

Singapore Airlines AppChallenge API Specification Document

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1. Objective

This document defines the detailed specifications for the SIA APIs being exposed for the purpose of the AppChallenge.

2. Definitions and Abbrieviations

Acronym	Description		
PNR	Passenger Name Record		
RBD	Reservation Booking Designator		

3. Overview on Flow and Connection Details

3.1 System Endpoints

The APIs have been exposed through AWS API Gateway. The endpoint to use is of the form: <endpoint <a href="en

Where,

<endpoint> will be provided in a Postman Collections file,
<service> and <operation> are defined in subsequent pages.

Also note that the Stub Requests for Quickstart are provided in a separate Postman Collections (ref: https://www.getpostman.com/collection) file. You are highly recommended to install the chrome app in order to use this starter kit (download here: https://www.getpostman.com/).

3.2 Accessing APIs

APIs are accessed by triggering a HTTP POST call to the respective endpoints in 3.1, along with the correct Service and Operation values in Section 4.

All request/response are in JSON format.

The Postman Collection that will be provided to complement this document contains sample requests for the entire suite of APIs. Modify the values where applicable, and you are ready to test the services.

3.3 Overall Flow

The APIs that have been exposed can be split into 3 categories: Krisflyer, Booking, and Checkin.

Krisflyer service allows you to retrieve the profile information for dummy Accounts created in our Krisflyer programme (in test environment). The more interesting and challenging ones are the Booking and Checkin flow. Here the session, and the order of API calls play an important role. Given below are 2 possible orders of calls that can be made:

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Flow 1	Flow 2
Booking	Booking
Flight Search	Flight Search
Get Fare	Get Fare
Extend Session	Extend Session
Create PNR	Create PNR
GetPNR (for verification)	GetPNR (for verification)
Confirm PNR	GetSeatMap
session ends here	SelectSeat
GetSeatMap	Confirm PNR
SelectSeat	GetPNR (for verification)
Checkin	session ends here
GetPassenger (retrieve new IDs)	
UpdatePassenger (must update passport/birthday	GetPassenger (retrieve new IDs)
details)	UpdatePassenger (must update passport/birthday
Checkin	details)
CancelCheckin (to reuse same passenger for checkin)	Checkin
	CancelCheckin (to reuse same passenger for checkin)
GetBoardingpass (after update and checkin)	
	GetBoardingpass (after update and checkin)

Flow Considerations:

- 1. A sessionId is returned in the response from FlightSearch which will be used for all subsequent calls that are part of the session. All calls that are part of the session are only to be called once. Any more than one call per operation, and you would have to start over. These are the calls that are "outside" the session:
 - a. Get PNR
 - b. Get Seat Map
 - c. Select Seat
- 2. Since the above calls are outside the session, it is possible that in flow 2 we exceed the time limit of the session (~15mins) and hence we have to make periodic calls to ExtendSession
- 3. A temporary booking number (PNR) is created after the CreatePNR call, but this is transient until the ConfirmPNR call is made. If session times out before ConfirmPNR, the PNR is lost, and we have to restart from FlightSearch.
- 4. Once ConfirmPNR is successfully executed, the PNR becomes permanent and the session is no longer a concern.
- 5. Only after a confirmed booking can the checkin services be used.
- 6. The flightIDs and passengerIDs will be different in the Checkin Service calls. Please use the GetPassenger operation to get the IDs to use for the checkin services.

Data Considerations:

- 1. All Codes (Country, City, Airport, etc) follow the IATA standard.
- 2. Test flights with dummy data have been setup for this AppChallenge. They are:
 - a. $SQ366 SIN -> FCO \text{ on } 1^{st}, 7^{th}, 15^{th}, 22^{nd} \text{ and } 29^{th} \text{ Nov.}$

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b. SQ365 – FCO->SIN on 1st, 7th, 15th, 22nd and 29th Nov.

Note that only the above flight can be searched/booked/checked-in for the AppChallenge. Any deviation would result in a blanket "Invalid Request Body" response.

- 3. For the Krisflyer Service, 10 dummy accounts have been created for this AppChallenge. They are:
 - a. 8987011927 (tier: KFLY)
 - b. 8987011938 (tier: KFLY)
 - c. 8987011949 (tier: KFES)
 - d. 8987011916 (tier: KFEG)
 - e. 8987011953 (tier: QPP)
 - f. 8987011964 (tier: QPP)
 - g. 8987011975 (tier: TPP)
 - h. 8987011986 (tier: LPP)
 - i. 8987011997 (tier: KFTP)
 - j. 8987011905 (tier: ESLP)

Any other KFNumber requested will also result in a blanket "Invalid Request Body" error.

- 4. To fully understand the Krisflyer Profile response, research further and fully understand the Krisflyer programme. This link should help you get sufficient information: https://www.singaporeair.com/en_UK/sg/ppsclub-krisflyer/
- 5. Since the document is long, suggestion is to read the "Description" of each operation and then dive deeper into the ones that you are interested.

Errors Considerations:

- 1. An error message suggesting that the session has timed out necessitates that you restart from flight search
- 2. Almost all of the request validation will result in a blanket "Invalid Request Body" error message. Hence you are strongly recommended to use the Postman collection given to you by modifying appropriate values before beginning to convert it into code.

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4 API List & Specifications

Booking APIs

API	Description				
flight/search	An API-version of the usual Flight Search that happens in the Website. Returns				
	possible routes from origin to destination and also the total fares. For return-				
	journeys, all accepted combinations of onward and return flights is also returned				
	(allowed matching is fixed).				
flight/getfare	Used to retrieve the breakdown of fares for the chosen flight. This call is				
	important for the back-end systems to register the fare for the selected flight				
	combination.				
pnr/create	Creates a temporary PNR to store the passenger information. This PNR is				
	transient and will be invalidated within roughly 10 mins, unless the PNR is				
	confirmed, or the session is extended (refer to calls below).				
pnr/get	Retrieves the information in the PNR, such as passenger information, flight				
	information, and other services bought by the passenger.				
seat/getmap	This call retrieves the seat configuration of the aircraft. It includes information				
	such as the positions of the seat (row/column), characteristics (window, near-exit,				
	etc), facilities (galley, lavatories, staircases, exits)				
seat/select	This call reserves a seat subject to availability (indicated in the seatmap above).				
pnr/confirm	Completes the booking, and the PNR becomes permanent. The PNR can then be				
	used later to check-in, update seat choice or simply retrieve the booking				
	information. Once this call is successful, session is no longer a concern.				
misc/extendsession	Since the transaction is time-bound, use this call to extend the timeout. Failure to				
	make this call in a timely fashion (every 10 mins) will result in loss of the				
	transaction and the need to start-over (from flight search).				

