EN_Internet Booking Engine (Sirena-Travel) API documentation

	v2.3.108 (Sirena)
Document version	2.3 - recommended API version
	108 – sprint number where recent changes were introduced
Supported API versions	v2.2, v2.3

Table of Contents

EN_Internet Booking Engine (Sirena-Travel)	1
API documentation	1
Table of Contents	2
Change history	4
Glossary	16
General provision	17
General information about API methods	18
API Versions	18
HTTP(S)-headers v2.x	18
IBE API services query	19
IBE API services response codes	19
Booking flow description	20
General booking flow	20
Description of partners services upsale process after payment	21
API methods description	22
Obtain session service	22
	23
Obtain flights service: api/flights	24
Booking management service: api/reservation	62
Auxiliary services management service: api/services, api/catalogue	126
Service for obtaining a cataolog of serivces without PNR	145
Retrieve aircraft seatmap service	156
Retrieve aircraft seatmap service without PNR	161
Cancellation service	168
Partial cancellation service	170
Auxiliary partner's services management service	172
Ticket void service	182
Services for working with queues (for agents)	184
Obtain recommendations for rebook /api/Exchange/Search v2.3	195
Involuntary ticket refund service for agents using	203
Voluntary tickets and services refund service	205
Online check-in services api/checkin	222

Change passenger's data service	248
Contact info add service Reservation/AddContactInfo (for agents)	254
Service for retrieving SSR and remarks information /api/version/Reserva	,
Service for add SSR to reservation /api/version/Reservation/AddSSR (fo	or agents)271
Service of tickets rebook /api/Exchange (for agents)	274
Service for getting the information about the status of creation of a subsiv2.3	
Services to sort and display additional services v2.3	303
Service for sending attachments for creating a request for Kaliningrad's s Eastern Federal District	
Service for adding passenger without seat (INF) to already issued booking api/Reservation/AddNewPassenger v2.3	_
Serivce API methods description	312
Retrieve subsidy routes list service	312
Attachments	314
Attachment: Dictionaries	314
Attachment: Main IBE error codes	336
Attachment: Partner's services	339
Attachment: Service SSR	342

Change history

Date (dd.mm.yy	Version	Changelog	Author
29.11.2024	2.3.108	 the subsidies_type parameter in the GET api/Flights request array to search for subsidized flight options. the subsidiesType parameter in the response to the POST api/Reservation of the booking creation request to match the type of subsidy and the passenger category. the isCheckinWithoutPseudo parameter in the GET api/Reservation response and in the POST api/Reservation response array for the possibility to work with the seatmap during open registration. the isIssuedByRefundableOffice parameter in the response of the GET api/Reservation request the POST api/Reservation response array for processing services and tickets that cannot be refunded. the isExchangePermitted parameter in the POST api/Reservation response for the possibility or prohibition of ticket exchange. a new type of FST (FarEast) subsidies for the Far Eastern Federal District. a new type of meals with SSR = CDML error 401033 SirenaSoapPassengerAgentTransitBortChanging for processing and transmitting in the response of GET api/Checkin request to determine online registration arrangements. Updated: the service for sending attachments together with an application to CRM to confirm the right to a subsidy of the Far Eastern Federal District (FarEast), POST api/Passenger/AddFiles. using the GET api/SubsidiesConfirmationSession method to check the status of a subsidy application for the Far Eastern Federal District 	Lebedeva A. T.

		(FarEast)	
22.10.2024	2.3.107	 Added: a service to get flight recommendations from Yandex Webmaster by GET api/flight/meta/search request v2.3. Changed: a process of realizing for Voluntary refund by POST api/Refund/Partial. In a case when the process of refunding a ticket and additional services gets an error, will be used automatically annulling seats by POST api/Annul from the 	Usolkin R.A.
		 booking before creating a request to CRM. a process of realizing for Involuntary refund by POST api/InvoluntaryRefund. The process was added for automatically annulling seats by POST api/Annul from the booking before creating a request to CRM. 	
04.09.2024	2.3.106	 a new option type ISMS (SMS Notification Service). Appears in ServiceCategorie array in a response to GET api/Catalogue v2.3. Additionaly ISMS is used in POST api/Services v2.3, GET api/Reservation in services [] array. a relatedAdultReferenceNumber parameter to the array of the request POST api/Reservation, identifying the chosen adult (ADT) passenger to be linked to children (CHD/INS/INF) passengers in the reservation. 	Lebedeva A. T.
		 PUT api/Passenger method for updating passengers data with the possibility to change values in parameters: birthDate, sex, documentNumber, documentExpiryDate (for international flights). 	

	1		1
		Added:	
31.07.2024	2.3.105	 a certificateText parameter into an array in a request for creating a Certificate at POST api/Certificate, for sending a message, that will be added to an email notification with the Certificate. a service of Sending attachments for a request to the CRM for getting an approvement for using special Kaliningrad's subsidy, POST api/Passenger/AddFiles. new Types of passengers for Kalilningrad's subsidy: STU (Student), CHR (Child). new Types of passengers for subsidy by Disability: DCD, DIC, DAC, SBK. a SubType parameter into services [] array for an option of Sport equipment transportation in responses by: GET api/Reservation; POST api/Services v2.3; POST api/Services/Add v2.3. a SeatUnavailableReason array with parameters of a unavailability seat reason in a response by: GET api/Seatmap and POST api/SeatmapStandalone a new option type as EQPT (Transportation of a Sport equipment). A SportEquipmentServiceConfiguration array in a response by GET api/Catalogue v2.3. Also it has been in responses by: POST api/Services v2.3, GET api/Reservation in services [] array. a service for adding a new infant passenger (INF) to existed booking through POST api/Reservation: PTWP (Weapon at the luggage, paid), FTWP (Weapon at the luggage, post free). At responses by requests: GET api/Catalogue; POST api/Services, GET api/Reservation in services [] arrays. Changed: STR (adult) passenger type is re-used for getting flight recommendations and creating bookings via special Kaliningrad's subsidy. PUT api/Passenger method for updating passengers data at: FirstName, Surname, 	Usolkin R.A.

		 MiddleName parameters. DisabilityDocumentNumber parameter is changed to SubsidyDocumentNumber at passengers[] array for requests GET, POST api/Reservation using method GET api/SubsidiesConfirmationSession for checking a current state of requst for Kaliningrad's subsidy 	
		 Added: the serviceOptionLabels array containing type and order of labels appearing at additional service 	
13.06.2024	2.3.104	 cards received in GET /api/apiVersion/Catalogue method response; the sortedInCategories array containing the sorting of services within the categories of additional services received in GET /api/apiVersion/Catalogue/GetServiceCategories Order response; the isEmailPayment parameter used as the tag for generating a payment link passed in the PUT /api/apiVersion/Passenger request; a service of receiving subsidized tariff routes in GET /api/v2.3/Airports/SubsidiesDirections response. 	Lebedeva A.T.
	2.3.103	 the searchIndirectFlights parameter indicates the search for flights to exchange with transfers in the POST api/exchange/search method request; the relatedPnrNumbers parameter of the array of related bookings received as a result of a partial exchange in response to the api/reservation method; in the Attachments: Partner's services new BUSINESSOW Aeroexpress fare "Business" and BUSINESSRT Aeroexpress fare "Business: Round-Trip". 	Gudumak S.E.
20.03.2024	2.3.102	Added: • the offsetUtc parameter of difference between local airport time and UTC time to the GET api/airports method response; • passengerAmounts array with information about	Gudumak S.E.

		 the amount for the partner service in the context of the passenger to the response of GET api/partners/{Id} method; the isBoardingPassAvailable parameter of the boarding pass availability for the passenger to the response of the GET api/Checkin method; the boardingPassRestrictedBySegment object with information about the restrictions on obtaining a boarding pass by segment to the response of POST/GET api/Reservation v2.3 method; the summToPayForExchange parameter is the amount to be paid for a voluntary exchange to the response of GET and POST api/Reservation v2.3 method; in the Attachments: Partner's services new FAMILYRT Aeroexpress fare "Family: Round trip". 	
24.01.2024	2.3.101	 a new type of passengers mmi (Ministry of Defence) a parameter as mmi at a request for GET flights an array the serviceCategoryLabels[] array at a response by GET Catalogue which is existed a list of Labels for appearing at additional option cards. a parameter as searchPeriod at a request for POST Exchange/Search a parameter as originalFlightReferenceNumber at the flights[] array at a response by POST Exchange/Search. a service of adding a Loyalty program card number to issued booking by POST Reservation/AddLoyaltyCard v2.3 request. a parameter as socialSecurityNumber to the passengers[] array for POST Reservation request. Changed: a service of searching recomendations for voluntary exchanging flight segments at the booking. 	Usolkin R.A.

		glossary of the partner services. • disabled an ability for creating a booking with subsidised fares via agents. POST Reservation.	
22.11.2023	2.3.100	 accompanimentBookingInfo[] array in POST Reservation request accompanimentBookingsInfo[] array in POST/GET Reservation(/Advanced) response parameters outboundBonus, returnBonus in the POST/GET Reservation(/Advanced) response outboundBonus, returnBonus parameters in GET flights response (v2.3) parameters mil, mir, mnn, mns, mml in the GET flights request fareCode parameter in the GET flights response in the BaggageAllowances array fareCode parameter in POST/GET Reservation response (/Advanced) flightsWithOpenDateCount parameter in POST/GET Reservation response (v2.3) separatePrice, separateDiscount parameters in POST/GET Reservation (/Advanced) responses separateFareFamilies, separateFlights, separateFareFamilies, separateBaggageAllowances arrays in POST/GET Reservation (/Advanced) responses new types of passengers MIR (RF Ministry of Internal Affairs), MNN (military child), MNS (military baby), MIL (RF Ministry of Internal Affairs, in development), MML (flying with a military man, in development) 	Savin A.A.
03.10.2023	03.10.202	 array of informationalServices[] in the api/Reservation response parameters Code share and Code share Flight Number in the api/flights and api/Reservation response to determine the flight codeshare validation of the number of characters for the full name has been changed, from 20 characters for each parameter to 43 characters for the sum of the full name 	Mikhaylo v M.F.

03.08.2023	2.3.98	 A FlightReference [] array into response post api/Partners/id into array PreselectedOption [] for indicating a flight segment with preselected additional option. A RelatedChildrenReferenceNumbers [] array into responses: post and get api/Reservation; get api/Reservation/Advanced v2.3; post api/Reservation/AddSSR v2.3, to indicate child passengers which are travelling with an Adult. A baseFarePricesBySegment [] array into responses: get and post api/Reservation v2.3; get api/Reservation/AddSSR v2.3, with an information of base fare price for segments. A refundOnlyWithTicket parameter into post api/Refund/Calculate; api/Refund/Partial; api/InvoluntaryRefund/Moneyless; api/InvoluntaryRefund which are indicating a responsibility to refund an additional option without a ticket. A recommendations [] array was extended 'outboundDiscount' and 'returnDiscount' values for every valid combinations of flight segments 	Usolkin R.A.
30.06.2023	2.3.97	for booking. Added: code parameter to the recommendations[].outboundFareAndAmountDe tails[] and recommendations[].returnFareAndAmountDetail s[] arrays of GET api/flights service response, determines which fare brand the segment belongs to; check-in services; service of checking of participation of passengers in the loyalty program POST api/searchContact (unavailable for agents); optimized method of removing services from the reservation POST api/services/removeByReferences; preselectedSeats array of pre-added seats to the GET api/seatmap service response for the main IBE application;	Gudumak S.E.

		 to the Attachment: Dictionaries description of statuses of seats on checkin. Changed: description of the documentNumber parameter in the GET api/reservation service response - masked according to the specified rules number of document of passenger; deleted taskId parameter (task Id in CRM) from the POST api/receipt service response. 	
24.05.2023	2.3.96	 relatedInfantWithSeatId parameter for POST SeatmapStandalone, POST CatalogueStandalone services InfantsWithSeats parameter for POST Discounts, POST Reservation services ins parameter for GET Flight service an array for contacts not related to a passenger for POST Resrvation service flightNumber parameter type changed from string to integer 	Savin A.A.
12.04.2023	2.3.95	 services for registration POST Checkin/reservation, POST Checkin/register, POST Checkin/cancel, GET Seatmap/checkin updated method GET Checkin boarding pass receipt service GET BoardingPass services for working with certificates GET certificate/CheckCertificate/Advanced μ POST Certificate/Refund the country of South Ossetia has been added to the Attachment: Directories of countries 	Mikhaylo v M.F
09.03.2023	2.3.94	Added: the isGiftCertificate parameter in POST api/certificate/apply and POST api/certificate services responses, which indicates whether the certificate being applied is a gift certificate or not;	Gudumak S.E.

		 the appliedCertificates array in GET api/reservation response with information about applied certificates; the quotas array in GET api/catalogue v2.3 and POST api/catalogueStandalone responses with information about available quotas for the service (currently this parameter is returned only for the service with the PETC code); to the Attachment: Dictionaries of document types added other type of document with documentType = 3. 	
13.02.2023	2.3.93	Added: • services for operating with certificates GET, POST, DELETE certificate, POST certificate/apply, GET certificate/CheckCertificate	Savin A.A.
22.12.2022	2.3.92	 Added: the tourCode parameter in the POST reservation creation service; service for the voluntary rebook of tickets on the ADP environment; added expirationUtc parameter for the services GET reservation, GET reservation; ability to create reservation with unaccompanied child. 	Savin A.A.
17.11.2022	2.3.91	 Changed: mandatory of query-parameters in GET api/seatmap request: only the referenceNumber of flight is required parameter; format of loyaltyCard parameter in POST api/reservation request. 	Gudumak S.E.
03.10.2022	2.3.90	Parameters checkedIn, checkInHasStarted are supported and parameters checkedInSegment, checkInHasStartedSegment are added in GET api/reservation and GET api/reservation/advanced; parameters couponStatuses, couponStatusesBySegment in GET	Sheremet T.Y. Gudumak S.E. Savin A.A.

		api/reservation and GET	Mikhaylo
		 api/reservation/advanced are supported; parameters flightReferences are added in GET reservation in arrays baseFarePrices μ tickets; MMI, INS passenger types are added; DELETE api/reservation method to delete unpaid reservations was added; the ability to pass PNR and lastName parameters in Cyrillic in GET api/reservation method; description of SSR with SPAX type to Attachment: Service SSR; ability to open reservation in BMM via ticketNumber; booking payment service api/payment; online checkin service api/checkin; change passenger's data service api/passenger; contact info add service api/Reservation/AddContactInfo; service for retrieving SSR and remarks information api/version/Reservation/Advanced; service for add SSR to the reservation /Reservation/AddSSR. 	v M.F.
01.09.2022	2.3.89.1	Changed the title and description for ADP method POST api/InvoluntaryRefund/moneyless.	Gudumak S.E.
29.08.2022	2.3.89	 services for working with queues on ADP environment; STR, JNN passenger types are added to the EN_8_1_Attachment: Dictionaries; service for obtaining recommendations for exchange; accountCode parameter is supported in GET api/calendar, GET api/flights, POST api/reservation; endorsements array is supported in POST api/reservation and GET api/reservation; added the ability to receive discounts on flight via conventional and promocode discounts; added the ability to receive TFC (Tariff Application Conditions) in POST/flights/conditions; to the response of GET api/reservation method information about spent bonuses: spentBonuses and spentBonusesByPassengers; 	Gudumak S.E. Savin A.A. Sheremet T.Y.

		 the parameters of loyaltyCard and loyaltyCardValidTo to the POST api/reservation request; POST api/InvoluntaryRefund method; POST api/InvoluntaryRefund/moneyless method for ADP which let to refund tickets without returning money; POST api/refund/Calculate and POST api/refund/partial methods - standard methods for calculating and performing voluntary refund; GET api/refund method for getting information about already performed refunds; the Attachment: Service SSR; POST api/user method. 	
26.07.2022	2.3.88	Added the ability to create reservations for subsidized passengers: - src, yth parameters are supported in GET api/calendar, GET api/flights; - the isSubsidized parameter is supported in POST api/reservation; - the attachment dictionaries of passenger types has been updated. The possibility of payment in different currencies has been implemented: - the currency parameter is supported in GET api/flights; - the currency parameter is not used when creating a reservation in the POST api/reservation, a note has been added. The expectedPrice and searchPrice parameters are not used when creating a reservation. Added the ability to cancel seats Added the ability to partially cancel a booking Added the ability to add partner service to a booking Added the ability to void tickets and additional services	Gudumak S.E. Savin A.A. Sheremet T.Y.
07.07.2022	2.3.87	Initial version of the documentation.	Gudumak

Important changes after integration with Sirenaz-Travel:	S.E.
 changed GDS; changed booking process that now it is available only in one step without advanced reservation; to the responses of POST/GET api/reservation added new parameters relatedAdultReferenceNumber and relatedInfantReferenceNumber; in the response of POST/GET api/reservation changed the description of engineType parameter; added the second way of getting the itinerary receipt; services statuses Dictionary was added to Attachment 8_1. 	Savin A.A.
Note: some services and parameters are under development, so they are marked accordingly.	

Glossary

U6	Ural Airlines company
IBE, booking engine	Internet Booking Engine, U6 new ticket booking system. IBE API is described in this document.
Sirena	Global ticket booking system (GDS)
SIG	Integrator(vendor) of searching solutions from different GDS.
CRM	Customer management system integrated with IBE
BPC	Booking payment system integrated with IBE
WSAP	Web Service Access Point
PNR	Passenger name record on Sirena side. Contains information regarding flights, passenger data, auxiliary services, discounts etc.
SSR	Special Service Request. In current documentation almost always treated as "separate record in PNR". Record might contain information about passenger, services and other.
TST	Transitional Stored Ticket, part of Sirena document with information regarding tariff options in PNR.
TSM	Transitional Stored Miscellaneous, part of Sirena document with information regarding auxiliary services, added in PNR.

General provision

Purpose of this document is to provide IBE API methods description and its usage samples for 3rd party developers.

IBE API represents REST API which allows to search tickets and prices, book tickets on different flight directions, add auxiliary services and perform payment.

IBE API appears to be an interlayer between Sirena/SIG/CRM/BPC systems, other partners services and end-user client applications.

General information about API methods

API Versions

Recommended API version: v2.3

Recommended to use for all kind of requests.

Queries without specifying of API version is prohibited (exception: api/health service);

Supported versions: v2.2, v2.3

General information about API v2.x methods

Main differences between v 2.x and v 1.x:

Added possibility of using unique API-key instead of token. It allows to request flights and calendar information without necessity to create a session.

It this information needs to be stored in booking context then you should create a booking session via api/v2.x/session method and pass session ID in X-Session header. X-Api-Key header should be also be passed.

HTTP(S)-headers v2.x

For IBE API v2.x queries following HTTP(S) headers should be used:

Header name	Value	Purpose	Exceptions
X-Api-Key	xApiKey - key value. Depends on app type (arcadia, axmor, skyscanner)	authorization API- key	Service API methods
			POST session method
X-Session	sessionKey — value, retrieved from API Session query	Session management via HTTP header	GET flights method
			GET calendar method
			GET reservation method
			GET receipt without parameters
			Services methods except

			problemNotification.
Content- Type	application/json	General	No

IBE API services query

IBE API query string in common case (except service API methods) looks like: http://host/api/apiVersion/serviceName

where host – server, where booking engine is deployed

api – constant,

apiVersion – necessary IBE API version in «v2.x» format

serviceName – IBE API service name, for ex. «session» или «flights»

IBE API services response codes

IBE API handles exception situations thrown during service query execution. Following responses might be returned:

200 OK – both success and failed. In case of failed response, success field in response will be set to false. Error codes array will contain error code and description.

400 Bad Request – in case if query string was incorrect. Response model might differ from one used for correct service response.

401 Unauthorized – in case if API-кеу was not passed

Also codes specific for particular service might be returned.

Booking flow description

General booking flow

Booking flow consists of following API v2.x queries:

N₂	API Method	Description
1	POST api/session	Retrieving of unique booking session. Booking context is stored in session.
2	GET api/flights	Retrieving information about flights, tariffs and prices.
3	POST api/reservation	Booking creation: 1. Adding flights information 2. Adding passenger's data 3. Adding tariff's data Can be done in one way: single query passing all data.
4	GET api/catalogue	Optional. Obtaining list of auxiliary services (U6 and partners) and its prices
5	GET api/seatmap	Optional. Obtaining plane's seatmap and seat prices.
6	POST api/services	Optional Adding auxiliary services (u6's or partner's) to booking
7	GET api/partners/types	Optional Retrieve list of available partners.
8	GET api/partners/[id]	Optional Retrieve list of services available for specific partner. Where id is partner's number (presented in attachment)
9	POST api/partners	Optional.

		Adding of partner's service to booking.
10	POST api/payment	Obtaining link for redirection to payment page
11	GET api/reservation	Optional Retrieving information about paid booking (issued tickets etc)

Description of partners services upsale process after payment

Starting form API 2.2 version IBE supports possibility to upsale auxiliary services in context of new session

N₂	API Method	Description
1	-	Booking creation and payment according process described above.
2	POST api/session	Obtaining of new session which will be used for services upsale
3	GET api/reservation	X-Session header is mandatory Loading of payed booking context into session
4	GET api/catalogue	Obtaining list of auxiliary services (U6 and partners) and its prices
5	GET api/seatmap	Optional. Obtaining plane's seatmap and seat prices.
6	POST api/services	Adding auxiliary services (u6's or partner's) to booking
7	POST api/payment	Obtaining link for redirection to payment page

API methods description

Obtain session service

API service	session
Short description	Allows to obtain session for storing booking context
Supported HTTP(S)-methods	POST
Conterminous systems methods used	no

POST session method

Description: new session creation

At present session expires in 60 minutes each API query automatically prolongates it.

Request format /api/apiVersion/session

Request header

X-Api-Key - unique GUID of system using IBE API.

Request paramaters

No parameters

Response format

```
{
    "sessionKey": "string",
    "sessionId": "string"
}
```

Response parameters

Parameter	Description
sossianVov	Session key
sessionKey	Used for storing of booking context

	Id session
sessionId	service field

Response sample

```
{
    "sessionKey": "ad712a62-3d18-4d3a-bd3b-6d883d111aaf",
    "sessionId": "654cc0ec-c857-955f-af82-792a239675b6"
}
```

Obtain flights service: api/flights

Obtain flights service v2.2

API service	flights	
Short description	Obtain list of available flights for specified dates and recommendations with ticket prices	
Supported HTTP(S)- methods	GET	
	Sirena: pricing_route, pricing_route_and_mono_brand_tail	
Conterminous systems methods used	SIG: SIG_AirShop	
	CRM: CalculateDiscount	

GET flights method

Description: obtain list of flights and flight's prices

Request format: /api/apiVersion/flights

Request samples

One way flight:

/api/apiVersion/flights

? orig=LED & dest=MOW & dep=20220710 & mode=Mono & adt=1 & chd=0 & inf=0 & src=0 & yth=0 & umnr=0 & str=0 & jnn=0 & gcf=0 & jcb=0

Two way flight:

/api/apiVersion/flights

Request parameters

IMPORTANT: non-subsidised (ADT/CHD/INF) set of passengers types should be used in request; to receive recommendations for round trip reservation need to use mode=Mono parameter

Parameter	Type	Description	Value samples	Notes
orig	string	Original airport IATA-code	LED	
dest	string	Destination airport IATA-code	DME	
			Format yyyyMMdd	
dep	date	Departure date	Sample:	
			20180801	
			Формат ууууМMdd	
ret	date	Return date	Пример:	
			20180905	
adt	integer	number of Adult passengers	Integer number in	
chd	integer	passengers	interval [0; 9]. Overall number of passengers	
inf	integer	number of Infant passengers	must not exceed 9	
ins	integer	number of Infant with seats passengers		
src	integer	number of Senior citizen passengers		Not suitable passenger type for issuing a booking via Agents
yth	integer	number of Youth passengers		Not suitable passenger type for issuing a booking via Agents
cnn	integer	number of passengers type children which		

		are traveling with subsidised passenger type	
str	integer	number of passengers of subsidized adult for the Far East	Not suitable passenger type for issuing a booking via Agents
jnn	integer	number of passengers of subsidized children for the Far East	Not suitable passenger type for issuing a booking via Agents
gcf	integer	number of passengers of subsidized pensioner for the Far East	In developing
jcb	integer	number of passengers of subsidized youth passengers for the Far East	In developing
mil	integer	Number of passengers of the type "Ministry of Defence of the Russian Federation"	
mmi	integer	number of passengers by Ministry of Defence	
mir	integer	Number of passengers of the type "Ministry of Internal Affairs of the Russian Federation"	
mnn	integer	Number of passengers of the "military children" type	
mns	integer	Number of "infant with seat" passengers	

mml	integer	Number of passengers flying with a military man		
mode	string	Search mode (optional parameter, affects search via SIG)	mono - only mono- recommendations are requested, for example, PR there and PR back; full - all recommendations are requested.	For the Sirena search now it uses mode=Mono, full - in developing
ofn	string	Array of one-way flight numbers (optional parameter, affects search via SIG)	60	In developing
rfn	string Array of return flight numbers (optional, affects search via SIG)		371,392	In developing
accountCode string Personal account client code (optional parameter)		ACCadd005		
meta	boolean	Sign of metasearch.		In developing
currency	urrency string Currency of recommendations.		EUR	
cabin	string	Class of service	Economy, Business	In developing
SearchAllBrands	bool	Search for all brands		In developing
subsidies_type string Type of subsidies		Numeric value from 0 to 3: Disability = 0, Kaliningrad = 1, FarEast = 2, Age = 3. String value: Disability = people		

	with disabilities, Kaliningrad = Kaliningrad, FarEast = Far Eastern District, Age = Age
	subsidies.

