</i>	<i>Value</i>
1	Leisure – Tourist
2	Leisure – Friends & relatives
3	Leisure – Other
4	Business – Meeting
5	Business – Conference
6	Business – Commute
7	Business – Other
8	Leisure – Family Property
9	Leisure – Rental property above 15 days

2.1.2.5 *AirportStayDetails*

2.1.2.5.1 FoodType

<i>Key</i>	<i>Value</i>
1	Hot food
2	Salad, sandwich & yoghurt
3	Bun cake
4	Non-alcoholic beverage
5	Alcoholic beverage
6	No answer

2.1.2.5.2 ShopType

<i>Key</i>	<i>Value</i>
1	Perfume & cosmetics

2	Wine, beer, alcohol & tobacco
3	Electronics & camera
4	Magazines
5	Books
6	Sweets & chocolates
7	Food delicatessen
8	Fashion, watches & clothes
9	Toys
10	Souvenirs & gifts
11	Other
12	No information

2.1.2.5.3 TakeAwayFood

<i>Key</i>	<i>Value</i>
-1	Missing
0	Did not order
1	Did order, but not takeaway. Everything was consumed at the restaurant.
2	Did order, only takeaway.
3	Did order, both takeaway and restaurant order.

2.1.2.6 *SurveyResponse*

2.1.2.6.1 InterviewMethod

<i>Key</i>	<i>Value</i>
-1	N/A
1	Passenger
2	Interviewer

2.1.2.6.2 ReasonForRejection

<i>Key</i>	<i>Value</i>
1	Refusal
2	Lack of time
3	Language difficulties
4	Other
5	Ok for interview

2.1.3 Responses

Upon requesting the survey endpoint, the API will respond with an HTTP response-code after processing the request. The various codes all have different meaning, and marks if the request was successful. In addition to the HTTP

response-code, the response may contain a body with an error message. Below, all possible responses are explained.

2.1.3.1 200 – OK

If the request was accepted, the API will respond with HTTP-code 200. The request was valid, and the server could successfully receive and process the request.

2.1.3.2 400 – Bad Request

When clients perform requests with an invalid body, the API will respond with HTTP-code 400. The error could be considered to originate from the client. The API may in some cases provide an error message in the response body to help locate the part of the request which is considered to be invalid.

2.1.3.3 500 – Internal Server Error

If a valid request is performed from the client but any error occur on the server after the request is received, the API will respond with an HTTP status-code 500. The client has to send the request again to make sure the data is received by the server. A retry pattern on the client side is recommended to avoid temporary errors of this type. However, if the error persists for a longer time, contact api@swedavia.se for support.