Checkin APIs

API	Description		
checkin/getpassenger	Retrieves the passenger information (taken from		
	PNR)		
checkin/updatepassenger	Allows updating of passport details. This call is		
	mandatory for subsequent calls to work reliably.		
checkin/checkin	Checks-in the passenger(s)		
checkin/cancelcheckin	Cancels the checkin, allowing for check-in again		
checkin/getboardingpass	Provides the necessary information to create a		
	boardingpass, including the qrcode/barcode.		
	Note: Call will succeed only if passenger is		
	checked-in and passport is updated		

Krisflyer APIs

API	Description
krisflyer/getprofile	Retrieves the member's details such as name,
	contact details as well as a summary of their
	loyalty miles (kfMiles/ppsMiles).

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4.1 Flight Search

Service Name	flight	flight			
API Name	search				
Description	This API is used to search for flights based on airport and departure date.				
	dates: 1 st , 8 th ,	Only Singapore (SIN) to Rome (FCO) and Rome (FCO) to Singapore (SIN), on dates: 1 st , 8 th , 15 th , 22 nd and 29 th November are available. Any other combination will result in "invalid request" error			
Input Parameters	Data Type	Optional	,		
clientUUID	String	No	Unique string representing this call		
request	JSON Object	No	ornque string representing this cui		
itineraryDetails	JSON Array	No	1 or 2 elements depending on whether it is one- way or two-way		
originAirportCode	String	No	"SIN" or "FCO"		
destination Airport Code	String	No	"SIN" or "FCO"		
departureDate	String	No	Only these dates will return values: "2017-11-01", "2017-11-08", "2017-11-15", "2017-11-22", "2017-11-29"		
cabinClass	String	No	"F"/"J"/"S"/"Y"		
adultCount	String	No	Any integer below 9		
Output Parameters	Data Type	Descript	ion		
status	String	"SUCCES	SS" / "FAILED"		
code	Number		atus is "SUCCESS".		
Message	String	Used only if status is "FAILED". Ignored otherwise.			
response	JSON Object	empty if	status is "FAILED"; displayed otherwise		
sessionId	String	Used to	keep session. Use this value to fill subsequent calls		
			ne booking flow		
currency	JSON Object		details on the base currency used for this booking		
code	String		currency-code (eg: SGD)		
name	String	_	y name in full (eg: Singapore Dollar)		
precision	Integer		of decimal places when the currency is used		
tripType	String		ne-way ; "R" – Return		
flights	JSON Array	A List of	possible flights to choose from		
originAirportCode	String				
destinationAirportCode	String				
departureDateTime	String				
arrivalDateTime	String				
legs	JSON Array	More information on each leg of flight. Useful when a flig stops over at a location			
flightNumber	String				
originAirportCode	String	3-letter code			
destinationAirportCode	String	3-letter code			
departureTerminal	String				
arrivalTerminal String		<i>"</i>	20 11111		
departureDateTime	String	"yyyy-MM-dd HH:mm:ss"			
arrivalDateTime	String	"yyyy-MM-dd HH:mm:ss"			
operatingAirline	JSON Object		al airline that operates the flight in this leg		
code	String		airline code (eg: SQ)		
name	String		ame in full (eg: Singapore Airlines)		
marketingAirline	JSON Object		ne through which the ticket is bought. Read more on are flights to understand marketing vs operating flight		

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code String		2-letter airline code (eg: SQ)		
name String		Airline name in full (eg: Singapore Airlines)		
,		Information on the vehicle		
code	String	3-digit aircraft code		
name	String	Name of the Aircraft Model		
flightDuration	Integer	in seconds		
layoverDuration	Integer	In seconds		
tripDuration	Integer	Total time for the journey in seconds		
defaultRecommendationID	Integer	Lowest Fare Recommendation		
Recommendations	JSON Array	Since each flight can have multiple RBDs (eg: Economy Flexi, Economy Flexi Saver), these contain information on each one. For return flights, it contains matching variations of both flights.		
recommendationID	Integer	Unique identifier		
segmentBounds	JSON Array	Number of elements in array will match number of elements		
		in the "itineraryDetails" in request		
segments	JSON Array	Structure mirrors that of "flights" defined earlier in response		
segmentID	Integer	Matches flightID in "flights" defined earlier in response		
displayLastSeat	Boolean	"True" if very few seats are available		
numOfLastSeats	Integer	Threshold used to set the "displayLastSeat" flag. If available		
		seats are fewer than this number, flag above is set.		
legs	JSON Array	Matches with "legs" inside the "flights" field		
sellingClass	String	RBD value		
cabinClass	String	"F"/"J"/"S"/"Y"		
fareClass	String	Can be ignored		
fareFamily	String	Unique String identifying the fare-family. More details on Farefamily can be found under "fareFamilies" later in the response		
fareSummary	JSON Object	Details on the fare		
fareTotal	JSON Object	Combined fare details for all passengers		
totalAmount String				
AmountWihoutTax	String			
Tax	String			
fareDetailsPerAdult	String	Adult-wise split of the above "fareTotal" details		
totalAmount	String			
AmountWihoutTax	String			
Tax	String			
fareFamilies	String	More details on Farefamilies.		
fareFamily	String	Value used to match with the rest of the response		
fareFamilyCode	String			
fareFamilyName	String	The value that is displayed on screen to the passenger		
cabinClass	String	"F"/"J"/"S"/"Y" that this fare belongs to		
cabinClassName	String	Eg: "Economy"		
airports	JSON Array	More details on the airports		
airportCode	String	3-letter code		
airportName	String			
cityCode	String	2-letter code		
cityName	String			
countryCode	String	2-letter code		
countryName	String			
,		I.		