Response format

```
{
    "data": {
         "airShopSessionId": string,
         "currency": string,
"outboundFlights": [flightGroup],
         "returnFlights": [flightGroup],
         "fareFamilies": [{
                  "fareFamilyId": integer,
                  "code": string,
                  "shortCode": string,
"category": string,
                  "isSubsidized": boolean,
                  "order": integer,
                  "commercialFamily": string,
                  "canRefund": boolean,
                  "hasUpsale": boolean "options": [{
                           "code": string,
                           "category": string,
                           "order": integer,
                           "showInPopup": boolean,
                           "showInSummary": boolean,
                           "showInUpsell": boolean,
                           "showInFareIncluded": boolean,
                           "showForAdult": boolean,
                           "showForInfant": boolean
                       }
                  ]
             }
         ],
"foodOnBoards": [{
"foodOnBoards": [
                  "departureAirport": string,
                  "arrivalAirport": string,
                  "flightNumber": integer,
                                   "commercialFamily": string,
                  "translation": {
                       "ru": string,
                       "en": string,
"zh": string
                  }
             }
         ],
```

```
"alternativeFlights": [{
         "departure": string,
         "arrival": string
],
"discountConstraints": [{
         "fareFamilies": [string],
         "flights": [string],
         "excludedFlights": [{
                 "flightNumber": integer,
"departureAirport": string,
                 "arrivalAirport": string
             }
        ]
    }
],
"recommendations": [{
    "authoundFlight"
         "outboundFlightGroupId": integer,
         "outboundFareFamilyId": integer,
         "returnFlightGroupId": integer,
         "returnFareFamilyId": integer,
         "outboundFlightGroupHash": string,
         "returnFlightGroupHash": string,
         "outboundFareFamilyCode": string,
         "returnFareFamilyCode": string,
         "outboundPrice": integer,
         "outboundTaxes": integer,
         "returnPrice": integer,
         "returnTaxes": integer,
         "outboundSeatsLeft": integer,
         "returnSeatsLeft": integer,
         "totalPrice": integer,
                         "outboundFareAndAmountDetails": [{
                 "bookingCode": string,
                 "fareBasis": string,
                 "isBreakpoint": boolean,
                 "paxType": integer,
                 "paxCount": integer,
"taxAmount": integer,
                 "totalAmount": integer,
                 "isSale": boolean,
                                          "code": string
             }
        ],
"returnFareAndAmountDetails": [{
                 "bookingCode": string,
                 "fareBasis": string,
                 "isBreakpoint": boolean,
                 "paxType": integer,
                 "paxCount": integer,
                 "taxAmount": integer,
                 "taxAmount": integer,
"code": string
             }
         outboundBaggageAllowances": [{
                  "quantity": integer,
```

```
"weight": integer,
               "passengerType": integer,
                                           "fareCode": string
          }
     ],
"returnBaggageAllowances": [{
               "quantity": integer,
               "weight": integer,
               "passengerType": integer,
                                           "fareCode": string
          }
     ],
"discount": {
    "id": str:
          "id": string,
          "name": string,
          "amount": integer,
          "discountType": integer,
          "usageType": integer,
"startDate": datetime,
          "endDate": datetime
    },
"promotion": {
    "number": string,
    "amount": integer,
    "promotionStatus": string,
    ""romotionType": string,
    ""tring,
          "startFlightDate": datetime,
          "endFlightDate": datetime,
          "startDate": datetime,
          "endDate": datetime,
          "isUnique": boolean,
          "campaignId": string,
          "directions": [{
                    "id": string,
                    "origin": string,
                    "destination": string
               }
          ],
"services": [{
    "code"
                    "code": string
               }
          ],
"families": [{
"ande"
                    "code": string
          "hasConflict": boolean,
          "excludedFlights": [{
                    "flightNumber": integer,
                    "departureAirport": string,
                    "arrivalAirport": string
               }
          ]
    }
}
```

],

flightGroup object

```
"flightGroupId": integer,
"flights": [{
    "flightId": integer,
    "departureAirport": string,
    "departureTerminal": string,
    "arrivalAirport": string,
    "arrivalTerminal": string,
    "departureDateTime": datetime,
    "excludedNationalities": [
        string
   "arrivalDateTime": datetime,
    "aircraft": string,
    "aircraftIataCode": string,
    "techStops": [{
        "arrivalDateTime": datetime,
        "departureDateTime": datetime,
        "airportCode": string,
        "stopDuration": string,
        "flightDurationUntilNextStop": string
      }
    ],
"flightDuration": string,
    "flightDurationUntilNextStop": string,
    "stopDuration": string,
    "flightNumber": integer,
    "marketingCarrier": string,
    "operatingCarrier": string,
    "codeshare": string,
    "codeshareFlightNumber": string
    "hash": string
 }
"flightGroupDuration": string,
"hash": string }
```

Response format if there are no flights for the requested dates (round trip)

```
{
  "data": {
    "outboundFlights": [],
    "returnFlights": [],
    "fareFamilies": [],
    "recommendations": [],
    "outboundNextNearestFlightDate": datetime,
    "returnNextNearestFlightDate": datetime,
    "foodOnBoards": [],
    "currency": string,
    "airShopSessionId": string,
    "moneyWallCoefficient": integer
},
   "errors": [],
   "success": boolean
}
```

Response parameters

Parameter	Description	Notes
	Sign of query execution success.	
success	If errors array is empty, field value will be set to true	
data	Returned data	
airShopSessionId	SIG search session ID	
currency	currency in which prices are represented	
moneyWallCoefficient	Coefficient for calculating the monthly installment payment	
containsInternationalFlights	Sign that one of the airports is located outside the territory of the RF	
outboundFlights	Array of flightGroup objects with information about outbound flights	
returnFlights	Array of flightGroup objects with information about return flights.	
	For one way flight array will be empty	
fareFamilies	Array of objects with information about fare families	

	fareFamilyId	Fare family ID	
		Fare family code, for ex:	
	code	ECOLIGHTRU/ECOFLEXRU/ECOPRE MRU etc.	
		Shortened code for fare family identification	
	shortCode	for example for fare families mentioned above:	
		PR/EC/FL etc.	
		Fare family category, for ex:	
	category	ECOLIGHT/ECOFLEX/ECOPREM	
		Possible values: see <u>Attachment 2, Main</u> <u>fare family categories</u>	
	order	fare families display order	
	i-lril-	fare family type for ex:	
	commercialFamily	U6ECONOMY or U6BUSINESS	
	isSubsidized	Sign of subsidised tariff	
	canRefund	Sign of refundable tariff	For Sirena: in developin g
	hasUpsale	Sign indentifying whether present tariff can be upgraded to next one in price category.	
		Used for management of Upsale block display in frontend.	
	options	Array of fareFamiliesOptions objects with information about tariff options.	
		Possible values: see <u>Attachment 2, tariff</u> options	
01	utboundNextNearestFlightDate	The nearest departure date for one-way flight, if there are no flights on the	For Sirena: in

			requested date	developin g
r	returnNextNearestFlightDate		The closest date of departure back, if the flight is RT and there are no flights for the requested dates	For Sirena: in developin g
f	ood(OnBoards	Array of objects with information about meals available on the flight	
	dej	partureAirport	Airport of departure	
	arr	ivalAirport	Airport of arrival	
	flig	ghtNumber	Flight number	
	COI	mmercialFamily	Fare family type (different type of meals for economy and business can be available for one flight)	
	tra	nslation	Object with translation options	
		ru	Options translation to russian	
		en	Options translation to english	
		zh	Option translation chinese	
a	alternativeFlights		Alternative destinations (returned from CRM if no flights were found on the selected date)	
	dej	parture	Departure airport of alternative direction	
	arr	ival	Arrival airport of alternative destination	
(discountConstraints		Array of objects with information about exceptions in discounts	
	far	reFamilies	Array of fare families for which discount should be applied	
	flights		Array of flight numbers for which discount should be applied	
			If at least one <u>of transfers</u> of the flight is not present in array, discount should not be applied	
	exc	cludedFlights	Array of objects with information about flight number exceptions	

	flightNumber	Flight number	
	departureAirport	Airport of departure	
	arrivalAirport	Airport of arrival	
r	ecommendations	Array of recommendations objects for flights	
	outboundFlightGroupId	outbound flight number, matches one of outboundFlights.flightGroupId numbers	
	outboundFareFamilyId	outbound fare family number, matches one of fareFamilies.fareFamilyId numbers	
	returnFlightGroupId	return flight number, matches one of returnFlights.flightGroupId numbers	
	returnFareFamilyId	return fare family number, matches one of fareFamilies.fareFamilyId numbers	
	outboundFlightGroupHash	Flight group hash there	
	returnFlightGroupHash	Flight group hash back	
	outboundFareFamilyCode	Fare family code for outbound travel Matches fareFamilies.code	
	returnFareFamilyCode	Return Fare Family Code Matches fareFamilies.code	
	outboundPrice	outbound ticket's price	
	outboundTaxes	outbound ticket's tariffs and fees	
	returnPrice	return ticket's price	
	returnTaxes	return ticket's tariffs and fees	
	outboundSeatsLeft	Amount of remaining seats for present outbound recommendation	
	returnSeatsLeft	Amount of remaining seats for present return recommendation	
	totalDiscount	Amount of discount	For Sirena: in developin g
	totalBaseFare	Total amount of base fare	
	totalPrice	Total ticket price including all applied	

	discounts
outboundFareAndAmountDetail s	An array of fareDetails objects containing detailed information about fares for the "there" direction
returnFareAndAmountDetails	An array of fareDetails objects containing detailed information about fares for the "return" route
outboundBaggageAllowances	An array of objects containing detailed information about baggage allowances for the "there" route
returnBaggageAllowances	An array of objects containing detailed information about baggage allowances for the "return" route
discount	Information about discount available for present flight
	Discount may absent for certain flight they are in the list of exceptions. Exceptions stored on CRM and IBE side.
id	Discount campaign id in CRM
name	Discount campaign title
amount	Discount amount
	Discount type, possible values
	0 – Percent
discountType	1 – Roubles
	It is recommended to check discount type against its value. For ex for type 0 amount should be within [0;100] interval.
	Discount application type, possible values:
usageType	0 – Fare
	1 – Order
startDate	Discount interval start date
endDate	Discount interval end date

promotion	Information about the promo code applied for this flight.	
number	Promo code	
amount	Discount amount by promo code	
	Promo code status	
promotionStatus	Possible values: dictionary of promo codes statuses	
	Promo code type	
promotionType	0 - promotional code for the flight	
	1 - promotional code for an additional service	
description	Description of the promo code campaign	
startFlightDate	Start date of the period of flights with a promo code	
endFlightDate	End date of the period of flights with a promo code	
startDate	Start date of the promo code validity period	
endDate	End date of the promo code validity period	
isUnique	A sign of the uniqueness of a promo code	
campaignId	Promo code campaign ID	
directions	Directions of exclusions / inclusions	
origin	Departure airport	
destination	Arrival airport	
services	An array of objects with information about the services that the promo code applies to	
	Service code	
code	Possible values: dictionary of additional services (except insurance)	
excludedFlights	Common exclusions - flights for which discounts are not indicated	

			flightNumber	Flight number	
			departureAirport	Departure airport	
			arrivalAirport	Arrival airport	
	hasC		nsConflict	Sign of success in adding a promotional code to a booking	
				False if errors occurred while adding the promo code	
er	errors			Information about errors appeared during query execution.	
j	ibeCode			Error code	
\prod	description		ion	Code description	
	messages		es	Array of objects, containing errors from Sirena/SIG response. Array can be empty, it is recommended to analyse errors by ibeCode.	
	code			Sirena/SIG error code	
	te	ext		Sirena/SIG error text	

Object flightGroup

Contains information about flights

data.outboundFlights or data.returnFlights		
flightGroupId	index number used in recommendations	
flightGroupDuration	Total flight time: summed up of duration values of each <u>transfer</u> and technical stop.	
hash	Service field	
flights	Array of objects with information	
flightId	Flight id	
departureAirport	Airport of departure	
departureTerminal	Terminal in airport of departure	
arrivalAirport	Airport of arrival	

arrivalTerminal	Terminal in airport of arrival	
	Departure date and time	
departureDateTime	Format: yyyy-MM-ddTHH:mm:ss	
	Example: 2018-05-27T17:25:00	
excludedNationalities	Array with information about passenger nationalities prohibited for transportation on present flight	
	Example: ISR (for flights 3837 and 3838)	
	Arrival date and time	
arrivalDateTime	Format: yyyy-MM-ddTHH:mm:ss	
	Example: 2018-05-27T20:50:00	
	Full aircraft title	
aircraft	For ex.: Airbus A320	
aircraftIataCode	IATA aircraft code	
flightDuration	Duration of flight	
flightDurationUntilNextStop	Flight duration until <u>first</u> technical stop	
stopDuration	Technical stop duration	
flightNumber	flight number	
	Marketing carrier	
marketingCarrier	Example: U6, S7	
	Operating carrier (one actually performed flight)	
operatingCarrier	Example: U6, OK	
	Full aviacompany title performing code-share flight	
codeshare	Example: Czech Airlines for operatingCarrier = OK	
	For operatingCarrier = U6, present field is empty	
codeshareFlightNumber	The flight number of the airline that operates the codeshare flight.	
hash	service field	

techStops	Array of objects with information about technical stops
	Date and time of arrival to airport where technical stop is performed
arrivalDateTime	Format: yyyy-MM-ddTHH:mm:ss
	Example: 2018-05-26T05:30:00
	Date and time of departure from airport where technical stop is performed
departureDateTime	Format: yyyy-MM-ddTHH:mm:ss
	Example: 2018-05-26T08:00:00
airportCode	Airport code
stopDuration	Technical stop duration
flightDurationUntilNextStop	Flight duration until next stop

Object fareFamiliesOptions

Contains information about tariff options. Used for tariff option display in IBE website.

data.fareFamilies.options		
	Tariff option code	
code	Example: upTo5bonuses, refundExchangeProhibited, mealsOnBoard etc.	
	Option category code	
category	Example: bonus, ffServices etc.	
order	Index number of option display	
showInPopup	flag determining whether option should be displayed in "your options" pop-up	
showInSummary	flag determining whether option should be displayed on Summary page.	
showInUpsell	flag determining whether option should be displayed in tariff upgrade information block	
showInFareIncluded	flag determining whether option should be displayed when filter is selected	

showForAdult	flag determining whether option should be displayed for adult passenger.
showForInfant	flag determining whether option should be displayed for infant.

Object fareDetails

Contains information about tariff details

data.recommendations.outboundFareDetails or data.recommendations.returnFareDetails		
bookingCode In general case it is first symbol in fareBasis		
	Base tariff title	
fareBasis	Example: WPROW или WECOW	
isBreakpoint	Flag identifying whether tariff ends on present segment.	
_	Passenger type.	
paxType	Possible values: Attachments, passenger types	
paxCount Amount of passengers of specific type		
taxAmount	Tariffs and fees	
totalAmount	Full ticket price including tariffs and fees	
isSale	A parameter that defines the sales rate	
code	The parameter that determines which fare brand the segment belongs to.	

Object BaggageAllowances

Contains information about baggage allowances

data.recommendations.outboundBaggageAllowances or data.recommendations.returnBaggageAllowances	
quantity	count of baggage
weight	weight of baggage
passengerType	passenger type

fareCode

fare family for which baggage is returned

totalPrice field value examples

One way flight, no discounts

totalPrice is equal to value outboundPrice



Two way flight:

totalPrice = outboundPrice + returnPrice

totalPrice = 998 + 140 = 1138



Methods available for version 2.3

Method POST flights/conditions

Description: Aallows to get the TFC (Tariff Application Conditions).

Request format /api/apiVersion/flights/conditions

Request body

Request parameters

Parameter	Description
rulesKeys	Array of objects with information about the keys

		of the TFC
	key	Key TFC

Request body example

"eJxdjlEKwjAQRK8yFxB2N5uk7SUUf/odpGBAFKr44a8XKHhh042VKpkEJp08WRFchzGnU36kW76cuy6Nh2O+D2AFIZZNYKcsGiDYcLHlULAni0TQekiAR7/bb3s4+1JXAyERani54AhVaPPNmNibqfnc+alwoY0ssVhYi1X/Ele0eVSh2AbyzgjGWIvr+BVTtPD/nlU5PKfXG/geN0w="

```
},
{
    "key":
```

"eJxdjlEKwjAQRK8yFxB2N5uk7SUUf/odpGBAFKr44a8XKHhh042VKpkEJp08WRFchzGnU36kW76cuy6Nh20+D2AFIZZNYKcsGiDYcLHlULAni0TQekiAR7/bb3s4+1JXAyERani54AhVaPPNmNibqfnc+alwoY0ssVhYi1X/Ele0eVSh2AbyzgjGWIvr+BVTtPD/nlU5PKfXG/geN0w="

```
]
```

Response body

```
"data": {
  "faresRules": [
    {
       "key": string,
       "fareConditions": [
         {
           "number": integer,
           "title": string,
           "description": string
      ]
    }
  ]
},
"errors": [
  {
    "ibeCode": string,
    "description": string,
    "messages": [
       {
         "code": string,
         "text": string
       }
    ]
  }
],
```

```
"success": boolean }
```

Response parameters

Parameter		Parameter	Description	
da	data			The data returned by the request
	far	resR	ules	Array of objects with information about rules
		key		Key TFC
		fare	Conditions	Array of objects with rules for the key
			number	Number of the rule
			title	Title of the rule
			description	Description of the rule
err	errors			Information about errors appeared during query execution
	ibeCode		е	Error code, see EN_Attachment 1. IBE error codes
	description		tion	Code description, see. EN_Attachment 1. IBE error codes
	messages		es	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode
		cod	e	Sirena error code
		text		Sirena error text
				Sign of the success of the request
suc	success			If the errors array is empty, then the field value will be true

Method GET flights/allFlightStatusesForDay

Description: allows to get all flights for directions on specific date

Request format: /api/apiVersion/flights/allFlightStatusesForDay

Request parameters

Parameter	Description
date	Flight date
departureAirport	Departure airport
arrivalAirport	Arrival airport

Request example

/api/v2.3/flights/allFlightStatusesForDay?departureAirport=DME&arrivalAirport=SVX&date=2021-10-27

Response body

```
"data": {
  "flightStatuses": [
      "fnNumber": integer,
      "fnSuffix": string,
      "fnCarrier": string,
      "dayOfOrigin": datetime,
      "departureAirportActual": string,
      "arrivalAirportActual": string,
      "legState": string, "legType": string,
      "aircraftRegistration": string,
      "aircraftType": string,
      "departureAirportSched": string,
      "arrivalAirportSched": string,
      "departureDTSchedUTC": datetime,
      "arrivalDTSchedUTC": datetime,
      "departureDTSchedLocal": datetime,
      "arrivalDTSchedLocal": datetime,
      "estimatedArrivalDate": datetime,
      "offBlockDT": datetime,
      "airborneDT": datetime,
      "landingDT": datetime,
      "onBlockDT": datetime,
      "updateDT": datetime,
      "checkinSinceDTUTC": datetime,
      "checkinUntilDTUTC": datetime,
      "checkinSinceDTLocal": datetime,
      "checkinUntilDTLocal": datetime,
      "departureDTUTC": datetime,
      "departureDTLocal": datetime,
      "arrivalDTUTC": "2021-10-27T07:40:00",
      "arrivalDTLocal": "2021-10-27T12:40:00",
      "isFlightDelayed": boolean
```

```
}

}

}

math representation in the service of the service of
```

Response parameters

Parameter		Description
dat	ita	The data returned by the request
	flightStatuses	Array of objects with information about flights
	fnNumber	Flight number
	fnSuffix	Flight suffix
	fnCarrier	Airline operating the flight
	dayOfOrigin	Departure date of the scheduled flight
	departureAirportActual	IATA code of the airport of departure - actual
	arrivalAirportActual	IATA-code of the airport of arrival - actual
	legState	Flight status
	legType	Тип рейса
	aircraftRegistration	Flight type
	aircraftType	IATA aircraft type code
	departureAirportSched	IATA code of the scheduled departure airport
	arrivalAirportSched	IATA code of the scheduled arrival airport
	departureDTSchedUTC	Scheduled departure time UTC
	arrivalDTSchedUTC	Scheduled arrival time UTC
	departureDTSchedLocal	Scheduled departure time Local

	arrivalDTSchedLocal	Scheduled arrival time Local	
	estimatedArrivalDate	Estimated time of arrival	
	offBlockDT	Departure time from gate	
	airborneDT	Take off time	
	landingDT	Boarding time	
	onBlockDT	Time of arrival at the parking lot	
	updateDT	Date of last update of flight information	
	checkinSinceDTUTC	Check-in start for the flight UTC	
	checkinUntilDTUTC	Check-in end for the flight UTC	
	checkinSinceDTLocal	Check-in start for the flight UTC	
	checkinUntilDTLocal	Check-in end for the flight UTC	
	departureDTUTC	Departure time UTC	
	departureDTLocal	Departure time Local	
	arrivalDTUTC	Arrival time UTC	
	arrivalDTLocal	Arrival time Local	
	isFlightDelayed	Flight delay sign	
erroi	rs ·	Information about errors that occurred during the operation of the service.	
il	oeCode	Error code, see Attachments 1. IBE error codes	
d	escription	Error description, see Attachments 1. IBE error codes	
n	nessages	Array of objects containing errors from the partner's response. The array may be empty, it is recommended to analyze the error by the ibeCode field.	
	text	Error text	
·		Sign of the success of the request.	
succ	ess	If the errors array is empty, then the field value will be true.	

Response body example

```
"data": {
  "flightStatuses": [
      "fnNumber": 273,
      "fnSuffix": " ",
      "fnCarrier": "U6",
      "dayOfOrigin": "2021-10-27T00:00:00",
      "departureAirportActual": "DME",
      "arrivalAirportActual": "SVX",
      "legState": "SKD",
      "legType": "J",
      "aircraftRegistration": "XXXXX",
      "aircraftType": "7M8",
      "departureAirportSched": "DME",
      "arrivalAirportSched": "SVX",
"departureDTSchedUTC": "2021-10-27T05:25:00",
      "arrivalDTSchedUTC": "2021-10-27T07:40:00",
      "departureDTSchedLocal": "2021-10-27T08:25:00",
      "arrivalDTSchedLocal": "2021-10-27T12:40:00",
      "estimatedArrivalDate": "2021-10-27T07:40:00",
      "offBlockDT": "0001-01-01T00:00:00",
      "updateDT": "2021-03-23T06:57:00",
      "checkinSinceDTUTC": "2021-10-25T05:25:00",
      "checkinUntilDTUTC": "2021-10-27T04:45:00"
      "checkinSinceDTLocal": "2021-10-25T08:25:00"
      "checkinUntilDTLocal": "2021-10-27T07:45:00",
      "departureDTUTC": "2021-10-27T05:25:00"
      "departureDTLocal": "2021-10-27T08:25:00",
      "arrivalDTUTC": "2021-10-27T07:40:00",
      "arrivalDTLocal": "2021-10-27T12:40:00",
      "isFlightDelayed": false
    }
  ]
"errors": [],
"success": true
```

Method POST flights/particularFlightsStatuses

Description: allows to get information about the flight

Request format /api/apiVersion/flights/particularFlightsStatuses

Request body

Request body parameters

	Parameter	Description	
requests			
	departureAirport	Departure airport	
	arrivalAirport	Arrival airport	
	date	Departure date	
	flightNumber	Flight number	
	dateTimeRange	If send D, the search will be carried out one day from the start time	

Request body example

The response of this method matches the response of GET flights/allFlightStatusesForDay method

49

Method GET Flights

Description: It lets to get flights which are available for booking and are matching with specific parameters of the request.

Discounts parameters by routes are included to the response.

Request format /api/apiVersion/flights

Request parameters: It has the same realisation as for get api/Flights v2.2

Changes in the api/apiVersion/flights version 2.3:

A new parameter subsidies_type is submitted in the search for subsidized flight options. Both string and numeric values can be given - subsidies_type: 2 / subsidies_type: FarEast

Request example:

One way flight:

/api/apiVersion/flights?orig=LED&dest=MOW&dep=20220710&mode=Mono&adt=1&chd=0&inf=0&src=0&yth=0&umnr=0&str=0&jnn=0&gcf=0&jcb=0

Response body

```
{
    "data": {
        "airShopSessionId": string,
        "currency": string,
        "outboundFlights": [flightGroup],
        "returnFlights": [flightGroup],
        "code": string,
                 "shortCode": string,
                 "category": string,
                 "isSubsidized": boolean,
                 "order": integer,
                 "commercialFamily": string,
                 "canRefund": boolean,
"hasUpsale": boolean "options": [{
                         "code": string,
                         "category": string,
                         "order": integer,
                         "showInPopup": boolean,
                         "showInSummary": boolean,
"showInUpsell": boolean,
                         "showInFareIncluded": boolean,
                         "showForAdult": boolean,
                         "showForInfant": boolean
                     }
                 ]
            }
        ],
```

```
"foodOnBoards": [{
         "departureAirport": string,
         "arrivalAirport": string,
"flightNumber": integer,
         "commercialFamily": string,
         "translation": {
             "ru": string,
             "en": string,
             "zh": string
],
"alternativeFlights": [{
    "departure": str
         "departure": string,
         "arrival": string
"flights": [string],
         "excludedFlights": [{
                 "flightNumber": integer,
                 "departureAirport": string,
                 "arrivalAirport": string
             }
         ]
],
"recommendations": [{
    "****boundFlight"
         "outboundFlightGroupId": integer,
         "outboundFareFamilyId": integer,
         "returnFlightGroupId": integer,
         "returnFareFamilyId": integer,
         "outboundFlightGroupHash": string,
         "returnFlightGroupHash": string,
         "outboundFareFamilyCode": string,
         "returnFareFamilyCode": string,
         "outboundPrice": integer,
"outboundTaxes": integer,
                        "outboundDiscount": integer,
         "returnPrice": integer,
         "returnTaxes": integer,
                         "returnDiscount": integer,
         "outboundSeatsLeft": integer,
         "returnSeatsLeft": integer,
         "totalPrice": integer,
         "totalBaseFare": integer,
         "totalDiscount": integer,
         "outboundFareAndAmountDetails": [{
                 "bookingCode": string,
                 "fareBasis": string,
                 "isBreakpoint": boolean,
                 "paxType": integer,
                 "paxCount": integer,
                 "taxAmount": integer,
                 "totalAmount": integer,
                 "isSale": boolean,
```

```
"code": string
}
"totalBaseFare": integer,
"totalDiscount": integer,
"returnFareAndAmountDetails": [{
           "bookingCode": string,
           "fareBasis": string,
           "isBreakpoint": boolean,
           "paxType": integer,
"paxCount": integer,
"taxAmount": integer,
           "totalAmount": integer,
           "code": string
}
],
outboundBaggageAllowances": [{
           "quantity": integer,
"weight": integer,
           "passengerType": integer,
                                         "fareCode": string
     }
],
"returnBaggageAllowances": [{
    """"": integer,
           "quantity": integer,
"weight": integer,
           "passengerType": integer,
                                         "fareCode": string
     }
],
                    "outboundBonus": {
      "bonus": "string",
      "replacedBonus": "string"
                    },
          "returnBonus":
                              {
"bonus": "string",
                              "replacedBonus": "string"
"discount": {
      "id": string,
      "name": string,
      "amount": integer,
      "discountType": integer,
      "usageType": integer,
"startDate": datetime,
      "endDate": datetime
},
"promotion": {
    "number": string,
    integer
      "amount": integer,
     "promotionStatus": string, "promotionType": string,
      "description": string,
      "startFlightDate": datetime,
      "endFlightDate": datetime,
      "startDate": datetime,
      "endDate": datetime,
```

```
"isUnique": boolean,
                 "campaignId": string,
                 "origin": string,
                        "destination": string
                    }
                 ],
"families": [{
    "code"
                        "code": string
                    }
                 "departureAirport": string,
                        "arrivalAirport": string
                    }
                 ]
             }
          }
       "moneyWallCoefficient": integer,
       "containsInternationalFlights": bool
   },
"errors": [{
    "ibe(
          "ibeCode": integer,
          "description": string,
          "text": string
   ],
"success": boolean
}
```

Response parameters (at the short form)

A description of parameters are the same as for get api/Flights v2.2 The recommendations [] array are extended by parameters for any available combination of booking:

recommendations		Array of recommendations objects for flights	
	outboundDiscount	An amount of discount for "There" route	
	returnDiscount	An amount of discount for "From" route	

	outboundBonus		The number of bonuses awarded for a flight "there"	
	bonus		Current number of bonuses awarded for the flight	
	replacedBonus		Outdated number of bonuses awarded per flight	
	returnBonus		The number of bonuses awarded for a return flight	
	bonus		Current number of bonuses awarded for the flight	
	replacedBonus		Outdated number of bonuses awarded per flight	
I	Parameter		Description	Notes

Method GET Flights/meta/search

Description: realizing option to get flight recommendations by Yandex Webmaster with related parameters of searching.

Request format: /api/apiVersion/flights/meta/search/api/apiVersion/flights/meta/search

Request parameters:

Required authorization by Login and password (Basic Auth with encoding via Base64) for receiving a response by the request.

Parameter	Description
departure	Location of departing (IATA code)
arrival	Location of arriving (IATA code)
date_forward	Planned date of departure (format: yyyy-mm-dd)
date_backward Planned date of arrival (optional)	
class	Class of service (Available options: Economy; Business)
adults	An amount of Adults, 12 years old and more.
children	An amount of Childs with seats. 2 years old until 11 years old.
infants	An amount of Infants without seats. Under 2 years old.

Notice: An amount for passengers with seats should be can 9 in total or less; a request used the 'infants' passenger type has required rule - Adults amount >= Infants amount; a request used the 'children' passenger type has required rule - adults amount >=1.

Request example:

OW flight: /api/apiVersion/search?departure=MOW&date_forward=2024-10-30&date_backward=2024-11-10&adults=1&children=1&arrival=SVX&class=business

Response boy:

```
"variant": [
    "url": string,
    "price": {
      "value": integer,
      "currency": string,
      "tariff_adult": integer,
"tariff_child": integer,
      "tariff_infant": integer,
      "refundable": boolean,
      "seats remaining": integer
    },
"route_forward": [
      {
        "flight_number": string,
        "carrier_name": string,
        "marketing_carrier": string,
        "operating_flight_number": string,
        "operating_carrier": string,
        "validating_carrier": string,
        "departure_airport_code": string,
        "arrival_airport_code": string,
        "departure_datetime": datetime,
        "arrival_datetime": datetime,
        "fare_code": string,
        "fare_family": string,
        "class": string,
        "charter": boolean,
        "selfconnect": boolean,
        "technical_stop": boolean,
        "luggage": {
           "included": bolean,
           "pieces": integer,
           "weight": integer,
"units": string,
           "dimensions": {
             "length": integer,
             "width": integer,
             "height": integer,
             "sum": integer
          }
        "hand_luggage": {
           "included": boolean,
           "pieces": integer,
           "weight": integer,
           "units": string,
```

```
"dimensions": {
             "length": integer,
             "width": integer,
             "height": integer,
             "sum": integer
      }
    ],
"route_backward": [
        "flight_number": string,
        "carrier_name": string,
        "marketing_carrier": string,
        "operating_flight_number": string,
        "operating_carrier": string,
        "validating_carrier": string,
        "departure_airport_code": string,
        "arrival_airport_code": string,
        "departure_datetime": datetime,
        "arrival_datetime": datetime,
        "fare_code": string,
        "fare_family": string,
        "class": string,
        "charter": boolean,
        "selfconnect": boolean,
        "technical_stop": boolean,
        "luggage": {
          "included": boolean,
          "pieces": integer,
          "weight": integer,
"units": string,
          "dimensions": {
            "length": integer,
            "width": integer,
            "height": integer,
            "sum": integer
        "included": boolean,
          "pieces": integer,
          "weight": integer,
          "units": string,
          "dimensions": {
             "length": integer,
            "width": integer,
            "height": integer,
            "sum": integer
 } } }
]
```

}

Response parameters:

Parameter	Description	Notes
variant	Available combination of flight segments for booking	
url	A link to the 2nd booking step at the IBE by the Connector. The link includes parameters flight segments and the Agent key.	
price	An array of value and amount available seats	
value	A total amount price for whole existed passengers.	
currency	Recommendation currency.	
tariff_adult	A total amount price for whole existed Adult passengers.	
tariff_child	A total amount price for whole existed passengers like 'Children'.	
tariff_infant	A total amount price for whole existed infant passengers without seats.	
refundable	Available of refunding the booking.	
seats_remaining	A total amount of seats by the current price.	
route_forward	An array of parameters data for 'Forward' flight.	
flight_number	Airline code and flight number.	
carrier_name	Full name of carrier Airline.	
marketing_carrier	Selling ticket Airline code.	
operating_flight_number	Flight number by the Airline.	
operating_carrier	Carrier code.	
validating_carrier	Carrier code Issuing ticket.	
departure_airport_code	Departure airport code.	

\neg	т		ĺ	1
	arrival_airport_code		Arrival airport code.	
	departure	e_datetime	Departing date time (local time)	
	arrival_datetime		Arriving date time (local time)	
	fare_cod	e	Fare code	
	fare_fam	ily	Fare category	
	class		Class of service	Available values: BUSINESS; ECONOMY
	charter		Charter tariff parameter	
	selfconne	ect	A parameter of Self connecting flight segments for transfer flights and issuing unique tickets for every flight segment at the booking.	
	technical	_stop	Existing tech stop until the flight parameter	
	luggage		An array of data for luggage parameters	
			A Parameter of existing a luggage at the tariff	
	piec	res	An amount of luggage included at the tariff	
	weig	ght	Available weight of one luggage piece included at the tariff.	
	unit	S	A unit of measurement for luggage weight.	
	dimensions length		An array of physical parameters data for a luggage	
			Available length of luggage	
		width	Available width of luggage	
		height	Available height of luggage	
		sum	Available sum of three luggage parameters in total	
	hand_luggage		An array of data for hand luggage parameters	

	ir	ncluded	A Parameter of existing a hand luggage at the tariff	
	pieces		An amount of hand luggage included at the tariff	
	M	reight	Available weight of one hand luggage piece included at the tariff.	
	u	nits	A unit of measurement for hand luggage weight.	
	d	imensions	An array of physical parameters data for a hand luggage	
		length	Available length of hand luggage	
		width	Available width of hand luggage	
		height	Available height of hand luggage	
		sum	Available sum of three hand luggage parameters in total	
]	route_ba	ackward	An array of parameters data for 'Backward' flight.	
	flight_number		Airline code and flight number.	
	carrie	_name	Full name of carrier Airline.	
	marke	ting_carrier	Selling ticket Airline code.	
	operat	ing_flight_number	Flight number by the Airline.	
	operat	ing_carrier	Carrier code.	
	valida	ting_carrier	Carrier code Issuing ticket.	
	depart	ure_airport_code	Departure airport code.	
	arriva	l_airport_code	Arrival airport code.	
	departure_datetime		Departing date time (local time)	
	arrival_datetime		Arriving date time (local time)	
	fare_code		Fare code	
	fare_family		Fare category	
	class		Class of service	Available values: BUSINESS; ECONOMY

charter	Charter tariff parameter	
selfconnect	A parameter of Self connecting flight segments for transfer flights and issuing unique tickets for every flight segment at the booking.	
technical_stop	Existing tech stop until the flight parameter	
luggage	An array of data for luggage parameters	
included	A Parameter of existing a luggage at the tariff	
pieces	An amount of luggage included at the tariff	
weight	Available weight of one luggage piece included at the tariff.	
units	A unit of measurement for luggage weight.	
dimensions	An array of physical parameters data for a luggage	
length	Available length of luggage	
width	Available width of luggage	
height	Available height of luggage	
sum	Available sum of three luggage parameters in total	
hand_luggage	An array of data for hand luggage parameters	
included	A Parameter of existing a hand luggage at the tariff	
pieces	An amount of hand luggage included at the tariff	
weight	Available weight of one hand luggage piece included at the tariff.	
units	A unit of measurement for hand luggage weight.	
dimensions	An array of physical parameters data	

			for a hand luggage	
	length	1	Available length of hand luggage	
	width	ı	Available width of hand luggage	
	heigh	t	Available height of hand luggage	
	sum		Available sum of three hand luggage parameters in total	

Booking management service: api/reservation

Booking management service v2.2

API service	reservation	
Short description	The service allows to manage booking: - add information to the booking (data on flights, passengers and fares); - receive information about the reservation; - delete unpaid reservations.	
Supported HTTP(S)- methods	GET, POST, DELETE	
Used methods of related systems	Sirena: Create booking - booking Getting information on booking - order, pnr_status Getting information about coupon statuses - view_flown_status Cancel booking - booking-cancel	

Method POST reservation

Description: creating a booking, adding information about flights, passengers and fares.

Inportant: There is only one option for creating a booking without advanced booking when all parameters for flights, fares and passengers are passed in one request.

Disabled an ability for creating a booking with subsidised fares via agents.

Request format /api/apiVersion/reservation

Request body

```
{
   "flights": {
      "outboundFlights": [reservationFlight],
      "returnFlights": [reservationFlight],
      "adults": integer,
      "children": integer,
```

```
"infants": integer,
       "infantsWithSeats": integer,
   "pensioners": integer,
   "youths": integer,
   "subsidizedChildren": integer,
   "origin": string,
   "destination": string,
   "passengersCount": integer
},
"passengers": {
   "passengers": [passengerData],
   "userAgreement": boolean
"accountCode": "string",
   "tourCode": "string",
   "outboundFareFamily": {
     "code": string,
     "category": string,
     "isSubsidized": boolean
  },
"returnFareFamily": {
    "" otring.
     "code": string,
     "category": string,
"isSubsidized": boolean
  },
"fares": [{
       "passengerType": "Adult",
       "flightIndex": integer,
       "flightDirection": integer,
       "fareBasis": string,
       "isBreakpoint": boolean
     }
  ],
"sessionMarker": string,
       "currency": string
"expectedPrice": ingeger,
"searchPrice": ingeger,
"airShopSessionId": string,
"reservationContacts"[
       "email": string,
       "phone": string
   }
  "subsidiesType": "Disability"
```

reservationFlight object

```
{
  "origin": string,
  "destination": string,
```

```
"departureDate": datetime,
"flightNumber": string,
"classOfService": string
}
```

The relatedAdultReferenceNumber parameter is added to the passengers[] array for CHD/INS/INF . The parameter is not available for other types of passengers.

passengerData object

```
"id": integer,
 "firstName": string,
 "middleName": string,
 "surname": string,
 "passengerType": integer,
 "birthDate": datetime,
 "sex": integer,
 "nationality": string,
 "documentNumber": string,
 "documentExpiryDate": datetime,
 "loyaltyCard": string,
 "loyaltyCardValidTo": datetime,
 "serviceClassUpOrdered": boolean,
 "email": string,
"phone": string,
"documentType": integer,
 "relatedAdultReferenceNumber": string,
 "disability": {
   "isDeaf": boolean,
   "isBlind": boolean,
   "hasGuideDog": boolean,
   "assistanceType": integer,
"wheelchairType": integer,
   "commentary": string
},
"socialSecurityNumber": string,
 "endorsements": [{
   "endorsement": boolean,
   "isDisability": boolean,
   "endorsementDocNumber": string,
   "endorsementDocDate": datetime,
   "loyaltyPartnerCard": string
],
"accompanimentBookingInfo": [{
   "endorsement": boolean,
   "isDisability": boolean
   }
"accompaniedPassengerId": number,
"SubsidyDocumentNumber": string
```

Request parameters

Pá	arameter	Description	Notes
fli	ghts	Object with information about flights	
(outboundFlights	Array of reservationFlight objects with information about flights in the "outbound" direction	
1	returnFlights	Array of reservationFlight objects with information about flights in the "return" direction	
á	adults, children,		
i	infants, infantsWithSeats pensioners,	Count of passengers of each type	
	youths, subsidizedChildren		
(origin	Departure airport	
(destination	Destination airport	
I	passengersCount	Total count of passengers with the seat	
pa	assengers	Object with information about passengers	
I	passengers	An array of passengerData objects with passengers information	
		Sign of sending consent to the newsletter	
ι	userAgreement	Consent is sent to CRM for all added passengers	
fa	res	Object with information about tariffs	
ä	accountCode	Account Code	
t	tourCode	Tour Code	
	outboundFareFamily	Object with information on fares for "there" direction	
		Fare family code	
	code	Data is taken from the response api/flights: data.fareFamilies.code	
		Fare family category	
	category	Data is taken from the response	

		api/flights: data.fareFamilies.category	
	isSubsidized	Sign of a subsidized tariff	Optional parameter
r	eturnFareFamily	Object with information about fare family tariffs for return flight	
		Fare family code	
	code	Data is taken from the response api/flights: data.fareFamilies.code	
		Fare family category	
	category	Data is taken from the response api/flights: data.fareFamilies.category	
	isSubsidized	Sign of a subsidized tariff	Optional parameter
fa	ares	An array with information about tariffs for directions "outbound" and "return"	
	fareBasis	Base tariff title	
		Data is taken from the response api/flights:	
		data.recommendations.outboundFareDetails.fareBasis and	
		data.recommendations.returnFareDetails.fareBasis	
		Flag identifying whether tariff ends on present segment.	
		Data is taken from the response api/flights:	
	isBreakpoint	data.recommendations.outboundFareDetails.isBreakpoint and	
		data.recommendations.returnFareDetails.isBreakpoint	
	passangar ^T rupa	Passenger type	
	passengerType	Possible values: see <u>Attachment 2. Passenger types</u>	
	flightDirection	Flight direction	
	mgniDirection	0 - outbound, 1 - return	

	flightIndex	Flight index for a specific flight	
S	sessionMarker Aviasales session marker		
currency		Reservation currency	This parameter is not used to create a booking in Sirena, because for offices, the default currency is set in the settings.
expectedPrice		The expected price of the booking, taken from the api/flights	This parameter is not used to create a booking.
searchPrice		The price that was received in the search request, taken from the api/flights or api/flights/search	This parameter is not used to create a booking
aiı	ShopSessionId	SIG search session ID, taken from the api/flights response	
res	servationContacts	Contacts that are not related to the passengers	
	email	Email	
	phone	Phone	
	subsidiesType	Type of subsidies	

reservation Flight

Parameter	Description
-----------	-------------

origin	Departure airport	
destination	n Destination airport	
	Date and time of departure	
	The data is taken from the api/flights response:	
	data.outboundFlights.flights.departureDateTime	
departureDate	or	
	data.returnFlights.flights.departureDateTime	
	Format: yyyy-MM-ddTHH:mm:ss	
	Example: 2018-06-20T01:00:00	
	Flight number.	
	The data is taken from the api/flights response:	
flightNumber	data.outboundFlights.flightNumber	
	or	
	data.returnFlights.flightNumber	
	Information about the selected tariff	
	The data is taken from the api/flights response:	
classOfService	data.recommendations.outboundFareDetails.bookingCode	
	or	
	data.recommendations.returnFareDetails.bookingCode	

passengerData Request object

Parameter	Description	Format	Notes
	Passenger's serial number (numbered from 1)		

firstName	Passenger's name	[A-Z], from two characters	The sum of the full name is no more than 43 characters
middleName	Passenger's patronymic (may be absent)	[A-Z], от одного символа	The sum of the full name is no more than 43 characters
surname	Passenger's surname	[A-Z], from two characters	The sum of the full name is no more than 43 characters
passengerType	Passenger type		
birthDate	Date of birth		
	Passenger gender		
sex	Possible values: see dictionary "gender of passengers"		
nationality	Nationality (country) Possible values: dictionary of countries		
documentNumber	Document number	For different document types there is different format rules: Passport of Russian Federation: 10 chars; Foreign passport of Russian Federation: 9 chars; Birth certificate of	

		Russian Federation: ^[IVX]+([A- Яа-Я]{2} [A- Za- z]{2,4})\d{6} \$. For documents of other countries there is no special format rules.	
documentType	Document type		
documentExpiryDate	Date until which the document is valid Mandatory only for a foreign passport of Russian Federation and national passports of other countries. For other documents, it is automatically set by Sirena.		
loyaltyCard	Loyalty card number "Wings"	10 numbers	
loyaltyCardValidTo	Expiration date of the "Wings" loyalty card (transmitted only if serviceClassUpOrdered = true)		
serviceClassUpOrdered	Flag indicating that the owner of the "Wings" gold card wants to upgrade the service class		In developing
email	Email		
phone	Phone		
relatedAdultReferenceNumber	Identifier of the adult attached to children		Only used for passenger types

		CHD/INS/INF
Information about people with disabilities		
Hearing impairment		
Visual impairment		
A guide dog must be accompanied, must be sent only together with the isBlind sign		
Passenger assistance type		
Possible values: dictionary of assistance types		
Wheelchair type		
Possible values: dictionary of wheelchair type		
Comment (optional)		
A specific numer of SNILS (optional)	10 digits	
Array with information about documents to buy tickets on the subsidized fares or to apply discounts on partner loyalty cards.		
The sign that an endorsement is adding to booking.		
Disability endorsements.		
Subsidy document number. E.g disability		
	people with disabilities Hearing impairment Visual impairment A guide dog must be accompanied, must be sent only together with the isBlind sign Passenger assistance type Possible values: dictionary of assistance types Wheelchair type Possible values: dictionary of wheelchair type Comment (optional) A specific numer of SNILS (optional) Array with information about documents to buy tickets on the subsidized fares or to apply discounts on partner loyalty cards. The sign that an endorsement is adding to booking. Disability endorsements. Subsidy document number.	People with disabilities Hearing impairment Visual impairment A guide dog must be accompanied, must be sent only together with the isBlind sign Passenger assistance type Possible values: dictionary of assistance types Wheelchair type Possible values: dictionary of wheelchair type Comment (optional) A specific numer of SNILS (optional) Array with information about documents to buy tickets on the subsidized fares or to apply discounts on partner loyalty cards. The sign that an endorsement is adding to booking. Disability endorsements. Subsidy document number. E.g disability

		or other document confirming the status of a large family.	
	endorsementDocDate	Subsidy document issue date.	
	loyaltyPartnerCard	Loyalty partner card number.	
а	ccompanimentBookingInfo	Information about the reservation containing an accompanying passenger	Currently used when creating reservations for MNN, MNS
	number	PNR of a booking containing an accompanying passenger	
	surname	Last name of the accompanying passenger	
a	ccompaniedPassengerId	Id number of accompanted passenger (related with subsidized booking by Disability subsidies)	
SubsidyDocumentNumber		Document number for confirming a right to get a subsidy (related for subsidized booking by Disability subsidies or Kaliningrad's subsidy)	

Response format

```
{
  "data": {
    "journey": {
        "outboundFlights": [fullReservationFlight],
        "returnFlights": [fullReservationFlight],
        "outboundFareFamily": {
        "code": string,
      },
```

```
"returnFareFamily": {
    "code": string,
  },
      "separateFareFamilies": {
    "code": string,
  },
  "origin": string,
  "destination": string,
  "departureDate": datetime,
  "returnDate": datetime
"reservationDate": datetime,
"passengers": [{
    "id": integer,
    "hasInfant": boolean,
    "referenceNumber": string,
            "relatedAdultReferenceNumber": string,
           "relatedInfantReferenceNumber": string,
           "relatedChildrenReferenceNumbers": [
      "string"
    ],
"firstName": string,
    "middleName": string,
    "surname": string,
    "passengerType": string,
    "birthDate": datetime,
    "sex": integer,
    "nationality": string,
    "documentNumber": string,
    "documentExpiryDate": datetime,
    "email": string,
"phone": string,
    "documentType": integer,
    "isAdult": boolean,
    "isChanged": boolean,
    "checkedIn": {
                   couponReference: boolean
           "checkInHasStarted": {
                   couponReference: boolean
    "checkedInSegment": {
        flightReference: boolean
                           },
    "checkInHasStartedSegment": {
        flightReference: boolean
           "hasPassengersDataErrors": boolean,
    "passengerDataErrors": [{
        "key": string,
        "value": string
    "endorsements": [{
                     "endorsement": boolean,
                     "isDisability": boolean,
                     "loyaltyPartnerCard": string
```

```
},
{
                          "endorsement": boolean,
"isDisability": boolean,
                          "endorsementDocNumber":
string, passengerDataErrors
                                                  "endorsementDocDate": datetime
                      }]
            }
    ],
"outboundBonus": {
    "" "strin
        "bonus": "string",
"replacedBonus": "string"
    "bonus": "string",
        "replacedBonus": "string"
    "services": [],
    "seats": [],
"insurance": {},
    "luggageSeats": [{
        "referenceNumber": string,
         "passengerReference": string
        "partnerProducts": [],
    "ticketFares": [{
         "baseAmount": integer,
         "passengerReferences": [{
             "referenceNumber": string,
             "referenceQualifier": string
         "passengerType": integer,
         "referenceNumber": string,
         "referenceQualifier": string,
         "totalAmount": integer,
                 "currency": string
    }],
"ticketFaresWithoutZapOff": [{
         "baseAmount": integer,
         "passengerReferences": [{
             "referenceNumber": string,
             "referenceQualifier": string
         }],
         "passengerType": integer,
         "referenceNumber": string,
         "referenceQualifier": string,
         "totalAmount": integer,
                 "currency": string
    "hasSpecialConditions": boolean,
    "isRefundAvailable": boolean,
    "annulUnavailabilityReason": integer,
    "isAnnulAvailable": boolean
},
  "errors": [{
```

fullReservationFlight object

```
{
    "aircraft": string,
    "aircraftIataCode": string,
    "referenceNumber": string,
    "origin": string,
    "destination": string,
    "departureDate": datetime,
    "arrivalDate": datetime,
    "arrivalDateUtc": datetime,
    "departureDateUtc": datetime,
    "flightNumber": string,
    "classOfService": string,
    "marketingCarrier": string,
    "operatingCarrier": string,
    "flightDuration": string,
    "stopDuration": string,
    "techStops": [{
             "arrivalDateTime": datetime,
             "departureDateTime": datetime,
             "airportCode": string,
             "stopDuration": string,
             "flightDurationUntilNextStop": string
        }
    ],
"flightDurationUntilNextStop": string,
    "arrivalTerminal": string,
    "departureTerminal": string,
    "hash": string,
    "statuses": [
            string
          ],
    "codeshare": string,
    "codeshareFlightNumber": string
"isCancelledByAirline": boolean,
    "isCheckinWithoutPseudo": boolean
}
```

Response parameters

Parameter		Description	Notes
		Sign of the success of the request.	
SUCC	ess	If the errors array is empty, then the field value will be true.	
data		The data returned by the request.	
nur	nber	Unique booking number (PNR).	
		Date and time of booking creation	
reso	ervationDate	Format: yyyy-MM-ddTHH:mm:ss	
		Example: 2018-06-20T15:44:00	
pas	sengers	An array of the passengerData objects with passenger information	
out	boundBonus	The number of bonuses awarded for a flight "there"	
	bonus	Current number of bonuses awarded for the flight	
	replacedBonus	Outdated number of bonuses awarded per flight	
ret	urnBonus	The number of bonuses awarded for a return flight	
	bonus	Current number of bonuses awarded for the flight	
	replacedBonus	Outdated number of bonuses awarded per flight	
ser	vices	An array of objects with information about additional services. Filled in when using the api/services service and will be described below	
sea	ts	An array of objects with information about the selected locations. Filled in when using the api/services service and will be described below	
ins	urance	Object with information about the selected	In

Parameter	Description	Notes	
	insurance. Filled in when using the api/services service and will be described below	developing	
luggageSeats	An array of objects with information about luggage with separate air ticket and ssr CBBG.	In developing	
referenceNumber	The reference to CBBG luggage.		
passengerReference	The reference to passenger who added CBBG luggage. Associated with field data → passengers[n] → referenceNumber.		
partnerProducts	An array of objects with information about partner services. Filled in when using the api/services service and will be described below		
journey	Flight information for current booking		
outboundFlights	An array of the fullReservationFlight objects with details of outbound flights		
outboundFareFamily	Service field, contains the fareFamily code		
returnFlights	An array of fullReservationFlight objects with detailed information about the "return" flights		
returnFareFamily	Service field containing fareFamily code		
separateFlights	An array of fullReservationFlight objects with detailed information about flights without reference to direction		
separateFareFamilies	Service field containing fareFamily code		
origin	Initial airport of departure		
destination	Initial airport of destination		
departureDate	Departure date		
returnDate	Return date		
ticketFares	An array of objects with information about tariffs after applying the discount		
baseAmount	Base rate		

Parameter	Description	Notes
passengerReferences	An array of objects with links to passengers	
referenceNumber	Reference number	
referenceQualifier	Link type, for example "PA"	
	Passenger type	
passengerType	Possible values: see <u>Attachment 2. Passenger</u> <u>types</u>	
referenceNumber	Reference number	
referenceQualifier	Link type, for example "TST"	
totalAmount	The total amount of the tariff	
currency	Reservation currency	
ticketFaresWithoutZapOff	An array of objects with information about tariffs without applying a discount	
baseAmount	Base rate	
passengerReferences	An array of objects with links to passengers	
referenceNumber	Reference number	
referenceQualifier	Link type, for example "PA"	
	Passenger type	
passengerType	Possible values: see <u>Attachment 2. Passenger</u> types	
referenceNumber	Reference number	
referenceQualifier	Link type, for example "TST"	
totalAmount	The total amount of the tariff	
currency	Reservation currency	
hasSpecialConditions	Sign of the additional conditions	
isRefundAvailable	Sign of the availability of the return	
annulUnavailabilityReason	Reason for unavailability of booking cancellation	
isAnnulAvailable	Indication of availability of booking cancellation	

Pa	Parameter		Description	Notes
errors		rs	Information about errors that occurred during the operation of the service	
	ibeCode Error code			
	d	escription	Error description	
messages array may be e		nessages	An array of objects containing errors. The array may be empty, it is recommended to analyze the error by the ibeCode field	
	code Error code			
		text	Error text	

full Reservation Flight

Parameter	Description	Notes
aircraftIataCode	IATA aircraft code	
referenceNumber	Reference to the current flight segment	
origin	Departure airport for the current segment	
destination	Destination airport for the current segment	
departureDate	Departure date and time for the current segment	
arrivalDate	Arrival date and time for the current segment	
arrivalDateUtc	Date and time of arrival for the current segment in UTC	
departureDateUtc	Departure date and time for the current segment in UTC	
flightNumber	Flight number	
classOfService	Information about the selected tariff	

Parameter	Description	Notes
	Marketing airline	
marketingCarrier	For example: U6, S7	
operatingCarrier	The airline actually performing the flight	
	For example: U6, OK	
techStops	An array with information about technical landings	
arrivalDateTime	Date and time of arrival at the pick-up point	
departureDateTime	Date and time of departure from the pick-up point	
airportCode	Airport code of the stop	
stopDuration	Duration of the stop	
flightDurationUntilNextStop	Duration of the flight to the next stop	
flightDurationUntilNextStop	Duration of the flight to the next stop	
arrivalTerminal	Terminal number at the point of arrival	
departureTerminal	Terminal number at the point of departure	
hash	Unique hash of the flight	
statuses	Array with information about segment statuses	
	The full name of the airline that operates the codeshare flight.	
codeshare	For example: Czech Airlines for operating Carrier = OK	
	For operatingCarrier = U6, this field is not filled in	
codeshareFlightNumber	The flight number of the	

Parameter	Description	Notes
	airline that operates the codeshare flight.	
isCancelledByAirline	Sign of cancellation of flights by the airline	
isCheckinWithoutPseudo	Sign of hiding a pseudo- booking at the checkin	

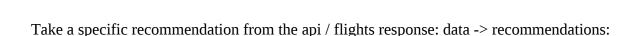
passengerData Response object

Parameter	Description	Notes
id	Passenger's serial number (numbered from 1)	
hasInfant	An sign that this passenger has a baby	
related Adult Reference Number	Reference to the adult passenger in the booking with whom the child or infant flies (it returns only for children and infants)	
relatedInfantReferenceNumber	Reference to the infant passenger in the booking with whom the adult flies (it returns only for adult)	
relatedChildrenReferenceNumbers	An array of links to child passengers which are travelling with an Adult (the array will be received only for an Adult with a children in the same booking)	
referenceNumber	Reference to this passenger in the booking	

Parameter	Description	Notes
firstName	Passenger's name	
middleName	Passenger's patronymic (may be absent)	
surname	Passenger's surname	
passengerType	Passenger type	
	Whether the passenger is an adult	
isAdult	true for ADT/SRC/YTH type passengers	
	false for CHD/INF type passengers	
birthDate	Date of birth	
	Passenger gender	
sex	Possible values: see dictionary "gender of passengers"	
	Nationality (country)	
nationality	Possible values: dictionary of countries	
documentNumber	Document number	
	Document type	
documentType	Possible values: dictionary of document types	
	Date until which the document is valid	
documentExpiryDate	Mandatory only for a foreign passport. For other documents, +10 years from the current date is automatically set	

	Parameter	Description	Notes
email		Email	
phone		Phone	
checke	edIn	Passenger check-in on flight coupon	
checke	edInSegment	Passenger check-in on flights	
checkl	nHasStarted	Starting check-in on flight coupon	
checkl	nHasStartedSegment	Starting check-in on flights	
hasPa	ssengersDataErrors	The sign of errors in passengers data.	
passer	ngerDataErrors	Array with detailed information of errors in passengers data.	
	key	The key.	
	value	The value.	
accom	npanimentBookingsInfo	An array containing information about bookings with accompanying passengers	For MIR, contains information about linked MNN and MNS bookings For MNN, MNS contains information about the booking from the MIR to which the current booking is linked
	number	PNR booking with accompanying passenger	
	surname	Last name of the accompanying passenger	

1. Creation of one-way booking, direct.



```
Recommendation:
                                          Using the outboundFlightGroupId field, determine
                                          the flight number that needs to be added and take
                                          information on it from the api/flights response,
  "outboundFlightGroupId": 0,
                                          data -> outboundFlights:
  "outboundFareFamilyId": 2,
  "outboundFlightGroupHash":
"07/16/2022 00:45:00-192-LED-DME",
                                            "flightGroupId": 0,
                                            "flights": [{
  "outboundFareFamilyCode": "PR",
                                                 "flightId": 0,
  "outboundPrice": 998.00,
  "outboundTaxes": 978.00,
                                                 "departureAirport": "LED",
                                                 "departureTerminal": "1",
  "outboundSeatsLeft": 9,
                                                 "arrivalAirport": "DME",
  "outboundFareAndAmountDetails": [{
       "bookingCode": "W",
                                                 "departureDateTime": "2022-07-
       "fareBasis": "WPROW",
                                          16T00:45:00",
                                                 "arrivalDateTime": "2022-07-
       "isBreakpoint": true,
       "paxType": 0,
                                          16T02:20:00",
       "paxCount": 1,
                                                 "aircraft": "Airbus A321",
       "taxAmount": 978.00,
                                                 "aircraftIataCode": "321",
       "totalAmount": 998.00,
                                                 "flightDuration": "1:35",
       "flightIndex": 0,
                                                 "flightNumber": "192",
                                                 "marketingCarrier": "U6",
       "isSale": false,
       "ruleKey": "U6.BRAND.Y.1.PR"
                                                 "operatingCarrier": "U6",
                                                 "hash": "07/16/2022 00:45:00-192-LED-
                                          DME"
  "returnFareAndAmountDetails": [],
                                               }
  "outboundBaggageAllowances": [{
                                            ],
       "quantity": 1,
                                            "flightGroupDuration": "1:35",
       "weight": 0,
                                            "hash": "07/16/2022 00:45:00-192-LED-DME"
       "passengerType": 0
    }
  "returnBaggageAllowances": [],
  "totalPrice": 998.00,
                                          Substitute the highlighted values, for the flights
  "totalDiscount": 0.0,
                                          array and get:
  "totalBaseFare": 20.00
                                          "flights": {
```

```
"outboundFlights": [{
    "origin": "LED",
    "destination": "DME",
    "departureDate": "2022-07-
16T00:45:00.000Z",
    "flightNumber": "192",
    "classOfService": "W"
    }
  ],
    "passengersCount": 1
}
```

The classOfService value matches the bookingCode from the recommendation.

The passengersCount value depends on the number of passengers added to the booking.

Using the outboundFareFamilyId field, determine the number of the fare that will need to be added and take information on it from the api/flights response, data -> fareFamilies:

```
{
  "fareFamilyId": 2,
  "code": "PR",
  "category": "ECOLIGHT",
  "isSubsidized": false,
  "options": [...],
  "order": 150,
  "commercialFamily": "U6ECONOMY",
  "canRefund": true,
  "hasUpsale": true,
  "isLowCost": false
}
```

Substitute the highlighted values, for the fares array and get:

```
"fares": {
    "outboundFareFamily": {
        "category": "ECOLIGHT",
```

```
"code": "PR",
    "isSubsidized": false
},
    "returnFareFamily": null,
    "fares": [{
        "fareBasis": "WPROW",
        "isBreakpoint": true,
        "passengerType": 0,
        "flightDirection": 0,
        "flightIndex": 0
        }
    ],
    "sessionMarker": null
}
```

Also need to add valid passenger's data in request.