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4.2 GetFare

Service Name flight					
API Name	getfare				
Description		Retrieves details breakdown of fare. Also used internally to capture the fare to use while billing. The information for this call is taken from the "Flight			
	Search" (secti	_			
	,	,			
	Retrieve a det	tail fare b	reakdown based on preferences and flights.		
Input Parameters	Data Type	Optiona	al Description		
clientUUID	String	No	Unique string representing this call		
sessionId	String	No	"SessionId" copied over from the response of		
			Flight Search call earlier		
request	JSON Object	No			
recommendation Details	JSON Array	No	Information from the response in "Flight Search" Call		
recommendationId	Integer	No	Id of the specific recommendation we are		
	integer	'*0	interested to get fares for		
flightIds	Integer	No	SegmentIds from each "SegmentBound" object		
	Array		under the specific recommendation with ID given		
	1 ,		above. Note: it is usually [0] for oneway and [0,0]		
			for return.		
Output Parameters	Data Type	Descrip			
status	String		SS" / "FAILED"		
code	Number		200 if status is "SUCCESS".		
message	String	Used or	Used only if status is "FAILED". Ignored otherwise.		
sessionId	String	SessionId to use for subsequent calls. Note that it is the same			
		as in re	·		
response	JSON Object	empty i	f status is "FAILED"; displayed otherwise		
fareDetails	JSON Object				
currency	JSON Object				
code	String				
name	String				
precision	Integer	Numbe	r of decimal places used in the currency values		
adultCount	String				
fareAmount	String				
taxAmount	String				
totalAmount	String				
pricePerBound	JSON Array	Flight w	vise split-up of the fare.		
fareAmount	String				
taxAmount	String				
totalAmount	String				
fare Famil Details	JSON Object				
code	String				
description	String	RBD in	full (eg: Economy Flexi Saver)		
travellerListPrice	JSON Object				
travellerType	String	"ADT"			
fareAmount	String				
taxAmount	String	ļ			
totalAmount	String				
taxList	JSON Array	1	all the taxes and corresponding fare breakdown		
code String		type of tax code			

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description	String	Description of tax
category	String	Ignore
amount String		amount of money paid for the tax component
pricePerBound	JSON Array	Price split-up by flight. (1 for one-way and 2 for return flight)
fareAmount		
taxAmount totalAmount		

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4.3 Create PNR

Service Name	pnr			
API Name	create			
Description	Creating a transaction. If PNR is not created within session time, the PNR will be removed.			
Description				
Input Parameters	Data Type	Optional	Description	
clientUUID	String	No	Unique string representing this call	
request	JSON Object	No		
tripType	String	No	"O"/"R"	
travellerDetails	JSON Array	No	Number of elements must match number of	
			passengers	
title	String	No		
firstName	String			
emailAddress	String			
isLeadPax	String			
contactDetails	String			
type	String	No	"MOBILE"/"HOME"/"OFFICE"	
countryCode	String	No	2-digit code	
number	String	No	phone number (random)	
sessionId				
Output Parameters	Data Type	Description	on	
Status	String	"SUCCESS	S" / "FAILED"	
Code	Number	200 if sta	tus is "SUCCESS".	
Message	String	Used only	y if status is "FAILED". Ignored otherwise.	
sessionId	String		reep session. Use this value to fill subsequent calls	
			e booking flow	
response	JSON Object	empty if	status is "FAILED"; displayed otherwise	
pnrDetails	JSON Object			
pnr	String	6-alphani	umeric	
currency	String	3-letter code		
travellerDetails	JSON Array			
passengerID	String		he "confirm" pnr	
type	String	"ADT" (A	dult)	
title				
firstName	String			
lastname	String	"Appchal	lenge"	
emailAddress String				
		ID to use when calling Select Seat service		
		Indicates the lead passenger in PNR		
segmentIdList	String Array	Numbers to identify the various flights being taken. The or		
		matches the order of the booking (eg: 1 -> onward flight, 2-		
		return fli	ght).	

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4.4 Get PNR

Service Name	Pnr				
API Name	Get				
Description	Retrieve passenger records and flights information based on PNR				
	Only Singapore (SIN) to Rome (FCO) and Rome (FCO) to Singapore (SIN), on dates: 1 st , 8 th , 15 th , 22 nd and 29 th November are available. Any other combination will result in "invalid request" error				
Input Parameters	Data Type	Optional	·		
clientUUID	String	No	Unique string representing this call		
request	JSON Object	No	ornique string representing this can		
pnr	String	No	PNR returned in the Create PNR call		
P	3611118	110	This recurred in the Greate Fitte dail		
Output Parameters	Data Type	Description	on		
status	String		S" / "FAILED"		
code	Number		tus is "SUCCESS".		
Message	String		y if status is "FAILED". Ignored otherwise.		
response	JSON Object		status is "FAILED"; displayed otherwise		
pnr	String	. ,	, , ,		
currency	String	3-letter c	ode		
passengers	JSON Array				
passengerIDForSeat	String	ID to use	for Seat services		
passengerType	String	"ADT"			
lastName	String		7.0.1		
firstName	String				
title	String				
ticketNumber String		populate	d if "pnr/get" is called after booking		
gender	String		if it was provided at "pnr/create"		
dateOfBirth String additionalPassengerDetails JSON Object					
			regulatory documents such as passport details. It		
			dded using "checkin/updatepassenger" call		
documentType	String	eg: "PASS	SPORT"		
documentNumber	String				
expiryDate	String				
issueDate	String				
issuingCountry	String				
seatDetails	JSON Array	One element per flight			
flightID	String	D	C. L		
seatNumber	String		Column (eg: "50A")		
flights	JSON Array	Flight information			
flightSegment	JSON Array	Flight Segments (useful when there are stopovers)			
marketingAirlineCode	String	2-letter code			
			the through which the ticket is bought. Read more on		
markating Airling Nama String		code-share flights to understand marketing vs operating flight			
marketingAirlineName String		Origin details for this segment of flight			
origin	JSON Object	Origin details for this segment of flight 3-letter code			
airportCode String airportName String		J-lettel tode			
terminalNumber	String String				
countryCode	String	2-letter code			
destination	Jung	Destination details for this segment of flight			
uestination		Destination details for this segment of hight			

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airportCode	String	3-letter code
airportName	String	5 letter code
terminalNumber	String	
countryCode	String	2-letter code
scheduledDepartureTime	String	"yyyy-MM-dd HH:mm:ss.SSS"
scheduledArrivalTime	String	"yyyy-MM-dd HH:mm:ss.SSS"
estimatedDepartureTime	String	"yyyy-MM-dd HH:mm:ss.SSS". Differs from scheduled if delay
'		is expected
estimatedArrivalTime	String	"yyyy-MM-dd HH:mm:ss.SSS".
cabinClass	String	Full name (eg: "ECONOMY")
sellingClass	String	RBD
origin	JSON Object	Origin details for the entire flight
airportCode	String	3-letter code
airportName	String	
terminalNumber	String	
countryCode	String	2-letter code
destination		Destination details for this segment of flight
airportCode	String	3-letter code
airportName	String	
terminalNumber	String	
countryCode	String	2-letter code
flightNumber	String	"366"/"365"
flightId	String	Unique ID for the flight. Useful for seat map retrieval or seat
		selection

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4.4 Get Seat Map

Service Name	seat			
API Name	getmap			
Description	Retrieves the	Retrieves the seat map details for the flight specified in the request. The best		
	way to understand this response is to compare it to the seat map picture you			
	see during a r	eal bookin	g with SQ. You may also refer to the following	
	document, al	though the	facilities may not be exactly the same:	
	http://www.s	ingaporea	ir.com/saar5/pdf/OurFleet/airbus380-4class.pdf	
			ocked due to company policy and are allocated at	
		m at checkin counter.		
Input Parameters	Data Type	Optional	•	
clientUUID	String	No	Unique string representing this call	
request	JSON Object	No		
recordLocator	String	No	6 alpha-numeric string (PNR). Uniquely identifies a	
			booking	
flightID	String	No	Unique identifier for the flight	
flightNumber	String	No	Strictly only "366" or "365"	
origin	String	No	3-letter IATA code – SIN, LHR	
destination	String	No	3-letter IATA code – HKG, SFO	
departureDate	Date	No	W3C date time format: YYYY-MM-DDThh:mm	
			Setting hh:mm to 00:00 will work for all flights.	
cabinClass	String	No	"F"/"J"/"S"/"Y". Must match the cabin class used	
			while booking to get relevant results.	
pointOfSales	String	Yes	"FCO", or "SIN" based on the first boarding point	
			(chronologically the earliest airport where	
			passenger boards the flight)	
Output Parameters	Data Type	Descripti		
status	String		S" / "FAILED"	
code	Number		tus is "SUCCESS". Refer to Section 5 for possible	
		error codes		
		.		
message	String	Used onl	y if status is "FAILED". Ignored otherwise.	
response	JSON Object	Used onl		
response pnr	JSON Object String	Used onl	y if status is "FAILED". Ignored otherwise.	
response pnr passengers	JSON Object String JSON Array	Used onl empty if	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise	
response pnr passengers passengerID	JSON Object String JSON Array String	Used onl empty if	y if status is "FAILED". Ignored otherwise.	
response pnr passengers passengerID lastName	JSON Object String JSON Array String String	Used onl empty if	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise	
response pnr passengers passengerID lastName firstName	JSON Object String JSON Array String String String String	Used onl empty if	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise	
response pnr passengers passengerID lastName firstName title	JSON Object String JSON Array String String String String String String	Used onl empty if	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise	
response pnr passengers passengerID lastName firstName title seatSelected	JSON Object String JSON Array String String String String String String JSON Object	Used onl empty if Unique id	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber	JSON Object String JSON Array String String String String String JSON Object String	Used onl empty if Unique id	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight	JSON Object String JSON Array String String String String String JSON Object String JSON Object	Used onl empty if Unique id	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A"	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID	JSON Object String JSON Array String String String String JSON Object String JSON Object String JSON Object String	Used onlempty if Unique id Seat num Unique id	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber	JSON Object String JSON Array String String String String String JSON Object String JSON Object String JSON Object String String	Used onlempty if Unique id Seat num Unique id "365" or	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366"	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber operatingAirlineCode	JSON Object String JSON Array String String String String JSON Object String JSON Object String JSON Object String String String String String String	Used onlempty if Unique id Seat num Unique id	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366"	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber operatingAirlineCode operatingAirlineName	JSON Object String JSON Array String String String String JSON Object String JSON Object String	Used onlempty if Unique id Seat num Unique id "365" or 2-letter d	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366" code	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber operatingAirlineCode marketingAirlineCode	JSON Object String JSON Array String String String String JSON Object String JSON Object String	Used onlempty if Unique id Seat num Unique id "365" or	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366" code	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber operatingAirlineCode operatingAirlineName marketingAirlineName	JSON Object String JSON Array String String String String JSON Object String JSON Object String	Used onlempty if Unique id Seat num Unique id "365" or 2-letter d	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366" code	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber operatingAirlineCode operatingAirlineName marketingAirlineName cabinClass	JSON Object String JSON Array String String String String JSON Object String JSON Object String	Used onlempty if Unique id Seat num Unique id "365" or 2-letter d	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366" code	
response pnr passengers passengerID lastName firstName title seatSelected seatNumber flight flightID flightNumber operatingAirlineCode operatingAirlineName marketingAirlineName	JSON Object String JSON Array String String String String JSON Object String JSON Object String	Used onlempty if Unique id Seat num Unique id "365" or 2-letter d	y if status is "FAILED". Ignored otherwise. status is "FAILED"; displayed otherwise dentifier for a passenger aber, e.g. "31A" dentifier for a flight "366" code sode S"/"Y"	