2. Creation of a booking in both directions, one transfer on the "return" segment.

Direction outbound



Direction return



```
Recommendation:
                                                Using the outboundFlightGroupId and
                                                returnFlightGroupId fields, we determine
                                                the flight numbers and take information on
  "outboundFlightGroupId": 0,
                                                them from the api/flights response, data ->
  "outboundFareFamilyId": 1,
                                                outboundFlights and data -> returnFlights,
                                                respectively.
  "returnFlightGroupId": 3,
  "returnFareFamilyId": 1,
  "outboundFlightGroupHash": "2022-07-13
06:30:00-123-LED-AER",
  "returnFlightGroupHash": "2022-07-20
                                                Flight outbound:
08:20:00-524-AER-SVX,2022-07-20 15:30:00-
256-SVX-LED",
  "outboundFareFamilyCode": "PR",
                                                   "flightGroupId": 0,
```

"returnFareFamilyCode": "PR",	"flights": [{
"outboundPrice": 705.00,	"flightId": 0,
"outboundTaxes": 700.00,	"departureAirport": "LED",
"returnPrice": 1331.00,	"departureTerminal": "1",
"returnTaxes": 66.00,	"arrivalAirport": "AER",
"outboundSeatsLeft": 9,	"departureDateTime": "2022-
"returnSeatsLeft": 9,	07-13T06:30:00",
"outboundFareAndAmountDetails": [{	"arrivalDateTime": "2022-07-
"bookingCode": "O",	13T11:30:00",
"fareBasis": "OPROW",	l '
•	"aircraft": "Airbus A321",
"isBreakpoint": true,	"aircraftIataCode": "321",
"paxType": 0,	"flightDuration": "5:00",
"paxCount": 1,	"flightNumber": "123",
"taxAmount": 700.00,	"marketingCarrier": "U6",
"totalAmount": 705.00,	"operatingCarrier": "U6",
"flightIndex": 0,	"hash": "2022-07-13 06:30:00-
"isSale": false,	123-LED-AER"
"ruleKey": "U6.BRAND.Y.1.PR"	}
}],
],	"flightGroupDuration": "5:00",
"returnFareAndAmountDetails": [{	"hash": "2022-07-13 06:30:00-123-
"bookingCode": "W",	LED-AER"
"fareBasis": "WPROW",	}
"isBreakpoint": true,	,
"paxType": 0,	
"paxCount": 1,	
"taxAmount": 0.0,	 Flights return:
"totalAmount": 1265.00,	Trights return.
"flightIndex": 0,	ſ
"isSale": false,	{ "flightCroupId", 2
"ruleKey": "U6.BRAND.Y.1.PR"	"flightGroupId": 3,
	"flights": [{
}, {	"flightId": 0,
"bookingCode": "N",	"departureAirport": "AER",
"fareBasis": "N",	"arrivalAirport": "SVX",
"isBreakpoint": true,	"departureDateTime": "2022-
"paxType": 0,	07-20T08:20:00",
"paxCount": 1,	"arrivalDateTime": "2022-07-
"taxAmount": 66.00,	20T13:50:00",
"totalAmount": 66.00,	"aircraft": "Airbus A320",
"flightIndex": 1,	"aircraftIataCode": "320",
"isSale": false	"flightDuration": "3:30",
}	"stopDuration": "1:40",
],	"flightNumber": "524",
"outboundBaggageAllowances": [{	"marketingCarrier": "U6",
"quantity": 1,	"operatingCarrier": "U6",
"weight": 0,	"hash": "2022-07-20 08:20:00-

```
"passengerType": 0
                                                524-AER-SVX"
                                                     }, {
                                                       "flightId": 1,
],
                                                       "departureAirport": "SVX",
"returnBaggageAllowances": [{
                                                       "arrivalAirport": "LED",
    "quantity": 1,
                                                       "arrivalTerminal": "1",
    "weight": 23,
    "passengerType": 0
                                                       "departureDateTime": "2022-
                                                07-20T15:30:00",
                                                       "arrivalDateTime": "2022-07-
"totalPrice": 2036.00,
                                                20T16:20:00",
                                                       "aircraft": "Airbus A320",
"totalDiscount": 0.0,
"totalBaseFare": 1270.00
                                                       "aircraftIataCode": "320",
                                                       "flightDuration": "2:50",
                                                       "flightNumber": "256",
                                                       "marketingCarrier": "U6",
                                                       "operatingCarrier": "U6",
                                                       "hash": "2022-07-20 15:30:00-
                                                256-SVX-LED"
                                                  ],
                                                  "flightGroupDuration": "8:00",
                                                  "hash": "2022-07-20 08:20:00-524-
                                                AER-SVX,2022-07-20 15:30:00-256-
                                                SVX-LED"
                                                Substitute the highlighted values, for
                                                the flights array and get:
                                                {
                                                "flights": {
                                                  "outboundFlights": [{
                                                       "origin": "LED",
                                                       "destination": "AER",
                                                       "departureDate": "2022-07-
                                                13T06:30:00.000Z",
                                                       "flightNumber": "123",
                                                       "classOfService": "O"
                                                  ],
                                                  "returnFlights": [{
                                                       "origin": "AER",
                                                       "destination": "SVX",
                                                       "departureDate": "2022-07-
                                                20T08:20:00.000Z",
```

```
"flightNumber": "524",
       "classOfService": "W"
     }, {
       "origin": "SVX",
       "destination": "LED",
       "departureDate": "2022-07-
20T15:30:00.000Z",
       "flightNumber": "256",
       "classOfService": "N"
     }
  ],
  "adults": 1,
  "children": 0,
  "infants": 0,
  "infantsWithSeats": 0,
  "pensioners": 0,
  "youths": 0,
  "unaccompaniedMinors": 0,
  "strAdults": 0,
  "jnnChildren": 0,
  "origin": "LED",
  "jcbYouths": 0,
  "gcfAdults": 0,
  "destination": "AER",
  "passengersCount": 1
```

The classOfService value matches the bookingCode from the recommendation.

The passengersCount value depends on the number of passengers added to the booking.

Using the outboundFareFamilyId and returnFareFamilyId fields, we determine the fare numbers that need to be added and take information on them from the api/flights response, data -> fareFamilies:

Substitute the highlighted values, for the flights fares and get:

```
"fares": {
  "outboundFareFamily": {
    "category": "ECOLIGHT",
    "code": "PR",
    "isSubsidized": false
  },
  "returnFareFamily": {
     "category": "ECOLIGHT",
    "code": "PR",
    "isSubsidized": false
  },
  "fares": [{
       "fareBasis": "OPROW",
       "isBreakpoint": true,
       "passengerType": 0,
       "flightDirection": 0,
       "flightIndex": 0
    }, {
       "fareBasis": "WPROW",
       "isBreakpoint": true,
       "passengerType": 0,
       "flightDirection": 1,
       "flightIndex": 0
    }, {
       "fareBasis": "N",
       "isBreakpoint": true,
       "passengerType": 0,
       "flightDirection": 1,
       "flightIndex": 1
     }
  ],
  "sessionMarker": null
The fareBasis values are taken from the
recommendation.
```

Tariff information should be sent as follows:

```
"fares": {
    "outboundFareFamily": {
        "category": "SUBSIDIZED",
        "code": "SUBSIDIZED",
        "isSubsidized": true
```

```
},
      "returnFareFamily": {
    "category": "ECOLIGHT",
    "code": "ECOLIGHTRU",
           "isSubsidized": true
},
      "fares": [
           {
                "fareBasis": "RBDRTCD",
"isBreakpoint": true,
                "passengerType": 1,
                "flightDirection": 0,
                "flightIndex": 0
},
           {
                "fareBasis": "RBDRTZZ",
"isBreakpoint": true,
                "passengerType": 2,
                "flightDirection": 0,
                "flightIndex": 0
},
           {
                "fareBasis": "RBDRTCH",
                "isBreakpoint": true,
                "passengerType": 5,
                "flightDirection": 0,
                "flightIndex": 0
},
           {
                "fareBasis": "EPROW",
"isBreakpoint": true,
                "passengerType": 1,
                "flightDirection": 1,
                "flightIndex": 0
},
           {
                "fareBasis": "EPRRT",
"isBreakpoint": true,
                 "passengerType": 1,
                "flightDirection": 1,
                "flightIndex": 1
},
           {
                "fareBasis": "EPROW",
                "isBreakpoint": true,
"passengerType": 2,
                "flightDirection": 1,
                "flightIndex": 0
},
           {
```

```
"fareBasis": "EPRRT",
"isBreakpoint": true,
                   "passengerType": 2,
                   "flightDirection": 1,
                   "flightIndex": 1
},
             {
                   "fareBasis": "EPROW",
"isBreakpoint": true,
                   "passengerType": 5,
                   "flightDirection": 1,
                   "flightIndex": 0
},
             {
                   "fareBasis": "EPRRT",
"isBreakpoint": true,
"passengerType": 5,
"flightDirection": 1,
                   "flightIndex": 1
}
     ],
"sessionMarker": null
}
```

Method GET reservation

Description: allows to get information about a reservation that has already been created.

Request format /api/apiVersion/reservation

Examples of requests

/api/apiVersion/reservation?pnrNumber=AAEW5D&lastName=IVANOV

/api/apiVersion/reservationl?ticketNumber=2622471403682&lastName=PETROV

Request parameters

Parameter	Description	Notes
pnrNumber	PNR number for which information is needed	It can be transmitted both in Latin and in Cyrillic.
ticketNumber	Issued ticket number. The ticket number must be 13 digits, for example: 2622438214047 or	

Parameter	Description	Notes
lastName	Last name of one of the passengers added to the booking. The parameter is passed in Latin. IBE will return an error if the surname is not in the PNR.	The surname is transmitted in Latin or Cyrillic, depending on how it was indicated when creating the booking.

Note: when requesting information about an order by ticket number, the ticketNumber and lastName fields must refer to the same passenger.

Response format

```
"data": {
  "tickets": [{
       "flightReferences": [
         "string"
       ],
"number": string,
       "passengerReference": string,
       "isInfantTicket": boolean,
       "issueDate": datetime
  ],
"outboundFareFamily": fareFamilyObject,
"returnFareFamily": fareFamilyObject,
    "separateFareFamily": fareFamilyObject,
  "tsmData": [{
       "passengerReference": string,
       "price": number,
"referenceType": string,
       "referenceNumber": string
    }
  ],
       "outboundBonus": {
    "bonus": "string",
"replacedBonus": "string"
      "returnBonus": {
    "bonus": "string",
"replacedBonus": "string"
  "flightReference": string,
       "amount": integer,
       "discountAmount": decimal,
       "id": string,
       "type": string,
       "passengerReference": string,
       "serviceCode": string,
       "promoNumber": string,
```

```
"serviceReference": string,
    "usageType": integer,
    "promotionType": integer
  }
"currency": string,
    "flightReferences": [
      "string"
    ],
"passengerReference": string,
    "isInfantFare": boolean,
    "totalPrice": number,
    "basePrice": number,
           "separatePrice": number,
           "outboundDiscount": integer,
           "returnDiscount": integer,
           "separateDiscount": integer,
    "priceHidden": boolean,
           "taxDetailsInformation": [{
                   "currencyCode": string,
                           "type": string
                           }
                           ]
                           }
                   }
],
"foodOnBoards": [{
    "departureAirport": string,
    "arrivalAirport": string,
    "flightNumber": string
    "commercialFamily": string,
    "ru": string,
    "en": string,
"zh": string
"reservationRetrieveStatus": integer,
"ticketCouponStatuses": [{
        "ticketNumber": string,
        "couponStatuses": {
            couponReference: boolean
        "couponStatusesBySegment": {
            flightReference: boolean
"engineType": byte,
"isGroupReservation": bool,
"spentBonuses": {
  "amount": integer,
  "passengerReference": string
},
"spentBonusesByPassengers": [{
```

```
"amount": integer,
    "passengerReference": string
  }
"amount": integer,
    "number": string
  }
],
"originOfficeId": string,
"SficeTyne": strin
"originOfficeType": string,
"journey": {
  "outboundFlights": [fullReservationFlight],
  "outboundFareFamily": {
    "code": string
 },
"returnFareFamily": {
    "" string
    "code": string
 "returnFlights": [fullReservationFlight],
  "returnDuration": string,
     "separateFareFamilies": {
           "code": string
   },
  "separateFlights": [fullReservationFlight],
  "separateDuration": string,
  "origin": string,
  "destination": string,
  "departureDate": datetime,
  "returnDate": datetime,
        "outboundBaggageAllowances": [{
                "quantity": integer,
                "weight": integer,
                "passengerType": integer,
                                  "fareCode": "string"
            }
        "quantity": integer,
                "weight": integer,
                "passengerType": integer,
                                  "fareCode": "string"
            }
        ],
                   "separateBaggageAllowances": [{
                          "quantity": integer,
                          "weight": integer,
                   "passengerType": integer,
                                 "fareCode": "string"
       }
    ],
"number": string,
"reservationDate": datetime,
"passengers": [passengerObject],
"services": [{
```

```
"code": string,
    "status": string,
    "text": string,
    "petType": string,
            "subType": string,
    "category": string,
    "passengerReference": string,
    "flightReference": string,
    "referenceNumber": string,
    "packReferenceNumber": string,
    "price": number,
    "issueDate": datetime,
     "issuedByThirdPartyOffice": boolean,
    "isIssuedByRefundableOffice": boolean
],
"seats": [{
"aumher"
    "number": integer,
    "title": string,
    "code": string,
    "status": string,
    "passengerReference": string,
    "flightReference": string,
    "referenceNumber": string,
    "packReferenceNumber": string,
    "issueDate": datetime,
    "issuedByThirdPartyOffice": boolean,
    "isIssuedByRefundableOffice": boolean
   }
],
"insurance": {
  "number": string,
  "code": string,
  "status": string,
  "referenceNumber": string,
  "packReferenceNumber": string,
  "issueDate": datetime,
  "issuedByThirdPartyOffice": boolean,
  "isIssuedByRefundableOffice": boolean
"partnerProducts": [{
    "partnerId": integer,
    "partnerType": integer,
    "code": string,
    "amount": number,
    "currency": string,
    "passengerReference": string,
    "isInfantProduct": boolean,
    "isIssuedByRefundableOffice": boolean
  }
],
"hasSpecialConditions": boolean
"errors": [{
    "ibeCode": integer,
    "description": string,
    "messages": [{
        "code": string,
```

fareFamily object

```
"fareFamilyId": integer,
  "code": string,
  "options": [{
    "code": string,
       "category": string,
       "order": integer,
       "showInPopup": boolean,
"showInSummary": boolean,
"showInUpsell": boolean,
       "showInFareIncluded": boolean,
       "showForAdult": boolean,
       "showForInfant": boolean,
       "showInBookingCart": boolean
    }
  ],
  "order": integer,
  "commercialFamily": string,
  "canRefund": boolean,
  "hasUpsale": boolean
}
```

fullReservationFlight object

```
"aircraft": string,
   "aircraftIataCode": string,
   "referenceNumber": string,
   "origin": string,
   "destination": string,
   "departureDate": datetime,
   "arrivalDate": datetime,
   "arrivalDateUtc": datetime,
   "departureDateUtc": datetime,
   "flightNumber": string,
   "classOfService": string,
   "marketingCarrier": string,
   "operatingCarrier": string,
   "flightDuration": string,
```

```
"stopDuration": string,
    "techStops": [{
            "arrivalDateTime": datetime,
            "departureDateTime": datetime,
            "airportCode": string,
            "stopDuration": string,
            "flightDurationUntilNextStop": string
        }
    ],
"flightDurationUntilNextStop": string,
    "arrivalTerminal": string,
    "departureTerminal": string,
    "hash": string,
    "statuses": [
            string
    "codeshare": string,
    "codeshareFlightNumber": string
    "isCancelledByAirline": boolean,
    "isCheckinWithoutPseudo": boolean
}
passenger object
  "id": integer,
  "hasInfant": boolean,
  "referenceNumber": string,
  "relatedAdultReferenceNumber": string,
  "relatedInfantReferenceNumber": string,
  "relatedChildrenReferenceNumbers": [
     "strina"
  ],
"firstName": string,
  "middleName": string,
  "surname": string,
  "passengerType": integer,
  "isAdult": boolean,
  "birthDate": datetime,
  "sex": integer,
  "nationality": string,
  "documentNumber": string,
  "documentExpiryDate": datetime,
  "email": string,
  "phone": string,
  "documentType": integer,
  "accompanimentBookingsInfo":[
               {
                        "number": string,
                        "surname": string
               }
        ]
}
```

Response options

P	arameter	Description	Notes
su	uccess	Sign of the success of the request. If the errors array is empty, then the field value will be true	
da	ata	The data returned by the request	
	tickets	Information about issued tickets	
	flightReferences	Flight segment	
	number	Ticket number. Example : 262 2439494143	
	passengerReference	A reference to the passenger to whom this ticket belongs.	
	isInfantTicket	An sign that this passenger has a baby	
	issueDate	Date and time of issuing the tickets.	
	outboundFareFamily	An array of farFamily objects with information about the selected fares for the "outbound" flight	
	returnFareFamily	An array of farFamily objects with information about the selected fares for the "return" flight	
	separateFareFamilies	Service field with information about the selected fare for a flight without reference to a segment	
	tsmData	An array of objects with information about additional	

Parameter	Description	Notes
	services added to PNR	
passengerReference	Reference to the passenger to whom this service relates	
price	Service cost	
referenceType	The type of reference to the entry in the PNR, usually "SSR"	
referenceNumber	SSR number. Each service has a unique SSR number in the PNR	
outboundBonus	Bonuses for flying there	
bonus	Current number of bonuses awarded for the flight	
replacedBonus	Outdated number of bonuses awarded per flight	
returnBonus	Bonuses for return flights	
bonus	Current number of bonuses awarded for the flight	
replacedBonus	Outdated number of bonuses awarded per flight	
appliedDiscounts	Discounts applied in this PNR.	
flightReference	Reference to the segment for which the discount was applied	
amount	Discount rate as a percentage	
discountAmount	The absolute value of the discount in rubles	
id	ID of the campaign in CRM for which the discount was applied	
type	Discount type. Possible values:	
	DISCOUNT - regular	

Para	ameter	Description	Notes
		discount,	
		PROMO - discount on the flight promo code.	
		PROMOCODE - discount for additional services with a promotional code.	
	passengerReference	Reference to the passenger for whom the discount was applied.	
	serviceCode	The code of the added service for which the discount was applied.	
	promoNumber	The number of the applied promotional code from CRM.	
	serviceReference	Service identifier within the current booking.	
	usageType	Discount type: on tariff or on order	
	promotionType	Type of promo code: for a flight or for a service	
b	aseFarePrices	An array with information about base prices for tariffs.	
	currency	The currency in which the value is presented.	
		Example value: RUB	
	flightReferences	Flight segment	
	passengerReference	Reference to the passenger for whom the cost is determined.	
	isInfantFare	The sign if the passenger is an infant	
	totalPrice	Total price	
	basePrice	Base price (excluding tariffs and fees)	

Par	rameter	Description	Notes
	separatePrice	Price per segment without direction	
	outboundDiscount	An amount of discount for "There" route	
	returnDiscount	An amount of discount for "From" route	
	separateDiscount	The amount of discount applied to segments without direction	
	priceHidden	The sign if the rate amount should be hidden for the client. Will be "true" for IT-tariffs.	
	taxDetailsInformation	Services information about tariffs and fees.	
	taxCategory	Tax category	
	taxDetails	Array of objects with information about tariffs and fees details.	
	rate	Tariff/fee sum	
	currencyCode	Currency code	
	type	Tariff/fee type	
f	foodOnBoards	An array with information about meals available on flights	
	departureAirport	Departure airport	
	arrivalAirport	Arrival airport	
	flightNumber	Flight number	
	commercialFamily	Fare family type (different meals may be available on the same flight for economy and business).	
	ru	Translation of the option into Russian	

Pa	arameter	Description	Notes
	en	Translation of the option into Englishкий язык	
	zh	Translation of the option into Chinese	
	reservation Retrieve Status	Reservation receipt status. Can take values: 0 - Ok (success) 1 - TicketRequired (group booking, the passenger did not indicate the ticket number) 2 - InvalidTicketNumber (group booking, the passenger indicated an incorrect ticket number)	
	ticketCouponStatuses	Array of information about statuses of flight coupons.	
	ticketNumber	Ticket number.	
	couponStatuses	Statuses of flight coupons.	
	couponStatusesBySegment	Statuses of flight coupons for flight segments.	
	engineType	The system in which the reservation was created. Can take values: 0 - Unknown, 2 - Tais, 4 - Sirena	
	isGroupReservation	Group booking flag	
	spentBonuses	Object with information about the total count of bonuses spent	

Para	nmeter	Description	Notes
	amount	Count of bonuses	
	passengerReference	Reference to the first passenger	
sı	oentBonusesByPassengers	An array with information about the number of bonuses spent by a specific passenger	
	amount	Count of bonuses	
	passengerReference	Reference to the passenger	
aj	ppliedCertificates	An array with information about applied certificates	
	amount	Certificate denomination	
	number	Certificate number	
OI	riginOfficeId	The office under which the reservation was created.	
		For example, SVXU608AZ	
01	riginOfficeType	The type of office under which the reservation was created.	
		Possible values: dictionary of offices	
jo	ourney	Flight information for this booking	
	outboundFlights	An array of fullReservationFlight objects with details of "outbound" flights	
	outboundFareFamily	Service field with information about the selected fare for the "outbound" flight. For example, ECOFLEXRU	
	returnFareFamily	Service field with information about the selected fare for the "return" flight	
	outboundDuration	Total duration of the	

Paran	neter	Description	Notes
		"outbound" flight	
1	returnFlights	An array of fullReservationFlight objects with detailed information about the "return" flights	
	returnDuration	Total duration of the "return" flight	
	separateFareFamilies	Service field with information about the selected fare for a flight without reference to a segment	
	separateFlights	An array of fullReservationFlight objects with detailed information about flights without reference to a segment	
	separateDuration	Total flight duration without reference to segment	
	origin	Initial airport of departure	
	destination	Initial airport of arrival	
	departureDate	Departure date	
]	returnDate	Return date	
	outboundBaggageAllowances	An array of objects containing detailed information about baggage allowances for the "outbound" route	
	returnBaggageAllowances	An array of objects containing detailed information about baggage allowances for the "return" route	
	separateBaggageAllowances	An array of objects containing detailed information about baggage allowances for segments not tied to a destination	
	containsInternationalFlights	A sign of one airports of	

Para	nmeter	Description	Notes
		booking isn't in Russia	
nı	ımber	Number of PNR	
re	servationDate	Date and time of booking creation	
pa	assengers	An array of passengerData objects with passenger information	
se	ervices	Array of objects with information about additional services added to the booking	
		Additional service code	
	code	Possible values: dictionary of additional codes services	
		Service adding status.	
	status	Example: HK - service added successfully	
		Text in ssr format for sending pet information.	
	text	Example: DOG 1PC 8KG 45X35X25	
		Pet type	
	petType	Possible values: DOG, CAT, PARROT, CANARY	
		Sport Equipment type	
	subType	Possible values: BIKE, SKIS, SURFING, FISHING, GOLF, HOCKEY, SCOOTER	
		Additional service category	
	category	Possible values: dictionary of additional service codes	
	passengerReference	Reference to the passenger for which the additional service	

Para	nmeter	Description	Notes
		has been added	
	packReferenceNumber	Reference to the service package in which the service was added	
	flightReference	Reference to the segment on which the service operates	
	referenceNumber	SSR number. Each service has a unique SSR number in the PNR.	
	price	Additional service cost	
	issueDate	Date and time of issuing the service.	
	issuedByThirdPartyOffice	A sign that the service was issued by a third-party office in relation to the office under which the booking was issued.	
	isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.	
se	eats	An array of objects with information about the places added to the booking	
	number	The row on which the seat is selected	
	title	Place	
	code	Seat selection service code. Value: RQST	
	status	Service adding status. Example: HK - service added successfully	
	passengerReference	Reference to the passenger for whom the additional service has been added	

Para	ımeter	Description	Notes
	flightReference	Reference to the segment on which the service operates	
	referenceNumber	SSR number. Each service has a unique SSR number in the PNR.	
	packReferenceNumber	Reference to the service package in which the location was added	
	issueDate	Date and time of issuing the service.	
	issuedByThirdPartyOffice	A sign that the service was issued by a third-party office in relation to the office under which the booking was issued.	
	isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.	
in	surance	Object with information about the insurance added to the booking	In developing
	number	Insurance document number	
	code	Insurance code Possible values: dictionary of additional services (category insurance)	
	status	Service adding status. Example: HK - service added successfully	
	referenceNumber	SSR number. Each service has a unique SSR number in the PNR.	
	packReferenceNumber	Reference to the service package in which the service was added	

Para	nmeter	Description	Notes
	issueDate	Date and time of issuing the service.	
	issuedByThirdPartyOffice	A sign that the service was issued by a third-party office in relation to the office under which the booking was issued.	
	isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.	
p	artnerProducts	Array of objects with information about the partner services added to the booking	
	partnerId	Unique ID of the partner in the IBE engine.	
	partnerType	Unique code of partner's type	
	code	Partner service code. Each partner has unique service codes. See the codes for partner services in Attachment 5.	
	amount	Partner's service cost.	
	currency	Tariffication currency	
	passengerReference	Reference to the passenger for whom the service has been added	
	isInfantProduct	The sign of service for infant	
	isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.	
h	asSpecialConditions	The sign if one of the following services has been added to the booking: PETC, CBBG, WEAP, UMNR,	

P	ara	meter	Description	Notes
			MAAS, MEDA, EXST, STCR, WCHR, WCHC, WCHS, WCBD, WCBW, WCMP, WCOB, DEAF, BLND, DEPA, DEPU	
eı	ro	rs	Information about errors that occurred during the operation of the service	
	ib	eCode	Error code	
	de	escription	Error description	
	m	essages	An array of objects containing errors. The array may be empty, it is recommended to analyze the error by the ibeCode field	
		code	Error code	
		text	Error text	

fareFamily

Parameter	Description	
fareFamilyId	Serial number of the tariff family, used in recommendations.	
	Family code, for example:	
code	ECOLIGHT/ECOFLEX/ECOPREM and etc.	
	Possible values: see the dictionary of the main tariff categories	
order	Fare family display order	
	Fare family type, for example:	
commercialFamily U6ECONOMY or U6BUSINESS		
canRefund	The sign if the tariff is refundable	
hasUpsale	The sign shows whether the given tariff can be "increased" to the next one in the price category.	

Parameter	Description	
	Array of objects with information about tariff options.	
options	Used for the website of the booking engine.	
	ariff option code	
	For example:	
	upTo5bonuses	
code	refundExchangeProhibited	
	mealsOnBoard	
	and etc.	
	Used for the website of the booking engine.	
	Category code for option	
Cotogowy	For example:	
category	bonus, ffServices and etc.	
	Used for the website of the booking engine.	
order	Order for option output	
showInPopup	Whether to show an option in the "your options" pop-up window.	
showInSummary	Whether to show the option on the Summary page.	
showInUpsell	Whether to show the option in the information about the tariff increase.	
showInFareIncluded	Whether to show an option when selecting a filter.	
showForAdult	Whether to show an option for an adult passenger.	
showForInfant	Whether to show an option for a baby.	
showInBookingCart	Whether to show an option in the shopping cart.	

full Reservation Flight

Parameter	Description	Notes
-----------	-------------	-------

Parameter	Description	Notes
aircraftIataCode	IATA aircraft code	
referenceNumber	Reference to the current flight segment	
origin	Departure airport for the current segment	
destination	Destination airport for the current segment	
departureDate	Departure date and time for the current segment	
arrivalDate	Arrival date and time for the current segment	
arrivalDateUtc	Date and time of arrival for the current segment in UTC	
departureDateUtc	Departure date and time for the current segment in UTC	
flightNumber	Flight number	
classOfService	Information about the selected tariff	
	Marketing airline	
marketingCarrier	For example: U6, S7	
operatingCarrier	The airline actually performing the flight	
	For example: U6, OK	
techStops	An array with information about technical landings	
arrivalDateTime	Date and time of arrival at the pick-up point	
departureDateTime	Date and time of departure from the pick-up point	
airportCode	Airport code of the stop	
stopDuration	Duration of the stop	
flightDurationUntilNextStop	Duration of the flight to the	

Parameter	Description	Notes
	next stop	
flightDurationUntilNextStop	Duration of the flight to the next stop	
arrivalTerminal	Terminal number at the point of arrival	
departureTerminal	Terminal number at the point of departure	
hash	Unique hash of the flight	
statuses	Array with information about segment statuses The full name of the airline that operates the codeshare flight.	
codeshare	For example: Czech Airlines for operating Carrier = OK	
	For operatingCarrier = U6, this field is not filled in	
codeshareFlightNumber	The flight number of the airline that operates the codeshare flight.	
isCancelledByAirline	Sign of cancellation of flights by the airline	
isCheckinWithoutPseudo	Sign of hiding a pseudo- booking at the checkin	

out bound Baggage Allowances, return Baggage Allowances, separate Baggage Allowances

Parameter	Description	
quantity	count of baggage	
weight	weight of baggage	
passengerType	passenger type	
fareCode	fare family for which baggage is returned	

passengerData

Parameter	Description	Note
id	Passenger's serial number (numbered from 1)	
hasInfant	An indication that this passenger has a baby	
referenceNumber	Reference to this passenger in the booking	
relatedAdultReferenceNumber	Reference to the adult passenger in the booking with whom the child or infant flies (it returns only for children and infants)	
relatedInfantReferenceNumber	Reference to the infant passenger in the booking with whom the adult flies (it returns only for adult)	
relatedChildrenReferenceNumbers	An array of links to child passengers which are travelling with an Adult (the array will be received only for an Adult with a children in the same booking)	
firstName	Passenger's name	
middleName	Passenger's patronymic (may be absent)	
surname	Passenger's surname	
passengerType	Passenger type.	
	Possible values: dictionary of passenger types	
isAdult	The sign if the passenger is an adult	
	true for passengers type ADT/SRC/YTH	
	false for passengers type	

Parameter	Description	Note
	CHD/INF	
birthDate	Date of birth	
sex	Passenger gender	
	Possible values: dictionary gender of passengers	
nationality	Nationality (country)	
-	Possible values: dictionary of countries	
	Masked number of document of passenger.	
documentNumber	Format:	
	passport: 53X67,birth certificate: VIX43.	
documentType	Document type	
	Possible values: dictionary of document types	
	Date until which the document is valid	
documentExpiryDate	Mandatory only for a foreign passport. For other documents, +10 years from the current date is automatically set	
loyaltyCard	Loyalty card number "Wings"	
email	Email	
phone	Phone	
accompanimentBookingsInfo	An array containing information about bookings with accompanying passengers	For MIR, contains information about linked MNN and MNS bookings

Parai	neter	Description	Note
			For MNN, MNS contains information about the booking from the MIR to which the current booking is linked
	number	PNR booking with accompanying passenger	
	surname	Last name of the accompanying passenger	

Method DELETE reservation

Description: the method allows to delete created unpaid reservation, after successful deletion of booking, all flight segments in the response of GET api/reservation in journey array have status XX.