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airportName	String		
airportTerminal	String		
cityName	String	Full name	
destination	JSON Object		
airportCode	String	3-letter IATA code – SIN, LHR	
airportName	String	London Heathrow	
airportTerminal	String		
cityName	String	London	
equipment	JSON Object	Details about the aircraft; the actual vehicle	
acv	String	3-digit code to identify the model	
aircraft	String	Full name of aircraft	
cabinCapacity	String	Alphanumeric string indicating cabin capacities in the aircraft.	
,		Eg: "Y333S36J60F12" -> 333 in Economy, 60 in Business, etc	
wingStartRow	String	Row at which the wing starts. Only returned if it is within the	
S		cabin class that was requested.	
wingEndRow	String	Row at which the wing ends. Only returned if it is within the	
, and the second		cabin class that was requested.	
cabinAmenities	JSON Array	·	
power	String	"110V AC"	
screen	String	"10.6-inch LCD screen"	
bed	String	"Full-flat bed"	
seat	String	"19-inch width"	
compartment	JSON Array	Separation of seats within a given cabin class	
designator	String	Unique identifier (Eg: "C")	
location	String	"M" – main deck; "U" – upper deck	
startRow	String	First row number of compartment	
endRow	String	Last row number of compartment	
column	JSON Array	Generic column details for all seats in the compartment	
designator	String	Column value ("A" – "K")	
characteristics	String	"WAM". W – Window; A – Aisle; M – Middle.	
		If it is a single seat (usually in business or first class), it can be	
		"WA"	
	JSON Array	All seat information. Includes facilities defined in a similar	
row		manner to the seats.	
number	String	row number (eg: "41"). Note that this number can repeat for	
		multiple rows. If it does, all but one are purely facility	
		definitions, and only one contains the actual seats. Useful	
		when showing compartments separately to know where a	
		facility at the boundaries belongs.	
seat	JSON Array	WAR WAR	
column	String	"A" – "K"	
occupied	Boolean	Indicates if the seat is available for selection.	
characteristics	String	"WAMBCEHO".	
		W – Window; A – Aisle; M – Middle; B – Bassinet;	
		C – Chargeable; E – Emergency Exit; H – Handicap; K –	
facility.	ICON A	Windowless; O – Bubble	
facility	JSON Array	Defined using either column or location	
column	String	"A" – "K" "LCR"	
location	String		
typo	C+ring	L – Left; R – Right; C – Centre "LGSDE"	
type	String	נטטענ	

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	L – Lavatory; G – Galley; S – Stairs; D – Accessible Lavatory; E –
	Exit-Door;

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4.5 Select Seat

Service Name	seat			
API Name	select	select		
Description	Used to selec	t seats for a	Ill passengers in a specific flight.	
Input Parameters	Data Type	Optional	Description	
clientUUID	String	No	Unique string representing this call	
request	JSON Object	No		
pnr	String	No		
passengerSeatInfo	JSON Array	No	Specifies which seat is selected for which passenger	
passengerID	String	No	Use the "passengerIDForSeat" from the response of "pnr/create" or "pnr/get"	
seatNumber	String	No	Row and Column (eg: 50A)	
flightID	String	No		
destination	String	No	"SIN" or "FCO"	
origin	String	No	"SIN" or "FCO"	
Output Parameters	Data Type	Description		
status	String	"SUCCESS	S" / "FAILED"	
code	Number	200 if stat	tus is "SUCCESS".	
Message	String	Used only	if status is "FAILED". Ignored otherwise.	
response	JSON Object	empty if s	tatus is "FAILED"; displayed otherwise	
segment	JSON Object			
passengerSeatInfo	JSON Object			
passengerID	String			
seatNumber	String			
seatStatus	String	"Confirme	ed"	
flightID	String			

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4.6 Extend Session

Service Name	misc			
API Name	extendsession	extendsession		
Description	Used to extend the session timeout by roughly 15 mins. Do note that if the			
	session times out, you have start over from flight search.			
Input Parameters	Data Type	Data Type Optional Description		
clientUUID	String	No Unique string representing this call		
sessionId	String	No	session to extend the timeout for	
Output Parameters	Data Type	Description	on	
status	String	"SUCCESS" / "FAILED"		
code	Number	200 if status is "SUCCESS".		
message	String	Used only if status is "FAILED". Ignored otherwise.		
sessionid	String	replicated	from request	

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4.6 Confirm PNR

Description Confirms the booking and ends the need for session. Most of the details in the request are replicated from the "pnr/get" call. After this call the PNR becomes permanent and can be retrieved using "pnr/get" or updated using "seat/select" anytime. Before this call, if the 15mins of session times out, the booking is lost. Note: Generate a random card MasterCard number here to use for this request. To change the card type, click on 'American Express': https://saliopeorge.com/dummy-credit-card-generator/ client/UID Input Parameters Data Type Optional Description Client/UID String No Unique string representing this call request JSON Object No String No Unique string representing this call reveller/Datalls JSON Object No String No WMOBILE"/"HOME"/"OFFICE" Value String No String No Mo Insurable String No Insurable String No Seate-steady String No String No String No String No String No Seate-steady String No String No String No Seate-steady String No String No String No Seate-steady String No	Service Name	pnr			
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"seat/select" anytime. Before this call, if the 15mins of session times out, the booking is lost. Note: Generate a random card MasterCard number here to use for this request. To change the card type, click on 'American Express': https://sailogeorge.com/dummy-credit-card-generator/ Input Parameters Data Type Optional Description ClientUUID String No Unique string representing this call request JSON Object No pnr String No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call revalled Parameter String No Indique string representing this call revalled Parameter String No Indique string representing this call revalled Parameter String No Indique string representing this call revalled Parameter String No Indique string representing this call revalled Parameter String No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call request JSON Object No Indique string representing this call Research JSON Object No Indique string representing this cal		the request are replicated from the "pnr/get" call. After this call the PNR			
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receiptivuitiber String	receiptNumber	String			

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currencyCode	String	
price	String	
insuranceDetails	JSON Array	
confirmationNumber	String	
issuanceSuccess	Boolean	

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4.7 Krisflyer Profile

Service Name	krisflyer		
API Name	getprofile		
Description	Returns the profiles of the Kriflyer members. 10 KF accounts have been		
	created for th	e AppChall	enge. They are given in the Description column
	below.		
Input Parameters	Data Type	Optional	Description
clientUUID	String	No	Unique string representing this call
request	JSON Object	No	
krisflyerNumber	String	No	10 numeric string. Uniquely identifies a member.
			Please use only one of the following numbers:
			8987011927 (KFLY)
			8987011938 (KFLY)
			8987011949 (KFES)
			8987011916 (KFEG)
			8987011953 (QPP)
			8987011964 (QPP)
			8987011975 (TPP)
			8987011986 (LPP)
			8987011997 (KFTP)
			8987011905 (ESLP)
Output Parameters	Data Type	Description	
status	String		" / "FAILED"
code	Number	200 if status is "SUCCESS".	
Message	String	Used only if status is "FAILED". Ignored otherwise.	
response	JSON Object	empty if s	status is "FAILED"; displayed otherwise
lastName	String		
firstName	String		
title	String	"M", "F"	
gender	String	•	time format: YYYY-MM-DD
dateOfBirth	Date		
loyaltyTierName	String	1-letter co	ode
loyaltyTierName	String		
passport	JSON Object		
passportNumber	String Date	M/2C data	time format: YYYY-MM-DD
expiryDate			
issuingCountry nationality	String String		ountry code ountry code
address	JSON Array	שיים ויים ויים	Juliu y Coue
	String	"Home" /	"Business" / "Unspecified"
type line1	String	HOHIE /	business / Onspecified
line2	String		
line3	String		
line4	String		
city	String		
state	String		
country	String	3-letter co	ountry code
postalCode	String	3 .2	
contact	JSON Array		
type	String	"Home" /	"Mobile" / "Business" / "Unspecified"
countryCode	String		country code
country code	Julis	i wo uigit	country code

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areaCode	String	
phoneNumber	String	
accountSummary	JSON Object	
memberSince	Date	W3C date time format: YYYY-MM-DD
cardExpiryDate	Date	Refers to the expiry date of the physical card. A replacement
		has to be made after this date.
		W3C date time format: YYYY-MM-DD
kfMiles	String	Currently available KfMiles
eliteMiles	String	Currently available elite miles
eliteRequalifiedBy	String	Deadline to retain current tier
eliteRequalifiedMilesRequired	String	Miles to accrue by above deadline to retain current tier.
ppsMiles	String	
ppsValues	String	
ppsReserveValues	String	
ppsRequalifiedBy	String	
ppsRequalifiedMilesRequired	String	

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4.8 Checkin GetPassenger

Service Name	checkin	1		
API Name	getpassenger	passenger		
Description	Retrieves information about the passenger and the journey he/she is g			
	to undertake.	. The information from this call will be used for subsequent		
	checkin calls.			
Input Parameters	Data Type	Optional Description		
clientUUID	String	No Unique string representing this call		
request	JSON Object	No		
krisflyerNumber	String	No 10 numeric string. Uniquely identifies a member		
Output Parameters	Data Type	Description		
status	String	"SUCCESS" / "FAILED"		
		200 if status is "SUCCESS". Refer to Section 5 for possible		
code	Number	error codes .		
message	String	Populated and displayed only if status is "FAILED"		
response	JSON Object	, , ,		
partiallyCheckedIn	Boolean	1		
, ,		Refers to PNR		
recordLocator	String	The 6-char string identifying the PNR.		
flights	JSON Array			
		Refers to DIDs. These are the IDs to use for all checkin related		
flightIDs	String Array	calls.		
origin	JSON Object	001101		
Ong	JJOIN OBJECT	3-letter IATA code – SIN, LHR		
airportCode	String	The 3 digit code determining the airport		
anporteode		The 3 digit code determining the airport,		
airportName	String	London Heathrow		
airportTerminal	String	The terminal		
cityName	String	The city name		
destination	JSON Object	The day name		
uestination	33014 Object	3-letter IATA code – SIN, FCO		
airportCode	String	The 3 digit code determining the airport		
unporteoue		The 3 digit code determining the airport ,		
airportName	String	London Heathrow		
airportTerminal	String	The terminal		
cityName	String	The city name		
operatingAirline	JSON Object	The city hame		
airlineCode	-	The two-char carrier code		
airlineName	String	The name of the carrier		
	String			
flightNumber	String	3 or 4 digits identifying the flight number		
marketingAirline	JSON Object	The true share consider and		
airlineCode	String	The two-char carrier code		
airlineName	String	The name of the carrier		
flightNumber	String	3 or 4 digits identifying the flight number		
scheduled Departure Date Tim	String	W3C date time format: YYYY-MM-DDThh:mm		
е		Scheduled departure datetime of the flight.		
scheduledArrivalDateTime	String	W3C date time format: YYYY-MM-DDThh:mm		
	,	Scheduled arrival datetime of the flight.		
estimated Departure Date Tim	l String I	W3C date time format: YYYY-MM-DDThh:mm		
е		Estimated departure datetime of the flight.		