Request format /api/apiVersion/reservation

Request parameters

None. Cancellation reservations are identified by the session ID passed in the X-Session header.

Response format

Response parameters

Parameter

Parameter		ameter	Description	
			Sign of the success of the request.	
su	success		If the errors array is empty, then the field value will be true	
er	errors		Information about errors that occurred during the operation of the service.	
П	ibe	eCode	Error code, see Attachment 1. IBE error codes	
	de	scription	Error description, see Attachment 1. IBE error codes	
	messages		An array of objects containing errors from Sirena answer. The array may be empty, it is recommended to analyze the error by the ibeCode field	
		code	Sirena error code	
		text	Sirena error text	

Examples of unsuccessful requests and responses

An attempt to delete if the booking information was not loaded into the context.

Booking management service v2.3

Changes in v 2.3:

In GET reservation service's response insurance object was replaced with insurances array.

In the GET reservation service response, the isCheckinWithoutPseudo parameter is added to the outboundFlights[], returnFlights[], separateFlights[] arrays.

The isIssuedByRefundableOffice parameter is added to the GET reservation service response and can be displayed in the tickets[]; ticketsWithoutFlightRefs:[]; informationalServices:[]; seats[]; insurances[]; services:[]; partnerProducts[] arrays.

Response format

```
"data": {
      "summToPayForExchange": double,
   "iournev": {
   "outboundFlights": [fullReservationFlight],
    "outboundFareFamily": {
      "code": string
   },
"outboundDuration": string,
    "returnFlights": [fullReservationFlight],
    "returnDuration": string,
    "origin": string,
    "destination": string,
    "departureDate": datetime,
    "returnDate": datetime
 },
       "baseFarePricesBySegment": [
      "flightReference": string,
      "passengerReference": string,
      "totalPrice": string,
      "basePrice": string,
      "discountAmount": string,
      "passengerType": integer
   }
 ],
"fareBasisCodesFlightRefs" :{[fareBasisCodesFlightRefs object]},
 "number": string,
 "reservationDate": datetime,
 "bookingTimeLimit": datetime,
 "passengers": [{
      "id": integer,
      "hasInfant": boolean,
      "referenceNumber": string,
             "relatedAdultReferenceNumber": string,
             "relatedInfantReferenceNumber": string,
             "relatedChildrenReferenceNumbers": [
        "string"
      "firstName": string,
      "middleName": string,
      "surname": string,
      "passengerType": integer,
      "isAdult": boolean,
      "birthDate": datetime,
      "sex": integer,
      "nationality": string,
      "documentNumber": string,
      "documentExpiryDate": datetime,
      "email": string,
"phone": string,
      "documentType": integer,
             "boardingPassRestrictedBySegment": {
          flightReference: boolean
```

```
}
    ],
"services": array,
" array,
    "seats": array,
    "insurances": [{
        "number": string,
        "passengerType": integer,
        "code": string,
        "status": string,
        "passengerReference": string,
        "price": double,
        "isIssuedByRefundableOffice": boolean
      }
    ],
"isAgentReservation": boolean,
    "isPayForbiddenForAgency": boolean,
    "partnerProducts": array,
        "flightsWithOpenDateCount": integer,
    "relatedPnrNumbers": [
           string
        ],
  },
"errors": [{
      "ibeCode": integer,
      "description": string,
      "messages": [{
           "code": string,
           "text": string
        }
      ],
"success": boolean
    }
  ]
}
fullReservationFlight object
{
    "aircraft": string,
    "aircraftIataCode": string,
"referenceNumber": string,
    "origin": string,
    "destination": string,
    "departureDate": datetime,
    "arrivalDate": datetime,
    "arrivalDateUtc": datetime,
    "departureDateUtc": datetime,
    "flightNumber": string,
    "classOfService": string,
    "marketingCarrier": string,
    "operatingCarrier": string,
    "flightDuration": string,
    "stopDuration": string,
    "techStops": [{
             "arrivalDateTime": datetime,
```

```
"departureDateTime": datetime,
             "airportCode": string,
             "stopDuration": string,
"flightDurationUntilNextStop": string
    ],
"flightDurationUntilNextStop": string,
    "arrivalTerminal": string,
    "departureTerminal": string,
    "hash": string,
    "statuses": [
             string
           ],
    "codeshare": string,
    "codeshareFlightNumber": string
    "isCancelledByAirline": boolean,
    "isCheckinWithoutPseudo": boolean
}
fareBasisCodesFlightRefs object
{
  "fareBasis": string,
  "flightReferenceNumber": string,
  "passengerReferenceNumber": string,
  "expirationUtc": datetime
}
```

Response parameters (short format)

Parameter	Description	Notes
	Sign of query execution success.	
success	If errors array is empty, field value will be set to true	
data	Returned data	
isGroupReservation	IT/BT reservation sign	In developing
isCompanyGroupReservation	Group booking sign	In developing
number	PNR number	
reservationDate	Booking creation date and time	
bookingTimeLimit	Date and time until which the unpaid booking will exist (rules are set in the settings in IBE)	
passengers	Array of passengerData objects with	

	information about passengers	
services	Array of objects with information about auxiliary services.	
seats	Array of objects with information about selected seats.	
insurances	Array of objects with information about selected insurances.	In developing
partnerProducts	Array of objects with information about partner's services.	
summToPayForExchange	The amount to be paid for ticket exchange (parameter is returned only when rebook process is in progress)	
journey	Information about flights for present booking.	
isAgentReservation	Agent booking sign to disable the booking management module	
flightsWithOpenDateCount	Number of flights with open dates	
relatedPnrNumbers	An array of related PNRs (obtained as a result of splitting a reservation as part of a partial exchange).	
isPayForbiddenForAgency	Sign that payment is not available for an unpaid booking	
baseFarePricesBySegment	An array of object with information about base fare prices by segments of flights	
fareBasisCodesFlightRefs	Array of objects with fare basis info	
errors	Information about errors appeared during query execution.	

insurances structure description

Parameter	Description
number	Insurance document number
passengerType	Passenger type
code	Service code. Example: "URFL"
status	Service status, Example: "HK"

passengerReference	Reference to passenger to whom present service is provided
price	Service price
isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.

passengerData structure description

Параметр	Описание
boardingPassRestrictedBySegment	Restrictions on obtaining a boarding pass by segment

Method POST api/Reservation

Description: booking creating, adding an information of flights, passengers, fares.

Request format: /api/apiVersion/Reservation

Request body

It has totally the same realisation as for post api/Reservation v2.2

Response format

It has the same realisation for post api/Reservation v2.2. A **data** object is extended by the baseFarePricesBySegment [] array and InformationalServices[] array.

Changes in version 2.3:

In the GET reservation service response, the isCheckinWithoutPseudo parameter is added to the outboundFlights[], returnFlights[], separateFlights[] arrays.

The isIssuedByRefundableOffice parameter is added to the GET reservation service response and can be displayed in the tickets[]; ticketsWithoutFlightRefs:[]; informationalServices:[]; seats[]; insurances[]; services:[]; partnerProducts[] arrays.

In the POST reservation service response, the isExchangePermitted parameter is added to the data{} object.

In the request body and the response of the POST reservation service, the subsidiesType parameter is added to the data{} object.

baseFarePricesBySegment

```
"data": {
     "isGroupReservation": boolean,
     "isCompanyGroupReservation": boolean,
 "iourney": {
    "outboundFlights": [fullReservationFlight],
    "outboundFareFamily": {
      "code": string
   "returnFlights": [fullReservationFlight],
    "returnDuration": string,
    "origin": string,
    "destination": string,
    "departureDate": datetime,
    "returnDate": datetime
       "baseFarePricesBySegment": [
      "flightReference": string,
      "passengerReference": string,
      "totalPrice": string, "basePrice": string,
      "discountAmount": string,
      "passengerType": integer
   }
 ],
     "fareBasisCodesFlightRefs" :{[fareBasisCodesFlightRefs object]},
 "number": string,
 "reservationDate": datetime,
     "bookingTimeLimit": datetime,
 "passengers": [{
      "id": integer,
      "hasInfant": boolean,
      "referenceNumber": string,
             "relatedAdultReferenceNumber": string,
             "relatedInfantReferenceNumber": string,
             "relatedChildrenReferenceNumbers": [
        "string"
      "firstName": string,
      "middleName": string,
      "surname": string,
      "passengerType": integer,
      "isAdult": boolean,
      "birthDate": datetime,
      "sex": integer,
      "nationality": string,
      "documentNumber": string,
      "documentExpiryDate": datetime,
      "email": string,
"phone": string,
      "documentType": integer
    }
```

```
],
"services": array,
    "seats": array,
    "insurances": [{
    "number": string,
         "passengerType": integer,
         "code": string,
         "status": string,
         "passengerReference": string,
         "price": double,
         "isIssuedByRefundableOffice": boolean
       }
    ],
"isAgentReservation": boolean,
    "isPayForbiddenForAgency": boolean,
    "isExchangePermitted": boolean,
    "partnerProducts": array,
    "flightsWithOpenDateCount": integer
  "ibeCode": integer,
       "description": string,
       "messages": [{
    "code": string,
    "text": string
         }
       "success": boolean
    }
  ]
}
```

Response parameters (at the shot form, only extention)

Parameter		Description	Notes
•	data	A data which were received by the request	
	baseFarePricesBySegment	An array of object with information about base fare prices by segments of flights	

InformationalServices

```
{
  "code": string,
  "status": string,
  "text": string,
  "petType": string,
  "category": string,
  "passengerReference": string,
  "flightReference": string,
  "referenceNumber": string,
  "price": number,
  "issueDate": datetime,
```

```
"issuedByThirdPartyOffice": boolean,
  "isIssuedByRefundableOffice": boolean
}
```

Response parameters

Parameter	Description	Notes
,	Additional service code	
code	Possible values: reference codes of the add. services	
	The status of adding the service.	
status	Example: HD service successfully added	
l tout	Text in ssr format for sending information.	
text	Example: DOG 1PC 8KG 45X35X25	
	Type of pet.	
petType	Possible values: DOG, CAT, PARROT, CANARY	
	Category of additional service	
category	Possible values: Reference codes add. services	
passengerReference	Link to the passenger for whom an additional service has been added	
flightReference	Link to the segment on which the service operates	
referenceNumber	Homep SSR. Каждой услуге соответствует уникальный номер SSR в PNR.	
price	The cost of an additional service	
issueDate	Date and time of service release.	
issuedByThirdPartyOffice	A sign that the service was issued by a third-party office in relation to the office under which the booking was issued	
isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.	

Auxiliary services management service: api/services, api/catalogue

Auxiliary services management service v2.2

API Service	catalogue / services
Short description	Services allows to retrieve information about auxiliary services and add them to PNR.
Supported HTTP(S)- methods	GET, POST
Conterminous systems	Sirena: svc_prices, svc_add
methods used	CRM: getContactMarkup, EmdPromoCode

GET catalogue method

Description: Obtaining of information about auxiliary services available for adding to booking.

Request format /api/apiVersion/catalogue

Request parameters

Parameter	Description
currency	Current that is used for pricing services

Response format

```
"flightReferences": [{
               "referenceNumber": string,
               "passengerPrices": [{
                   "referenceNumber": string,
                   "amount": decimal
                   }]
               }]
       }],
"seatServices": [{
"seatCharacteristics": [string],
    "code": string,
    "flightReferences": [{
        "referenceNumber": string,
        "passengerPrices": [{
            "referenceNumber": string,
            "amount": number
      }
  }
"petsList": [string],
    "flightReferences": [string]
  }
"partnerId": integer,
    "partnerType": integer,
    "code": string,
    "amount": number,
    "currency": string,
           "bookingStatus": integer,
    "passengerReference": string,
    "isInfantProduct": boolean,
    "bookingId": string,
    "internalError": integer,
    "internalErrorMessage": string
  }
],
"portions": [{
    "type": st!
    "type": string,
    "number": string,
    "flightReferenceNumbers": [string]
  }
"code": string,
    "category": string,
       "subCategory": string,
    "order": integer,
    "fullDirection": boolean,
    "onlyForRussianCitizens": true
],
   "serviceOptions": [{
```

```
"code": string,
                "preselect": boolean,
"category": string,
"priority": integer,
                 "flightReferences": [string],
                 "passengerReferences": [string]
         }
  ],
       "crmEmdPromoCodes": [{
        "serviceType": string,
       "promo": string,
       "promoDescription": string,
        "discountLevel": integer,
        "expireDate": datetime
     }
  "moneyWallCoefficient": string
},
"errors": [{
    "ibeCode"
     "ibeCode": integer,
     "description": string,
     "messages": [{
          "code": string,
"text": string,
          "additionalInfo": {
    "ssrType": string,
                 "info": string
                   }
           }
     ]
  }
"success": boolean
```

Response parameters

Parameter	Description	Note
	Sign of query execution success.	
success	If errors array is empty, field value will be set to true	
data	Returned data	
services	Array of objects with information about airline's available services	
	Service code	
code	Possible values	
flightReferences	Array of objects with information about segments	

		and passengers to whom services are available as well as service's prices	
	referenceNumber	Reference to flight segment	
	passengerPrices	Array of objects with information about passenger and service price	
	referenceNumber	Reference to passenger	
	amount	Price of service	
packs A		An array with available service packages	In developin
	includedSeats	An array of characteristics of available seats within the service package	
	excludedSeats	An array of characteristics of unavailable places within the service package	
	includedServiceCode	Included service code	
		Service package code.	
	code	Possible values: Attachment 2. Dictionary of service packages	
	flightReferences	The arrays with information about the position and passengers, which services are available, as well as the cost of these services.	
	referenceNumber	Flight segment reference	
	passengerPrices	An array of objects with information about the passenger and the cost of the service	
	referenceNumber	Reference to a specific passenger	
	amount	Service cost for a specific passenger	
ser	viceOptions	Array of objects with information about which services should be automatically pre-selected in IBE frontend.	
0	category	Service category	
		Service code	
(code	Possible values	
f	flightReferences	Array of objects with information about segments on which services are available	

			
	preselect	If true, service should be automatically preselected in UI.	
		Note: Initial logic was applied to Web-client usage	
		Priority of automatic service selection, 0 - highest.	
	priority	For instance, if service with priority 0 is unavailable, then service with priority 1 will be added etc.	
	passengerReferences	Array of objects with information about references to passengers for which the service is preselected.	
s	eatServices	Array of objects with information about flight's seats available for selection	
		IMPORTANT: api/seatmap service returns more detailed information about available seats and should be used for "seat selection" service booking.	In developing
	code	Service code, SEAT	
	flightReferences	Array of objects with information about segments and passengers to whom services are available as well as service's prices	
	referenceNumber	reference to flight segment	
	passengerPrices	Array of objects with information about passenger and service price	
	referenceNumber	Reference to passenger	
	amount	Price of service	
p	etsServiceConfiguration	Array of objects with information about "pet transportation" service availability on different segments. Needed for pet transportation validation on "business" family fares.	
	petsList	Array of strings, containing list of pet types available for transportation	
	flightReferences	Array of strings, containing list of segments on which service is available	
s	erviceCategories	Array of objects with information about services and order of its display in website	

	code	Service code	
H	category	Service category	
	order	Display index in auxiliary services page. 1 - page top (A deprecated option that is no longer used. The order of arrangement of additional services is determined on the side of the booking engine)	
	fullDirection	Service for directions	
	onlyForRussianCitizens	Service only for russian citizens	
p	partnerProducts	Array of objects with information about partners services	
	partnerId	Partners unique ID in IBE. Alfastrakh – 1, Sealine insurance – 2, Aeroexpress – 4	
	partnerType	Partner type Insurance – 1, Aeroexpress – 2	
	code	Partner's service code. Each partner has its own unique set of codes.	
	amount	Partner's service cost.	
	currency	currency	
	bookingStatus	Partner's service booking status Possible values: 0 - unknown, 1 - service is not issued, 2 - service is issued, 3 - error issuing of service, 4 - refund performed	
p	ortions	Service field	In developing

		type	Service field	
		number	Service field	
		flightReferenceNumbers	Service field	
e	errors		Information about errors appeared during query execution.	
	ibeCode		Error code	
	description		Code description	
	messages		Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode	
		code	Sirena error code	
		text	Sirena error text	

POST services method

Description: allows you to add services to the booking.

Request format: /api/apiVersion/services

Request body:

Request parameters:

Parameters	Description
services	Array of objects with information about added services
code	Additional service code
text	Animal type
passengerReference	Passenger reference
flightReference	Flight reference
referenceNumber	Paid services reference
seats	Array of objects with information about added seats
number	Row number of selected seat
title	Seat
code	Seat code
text	Text
referenceNumber	Paid seat reference
passengerReference	Passenger reference
flightReference	Flight reference
currency	Currency

Examples of requests with the services of the Airline

```
{
                 "number": 7,
                 "title": "A",
"passengerReference": "12",
"flightReference": "12"
     ],
"services": [],
"currency": "RUB"
}
Add pet
{
     "seats": [],
"services": [
           {
                 "code": "PETC",
                 "text": "DOG",
                 "passengerReference": "12",
                 "flightReference": "12"
     ],
           "currency": "RUB"
}
```

Logic of adding/removing services to a booking

IBE always updates the booking for additional services based on the parameters in the request.

Example:

```
Add baggage

{
    "seats": [],
    "services": [{
        "code": "ABAG",
        "passengerReference": "12",
        "flightReference": "12"
    }
    ],
    "currency": "RUB"
}
```

To remove baggage from a booking, send the following request

```
{
  "seats": [],
  "services": [],
  "currency": "RUB"
}
```

This logic is implemented for all types of services

Response format

The format of the response in terms of adding services is the same as the response of the GET api/reservation method.

Service for obtaining information about additional services v2.3

Changes in GET method response api/catalogue version 2.3:

Version 2.2 Version 2.3 In the services.flightReferences.referenceNumber array of type string changed to services.flightReferences.referenceNumbers array of type string. "services": [{ "code": string, "flightReferences": [{ "services": [{ "code": string, "referenceNumber": string, "flightReferences": [{ "referenceNumbers": [string], "passengerPrices": [{ "passengerPrices": [{ "referenceNumber": "referenceNumber": string, string, "amount": number "amount": number } 1] } }]] } } 1

In the packs.flightReferences.referenceNumber array of type string changed to packs.flightReferences.referenceNumbers array of type string.

```
"packs": [{
         "includedSeats":
                                "packs": [{
[string],
    "excludedSeats":
                                         "includedSeats": [string],
"excludedSeats": [string],
[string],
                                         "includedServiceCode": string,
                                         "code": string,
"includedServiceCode":
                                         "flightReferences": [{
string,
                                                  "referenceNumbers": [string],
         "code": string,
                                                  "passengerPrices": [{
         "flightReferences":
                                                           "referenceNumber":
[{
                                string,
                                                           "amount": number
"referenceNumber": string,
                                                       }
                                                  ]
"passengerPrices": [{
                                             }
                                         ]
"referenceNumber": string,
                                    }
                                ]
"amount": number
                      }
                  ]
             }
```

```
]
```

Changed the seatServices.flightReferences.referenceNumber array of type string to seatServices.flightReferences.referenceNumbers array of type string.

```
"seatServices": [{
"seatCharacteristics":
[string],
                              "seatServices": [{
        "code": string,
                                      "seatCharacteristics": [string],
        "flightReferences":
                                      "code": string,
[{
                                      "flightReferences": [{
                                               "referenceNumbers": [string],
"referenceNumber": string,
                                               "passengerPrices": [{
                                                       "referenceNumber":
"passengerPrices": [{
                              string,
                                                       "amount": number
"referenceNumber": string,
                                                   }
                                               ]
"amount": number
                                          }
                     }
                                      ]
                ]
                                  }
            }
                              ]
        ]
    }
```

In version 2.3, the partnerProducts array has been removed.

In the array services[].flightReferences[] added information about available quotas for returned service (this array is returned only for service with the code = "PETC")

```
"services": [{
                              "services": [{
                                      "code": string,
        "code": string,
        "flightReferences":
                                      "flightReferences": [{
[{
                                               "referenceNumbers": [string],
                                               "passengerPrices": [{
"referenceNumber": string,
                                                       "referenceNumber":
                              string,
"passengerPrices": [{
                                                       "amount": number
                                                   }
"referenceNumber": string,
                                               "quotas": [{
"amount": number
                                                       "referenceNumber":
                     }
                              string,
                                                       "quantity": number
            }
                                                   }
        ]
                                               1
    }
                                          }
                                      ]
```

```
]
```

At the v2.3 version in an array as serviceCategoryLabels[] receiving a data of additional option with Labels for appearing at the Front also the array has a data of label types.

In version 2.3, the serviceOptionLabels[] array displays the data of additional services, information of Labels to display, as well as the order of the Labels

At the v2.3 version in a sportEquipmentServiceConfiguration[] array receiving a dafa of able options for Sport equipment transportation option. it is receiving for "**Promo**" fare.

Parameters of the serviceOptionLabels array[]

Parameter	Description
services	An array of objects with information about additional services, Label titles and their display on the page
serviceOptionLabels	An array of objects with additional service codes and Label information

code	Additional service code
labels	An array of objects with information about the Label's title and their location
labelTitle	The specific name/title of Label
priority	The priority of displaying Labels next to the service they belong to, where 0 is the top position above other labels

Parameters of sportEquipmentServiceConfiguration[] array

Parameter	Description
subTypes	The array of strings with a list of able Sport equipment transportation options
flightReferences	The array of strings with a list of flight segments that are able to add the option

Examples of requests and responses

```
Error adding airline service (invalid service code)
{
    "seats": [],
"insurance": null,
                                  "errors": {
                                    "services": [{
    "partnerProducts": [],
                                        "code": "ABBB",
    "services": [
                                        "passengerReference": "12",
                                        "flightReference": "12",
             "code": "ABBB",
                                        "internalErrorMessage": "Invalid
"passengerReference": "12",
                                  passenger or flight reference."
             "flightReference":
"12"
                                    ]
                                  }
    ]
Error when adding airline service (invalid reference to passenger)
{
                                  "errors": {
                                    "seats": [],
"insurance": null,
    "partnerProducts": [],
                                        "passengerReference": "5",
                                        "flightReference": "12",
    "services": [
                                        "internalError": 1001,
                                        "internalErrorMessage": "Invalid
             "code": "ABAG",
                                  passenger or flight reference."
"passengerReference": "5",
                                      }
             "flightReference":
                                    ]
"12
                                  }
```

```
}
}
```

Method for adding services to a booking: api/services/add

Description: a method for adding new services that allows not passing in the parameters already existing services in the order

Request format: api/apiVersion/services/add

Request body

```
{
     "services": [{
               "code": string,
               "text": string,
               "passengerReference": string,
               "flightReference": string,
"referenceNumber": string
    ],
"seats": [{
"nyı
               "number": integer,
"title": string,
               "code": string,
               "text": string,
               "passengerReference": string,
               "flightReference": string,
               "referenceNumber": string
          }
     ]
}
```

Request parameters:

	Parameter	Description
services		Array of objects with information about added services
	code	Additional service code
	text	Animal type
	passengerReference	Link to the passenger for whom the service is being added
	flightReference	Link to the segment for which the service is being added
	referenceNumber	Link to paid services. Taken from the GET

	Parameter	Description
		api/reservation response.
sea	ats	Array with objects about seats
	number	Row number for selected seat
	title	Seat
	code	Seat code
	text	Text
	passengerReference	Passenger reference for adding seat
	flightReference	Flight reference for adding seat
	referenceNumber	Link to paid seats. Taken from the GET api/reservation response.

Method for removing services from booking api/services/remove

Description: a method for removing services from an order, provided that no ticket has been issued for the service and the flight segment for which the service was added has not yet departed

Request format: api/apiVersion/services/remove

Request body: same as request body api/services/add

Optimized method for removing services from booking api/services/removeByReferences

Description: a method for removing services from an order (more optimized analog than POST api/services/remove), provided that no ticket has been issued for the service and the flight segment for which the service was added has not yet departed.

Note: in the body request need to pass only references to those services that need to be deleted.

Request format: api/apiVersion/services/removeByReferences

Request body:

Request parameters:

	Parameter	Description
services		The array with the links to services which need to delete from reservation
	C N 1	Link to service which need to delete.
	referenceNumber	Value is possible to get from the response of GET api/reservation, parameter data.services[].referenceNumber
9	eats	The array with the links to seats which need to delete from reservation
	referenceNumber	Link to seat which need to delete. Value is possible to get from the response of GET api/reservation, parameter data.seats[].referenceNumber

Response format:

Response format regarding the removal of services and seats is the same with the response of GET api/reservation.

Method POST api/services/favorite

Description: allows you to get your favorite services for passengers

Request fromat /api/apiVersion/services/favorite

Request parameters

Parameter	Description
docNumbers	Passengers' document numbers
emdCodes	Service codes
months	Number of months to search

Request body example

```
{
    "DocNumbers": [
        string
],
    "EmdCodes": [
        string
],
    "Months": integer
}
```

Response body

Response parameter

Parameter		ımeter	Description
da	data		The data returned by the request
	do	cNum	Document Number
	en	ndCode	Service code
	value		Value
er	errors		Information about errors that occurred during the operation of the service.
	ibe	eCode	Error code
	de	scription	Error description
	messages		An array of objects containing the errors from Sirena's response. The array may be empty, it is recommended to analyze the error by the ibeCode field.
		code	Sirena error code
		text	Sirena error text

Parameter	Description
success	Sign of the success of the request
	If the errors array is empty, then the field value will be true.

Request body example

Service for obtaining a cataolog of serivces without PNR

API service	CatalogueStandalone
Short description	Service allows to receive information about additional services without PNR
Supported HTTP(S)-methods	POST
Conterminous systems methods used	Sirena: pricing_variant

Method POST CatalogueStandalone

Description: get information about catalog of additional services without PNR

Request format: api/apiVersion/CatalogueStandalone

Request body

```
"flights": {
    "destination": string,
            "departureDate": datetime,
            "arrivalDate": datetime,
            "flightNumber": string,
            "classOfService": string,
            "marketingCarrier": string,
            "operatingCarrier": string,
            "flightIndex": integer
    ],
"returnFlights": [{
"returnFlights": s
            "origin": string,
            "destination": string,
            "departureDate": datetime,
            "arrivalDate": datetime,
            "flightNumber": string,
            "classOfService": string,
            "marketingCarrier": string,
            "operatingCarrier": string,
            "flightIndex": integer
        }
    ]
"outboundFareFamily": {
        "code": string,
        "category": string,
        "isSubsidized": boolean
```

```
"code": string,
         "category": string,
"isSubsidized": boolean
    "passengerType": string,
              "flightIndex": integer,
              "fareBasis": string,
              "isBreakpoint": boolean
         }
     ]
},
"passengers": [{
    "id": integer,
         "firstName": string,
          "middleName": string,
         "surname": string,
"passengerType": string,
         "birthDate": datetime,
         "sex": string,
"loyaltyCard": string,
"disability": {
              "isDeaf": boolean,
"isBlind": boolean,
              "hasGuideDog": boolean,
              "assistanceType": integer,
              "wheelchairType": integer,
              "commentary": string
         },
"hasInfant": boolean,
          "nationality": string
     }
],
"currency": string
```

Request parameters

Parameter		Description	Note
flights		Object with information about flights	
	outboundFlights	An array of StandaloneInputFlight objects with information about flights in the "outbound" direction	
returnFlights		An array of StandaloneInputFlight objects with information about flights in the "return" direction	
fares		Tariff information object	
	outboundFareFamily	Object with information on fares for "outbound" directions	

Pa	rameter	Description	Note
	code	Fare family code.	
	Code	Data is taken from api/flights response: data.fareFamilies.code	
		The category of the tariff family.	
	category	Data is taken from api/flights response: data.fareFamilies.category	
	isSubsidized	Sign of a subsidized tariff.	In developin g
r	eturnFareFamily	Object with information on fares for the "return" route	
		Fare family code.	
	code	Data is taken from api/flights response: data.fareFamilies.code	
		The category of the tariff family.	
	category	Data is taken from api/flights response: data.fareFamilies.category	
	isSubsidized	Sign of a subsidized tariff.	In developin g
f	ares	Array with information about tariffs for directions "outbound" and "return"	
	passengerType	Passenger type.	
	flightIndex	Segment number for a specific flight (numbered from 1)	
		Base rate name.	
	fareBasis	The data is taken from the api/flights response: data.recommendations.outboundFareDetails.fareBasis and	
		data.recommendations.returnFareDetails.fareBasis	
	isBreakpoint	An indication of whether the tariff expires on the current segment.	

Parameter		Description	Note
		The data is taken from the api/flights response: data.recommendations.outboundFareDetails.isBreakpoint and	
		data.recommendations.returnFareDetails.isBreakpoint	
pa	ssengers	Object with passenger information	
i	d	Passenger's serial number (numbered from 1) (required parameter)	
1	irstName	Passenger's name	
1	niddleName	Passenger's patronymic	
5	surname	Passenger's surname	
I	passengerType	Passenger type (required parameter)	
ŀ	oirthDate	Date of birth	
5	sex	Passenger gender	
1	oyaltyCard	Loyalty card number "Wings"	In developin g
	disability	Information about people with disabilities	
	isDeaf	Hearing impairment	
	isBlind	Visual impairment	
	hasGuideDog	A guide dog must be accompanied, must be sent only together with the isBlind sign	
	assistanceType	Passenger escort type	
	wheelchairType	Wheelchair type	
	commentary	Comment (optional)	
	nasInfant	An indication that this passenger has a baby	
1	nationality	Pax nationality	
	relatedInfantWithSeatI d	Id of the ins related to the adult	
cu	irrency	Search currency	

StandaloneInputFlight

Parameter Description		
origin	Departure airport	
destination Arrival airport		
	Date and time of departure.	
	The data is taken from the api/flights response:	
	data.outboundFlights.flights.departureDateTime	
departureDate	or	
	data.returnFlights.flights.departureDateTime	
	Format: yyyy-MM-ddTHH:mm:ss	
	Example: 2018-06-20T01:00:00	
	Date and time of arrival.	
	The data is taken from the api/flights response:	
	data.outboundFlights.flights.arrivalDateTime	
arrivalDate	or	
	data.returnFlights.flights.arrivalDateTime	
	Format: yyyy-MM-ddTHH:mm:ss	
	Example: 2018-06-20T01:00:00	
	Flight number.	
	The data is taken from the api/flights response:	
flightNumber	data.outboundFlights.flightNumber	
	or	
	data.returnFlights.flightNumber	
classOfService Information about the selected tariff.		

Parameter Description	
	The data is taken from the api/flights response:
	data.recommendations.outboundFareDetails.bookingCode
	or
	data.recommendations.returnFareDetails.bookingCode
	Marketing airline
marketingCarrier	For example: U6, S7
	The airline actually performing the flight
operatingCarrier	For example: U6, OK
flightIndex Segment number for a specific flight (numbered from 1)	

Response format

```
"data": {
    "flightReferences": [{
    "referenceNumber": string,
                     "passengerPrices": [{
    "referenceNumber": string,
                              "amount": number
                          }
                     ],
                     "quotas": [{
          "referenceNumber": string,
                              "quantity": number
                          }
                     ]
                 }
             ]
        }
   "includedServiceCode": string,
            "code": string,
             "flightReferences": [{
                     "referenceNumber": string,
"passengerPrices": [{
```

```
"referenceNumber": string,
                         "amount": decimal
                     }
                ]
            }
        ]
    }
],
"seatServices": [{
    "coatCharac
        "seatCharacteristics": [string],
        "code": string,
        "flightReferences": [{
                 "referenceNumber": string,
                "passengerPrices": [{
                         "referenceNumber": string,
                         "amount": number
                     }
                ]
            }
        ]
    }
"flightReferences": [string]
    }
],
"insuranceProducts": [{
        "code": string,
        "amount": number
    }
"partnerId": "Unknown",
        "partnerType": "Unknown",
        "bookingStatus": "Unknown",
        "code": string,
        "amount": number,
        "currency": string,
        "passengerReference": string,
        "isInfantProduct": boolean,
        "bookingId": string,
        "internalError": integer,
        "internalErrorMessage": string
    }
],
"portions": [{
    "tvpe":
        "type": string,
        "number": string,
        "flightReferenceNumbers": [string]
    }
],
"serviceCategories": [{
"""" string,
        "code": string,
        "category": string,
        "order": integer,
```

Parameter		ameter	Description	Note
			Sign of the success of the request.	
S	success		If the errors array is empty, then the field value will be true	
d	data		The data returned by the request	
	services code		An array of objects with information about available airline services	
			Service code	
		flightReferences	An array with information about the segments and passengers for which the services are available, as well as the cost of these services.	
		referenceNumber	Flight segment reference	

Parameter		ter	Description	Note
	p	assengerPrices	An array of objects with information about the passenger and the cost of the service	
		referenceNumber	Reference to a specific passenger	
		amount	Service cost for a specific passenger	
	q	uotas	An array with information about available quotas for service (at the current time it's returned only for the service with code = "PETC").	
		referenceNumber	Reference to a specific passenger for whom quota is returned.	
		quantity	Count of available quotas for service.	
F	oacks		An array with available service packages	In developing
	incl	udedSeats	An array of characteristics of available seats within the service package	
	excludedSeats		An array of characteristics of unavailable places within the service package	
	incl	udedServiceCode	Included service code	
	code flightReferences		Service package code.	
			The arrays with information about the position and passengers, which services are available, as well as the cost of these services.	
	re	eferenceNumber	Flight segment reference	
	p	assengerPrices	An array of objects with information about the passenger and the cost of the service	
		referenceNumber	Reference to a specific passenger	
	amount serviceOptions category		Service cost for a specific passenger	
s			An array with information about which services should be automatically preselected on the frontend of the booking engine.	
			Service category	
	cod	e	Service package code.	
	flig	htReferences	An array with information about segments for which services are available	

Pa	Parameter		Description	Note
	preselect		Service field.	
			If true, then the service should be automatically preselected in the UI.	
			Note: The logic was originally added for use in the Web client.	
			Service field. Used in conjunction with the preselect field.	
	prio	rity	Indicates the priority of automatically adding a service to the UI, 0 is the highest.	
			For example, if a service with a priority of 0 is not available for pre-selection, then a service with a priority of 1 will be added, etc.	
	seatServices		An array of objects with information about the available seats for selection on the flight.	
S			IMPORTANT: The api/seatmap service returns more complete information about available seats and should be used to book a seat selection service.	In developing
	seatCharacteristics		Array of site characteristics.	
	code	e	Service code, SEAT	
	flightReferences		An array with information about the segments and passengers for which the services are available, as well as the cost of these services.	
	re	eferenceNumber	Flight segment reference	
	passengerPrices referenceNumber amount petsServiceConfiguration		An array of objects with information about the passenger and the cost of the service	
			Reference to a specific passenger	
			Service cost for a specific passenger	
I			An array of objects that contain information about the availability of the animal transport service on different segments. It is necessary to control the transportation of animals at the tariffs of the "business" family.	
	pets	List	An array of strings, contains a list of animals	

Parameter	Description	Note
	available for transport	
flightReferences	An array of strings, contains a list of segments on which the service is available	
serviceCategories	An array of objects, contains information about services and the order in which they are displayed on the site.	
code	Service code	
category	Service category	
order	The order of the additional services on the page. 1 - top of the page	
fullDirection	Flag indicating whether the service covers the entire flight	
portions	Service field	In developing
type	Service field	
number	Service field	
flightReferenceNumbers	Service field	
moneyWallCoefficient	Coefficient for calculating the monthly installment payment	
errors	Information about errors that occurred during the operation of the service.	
ibeCode	Error code	
description	Error description	
messages	An array of objects containing errors from Sirena' answer. The array may be empty, it is recommended to analyze the error by the ibeCode field.	
code	Sirena error code	
text	Sirena error text	
additionalInfo	An array with additional error information	
ssrType	Ssr type	
info	Additional information	

Retrieve aircraft seatmap service

API service	seatmap
Short description	Allows to receive information about seatmap scheme in aircraft
Supported HTTP(S)-methods	GET
Conterminous systems methods used	Sirena: seat_map, svc_order_view

GET seatmap method

Description: receives information about seatmap scheme in aircraft.

Request format: api/apiVersion/seatmap

Request example

api/apiVersion/seatmap?referenceNumber=1&origin=LED&destination=DME&departureDate=20220723&flightNumber=80&classOfService=E&commercialFamily=U6ECONOMY

Request parameters

Information about flight for which seatmap is needed

Parameter	Mandatory	Description
referenceNumber	Yes	Reference to flight segment
origin	No	Origin airport
destination	No	Destination airport
departureDate	No	Date and time of departure
flightNumber	No	Flight number
classOfService	No	Information about selected tariff
commercialFamily	a anni al Carrilla.	Fare family type, for instance:
Commerciair anniy	No	U6ECONOMY or U6BUSINESS
currency	No	Currency in which search results will be returned

Response format

```
"data": {
  "isEmpty": boolean,
  "compartmentDetails": [{
      "number": integer,
      "seats": [{
          "seat": string,
          "number": integer,
          "description": string,
          "characteristics": [string],
          "occupation": string,
          "passengerRelatedPrice": [{
              "name": string,
              "type": string,
               "uniqueCustomerIdentifier": string,
               "seatPrice": number,
                              "seatUnavailableReason": {
                                   "isByCharacteristics": boolean,
                    "isByCheckin": boolean,
                    "isByAgent": boolean,
                    "isByRegistrationUnavailability": boolean,
                    "isByPreselects": boolean,
                    "isByRelatedPassengerUnavailability": boolean
              "isSeatUnavailable": boolean,
              "hasInfant": boolean
            }
          ],
"classDesignator": string
      ]
    }
  ]
  "passengersTotalData": [{
      "passengerReference": string,
      "passengerPriceLevels": [{
              "price": decimal,
              "priceLevel": integer
      į
 ],
"preselectedSeats": [{
            "flightReference": string,
            "passengerReference": string,
            "title": string,
            "number": integer
        }
    ],
"errors": [{
    "ibeCode": integer,
    "description": string,
    "messages": [{
```

```
"code": string,
    "text": string
    }
    ]
    }
},
"success": boolean
}
```

	Parameter		Description
su	ıcc	ress	Sign of query execution success. If errors array is empty, field value will be set to true
da	data		Returned data
	isEmpty		Flag identifying whether data is returned from sirena This field can be used to determine possibility of selecting seats on present flight segment
	compartmentDetails		Array of objects with information about seats grouped by rows
	number		Row number
		seats	Array of objects which contains detailed information about seats
		seat	Seat. Possible values: A-F
		number	Row number for seat
		description	Seat description 9 – central seat A – aisle seat W – window seat
		characteristics	Seat characteristics
		occupation	Sign of seat's occupation

	passengerRelatedPrice	Array of objects with information about seat prices for. Only available for seats with CH characteristics.
	name	Passenger name
	type	Passenger type
	uniqueCustomerIdentifier	unique passenger ID
	seatPrice	seat price
	seatUnavailableReason	Array of objects with parameters that are reason of unavailability seats
	isByCharacteristics	Seat is not available for the passenger by characteristics
	isByCheckin	The passenger has been already checked-in
	isByAgent	Another seat was chosen by Agent
	isByRegistrationUnavailability	Check-in is not available
	isByPreselects	Another seat was pre-selected earlier
	isByRelatedPassengerUnavailability	Seat is not available for the passenger because the seat is not suitable for accompanied passengers
	isSeatUnavailable	Seat availability flag
	hasInfant	Flag identifying that passenger travels with infant
	classDesignator	Information about seat class. Possible values: ECONOMY, BUSINESS
pass	engersTotalData	An array of objects with information about the cost of seats in the context of passengers
pa	assengerReference	Passenger reference
pa	assengerPriceLevels	An array of objects of the cost of seats available to the passenger
	price	Seat cost
	priceLevel	Seat value category
pres	electedSeats	Array with information about pre- added seats at the seat selection step

	in the booking engine.
flightReference	Link to the flight segment.
passengerReference	Link to the passenger.
title	Seat letter.
number	Seat number.
errors	Information about errors appeared during query execution.
ibeCode	IBE error code
description	IBE error description
messages	Array of objects, containing conterminous system's errors Array might be empty. It is recommended to analyze ibeCode field.
code	Sirena error code
text	Sirena error text

Retrieve aircraft seatmap service without PNR

API service	SeatmapStandalone
Short description	Allows to receive information about seatmap scheme in aircraft without PNR
Supported HTTP(S)-methods	POST
Conterminous systems	Sirena: pricing_variant, svc_pricing
methods used	CRM: getContactMarkup

POST SeatmapStandalone method

Description: retrieve information about seatmap scheme in aircraft without PNR.

Request format: api/apiVersion/SeatmapStandalone

Request body

```
"passengers": [
     "id": integer,
    "firstName": string,
"middleName": string,
     "surname": string,
     "passengerType": string,
     "birthDate": datetime,
    "sex": integer,
"loyaltyCard": string,
"disability": {
    "isDeaf": boolean,
       "isBlind": boolean,
       "hasGuideDog": boolean,
       "assistanceType": integer,
       "wheelchairType": integer,
       "commentary": string
     "hasInfant": boolean
     "nationality": string
     "relatedInfantWithSeatId": integer
  }
],
"origin": string,
"destination": string,
"departureDate": datetime,
"flightNumber": string,
```

```
"classOfService": string,
"commercialFamily": string,
"currency": string
}
```

Параметры запроса

Par	ameter	Description	Note
pass	sengers	Array with data about passengers	
id		Passenger's serial number (numbered from 1)	
fi	rstName	Passenger's name	
m	iddleName	Passenger's patronymic (may be absent)	
sı	ırname	Passenger's surname	
pa	assengerType	Passenger type	
bi	rthDate	Date of birth	
		Passenger gender	
Se	ex	Possible values: see dictionary "gender of passengers"	
lo	yaltyCard	Loyalty card number "Wings"	In developing
di	isability	Information about people with disabilities	
	isDeaf	Hearing impairment	
	isBlind	Visual impairment	
	hasGuideDog	A guide dog must be accompanied, must be sent only together with the isBlind sign	
		Passenger assistance type	
	assistanceType	Possible values: dictionary of assistance types	
		Wheelchair type	
	wheelchairType	Possible values: dictionary of wheelchair type	

Parameter	Description	Note
commentary	Comment (optional)	
hasInfant	An sign that this passenger has a baby	
	Nationality (country)	
nationality	Possible values: dictionary of countries	
relatedInfantWithSeatId	Id of the ins related to the adult	
origin	Departure airport	
destination	Destination airport	
	Date and time of departure	
departureDate	Format: yyyy-MM-ddTHH:mm:ss	
	Example: 2018-06-20T01:00:00	
flightNumber	Flight number.	
classOfService	Information about the selected tariff	
commercialFamily	Fare family type (different meals may be available on the same flight for economy and business).	
currency	Search currency	

Формат ответа

```
"isByCheckin": boolean,
                                        "isByAgent": boolean,
                                        "isByRegistrationUnavailability":
boolean,
                                        "isByPreselects": boolean,
                                        "isByRelatedPassengerUnavailability":
boolean
                                   },
                                  "isSeatUnavailable": boolean,
                                  "hasInfant": boolean
                              }
                          ],
"classDesignator": string
                     }
                 ]
             }
        ],
"isEmpty": boolean,
"coreTotalDat
        "passengersTotalData": [{
                 "passengerReference": string,
                 "passengerPriceLevels": [{
                          "price": decimal,
                          "priceLevel": integer
                     }
                 ]
             }
        ]
   "description": string,
             "messages": [{
                     "code": string,
"text": string,
                     "additionalInfo": {
                          "ssrType": string,
"info": string
                 }
             ]
        }
    ],
"success": boolean
```

Par	Parameter			Description
				Sign of the success of the request.
suco	success			If the errors array is empty, then the field value will be true.
data	data			The data returned by the request.
	isEmpty compartmentDetails			Flag identifying whether data is returned from sirena
is			ty	This field can be used to determine possibility of selecting seats on present flight segment
С			rtmentDetails	Array of objects with information about seats grouped by rows
	r	num	ber	Row number
	s	seat	s	Array of objects which contains detailed information about seats
		se	eat	Seat. Possible values: A-F
		nı	umber	Row number for seat
				Seat description
				9 – central seat
		de	description	A – aisle seat
				W – window seat
		cl	naracteristics	Seat characteristics
		00	ccupation	Sign of seat's occupation
		p	assengerRelatedPrice	Array of objects with information about seat prices for. Only available for seats with CH characteristics.
			name	Passenger name
			type	Passenger type
			uniqueCustomerIdentifier	unique passenger ID

Para	ameter	Description	
	seatPrice	seat price	
	seatUnavailableReason	Array of objects with parameters that are reason of unavailability seats	
	isByCharacteristics	Seat is not available for the passenger by characteristics	
	isByCheckin	The passenger has been already checked-in	
	isByAgent	Another seat was chosen by Agent	
	isByRegistrationUnavailability	Check-in is not available	
	isByPreselects	Another seat was pre-selected earlier	
	isByRelatedPassengerUnavailability	Seat is not available for the passenger because the seat is not suitable for accompanied passengers	
	isSeatUnavailable	Seat availability flag	
	hasInfant	Flag identifying that passenger travels with infant	
	classDesignator	Information about seat class. Possible values: ECONOMY, BUSINESS	
	passengersTotalData	An array of objects with information about the cost of seats in the context of passengers	
	passengerReference	Passenger reference	
	passengerPriceLevels	An array of objects of the cost of seats available to the passenger	
	price	Seat cost	
	priceLevel	Seat value category	
erro	ors	Information about errors appeared during query execution.	
ib	peCode	IBE error code	
de	escription	IBE error description	
m	iessages	Array of objects, containing	

P	Parameter			Description
				conterminous system's errors
				Array might be empty. It is recommended to analyze ibeCode field.
		co	ode	Sirena error code
		te	xt	Sirena error text
		a	lditionalInfo	Additional information about error
			ssrType	Ssr type
			info	Information

Cancellation service

API service	annul
Short description	Allows to cancel tickets and receive information on canceled bookings
Supported HTTP-(S) methods	GET, POST
	Sirena:
Используемые методы смежных систем	Getting information on booking - order
	Cancel (part or all) PNR seats (without tickets refund) - release_seats

POST api/annul method

Description: allows to cancel tickets for all passengers in the booking

Request format: /api/apiVersion/Annul

Request parameters: X-Session is passed in the header

Response format:

Parameter	Description
success	Sign of the success of the request.
	If the errors array is empty, then the field value will be true
errors	Information about errors that occurred during the operation of the service.

Parameter		ter	Description
	ibeCode		Error code, see Attachment 1. IBE error codes
	description		Error description, see Attachment 1. IBE error codes
	mes	sages	An array of objects containing errors from Sirena answer. The array may be empty, it is recommended to analyze the error by the ibeCode field.
		code	Error code
		text	Error text

GET api/annul method

Description: allows to get information on booking cancellation

Request parameters: X-Session is passed in the header

Parameter	Obligation	Description
pnrNumber	yes	PNR number, unique six-character booking ID

Response format:

Parameter

P	arameter	Description
		Sign of the success of the request.
Si	uccess	If the errors array is empty, then the field value will be true
d	ata	The data returned by the request
	pnrNumber	PNR number
	createdDate	Date and time when the cancellation was issued
e	rrors	Information about errors that occurred during the operation of the service.
	ibeCode	Error code, see Attachment 1. IBE error codes
	description	Error description, see Attachment 1. IBE error codes
		An array of objects containing errors from Sirena answer.
	messages	The array may be empty, it is recommended to analyze the error by the ibeCode field.
	code	Error code
	text	Error text

Partial cancellation service

API service	annul/partial
Short description	Allow to cancel certain tickets from reservation
Supported HTTP-(S) methods	POST
	Sirena:
Used methods of related systems	Getting information on booking - order
	Cancel (part or all) PNR seats (without tickets refund) - release_seats

POST api/annul method

Description: allow to cancel tickets for certain passengers in reservation

Request format: /api/apiVersion/Annul/Partial

Request parameters: X-Session is passed in the header

P	ara	meter	eter Description	
success			Sign of the success of the request.	
		ess	If the errors array is empty, then the field value will be true	
eı	errors		Information about errors appeared during query execution.	
	ib	eCode	Error code, see EN_Attachment 1. IBE error codes	
	de	escription	Code description, see. EN_Attachment 1. IBE error codes	
	m	essages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode.	
		code	Error code	
		text	Error text	

Auxiliary partner's services management service

API service	partners/types, partners/[id]
Short description	Services allows to retrieve information about partner's services and add them to booking
Supported HTTP(S)- methods	GET, POST
Conterminous systems methods used	Partner's API

GET partners/types method

Description: Service allows to retrieve list of partner's services which are available for booking for specific application type.

Validated via API-key passing in method.

Request Format /api/apiVersion/partners/types

Request header X-session is not needed for call, no data from booking context is used.

Request parameters no parameters

Response format

```
{
  "data": [{
      "partnerId": integer,
      "name": string
  }
],
  "errors": [{
      "ibeCode": integer,
      "description": string,
      "messages": [{
            "code": string,
            "text": string
      }
      ]
      }
    ],
  "success": boolean
}
```

	Parameter	Description	
		Sign of query execution success.	
SI	ıccess	If errors array is empty, field value will be set to true	
d	ata	Returned data	
	partnerId	Unique partner's code	
	name	Partner's name	
errors Infor		Information about errors appeared during query execution.	
	ibeCode	Error code, see EN_Attachment 1. IBE error codes	
	description	Code description, see. EN_Attachment 1. IBE error codes	
	messages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode.	
	code	Sirena error code	
	text	Sirena error text	

Response example (Website application type)

Response example (mobile application type)

```
{
    "data": [
```

GET partners/id method

Description: service allows to retrieve list of services available for specific partner.

Request format /api/apiVersion/partners/id

Request example /api/apiVersion/partners/1 - for retrieving of Alfastrah services.

Request headers X-Session **should** be passed because information about available partner's services depends on passenger's list, flight directions etc.

All information will be taken from booking context.

Request parameters

id - partner's code

Response format

```
{
    "data": [{
             "partnerId": integer,
            "partnerType": integer,
            "bookingStatus": integer,
            "code": string,
            "amount": nubmer,
            "preselectedOption": {
                 "preselect": boolean,
                 "passengers": [{
                         "referenceNumber": string,
                         "passengerType": string,
                                "flightReferences": [
                                                        string
                                ]
                      }
            "compatibleProductCodes": [
                string
            ],
```

```
"internalError": integer,
"internalErrorMessage": string,
                                    "passengerAmounts": [
                         {
                               "referenceNumber": string,
                               "amount": number,
"currency": string
                         }
                   ]
      ],
"errors": [{
    "ihe(
                   "ibeCode": integer,
                   "description": string,
                  "messages": [{
    "code": string,
    "text": string,
    "additionalInfo": {
                                      "ssrType": string,
"info": string
                               }
                         }
                   ]
      ],
"success": boolean
}
```

Parameter	Description
	Sign of query execution success.
success	If errors array is empty, field value will be set to true
data	Returned data
partnerId	Unique partner's code
partnerType	Unique partner's type
	Booking service's status
bookingStatus	Field is left for backward compatibility and will always be set to 0.
code	Code of partner's service
amount	Cost of partner's service

C	urrency	Currency
p	reselectedOption	An array of settings for pre-selecting an parners service (in the basket at the third step)
	preselect	Sign of preselection of a partner service
	passengers	An array of passengers for whom a partner service is preselected
	referenceNumber	Passenger reference
	passengerType	Passenger type, see Attachment 2. Dictionary of Passenger Types
	flightReferences	id of segments in the booking with preselected option
C	ompatibleProductCodes	An array of partner service codes that can be added to a booking at the current rate
ir	nternalError	Internal engine error code
ir	nternalErrorMessage	Description of an internal engine error
p	assengerAmounts	An array with information about the amounts for partner services in the context of passengers (returned for Alfainsurance).
	referenceNumber	Passenger reference.
	amount	Amount for the partner product for the passenger.
	currency	Currency.
err	ors	Information about errors appeared during query execution.
it	oeCode	Error code, see EN_Attachment 1. IBE error codes
d	escription	Code description, see. EN_Attachment 1. IBE error codes
n	nessages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode.
	code	Sirena error code
	text	Sirena error text
	additionalInfo	Additional error information
	ssrType	Ssr type
	info	Information

Response example, Aeroexpress

Request /api/apiVersion/partners/4

{

```
"data": [{
       "partnerId": 4,
      "partnerType": 2,
"bookingStatus": 0,
       "code": "STANDARTOW",
       "amount": 500.0,
       "currency": "RUB"
    "partnerType": 2,
       "bookingStatus": 0,
       "code": "ADVSTANDART",
       "amount": 450.0,
       "currency": "RUB"
    }
  ],
  "errors": [],
  "success": true
Response example, Telemedicine
Request /api/apiVersion/partners/7
{
    "data": [{
              "partnerId": 7,
             "partnerType": 3,
             "bookingStatus": 0,
"code": "SBERDOC",
             "amount": 300.00,
             "currency": "RUB",
              "preselectedOption": {
                  "preselect": true,
                  "passengers": [{
                           "referenceNumber": "2",
                           "passengerType": 0,
                                             "flightReferences": [
                                                    "12"
                                            ]
                        }
                  ]
             "partnerId": 7,
             "partnerType": 3,
             "bookingStatus": 0,
             "code": "SBERVET",
"amount": 300.00,
              "currency": "RUB<sup>*</sup>"
         }
    ],
"errors": [],
    "success": true
```

}

POST partners method

Description: service allows to add partner's services to booking

Request format /api/apiVersion/partners

Request header X-Session **should** be passed in call because services are added to specific booking

Request format

Request parameters

Parameter	Description
partnerId	Partner's unique code
code	Code of partner's service
amount	The cost of the added service
passengerReference	Reference to the passenger to whom the service is being added (mandatory parameter for telemedicine)
isInfantProduct	Sign that the services was bought for an infant (mandatory parameter for alfamedicine)

Response format matches GET api/reservation method response.

Response example

```
"destination": "DME",
      "departureDate": "2020-01-22T14:35:00",
      "arrivalDate": "2020-01-22T16:25:00",
      "flightNumber": "60",
      "classOfService": "E"
      "operatingCarrier": "U6",
      "marketingCarrier": "U6"
    }
  outboundFareFamily": {
    "code": "ECOFLEXRU"
  "origin": "LED",
  "destination": "DME",
  "departureDate": "2020-01-22T14:35:00"
},
"number": "VY9NCD",
"passengers": [{
    "id": 1,
    "hasInfant": false,
"referenceNumber": "2",
    "firstName": "TEST",
    "middleName": "TESTOVICH",
    "surname": "TESTOV",
    "passengerType": 0,
    "birthDate": "1988-08-11T00:00:00",
    "sex": 0,
    "nationality": "RUS",
    "documentNumber": "14001232244",
    "documentExpiryDate": "2029-12-25T00:00:00",
    "email": "TEST@YANDEX.RU",
    "phone": "79510002233",
    "documentType": 0,
    "isAdult": true,
    "isChanged": false
  }
"services": [],
"seats": [],
"partnerProducts": [{
    "partnerId": 1,
    "partnerType": 1,
    "bookingStatus": 1,
    "code": "TRAVEL",
    "amount": 847.00,
    "currency": "RUB",
    "passengerReference": "2",
    "isInfantProduct": false,
    "bookingId": "94cf3c93-b6aa-49c5-8de1-f3fa2749b5e2"
  }, {
   "partnerId": 4,
    "partnerType": 2,
    "bookingStatus": 1,
    "code": "STANDARTOW",
    "amount": 500.00,
    "currency": "RUB",
    "passengerReference": "2",
```

```
"isInfantProduct": false,
    "bookingId": "abf3bf5c-acc3-442d-98fa-df317ab439e2",
    "orderId": string
    }
],
    "hasSpecialConditions": false
},
"errors": [],
"success": true
```

Examples of invalid requests and responses

Request	Response
<pre>Invalid partner's code for TRAVEL service {</pre>	<pre>"partnerProducts": [{ "partnerId": 4, "partnerType": 2, "bookingStatus": 1, "code": "STANDARTOW", "amount": 500.00, "currency": "RUB", "passengerReference": "2", "isInfantProduct": false, "bookingId": "f4b21bb1-7a31-46c2-b6b4- 5198632e5f7f" }], "hasSpecialConditions": false, "errors": { "partnerProducts": [{ "internalError": 5000, "internalErrorMessage": "Invalid product code", "partnerId": 4, "partnerType": 2, "bookingStatus": 0, "code": "TRAVEL", "amount": 0.0, "currency": "RUB" }]</pre>
<pre>Invalid service code for Sealine partner { "products": [</pre>	<pre>"partnerProducts": [{ "partnerId": 4, "partnerType": 2, "bookingStatus": 1, "code": "STANDARTOW", "amount": 500.00, "currency": "RUB", "passengerReference": "2", "isInfantProduct": false, "bookingId": "f4b21bb1-7a31-46c2-b6b4- 5198632e5f7f" }</pre>

Ticket void service

API service	ticket/void
Short description	Allows to void air tickets and additional services
Supported HTTP(S)-methods	POST
Conterminous systems methods used	Sirena: void_tickets

POST ticket/void method

Description: void of air tickets and additional services.