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and and all and all parts Time	Chicken	W3C date time format: YYYY-MM-DDThh:mm	
estimatedArrivalDateTime	String	Estimated arrival datetime of the flight	
tci	boolean	True for through check-in flights	
rci	boolean	True for return check-in flights	
passengers	JSON Array		
		Refers to UCI	
		The passenger ID. This is the passengerID to use for all	
passengerID	String	checkin calls	
flightIDs	String Array	The list of flight IDs associated with the passenger	
lastName	String	Last name / surname of the passenger.	
firstName	String	First name / given name of the passenger.	
title	String	Addressing title of the passenger.	
		W3C date format: YYYY-MM-DD	
dateOfBirth	String	Passenger's date of birth	
gender	String	Gender of the passenger, given by a single char (M / F)	
passengerType	String	Type of passenger (adult)	
addressInfo	JSON Object		
address	String	Address of the passenger	
stateName	String	Country state name	
countryName	String	Country name	
cityName	String	City Name	
zipCode	String	Zip Code	
countryOfResidence	String	Passenger's country code of residence	
prCard	JSON Object	Only for USA (SSR DOCO)	
number	String	Reference number of the Military card. ,	
		W3C date format: YYYY-MM-DD	
expiryDate	String	Expiry date of the PR card	
issuingCountryCode	String	3-character country code, e.g. SGP	
registrationCountryCode	String	3-character country code, e.g. SGP	
	Ctring	Type of PR card. = ['UNKNOWN', 'military', 'alien', 'pr',	
type	String	'reentry']	
firstName	String	First name on military card.	
lastName	String	Last name on military card.	
passport	JSON Object		
firstName	String	First name of the passenger	
lastName	String	Last name / given name of the passenger.	
	Chrima	W3C date format: YYYY-MM-DD	
expiryDate	String	Passport expiry date	
issuingCountryCode	String	3-character country code, e.g. SGP	
nationalityCode	String	3-character country code, e.g. SGP	
passportNumber	String	Passport number of the passenger.	
contactDetails			
mobileNumber	String	Mobile phone number of passenger	
mobileCountryCode	String	Mobile phone number country code of passenger	
email	String	Email address of the passenger	
nextOfKinDetails			
	String	Next-of-kin name	
name	3011116	Next-of-kin relation	
name relation	String	Next-of-kin relation	
		Next-of-kin relation Next-of-kin mobile number	
relation	String		

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flightID	String	Identifier of the customer-flight pair, linking the service	
passengerID	String	Refers Identifier of the customer, linking the service	
cabinClass	String	The cabin class of the flight	
seatSelected	String	Assigned seat on the plane. If two-digit, seat starts with a (
ticketNumber	String	Either 'ticketNumber' or 'recordLocator' to be mandato The ticket number identifying the PNR	
upgraded	Boolean	True if FQTU is present Whether seat is upgraded	
dcsStatus	JSON Object		
boardingPassIssued	Boolean	True if boarding pass is issued	
checkedIn	Boolean	True if flight is checked in	
docChecksPassed	Boolean	True if ADC check is passed	
regulatoryChecksPassed	Boolean	True if APP check is passed, and not overridden	
spBpEnabled	Boolean	True if SP Boarding Pass indicator is enabled	
ccvDocCheckRequired	Boolean	True if Credit Card needs to be verfieid	
visaDocCheckRequired	Boolean	True if visa documents have to be verified	
dcsIceIsBlocked	Boolean	True if DCS ICE is blocked from checking in	
fqtvDetails	JSON Object		
loyaltyTierCode	Boolean	Tier code of the frequent flyer programme	
loyaltyTierName	Boolean	Tier name of the frequent flyer programme	
ff a Airlin a	String	Corresponding field in SSR FQTV	
ffpAirline		Carrier providing the frequent flyer programme	
ffpNumber	String	Frequent flyer number	
fqtsDetails	JSON Object		
loyaltyTierCode	Boolean	Tier code of the frequent flyer programme	
loyaltyTierName	Boolean	Tier name of the frequent flyer programme	
ffpAirline	String	Corresponding field in SSR FQTV Carrier providing the frequent flyer programme	
ffpNumber	String	Frequent flyer number	

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4.9 Checkin UpdatePassenger

Service Name	checkin		
API Name	updatepassenger		
Description	Used to updates the passport of the passenger. Note that after this call, both "pnr/get" and "checkin/getpassenger" will be updated with this value.		
Input Parameters	Data Type	Optional	Description
clientUUID	String	No	Unique string representing this call
request	JSON Object	No	
pnr	String	No	10 numeric string. Uniquely identifies a member
	JSON Array		This information is replicated from the
passengers	J3ON Array	No	getpassenger call
			Refers to UCI
passengerID	String	No	The passengerID from getpassenger call
firstName	String	No	First name / given name of the passenger.
title	String	No	Addressing title of the passenger.
			Gender of the passenger, given by a single char (M
gender	String	No	/ F)
regulatoryDocs	JSON Object	No	
expiryDate	String	No	W3C date format: YYYY-MM-DD
firstName	String	No	First name on military card.
issuingCountryCode	String	No	3-character country code, e.g. SGP
nationalityCode	String	No	3-character country code, e.g. SGP
documentNumber	String	No	Reference number of the Military card
Output Parameters	Data Type	Description	on
status	String	"SUCCESS" / "FAILED"	
code	Number	200 if status is "SUCCESS".	
message	String	Used only	if status is "FAILED". Ignored otherwise.

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4.10 Checkin Checkin

Service Name	checkin	checkin		
API Name	checkin	checkin		
Description	Checks in the	Checks in the given passengers to the given flights.		
Input Parameters	Data Type	Optional	Description	
clientUUID	String	No	Unique string representing this call	
request	JSON Object	No		
flights	JSON Array	No	replicated from getpassenger call	
flightIDs	String Array	No	Refers to DIDs	
originAirport	JSON Object	No		
airportCode	String	No	3-letter IATA code – SIN, LHR	
airportTerminal	String	No	The terminal	
destinationAirport	JSON Object	No		
airportCode	String	No	3-letter IATA code – SIN, LHR	
airportTerminal	String	No	The terminal	
flightNumber	String	No	"366" or "365"	
departureDateTime	String	No	W3C date time format: YYYY-MM-DDThh:mm	
passengers	JSON Array	No	replicated from getpassenger call	
passengerID	String	No	Refers to UCI	
firstName	String	No	First name of the passenger	
title	String	No	Addressing title of the passenger.	
		No	Gender of the passenger, given by a single char (M	
gender	String		/ F)	
flightIDs	String Array	No	The list of flight IDs associated with the passenger	
Output Parameters	Data Type	Description		
status	String	"SUCCESS" / "FAILED"		
code	Number	200 if status is "SUCCESS".		
Message	String	Used only if status is "FAILED". Ignored otherwise.		

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4.11 Checkin CancelCheckin

Service Name	checkin	checkin		
API Name	cancelcheckin	cancelcheckin		
Description	Cancels the ch	Cancels the check-in for the given passengers in the given flights.		
Input Parameters	Data Type	Optional	Description	
clientUUID	String	No	Unique string representing this call	
request	JSON Object	No		
flights	JSON Array	No	replicated from getpassenger call	
flightIDs	String Array	No	Refers to DIDs	
originAirport	JSON Object	No		
airportCode	String	No	3-letter IATA code – SIN, LHR	
airportTerminal	String	No	The terminal	
destinationAirport	JSON Object	No		
airportCode	String	No	3-letter IATA code – SIN, LHR	
airportTerminal	String	No	The terminal	
flightNumber	String	No	"366" or "365"	
departureDateTime	String	No	W3C date time format: YYYY-MM-DDThh:mm	
passengers	JSON Array	No	replicated from getpassenger call	
passengerID	String	No	Refers to UCI	
firstName	String	No	First name of the passenger	
title	String	No	Addressing title of the passenger.	
		No	Gender of the passenger, given by a single char (M	
gender	String		/ F)	
flightIDs	String Array	No	The list of flight IDs associated with the passenger	
Output Parameters	Data Type	Description		
status	String	"SUCCESS" / "FAILED"		
code	Number	200 if status is "SUCCESS".		
Message	String	Used only if status is "FAILED". Ignored otherwise.		

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4.12 Checkin GetBoardingPass

Service Name	checkin			
API Name	getboardingpass			
Description	Retrieves all the necessary information for printing a boardingpass. Note the			
·	after this call, the passenger's checkin status cannot be cancelled			
Input Parameters	Data Type	Optional	Description	
clientUUID	String	No	Unique string representing this call	
request	JSON Object	No	, , , , , , , , , , , , , , , , , , , ,	
pnr	String	No		
passengers	JSON Array	No	replicated from getpassenger call	
passengerID	String	No	Refers to UCI	
flightIDs	String Array	No	The list of flight IDs associated with the passenger	
Output Parameters	Data Type	Description	on	
status	String	"SUCCESS	" / "FAILED"	
	Number	200 if stat	rus is "SUCCESS". Refer to Section 5 for possible	
code	Number	error code	es	
message	String	Populated	and displayed only if status is "FAILED"	
response				
recordLocator	Ctring	Either 'tio	ketNumber' or 'recordLocator' to be mandatory	
Tecordicator	String	The 6-cha	r record locator identifying the PNR	
passengers	JSON Array			
nassangarID	Ctring	Unique id	entifier for a passenger	
passengerID	String	The passenger ID		
lastName	String	Last name / surname of the passenger.		
firstName	String	First name of the passenger		
title	String	Addressing title of the passenger.		
adult	Boolean	True if adult		
infant	Boolean	True if infant		
flightIDs	String Array	The list of flight IDs associated with the passenger		
flights	JSON Array			
flightID	String	Unique identifier for a flight		
flightNumber	String	3 or 4 digits identifying the flight number		
operatingAirlineCode	Boolean	2-letter IATA code – SQ, MI, TZ, TR		
operatingAirlineName	String			
marketingAirlineCode	String	2-letter IATA code – LH, VA, VX (Populated if available)		
marketingAirlineName	String	(Populated if available)		
origin	JSON Object			
airportCode	String	3-letter IATA code – SIN, LHR		
airportName	String	Singapore Changi		
airportTerminal	String	The term	inal	
cityName	String	The city n	ame	
destination	JSON Object			
airportCode	String	3-letter IATA code – SIN, LHR		
airportName	String	London Heathrow		
airportTerminal	String	The terminal		
cityName	String	The city name		
	String	W3C date	time format: YYYY-MM-DDThh:mm	
	String	W3C date	time format: YYYY-MM-DDThh:mm	
estimatedDepartureDateTim e	String	W3C date available)	time format: YYYY-MM-DDThh:mm (Populated if	

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estimatedArrivalDateTime	String	W3C date time format: YYYY-MM-DDThh:mm (Populated if available)	
tripDuration	String	W3C date time format: hh:mm, e.g. 3:45, 17:00	
cabinClass	String	The cabin class of the flight	
sellingClass	String	1 alpha	
aircraftType	String	e.g. "Boeing 777-300ER"	
ervices	JSON Array		
passengerID	String	Unique identifier for a passenger The passenger ID	
flightID	String	Unique identifier for a flight	
ticketNumber	String	Either 'ticketNumber' or 'recordLocator' to be mandatory The ticket number identifying the PNR	
seat	JSON Object		
seatSelected	String	Seat number – 04A, 44G	
deckInfo	String	Applicable for double deck config – Main, Upper	
boardingPass	JSON Object		
mFormatString	String	IATA Resolution 792 v5 compliant	
base64Image	String	base64 representation of image – QR for Mobile, PDF417 fo Web	
nameOnBoardingPass	String		
loungeText	String	(Populated if available)	
boardingDateTime	String	W3C date time format: YYYY-MM-DDThh:mm	
boardingGate	String	(Available on -3 Hrs STD, thereafter)	
boardingGroup	String	For segregation of boarding groups of passengers	
regulatoryMessage	String		
airlineUse	String		
TSAPrecheck	Boolean	True if BP fields are signed.	
ffpDetails	JSON Object		
krisFlyer	Boolean	True if ffpAirlineAccrual or ffpAirlineServicing is SQ	
alliance	Boolean	True if allianceTierCode is present	
ffpAirlineAccrual	String	Corresponding field in SSR FQTV	
ffpNumberAccrual	String	Corresponding field in SSR FQTV	
loyaltyTierCodeAccrual	String	Corresponding field in SSR FQTV	
loyaltyTierNameAccrual	String	Corresponding field in SSR FQTV	
ffpAirlineServicing	String	Corresponding field in SSR FQTS	
ffpNumberServicing	String	Corresponding field in SSR FQTS	
loyaltyTierCodeServicing	String	Corresponding field in SSR FQTS	
loyaltyTierNameServicing	String	Corresponding field in SSR FQTS	
allianceTierCode	String	Either from validated FQTV or FQTS	
allianceTierName	String	Either from validated FQTV or FQTS	
partner	Boolean	True is SK PTNR is present	
partnerDescription	String	Parse free text field of SK PTNR	

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