Note: when voiding not all the tickets from the booking split happens and all tickets that are voided are transferred to separated booking, the PNR of which is returned in the response of POST /ticket/void. Tickets that were not voided remain in the original booking. The error is returned when trying to split an infant (or leave it in the original booking) without an adult.

Request format /api/apiVersion/ticket/void

Request body

```
{
    "TicketNumbers": [string],
    "NeedReturnSeats": boolean
}
```

Request parameters

Parameter	Description
TicketNumbers	Array of air tickets and additional services to void
NeedReturnSeats	Seat void flag

Response body

Parameter D			Description
data			Returned data
	voidedTic	ketNumbers	Array of voided tickets
	notVoideo	lTicketNumbers	Array of tickets that failed to be voided
	notVoidR	eason	Reason why void failed
	separated	Pnr	Pnr of splitted reservation
err	errors		Information about errors appeared during query execution.
	ibeCode		IBE error code
	description		IBE error description
	messages		Array of objects, containing conterminous system's errors
			Array might be empty. It is recommended to analyze ibeCode field.
		code	Sirena error code
		text	Sirena error text
			Sign of query execution success.
success			If errors array is empty, field value will be set to true

Services for working with queues (for agents)

Service for placing PNR to queues.

API service	queue/placePNR
Short description	The service allows placing PNR in queue
Supported HTTP-(S) methods	POST
Used methods of related systems	Sirena: queue_pnr_place

POST queue/placePNR method

Description: placing the PNR in queues

Request format /api/apiVersion/queue/placePNR

Request parameters

Parameter	Description
queueNumber	Queue number in which need to place the booking
pnr	Booking number which need to be queued

Response format

Parameter	Description
	Sign of query execution success.
success	If errors array is empty, field value will be set to true
data	Empty array of objects
errors	Information about errors appeared during query execution.
ibeCode	IBE error code
description	IBE error description
	Array of objects, containing conterminous system's errors
messages	Array might be empty. It is recommended to analyze ibeCode field.
code	Sirena error code
text	Sirena error text
additionalInfo	Additional information about error
ssrType	Ssr type
info	Information

Examples of successful requests and responses

```
Request
{
    "queueNumber": 1,
    "pnr": "1Z9RR1"
}
Response
{
    "data": {},
    "errors": [],
    "success": true
}
```

Examples of failed requests and responses

An example of an attempt to add the booking to the queue, which is not available for the key of the office under which the addition is being made

An example of an attempt to add the booking to inaccessible queue for the office key under which the addition is being made

Service for retrieving the list of bookings from the queue

API service	queue/list
Short description	The service allows to retrieve the list of bookings from the queue
Supported HTTP-(S) methods	POST
Used methods of related systems	Sirena: queue_show

POST queue/list method

Description retrieving the list of bookings from the queue

Request format /api/apiVersion/queue/list

Request parameters

Parameter	Description
queueNumber	Number of the queue for which the list of bookings is requested to be returned

Response format

```
{
    "number": string,
                        "passengers": [{
    "name": string,
    "surname": string
                             }
                        ]
                   }
              ]
         }
    ],
"errors": [{
    "ihe(
              "ibeCode": integer,
              "description": string,
              "messages": [{
                        "code": string,
"text": string,
                        "additionalInfo": {
                             "ssrType": string,
                             "info": string
                        }
                   }
```

```
]
],
"success": boolean
}
```

Parameter		Description
		Sign of the success of the request.
succe	ess	If the errors array is empty, then the field value will be true.
data		Array with information about booking lists
qu	ieuedPnrs	Array of objects with basic information about queues
	number	Queue number
	passengers	Array with information about passengers in the booking
	name	Name and patronymic (if any) of the passenger
	surname	Last name of the passenger
erro	rs	Information about errors appeared during query execution.
ibe	eCode	IBE error code
de	scription	IBE error description
		Array of objects, containing conterminous system's errors
me	essages	Array might be empty. It is recommended to analyze ibeCode field.
	code	Sirena error code
	text	Sirena error text
	additionalInfo	Additional information about error
	ssrType	Ssr type
	info	Information

Examples of successful requests and responses

```
Request
{
     "queueNumber": 1
}
```

Examples of failed requests and responses

Request for a non-existent queue

Service for retrieving the count of records

API service	queue/counttotal
Short description	The service allows retrieving the count of records.
Supported HTTP-(S) methods	POST
Used methods of related systems	Sirena: queue_count

POST queue/counttotal method

Description retrieving the count of records

Request format /api/apiVersion/queue/counttotal

Request parameters are empty

Response format

```
{
      "data": [{
    "queuesInfo": [{
                               "queueNumber": integer,
"queueName": string,
"count": integer
                         }
      }],
"errors": [{
                   "ibeCode": integer,
                   "description": string,
                  "messages": [{
    "code": string,
    "text": string,
    "additionalInfo": {
                                      "ssrType": string,
                                      "info": string
                               }
                         }
                  ]
            }
      ],
"success": boolean
}
```

	Параметр	Описание
		Sign of the success of the request.
su	ICCESS	If the errors array is empty, then the field value will be true.
da	ata	An array with information about the number of bookings in queues
	queuesInfo	Array of objects with basic information about the number of PNRs in the queues
	queueNumber	Queue number
	queueName	Queue title
	count	Number of bookings in the queue
errors Informati		Information about errors appeared during query execution.
	ibeCode	IBE error code
	description	IBE error description
		Array of objects, containing conterminous system's errors
	messages	Array might be empty. It is recommended to analyze ibeCode field.
	code	Sirena error code
	text	Sirena error text
	additionalInfo	Additional information about error
	ssrType	Ssr type
	info	Information

Examples of successful responses

Service for removing PNR from the queues

API service	queue/removeItem
Short description	The service allows removing the PNR from the queues.
Supported HTTP-(S) methods	POST
Used methods of related systems	Sirena: queue_pnr_remove

POST queue/removeItem method

Description removing the PNR from the queues

Request format /api/apiVersion/queue/removeItem

Request parameters

Parameter	Description
queueNumber	Number of the queue from which the reservation is requested to be deleted
pnr	Booking number to be removed from the queue

Response format

Response parameters

Parameter Description

success	Sign of query execution success.				
decess	If errors array is empty, field value will be set to true				
data	Empty array of objects				
errors	Information about errors appeared during query execution.				
ibeCode	IBE error code				
description	IBE error description				
messages	Array of objects, containing conterminous system's errors Array might be empty. It is recommended to analyze ibeCode field.				
code	Sirena error code				
text	Sirena error text				
additionalInfo	Additional information about error				
ssrType	Ssr type				
info	Information				

Examples of successful requests and responses

```
Request
{
        "queueNumber": 111,
        "pnr": "1Z9S18"
}
Response
{
        "data": {},
        "errors": [],
        "success": true
}
```

Examples of failed requests and responses are the same as examples of failed requests and responses for POST queue/placePNR method

Obtain recommendations for rebook /api/Exchange/Search v2.3

API service	/Exchange/Search
Short description	Obtain list of available recommendations for rebook
Supported HTTP(S)-methods	POST
Conterminous systems methods used	Sirena: exchange_pricing

Method POST Exchange/Search

Note: allow to get information about the cheapest option for exchange with non-negative amount for surcharge

Request format: api/apiVersion/Exchange/Search

Request headers

X-Api-Key - unique GUID for the systems, using IBE API.

Request body

Request parameters

Parameter	Description		
reservationNumber	Number of a reservation		
lastName	Surname of a passenger		

originDestination	An array of data about the part of the flight to be		origin		/IATA-code of origin airport
	exchanged			destination	IATA-code of destination airport
flightNumber	Number of flight				
classOfSerivce	Class of serivce				
departureDate	Departure date				
segmentReference	Reference to the segment to be exchanged				
passengerReference	Reference to the segment whose tickets to be exchanged				
searchPeriod	A period of days for getting recommendations to exchange (available values: 1; 3; 5, 'null' - accepting as '1' value)				
	An indication of the search for flights with transfers in Sirena.				
searchIndirectFlights	If the value is true, Sirena searches for flights with transfers. By default, the value is false.				

Response format

```
"order": integer,
                 "showInPopup": boolean,
                 "showInSummary": boolean, "showInUpsell": boolean,
                 "showInFareIncluded": boolean,
                 "showForAdult": boolean,
                 "showForInfant": boolean,
                 "showInBookingCart": boolean
             }
        ],
"order": integer,
        "commercialFamily": string,
        "canRefund": boolean,
        "hasUpsale": boolean,
        "isLowCost": boolean
],
"recommendations": [
         "totalPrice": float,
        "totalAddCollectPrice": float,
        "breakdowns": [
             {
                 "ticketNumber": string,
                 "passengerReference": string,
                 "paxType": integer,
                 "baseFareAmount": float,
                 "taxAmount": float,
                 "totalAmount": float,
                 "addCollectAmount": float
        ],
"flightGroupDetails": [
                 "flightGroupId": integer,
                 "fareFamilyId": integer,
                 "isExchange": boolean,
                 "baggageAllowances": [
                     {
                          "quantity": integer,
                          "weight": integer,
                          "passengerType": integer
                     }
                 ],
"fareDetails": [
                     {
                          "bookingCode": string,
                          "fareBasis": string,
                          "isBreakpoint": boolean,
                          "paxType": integer,
                          "paxCount": integer,
                          "flightIndex": integer,
                          "ruleKey": string
                     }
                 "flightGroupHash": string
             }
```

```
]
            }
        "foodOnBoards": [{
                 "departureAirport": string,
                 "arrivalAirport": string,
                "flightNumber": string,
                                "commercialFamily": string,
                 "translation": {
                     "ru": string,
"en": string,
                     "zh": string
                }
        "moneyWallCoefficient": float
   },
"errors": [{
    "ibe(
            "ibeCode": integer,
            "description": string,
            "messages": [{
                     "code": string,
                     "text": string
                }
            ]
    "success": true
}
flightGroup object
  "flightGroupId": integer,
  "flights": [{
      "flightId": integer,
      "departureAirport": string,
      "departureTerminal": string,
      "arrivalAirport": string,
      "arrivalTerminal": string,
      "departureDateTime": datetime,
      "excludedNationalities": [
          string
      "arrivalDateTime": datetime,
      "aircraft": string,
      "aircraftIataCode": string,
      "techStops": [{
          "arrivalDateTime": datetime,
          "departureDateTime": datetime,
          "airportCode": string,
          "stopDuration": string,
          "flightDurationUntilNextStop": string
        }
      ],
```

Parameter		Description			
		Sign of query execution success.			
suc	cess	If errors array is empty, field value will be set to true			
dat	ta	Returned data			
currency		currency in which prices are represented			
m	oneyWallCoefficient	Coefficient for calculating the monthly installment payment			
flights		Array of flightGroup objects with information about flights			
fa	areFamilies	Array of objects with information about fare families			
	fareFamilyId	Fare family ID			
	_	Fare family code, for ex:			
	code	ECOLIGHTRU/ECOFLEXRU/ECOPREMRU etc.			
		Fare family category, for ex:			
	category	ECOLIGHT/ECOFLEX/ECOPREM			
		Possible values: see <u>Attachment 2, Main fare family categories</u>			
	order	Fare families display order			
		f\Fare family type for ex:			
	commercialFamily	U6ECONOMY or U6BUSINESS			
	isSubsidized	Sign of subsidised tariff			

Parameter		Description				
	canRefund	Sign of refundable tariff				
	hasUpsale	Sign indentifying whether present tariff can be upgraded to next one in price category. Used for management of Upsale block display in frontend.				
	options	Array of fareFamiliesOptions objects with information about tariff options. Possible values: see <u>Attachment 2, tariff options</u>				
fe	oodOnBoards	Array of objects with information about meals available on the flight				
	departureAirport	Airport of departure				
	arrivalAirport	Airport of arrival				
	flightNumber	Flight number				
	commercialFamily	Fare family type (different type of meals for economy and business can be available for one flight)				
	translation	Object with translation options				
	ru	Options translation to russian				
	en	Options translation to english				
	zh	Option translation chinese				
r	ecommendations	Array of recommendations objects for flights				
	totalPrice	Total ticket price including all applied discounts				
	totalAddCollectPrice	Amount to be paid in case of rebook				
	breakdowns	Array of tickets that are available for exchange				
	ticketNumber	Number of issued ticket				
	passengerReference	Reference to a passenger				
	рахТуре	Type of a passenger				
	baseFareAmount	Base price				
	taxAmount	Tariffs and fees				
	totalAmount	Full ticket price including tariffs and fees				

Parameter		rameter	Description		
AddCollectAmount		AddCollectAmount	Amount to be paid in case of rebook		
errors		rors	Information about errors appeared during query execution.		
	it	oeCode	Error code, see EN_Attachment 1. IBE error codes		
	description		Code description, see. EN_Attachment 1. IBE error codes		
	messages		Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode.		
		code	Sirena error code		
		text	Sirena error text		

flightGroup object

Contain information about flights

data.flights				
flightGroupId	Index number used in recommendations			
flightGroupDuration	Total flight time: summed up of duration values of each <u>transfer</u> and technical stop.			
hash	Service field			
flights	Array of objects with information about transfers			
flightId	Flight Id			
departureAirport	Airport of departure			
departureTerminal	Terminal in airport of departure			
arrivalAirport	Airport of arrival			
	Departure date and time			
departureDateTime	Format: yyyy-MM-ddTHH:mm:ss			
	Example: 2018-05-27T17:25:00			
	Arrival date and time			
arrivalDateTime	Format: yyyy-MM-ddTHH:mm:ss			
	Example: 2018-05-27T20:50:00			

da	data.flights				
		Full aircraft title			
	aircraft	For ex.: Airbus A320			
	aircraftIataCode	IATA aircraft code			
	flightDuration	Duration of flight			
	flightNumber	flight number			
		Marketing carrier			
	marketingCarrier	Example: U6, S7			
		Operating carrier (one actually performed flight)			
	operatingCarrier	Example: U6, OK			
	originalFlightReferenceNumber	A number of flight segment for exchanging by original booking			
	hash	service field			

Involuntary ticket refund service for agents using.

POST involuntaryRefund/moneyless method

API service	InvoluntaryRefund/moneyless
Short description	Let to process involuntary refund of tickets and services for agents
Supported HTTP(S)- methods	POST
Conterminous systems methods used	Sirena: Receiving booking information: order, pnr_status Refund initiation: svc_emd_refund_query, svc_emd_refund_confirm, payment-ext-auth Making changes to a booking: add_ssr, modify_pnr, divide_order

Description: agents method that let to process involuntary refund of tickets and services in PSS system without interaction with payment system of Airline.

Request format: /api/apiVersion/InvoluntaryRefund/Moneyless

Request parameters:

Parameter	Mandatory	Description	
pnrNumber	yes	Unique booking number (PNR).	
passengers	yes Array with information passengers whom needs process the involuntary moneyless refund		
isTicketRefund	yes	The sign that a ticket with services or only services is being refunded.	
partnerProducts	no	An array of partner services to be returned (the array parameters are similar to the apiVersion/partners/id response parameters)	

lastName	yes	Passenger's last name
passengerReferenceNumber	yes	Passenger reference. Associated with field data -> passengers -> referenceNumber
relatedAdultReferenceNumber	no	Reference to the adult passenger with whom the child or infant is flying. The parameter is filled for the child and infant
relatedInfantReferenceNumber	no	Reference to the infant with whom the adult is flying. The parameter is filled for the adult who flies with infant.
passengerType	yes	Passenger type. Possible types of passengers are presented in EN_8_1_Attachment: Dictionaries of passenger types.
services	no	An array with information about purchased and refundable additional services of the airline.
code	no	Returned additional service code.
ticketNumber	no	Ticket number of the returned additional service.

Response format and parameters are the same with POST api/refund/partial method response format and parameters.

Voluntary tickets and services refund service

API Service	refund, refund/calculate, refund/partial	
Short description	Allows to calculate refund sum and perform tickets and services refund and also get information about already performed refund.	
Поддерживаемые HTTP(S)-методы	POST, GET	
	Sirena:	
	Receive information about booking: order, pnr_status	
	Initiate refund: svc_emd_refund_query, svc_emd_refund_confirm, payment-ext-auth	
Используемые методы смежных систем	Making changes to a booking: add_ssr, modify_pnr, divide_order	
	CRM:	
	Create refund request: ServiceReqInsert_Input	
	BPC:	
	Registering an order for autorefund: bmmRefund	

POST refund/calculate method

Description: allows to receive breakdown of refund sums for each passenger.

Request format: /api/apiVersion/refund/calculate

Request parameters:

Parameter	Mandadtor y	Description	Comment s
pnrNumber	yes	PNR number, unique 6-digit booking identifier	
lastName	no	Passenger's last name	
passengers	yes	Array of passengers for which refund sums needs to be calculated	

	lastName	yes	Passenger's last name	
			Reference to passenger	
	passengerReferenceNumber	yes	Linked with data → passengers → reference Number	
	relatedAdultReferenceNumber	no	Reference to the adult passenger with whom the child or infant is flying.	
			The parameter is filled for the child and infant	
	relatedInfantReferenceNumbe	no	Reference to the infant with whom the adult is flying.	
	ľ	ПО	The parameter is filled for the adult who flies with infant.	
	luggageSeats	no	Array with information about luggage with separate air ticket and ssr CBBG.	In developing
	referenceNumber	yes	Ссылка на услугу, для которой оформлен отдельный авиабилет. Соотносится с полем в ответе GET Reservation data → luggageSeats → referenceNumber.	In developing
			Passenger type.	
	passengerType	yes	Possible values: see EN_8_1_Attachment: Dictionaries of passenger types	
is	InvoluntaryMoneyless	no	Indicates whether the calculation of refundable amounts is for performing POST api/InvoluntaryRefund/Moneyles s refund on ADP.	

Request examples

Refund for adult passenger

{

```
"pnrNumber": "1ZGDLS",
        "isInvoluntaryMoneyless": false,
    "passengers": [{
            "lastName": "CHEREPANOV",
            "passengerType": 0,
            "passengerReferenceNumber": "12",
            "luggageSeats": []
        }
    ]
}
Refund for adult and child
{
    "pnrNumber": "1ZGDWS",
    "passengers": [{
            "lastName": "BYKOV",
            "passengerType": 0,
            "passengerReferenceNumber": "12",
            "luggageSeats": []
        }, {
    "lastName": "BARABANOV",
            "passengerType": 5,
            "passengerReferenceNumber": "14",
            "luggageSeats": [],
            "relatedAdultReferenceNumber": "12"
        }
    ]
}
Response format
{
    "data": [{
             "passengerRefundDetails": [{
                     "hasInfant": boolean,
                     "passengerType": integer,
                     "referenceNumber": string,
                     "surname": string,
                     "ticketRefundDetails": {
                         "isInfantTicket": boolean,
                         "commissionAmount": integer,
                         "refundBonuses": integer,
                         "refundCurrency": integer,
                         "refundTotal": integer,
"taxDetailsInformation": [{
                                 "currencyCode": string,
```

```
"type": string
                                }
                            1
                        }
                    ],
"ticketNumber": string
                "serviceRefundDetails": [{
                        "code": string,
                        "text": string,
                        "commissionAmount": integer,
                        "refundBonuses": integer,
                        "refundCurrency": integer,
                        "refundTotal": integer,
                        "taxDetailsInformation": [{
                                "taxCategory": string,
                                "taxDetails": [{
                                        "rate": string,
                                        "currencyCode": string,
                                        "type": string
                                    }
                                ]
                            }
                        "ticketNumber": string
                    }
                "partnerProducts": [{
    "document": s
                        "document": string,
                        "refundAmount": integer,
                        "isRefundAmountUnknown": boolean,
                        "partnerId": integer,
                        "partnerType": integer,
                        "bookingStatus": integer,
                        "code": string,
                        "amount": integer,
                        "currency": string,
                        "passengerReference": string,
                        "flightReference": string,
                        "isInfantProduct": boolean,
                        "bookingId": string,
                        "orderId": string,
                        "compatibleProductCodes": [string]
                    }
                ]
            }
        ],
"refundWithTicketOnlyServices": [string]
    }
"description": string,
        "messages": [{
                "code": string,
                "text": string
```

Parameter	Description	Comments
success	Sign of query execution success.	
Success	If errors array is empty, field value will be set to true	
data	Returned data	
passengerRefundDetails	Array of objects with refund details information for each passenger.	
hasInfant	Flag identifying whether passenger travels with infant	
	Passenger type	
passengerType	Possible values: see EN_8_1_Attachment: Dictionaries of passenger types	
referenceNumber	Reference to passenger	
surname	Passenger's surname	
ticketRefundDetails	Array of objects with refund details information	
isInfantTicket	Flag identifying whether ticket is infant's document	
commissionAmount	Commission amount for refund	
refundBonuses	Number of refunded "Wings" bonuses	
refundCurrency	Number of refunded	
refundTotal	Total refund sum, sum of	

			refundBonuses and refundCurrency	
			ATC number	
	ticketNumber		Ticket number should contain 13 digits	
			Services information about tariffs and fees.	
			Important: Information from present segment can be ignored.	
			refundBonuses and refundCurrency values should be displayed to a user.	
			Tax category	
taxCategory		xCategory	For refundable taxes "R" is returned, for non-refundable taxes - "NRT".	
taxDetails		xDetails	Array of objects with information about tariffs and fees details.	
		rate	Tariff/fee sum	
		currencyCode	Currency code	
		type	Tariff/fee type	
			Array with information about CBBG luggage with separate air ticket to refund.	
luggageSeatsRefundDetails		SeatsRefundDetails	All array elements are the same with passengerRefundDetails array elements, the field "surname" has value "CBBG".	In developing
serviceRefundDetails		RefundDetails	Array of objects with service's refund information.	
			Service code	
code			Possible values: see EN_8_1_Attachment:	

			Dictionaries of services types
	text		Type of refundable pet when code="PETC".
	commissionAmount		Commission amount for refund of service.
	refund	Bonuses	Number of refunded "Wings" bonuses
	refund	Currency	Number of refunded roubles
	refund	Total	Total refund sum, sum of refundBonuses and refundCurrency
			EMD number
	ticketNumber		Ticket number should contain 13 digits
	taxDe	tailsInformation	Services information about tariffs and fees.
			Tax category.
	tax	Category	For refundable taxes "R" is returned, for non-refundable taxes - "NRT".
	tax	Details	Array of objects with information about tariffs and fees.
		rate	Tariff/fee sum
		currencyCode	Currency code
		type	Tariff/fee type
p	partnerProducts		Array of objects with partner's products refund information
	amount		Partner's service price
	bookingId		Unique partner's service order id
	bookingStatus		Partner's services order status
	code		Partner's service tariff code. See EN_8_3_Attachment: Partner's

			services.	
		currency	Currency code	
	document number.		Partner's service document number. For insurances - issued insurance policy number.	
		isInfantProduct	Flag identifying whether service is issued for an infant.	
		isRefundAmountUnknown	Flag identifying whether the amount for refund of partner product is unknown.	
		partnerId	Partner's id.	
		partnerType	Partner's type.	
		passengerReference	Reference to passenger for whom partner's service is being refunded	
		refundAmount	Refundable sum.	
		flightReference	Reference to the flight segment, if the partner product wasn't added for the entire flight.	
		orderId	Partner order id	
		compatibleProductCodes	Codes of services of the current partner, which are compatible with this service when purchased it	
	refui	ndWithTicketOnlyServices	Array with service codes that can't be refunded without refunding the ticket.	In developing
er	ibeCode		Information about errors appeared during query execution.	
			Error code, see EN_8_2_Attachment: IBE error codes	
	description		Code description, see. EN_8_2_Attachment: IBE error codes	

		Array of objects, containing errors from Sirena response.	
messages		Array can be empty, it is recommended to analyse errors by ibeCode.	
	code	Sirena error code	
	text	Sirena error text	

POST refund/partial method

Description: allows you to refund tickets for booking in the context of passengers.

Request format: /api/apiVersion/refund/partial

Request parameters:

Parameter	Mandadtory	Description	Comments
pnrNumber	yes	PNR number, unique 6-digit booking identifier	
passengers	yes	An array of passengers for which refund sums needs to be calculated	
isTicketRefund	yes	The sign that a ticket with services or only services is being returned	
partnerProducts	no	An array of partner services to be returned (the array parameters are similar to the GET api/Reservation response parameters)	
lastName	yes	Passenger's last name	
passengerReferenceNumber	yes	Passenger reference. Associated with field data -> passengers -> referenceNumber	
luggageSeats	no	Array with information	In

		about luggage with separate air ticket and ssr CBBG.	developing
passengerType	yes	Passenger type. Possible types of passengers are presented in EN_8_1_Attachment: Dictionaries of	
relatedAdultReferenceNumber	no	passenger types. Reference to the adult passenger with whom the child or infant is flying. The parameter is filled for the child and infant	
relatedInfantReferenceNumber	no	Reference to the infant with whom the adult is flying. The parameter is filled for the adult who flies with infant.	
services	no	An array with information about purchased and refundable additional services of the airline	
code	yes	Returned additional service code	
ticketNumber	yes	Ticket number of the returned additional service	

Response format: the same as the refund/calculate method, the crmRefundRequestId field is added with the number of the created request for a refund to CRM, if autorefund was unsuccessful.

Response parameters (short description):

Parameter	Description	Comments

S	success	Sign of query execution success. If errors array is empty, field value will be set	
		to true	
data		Returned data	
		Array with refund information	
	passengerRefundDetails	Full analogue of data in response of api/refund/calculate method	
	D (ID III	Refund request number in CRM.	
	crmRefundRequestId	Example: 1-46MJI9D.	
	refundWithTicketOnlyServices	Array with service codes that can't be refunded without refunding the ticket.	In developing
errors		Information about errors appeared during query execution.	

Requests examples

Example of requesting a full refund of a ticket with additional airline services and partner services

```
{
    "pnrNumber": "1ZGLB0",
"lastName": "KUZNETSOV",
    "passengers": [{
             "lastName": "KUZNETSOV",
             "passengerType": 0,
             "passengerReferenceNumber": "12",
             "luggageSeats": [],
             "isTicketRefund": true,
             "code": "SBERDOC"
                }, {
    "partnerId": 1,
    "partnerType": 1,
    "sakingId": "497
                     "bookingId": "49753312-18df-4ac0-a68e-7c15ea8fe8b8",
                     "code": "AVIADYNAMIC"
                 }
            ],
"services": [{
    "+icket
                      "ticketNumber": "2624500003235",
                     "code": "HTML"
                 }
```

```
]
        }
    ]
}
Example of request for refund of partner services without a ticket
{
    "pnrNumber": "1ZROML",
"lastName": "TESTOV",
    "passengers": [{
             "lastName": "TESTOV",
             "passengerType": 0,
             "passengerReferenceNumber": "12",
             "isTicketRefund": false,
             "partnerProducts": [{
                      "partnerId": 1,
                      "partnerType": 1,
                      "bookingId": "9940f823-4bb8-4c7c-a485-7341551c3285",
                      "code": "AVIADYNAMIC"
                  }
             ]
        }
    ]
}
An example of a request for a refund of additional airline services without a ticket
{
    "pnrNumber": "1ZRTVO",
    "lastName": "TESTOV",
    "passengers": [{
             "lastName": "TESTOV",
             "passengerType": 0,
             "passengerReferenceNumber": "12",
             "isTicketRefund": true,
             "partnerProducts": [],
             "services": [{
                       "ticketNumber": "2624552270079",
                      "code": "PETC"
                  }
             }
         ]
    }
```

Description of voluntary refund process

Voluntary refund is initiated by airline's client own will.

Short description of voluntary refund business process.

- 1. Client opens BMM (booking management module) using PNR number and passenger's last name.
- 2. Selects option "Make a return", pop-up window gets opened with information about passengers existing in booking.
- 3. Selects a Voluntary refund.
- 4. Selects passengers for whom refund is needed to be performed and clicks on "Calculate amount" (for refund).
- 5. api/refund/calculate method is called, refund details data is displayed to client (refund bonuses, sum, fines etc). Actual refund is not performed at this step.
- 6. Client selects "Confirm refund" option, api/refund/partial method is called.
- 7. The IBE service performs a refund of services and/or air tickets to the API of partners and Sirena.
- 8. The IBE service validates the possibility of registering an auto return order.
- 9. The IBE service registers an order for return (using a separate method for registering a return order in the PM. Registration is always on the original PNR for which the payment was made).
- 10. The PM checks the possibility of auto-refund for the current order: it requests a GET api/refund, validates the contents of the order and the amounts to be refunded.
- 11. The PM sends a refund request to the bank.
- 12. The PM sends the status of the request for a refund: Option A the order is accepted by the bank for return; Option B the order is not accepted for return, or an error has been received from the PM

13. Then option A:

- 1. The IBE service informs the user about a successfully completed refund request with information that the funds will be credited to the card within some time, depending on the bank
- 2. The PM fiscalizes the return receipt. The check is sent to the client.
- 3. When you re-enter the BMM, information is displayed that the order has been returned.

14. Then option B:

- 1. Realizing automatically annulling seats from the booking (the same process as annulling by POST api/Annul request).
- 2. The IBE service generates a request for a refund in CRM.
- 3. If the return fails, one of the possible error messages is displayed.
- 4. The IBE service informs the user about a successfully created refund request with information about the request number.
- 5. Within 30 days, the request in CRM is processed manually by the operator, and the amount to be returned is requested from the engine.
- 6. After financial refund operation is performed, confirmation is sent to IBE (information about refund completion is being recorded to DB).
- 7. Refund considered to be complete.

General technical information.

1. For each refund (initiated by api/refund method call) a record with unique refund session ID is created in DB.

- 2. 3 entities can be linked with refund session: a) tickets refund information entity, b) airline's services refund information entity c) partner's services refund information entity
- 3. Refund session can have several states. During refund process IBE transfers session from one state to another performing following operations:
 - 1. Initiated refund session is initiated;
 - 2. VatCalculated VAT information is calculated for refund;
 - 3. PartnerServicesCanceled partners services cancellation performed if it is necessary;
 - 4. PnrSplitted PNR is split into several parts (in case of partial refund);
 - 5. CrmRequestCreated Refund request is created in CRM;
 - 6. PnrCanceled PNR and tickets are cancelled (irreversible operation). In case of partial refund child PNR and its tickets gets cancelled.
 - 7. Manual Analysis an error appeared in voluntary refund process. See point 5.
- 4. Entities with information about tickets, airline's and partner's services also has several states:
 - 1. NotAvailable entity is not available for refund sum information retrieve;
 - 2. Available refund sum information can be retrieved for a ticket/service;
 - 3. Processed refund is confirmed;
 - 4. ManualProcessingRequired manual processing is required for this refund;
 - 5. Failed refund confirmation end with an error
- 5. Complete of the refund session to the final state

If an error appears during refund procedure and operation hangs in one of intermediate states (before PnrCanceled state) then special job periodically attempts to continue refund process.

If refund session does not transfer to terminal state, during allotted time, IBE logs an error and transfers session to ManualAnalysis state.

Error gets handled in Azure Insights and email notification is being sent for this event. Manual analysis of this situation is performed afterwards.

For retrieving of refund session information and refund confirmation GET refund/pnr and PUT refund/pnr methods of GOI is being used.

These methods are described in GOI documentation.

Failed request and response examples

Description	Request format	Response example
Lets consider that in 1ZGLL0 booking adult passenger (of type 0) is added and correct reference to passenger -	Request for point 1. { "pnrNumber": "1ZGLL0", "lastName": "TERENTEVA", "passengers": [{	{

```
"lastName":
12.
                        "text": "Some passenger
                                                          refund requested for
An error will appear in
                                                         doesn't exist in
                         Θ,
case of:
                                                          reservation"
                         "passengerReferenceNumber":
                         "14",
   1. Incorrect reference
      to passenger is
                         "isTicketRefund": true,
                                                          "text": "The
      passed.
                                      "luggageSeats":
                                                          reservation doesn't
   2. Incorrect type of
                         [],
                                                         have a ticket to refund
                                                         or the request has an
                                      "services": [],
      passenger is
                                                          infant ticket to
      passed.
                         "partnerProducts": []
                                                          refund"
                                                                           }
                             ]
                                                                       ]
                         }
                                                              ],
"success": false
                         Request for point 2.
                                                         }
                         {
                             "pnrNumber": "1ZGLL0",
"lastName": "TERENTEVA",
                             "passengers": [
                                      "lastName":
                         "TERENTEVA"
                                      "passengerType":
                         1,
                         "passengerReferenceNumber":
                         "12",
                         "isTicketRefund": true,
                                      "luggageSeats":
                         [],
                                      "services": [],
                         "partnerProducts": []
                             1
                         {
                                                         {
                             "pnrNumber": "1ZGDWS",
                                                              "errors": [
                             "lastName": "BYKOV",
                             "passengers": [
                                                                       "ibeCode":
Booking for 1 adult and 1
                                                         1062,
child
                                      "lastName":
                                                                       "messages":
                         "BYKOV",
                                                         It is not possible to
                                      "passengerType":
                                                                           {
perform refund only for
                         Θ,
                                                          "text": "Some passenger
adult passenger.
                         "passengerReferenceNumber":
                                                          refund requested for is
                         "12",
                                                         not adult or after
                                                          refund an infant will
```

GET refund method

Description: allows to receive information about already performed refund.

Request format: /api/refund

Request parameters:

Parameter	Description	Comments
pnrNumber	PNR number, unique 6-digit booking identifier	
lastName	Passenger's last name	
lastNameHash	Passenger last name hash	
ticketNumber Ticket number of passenger		In developing

Response format:

Parameter	Description	
	Sign of query execution success.	
success	If errors array is empty, field value will be set to true	
data	Returned data	
pnrNumber	PNR number, unique 6-digit booking identifier	
createdDate	Date and time in GMT of refund.	
crmRefundRequestId	Request ID in CRM.	
errors	Information about errors appeared during query execution.	
ibeCode	Error code, see EN_8_2_Attachment: IBE error codes	
description	Code description, see. EN_8_2_Attachment: IBE error codes	
messages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode	
code	Sirena error code	
text	Sirena error text	

Example of successful response:

Online check-in services api/checkin

Services for obtaining information about the status of registration and the possibility of registration

API service	Checkin, Checkin/reservation, Checkin/register, Checkin/cancel	
Short description	Allows you to check the possibility of online check-in from the BMM and if it is available to check-in.	
Supported HTTP(S)- methods	GET, POST	
Conterminous systems methods used	Sirena: order, pnr_status, view_flown_status, authorize, doSearchFltMulti, doLoadPnrMulti, doSavePax, doViewCraft, addProtLayer	

Метод GET Checkin

Description: allows you to get data about the possibility of registration and the current registration status.

Returns the start and end time of registration, as well as the time remaining before the start or end of registration.

Request format /api/apiVersion/checkin **Request parameters**

Parameter	Description	
lastName	Last name of one of the passengers added to the booking. The parameter is passed in Latin.	
pnrNumber	The PNR number to get information for	

```
}
    ],
"passengers": [
         "canRegister": boolean,
         "passengerReference": string,
         "flightReference": string,
                 "isBoardingPassAvailable": boolean,
         "ticketNumber": string,
"registered": boolean,
         "registrationUnavailableMessage": string,
         "registrationUnavailableCode": integer
       }
    ],
"passengerSeats": [
       {
         "seatCheckinStatus": string,
         "flightReference": string,
         "passengerReference": string,
         "title": string,
         "number": integer
       }
    ]
  }
],
"errors": [
  {
    "ibeCode": string,
     "description": string,
     "messages": [
       {
         "code": string,
"text": string,
         "additionalInfo": {
           "ssrType": string,
           "info": string
  }
"success": boolean
```

Parameter	Description
SHCOSS	Sign of query execution success. If errors array is empty, field value will be set to

}

		true
data		Information about online registration
se	egments	Array of flight segments
	canRegister	Sign web registration is available
	flightReference	Link to the flight segment
	webCheckinEndDate	Local end date of web registration
	webCheckinEndDateUtc	UTC end date of web registration
	webCheckinStartDate	Local Web registration start date
	webCheckinStartDateUtc	UTC start date of web registration
	webCheckinEndRemainingTime	The number of seconds until the end of the web registration. The parameter will not be returned if the value <=0
	webCheckinStartRemainingTime	The number of seconds before the start of the web registration. The parameter will not be returned if the value <=0
p	assengers	List of passengers
	canRegister	Sign of the possibility of registration
	passengerReference	Link to the passenger
	flightReference	Link to the flight segment
	isBoardingPassAvailable	Sign of the passenger's boarding pass availability
	ticketNumber	Passenger's ticket number for the segment
	registered	Sign the passenger is registered

	registrationUnavailableMessage	An array of objects containing errors from Sirena's response, why this passenger cannot be registered. The array may be empty, it is recommended to analyze the error by the registration Unavailable Code field.
	registrationUnavailableCode	The error code that makes registration impossible
p	assengerSeats	Passenger seats at check- in
	seatCheckinStatus	Registration status. Possible values in Attachment: Dictionary of description of statuses of seats on checkin
	flightReference	Link to the flight segment
	passengerReference	Link to the passenger
	title	Row seat
	number	Seat number
erro	ors	Information about errors that occurred during the operation of the service
il	peCode	Error code, see Attachment 1. IBE error codes
d	escription	Error description, see Attachment 1. IBE error codes
n	nessages	An array of objects containing errors from Sirena answer. The array may be empty, it is recommended to analyze the error by the ibeCode

	field.
code	Sirena error code
text	Sirena error text

Examples of successful responses

The answer is when the check-in is open and the passenger is not registered

```
{
    "data": {
         "segments": [
                  "canRegister": true,
"flightReference": "12",
                  "webCheckinEndDate": "2023-04-15T09:50:00",
                  "webCheckinEndDateUtc": "2023-04-15T04:50:00Z",
                  "webCheckinStartDate": "2023-04-13T11:50:00",
                  "webCheckinStartDateUtc": "2023-04-13T06:50:00Z",
                  "webCheckinEndRemainingTime": 48932
        ],
"passengers": [
                  "canRegister": true,
                  "passengerReference": "12",
                  "flightReference": "12",
                  "ticketNumber": "2622400030362",
                  "registered": false
         ],
"passengerSeats": []
    },
"errors": [],
"success": true
}
```

Response when registration is completed

```
{
                 "canRegister": true,
                 "passengerReference": "12",
                 "flightReference": "12",
                 "ticketNumber": "2622400030311",
                 "registered": true
             }
        ],
"passengerSeats": [
                 "seatCheckinStatus": 4,
"flightReference": "12",
                 "passengerReference": "12",
                 "title": "C",
                 "number": 19
         ]
    "errors": [],
    "success": true
}
Answer when registration is not open yet:
{
    "data": {
         "segments": [
                 "canRegister": false,
                 "flightReference": "12"
        ],
"passengers": [
                 "canRegister": false,
"passengerReference": "12",
                 "flightReference": "12",
                 "ticketNumber": "2622400030358",
                 "registered": false,
                 "registrationUnavailableMessage": "No requested flight in
reservation",
                 "registrationUnavailableCode": 401161
         ]
    "success": true
}
Response when check-in is only available at the airport:
{
    "data": {
         "segments": [
```

```
{
                                     "canRegister": false,
                   "flightReference": "12",
"webCheckinEndDate": "2024-12-03T05:50:00",
                   "webCheckinEndDateUtc": "2024-12-02T19:50:00Z", "webCheckinStartDate": "2024-12-02T07:50:00",
                   "webCheckinStartDateUtc": "2024-12-01T21:50:00Z",
                   "webCheckinEndRemainingTime": 38437
              }
         ],
"passengers": [
                   "canRegister": false,
"passengerReference": "12",
                   "flightReference": "12",
                   "ticketNumber": "2622400119239",
                   "registered": false,
                   "registrationUnavailableMessage": "Web registration is not
available.",
                   "registrationUnavailableCode": 401033,
                   "isBoardingPassAvailable": false
         "errors": [],
     "success": true
}
```

GET Seatmap/checkin method

Description: allows you to get a map of places for online registration

Request format /api/apiVersion/Seatmap/checkin

Request example

api/apiVersion/seatmap/checkin?referenceNumber=1&origin=LED&destination=DME&departureDate=20220723&flightNumber=80&classOfService=E&commercialFamily=U6ECONOMY

Request parameters

Information about flight for which seatmap is needed

Parameter	Mandatory	Description
referenceNumber	Yes	Reference to flight segment
origin	No	Origin airport
destination	No	Destination airport
departureDate	No	Date and time of departure

flightNumber	No	Flight number
classOfService	No	Information about selected tariff
commercialFamily	No	Fare family type, for instance: U6ECONOMY or U6BUSINESS
currency	No	Currency in which search results will be returned

```
"data": {
  "compartmentDetails": [
       "number": integer,
       "seats": [
         {
           "seat": string,
           "number": integer,
           "description": string,
           "characteristics": [
             string
           ],
"occupation": string,
"passengerRelatedPrice": [
                "name": string,
                "type": string,
                "uniqueCustomerIdentifier": string,
                "seatPrice": double,
                "isSeatUnavailable": boolean,
                "hasInfant": boolean,
"autoSeating": boolean
             }
           ],
"classDesignator": string
    }
  ],
"isEmpty": boolean,
  "passengersTotalData": [
       "passengerReference": string,
       "passengerPriceLevels": [
           "price": double,
           "priceLevel": integer
         }
       ]
```

```
}
  ], "passengerSeats": [
      "seatCheckinStatus": string,
      "flightReference": string,
      "passengerReference": string,
      "title": string,
      "number": integer
    }
  ],
"preselectedSeats": [
      "flightReference": string,
      "passengerReference": string,
      "title": string,
      "number": integer
},
"errors": [
  {
    "ibeCode": string,
    "description": string,
    "messages": [
      {
        "code": string,
        "text": string,
        "additionalInfo": {
           "ssrType": string,
           "info": string
      }
    ]
  }
],
"success": boolean
```

Parameter	Description
	Sign of query execution success.
success	If errors array is empty, field value will be set to true
data	Returned data
:-F4	Flag identifying whether data is returned from sirena
isEmpty	This field can be used to determine possibility of selecting

	seats on present flight segment	
compartmentDetails	Array of objects with information about seats grouped by rows	
number	Row number	
seats	Array of objects which contains detailed information about seats	
seat	Seat. Possible values: A-F	
number	Row number for seat	
	Seat description	
description	9 – central seat	
description	A – aisle seat	
	W – window seat	
characteristics	Seat characteristics. The main characteristics are listed in the Appendix: Reference books	
occupation	Sign of seat's occupation	
passengerRelatedPrice	Array of objects with information about seat prices for. Only available for seats with CH characteristics.	
name	Passenger name	
type	Passenger type	
uniqueCustomerIdentifier	Unique passenger ID	
seatPrice	seat price	
isSeatUnavailable	Seat availability flag	
hasInfant	Flag identifying that passenger travels with infant	
autoSeating	Flag of a free place for auto-seating	
classDesignator	Information about seat class. Possible values: ECONOMY BUSINESS	
passengersTotalData	An array of objects with information about the cost of sea in the context of passengers	
passengerReference	Passenger reference	
passengerPriceLevels	An array of objects of the cost of seats available to the passenger	

price		Seat cost
priceLevel		Seat value category
passengerSeat	S	Array of places to register
seatCheckins	Status	The status of the place on registration
flightReferer	ice	Link to the flight segment
passengerRe	ference	Link to the passenger
title		Row seat
number		Seat number
preselectedSea	ats	Pre-selection of seats
flightReferer	ıce	Link to the flight segment
passengerRe	ference	Link to the passenger
title		Row seat
number		Seat number
errors		Information about errors appeared during query execution.
ibeCode		IBE error code
description		IBE error description
messages		Array of objects, containing conterminous system's errors Array might be empty. It is recommended to analyze ibeCode field.
code		Sirena error code
text		Sirena error text

POST Checkin/reservation method

Description: The method allows you to reserve a place for online registration

Request format /api/apiVersion/checkin/reservation

```
"flightReference": string
}
],
"boardingPassEmail": string
}
```

Request parameters

Parameter	Description
seats	Array with information about reserved seats
number	Seat number
title	Row seat
passengerReference	Link to the passenger
flightReference	Link to the flight segment
Incarding Pacch mail	E-mail for sending boarding pass after registration. Optional parameter.

Request example

Parameter		Description
succ	ress	Sign of the success of the request. If the errors array is empty, then the field value will be true
data	1	The data returned by the request
I	passengers	Список пассажиров
	passengerReference	Link to the passenger
	flightReference	Link to the flight segment
	number	Seat number
	title	Row seat
	reserveFree	The sign of a free place at registration
errors		Information about errors that occurred during the operation of the service
j	ibeCode	Error code, see Attachment 1. IBE error codes
(description	Error description, see Attachment 1. IBE error codes
1	messages	An array of objects containing errors from Sirena answer. The array may be empty, it is

		recommended to analyze the error by the ibeCode field	
	code	Sirena error code	
	text	Sirena error text	

Response example

POST Checkin/register method

Description: The method will allow you to register a passenger for a free seat

Request format /api/apiVersion/checkin/register

Request format

Request parameters

	Parameter	Description
references		Array with information about registered passengers and flight segments.
	passengerReference	Link to the passenger

flightReference

Link to the flight segment

Request example

```
{
    "references": [{
             "passengerReference": 12,
             "flightReference": 12
        }
    ]
}
Тело ответа
  "data": {
    "flights": [
      {
        "pnrNumber": string,
        "aircraft": string,
        "aircraftIataCode": string,
        "referenceNumber": string,
        "origin": string,
        "destination": string,
        "departureDate": datetime,
        "arrivalDateUtc": datetime,
        "departureDateUtc": datetime,
        "arrivalDate": datetime,
        "flightNumber": string,
        "classOfService": string,
        "commercialFamily": string,
"operatingCarrier": string,
        "marketingCarrier": string,
        "codeshareName": string,
        "flightDuration": string,
        "stopDuration": string,
        "techStops": [
          {
             "arrivalDateTime": datetime,
             "departureDateTime": datetime,
             "airportCode": string,
             "stopDuration": string,
             "flightDurationUntilNextStop": string
          }
        ],
"flightDurationUntilNextStop": string,
        "arrivalTerminal": string,
        "departureTerminal": string,
        "hash": string,
        "statuses": [
          string
        "isCancelledByAirline": true
      }
```

```
],
"passengers": [
     {
       "flightReference": string,
       "passengerReference": string,
       "number": integer,
       "title": string,
       "emd": string,
       "registered": boolean
     }
  ],
"passengersErrors": [
     {
       "flightReference": string, "referenceNumber": string,
       "code": integer,
"text": string
     }
},
"errors": [
  {
     "ibeCode": string,
     "description": string,
     "messages": [
       {
         "code": string,
         "text": string,
         "additionalInfo": {
            "ssrType": string,
            "info": string
       }
     ]
  }
],
"success": boolean
```

Pa	arameter	Description
success		Sign of the success of the request. If the errors array is empty, then the field value will be true
data		Информация об онлайн- регистрации на место
	flights	Online check-in information

pnrNumber	Unique Booking Number (PNR).
aircraft	Aircraft
aircraftIataCode	IATA aircraft code
referenceNumber	Link to the current flight segment
origin	Departure airport for the current segment
destination	Arrival airport for the current segment
departureDate	Departure date and time for the current segment
arrivalDateUtc	Arrival date and time for the current segment in UTC
departureDateUtc	Departure date and time for the current segment in UTC
arrivalDate	Date and time of arrival for the current segment
flightNumber	Flight number
classOfService	Information about the selected tariff
commercialFamily	Type of tariff family
operatingCarrier	The airline actually performing the flight
marketingCarrier	Marketing Airline
codeshareName	Code name
flightDuration	Duration of the flight
stopDuration	Duration of the stop
techStops	Array with information about technical stops
flightDurationUntilNextStop	Duration of the flight to the next stop
arrivalTerminal	Terminal number at the point of arrival

departureTermina	Terminal number at the point of departure
hash	Unique hash of the flight
statuses	Segment status
isCancelledByAir	Indication of flight cancellation by the airline
passengers	List of passenger seats
flightReference	Link to the flight segment
passengerReferen	Link to the passenger
number	Seat number
title	Row number
emd	Electronic document confirming the release of the place service
registered	Sign of registration
passengersErrors	Array of registration errors
flightReference	Link to the flight segment
referenceNumber	Link to the passenger
code	Error code
text	Error text
errors	Information about errors that occurred during the operation of the service
ibeCode	Error code, see Attachment 1. IBE error codes
description	Error description, see Attachment 1. IBE error codes
messages	An array of objects containing errors from Sirena answer. The array may be empty, it is recommended to analyze the error by the ibeCode field

code	Sirena error code
text	Sirena error text

Response example

```
{
    "data": {
        "flights": [
                 "pnrNumber": "217MSL",
                 "aircraft": "Airbus A319",
                 "aircraftIataCode": "319",
                 "referenceNumber": "12",
                 "origin": "SVX",
                 "destination": "DME",
                 "departureDate": "2023-04-18T06:50:00",
                 "arrivalDateUtc": "2023-04-18T04:15:00Z",
                 "departureDateUtc": "2023-04-18T01:50:00Z",
                 "arrivalDate": "2023-04-18T07:15:00",
                 "flightNumber": "264", "classOfService": "A",
                 "commercialFamily": "U6ECONOMY",
                 "operatingCarrier": "U6",
                 "marketingCarrier": "U6"
                 "flightDuration": "2:25",
                 "techStops": [],
                 "hash": "2023-04-18 06:50:00-264-SVX-DME",
                 "statuses": [
                     "HK"
                 ],
"isCancelledByAirline": false
             }
        ],
"passengers": [
                 "flightReference": "12",
                 "passengerReference": "12",
                 "number": 24,
"title": "A",
                 "registered": true
        ],
"passengersErrors": []
    "success": true
}
```

Example of a response in case of an error in registration

```
{
    "data": {
        "flights": [
```

```
{
             "pnrNumber": "217D9K",
             "aircraft": "Airbus A319",
             "aircraftIataCode": "319",
"referenceNumber": "12",
             "origin": "SVX",
"destination": "DME",
             "departureDate": "2023-04-18T06:50:00",
             "arrivalDateUtc": "2023-04-18T04:15:00Z"
             "departureDateUtc": "2023-04-18T01:50:00Z",
             "arrivalDate": "2023-04-18T07:15:00", "flightNumber": "264",
             "classOfService": "A"
             "commercialFamily": "U6ECONOMY",
             "operatingCarrier": "U6",
             "marketingCarrier": "U6"
             "flightDuration": "2:25",
             "techStops": [],
             "hash": "2023-04-18 06:50:00-264-SVX-DME",
             "statuses": [
                  "HK"
             ],
"isCancelledByAirline": false
         }
    ],
"passengers": [],
    "passengersErrors": [
             "flightReference": "12",
             "referenceNumber": "12",
             "code": 401166,
             "text": "Passenger seat not reserved."
        }
    1
"errors": [],
"success": true
```

POST Checkin/cancel method

Description: The method allows you to cancel free passenger registration

Note: After the registration is removed, it is possible to register for another place

Request format /api/apiVersion/checkin/cancel

```
Request body
```

```
{
    "references": [{
          "passengerReference": string,
```

```
"flightReference": string
}
]
```

Request parameters

	Parameter	Description
ref	erences	Array with information about references to passengers for whom need to cancel registration and flight segments.
	passengerReference	Link to the passenger
	flightReference	Link to the flight segment

Request example

Response body

```
"data": {
  "flights": [
    {
       "pnrNumber": string,
       "aircraft": string,
       "aircraftIataCode": string,
       "referenceNumber": string,
       "origin": string,
       "destination": string,
       "departureDate": datetime,
       "arrivalDateUtc": datetime,
       "departureDateUtc": datetime,
       "arrivalDate": datetime,
       "flightNumber": string,
       "classOfService": string,
       "commercialFamily": string,
"operatingCarrier": string,
"marketingCarrier": string,
       "codeshareName": string,
       "flightDuration": string,
       "stopDuration": string,
       "techStops": [
```

```
{
            "arrivalDateTime": datetime,
            "departureDateTime": datetime,
           "airportCode": string,
"stopDuration": string,
            "flightDurationUntilNextStop": string
         }
       ],
"flightDurationUntilNextStop": string,
       "departureTerminal": string,
       "hash": string,
       "statuses": [
         string
       "isCancelledByAirline": true
     }
  ],
"passengers": [
     {
       "flightReference": string,
       "passengerReference": string,
       "number": integer,
"title": string,
"emd": string,
       "registered": boolean
     }
  ],
"passengersErrors": [
     {
       "flightReference": string,
       "referenceNumber": string,
       "code": integer,
       "text": string
     }
  ]
},
"errors": [
  {
     "ibeCode": string,
     "description": string,
     "messages": [
       {
         "code": string,
         "text": string,
         "additionalInfo": {
            "ssrType": string,
            "info": string
         }
       }
    ]
  }
"success": boolean
```

Para	neter	Description
succe	SS	Sign of the success of the request. If the errors array is empty, then the field value will be true
data		Информация об онлайн- регистрации на место
fli	ghts	Online check-in information
	pnrNumber	Unique Booking Number (PNR).
	aircraft	Aircraft
	aircraftIataCode	IATA aircraft code
	referenceNumber	Link to the current flight segment
	origin	Departure airport for the current segment
	destination	Arrival airport for the current segment
	departureDate	Departure date and time for the current segment
	arrivalDateUtc	Arrival date and time for the current segment in UTC
	departureDateUtc	Departure date and time for the current segment in UTC
	arrivalDate	Date and time of arrival for the current segment
	flightNumber	Flight number
	classOfService	Information about the selected tariff
	commercialFamily	Type of tariff family
	operatingCarrier	The airline actually performing the flight

	marketingCarrier	Marketing Airline	
	codeshareName	Code name	
	flightDuration	Duration of the flight	
	stopDuration	Duration of the stop	
	techStops	Array with information about technical stops	
	flightDurationUntilNextStop	Duration of the flight to the next stop	
	arrivalTerminal	Terminal number at the point of arrival	
	departureTerminal	Terminal number at the point of departure	
	hash	Unique hash of the flight	
	statuses	Segment status	
	isCancelledByAirline	Indication of flight cancellation by the airline	
pa	assengers	List of passenger seats	
	flightReference	Link to the flight segment	
	passengerReference	Link to the passenger	
	number	Seat number	
	title	Row number	
	emd	Electronic document confirming the release of the place service	
	registered	Sign of registration	
pa	assengersErrors	Array of registration errors	
	flightReference	Link to the flight segment	
	referenceNumber	Link to the passenger	
	code	Error code	
	text	Error text	
errors		Information about errors that occurred during the	

	operation of the service
ibeCode	Error code, see Attachment 1. IBE error codes
description	Error description, see Attachment 1. IBE error codes
messages	An array of objects containing errors from Sirena answer. The array may be empty, it is recommended to analyze the error by the ibeCode field
code	Sirena error code
text	Sirena error text

Response example

```
{
     "data": {
          "flights": [
                    "aircraft": "Airbus A319",
"aircraftIataCode": "319",
                     "referenceNumber": "12",
                     "origin": "SVX",
"destination": "DME",
                     "departureDate": "2023-04-18T06:50:00",
"arrivalDateUtc": "2023-04-18T04:15:00Z",
                     "departureDateUtc": "2023-04-18T01:50:00Z",
                     "arrivalDate": "2023-04-18T07:15:00",
                     "flightNumber": "264", "classOfService": "A",
                     "commercialFamily": "U6ECONOMY",
                    "operatingCarrier": "U6", "marketingCarrier": "U6",
                    "flightDuration": "2:25",
                    "techStops": [],
                     "hash": "2023-04-18 06:50:00-264-SVX-DME",
                     "statuses": [
                          "HK"
                    ],
"isCancelledByAirline": false
          ],
"passengers": [
                     "flightReference": "12",
                     "passengerReference": "12",
                    "registered": false
```

```
}
    ],
    "passengersErrors": []
},
    "errors": [],
    "success": true
}
```

Change passenger's data service

API service	passenger
Short description	Allows to change passenger's data in booking
Supported HTTP(S)-methods	PUT
Conterminous systems methods used	Sirena: modify

PUT passenger method

Description: allows to change passenger's personal data in booking

Implemented logic:

- 1. The fields "Sex", "Birth date", "Document number" it isn't allowed to change.
- 2. The fields "Last name", "Name", "Middle name", "E-mail" and "Phone" it is allowed to change one time.

A limit for changing is 3 symbols in total by 3 fields ("Last name", "Name", "Middle name").

Update in logic implementation for version 2.3

- 1. The fields "Last name", "Name", "Middle name", "E-mail" and "Phone" are allowed to be changed once for each passenger.
- 2. The fields "Sex", "Birth date", "Document number", "Validity" (for international flights) are allowed to be changed once for each passenger.

The data change limit is 3 characters by the sum of the fields "Last name" + "Name" + "Middle name".

The data change limit is 3 characters by the sum of the fields "Birth date" + "Document number" + "Validity" (for international flights).

Request format: /api/apiVersion/passenger

Request parameters

Parameter	Mandatory	Description
referenceNumber	yes	Reference to passenger
passengerType	yes	Passenger's type

surname	no	Last name
firstName	no	First name
middleName	no	Middle name
email	no	Email
phone	no	Phone
nationality	no	Nationality
sex	no	Sex
birthDate	no	Date of birth
isEmailPayment	yes	Tag for generating payment link sent to user's email
documentNumber	no	Document number
documentExpiryDate	no	The validity period of the document
callbackUrl	no	Url for retrieve payment status
engine	no	engine for BMM
lang	no	Interface language for the BPC payment form. Possible values: • ru - Russian; • en - English; • cn - Chinese.
redirectLang	no	Redirection language to BMM after payment. Possible values: • ru - Russian; • en - English; • zh - Chinese; • uz - Uzbek; • ky - Kyrgyz; • fr - French.
returnUrl	no	Return address after payment.

Response format

Parameter		Description
success		Sign of query execution success.
		If errors array is empty, field value will be set to true
•	data	Returned data
	orderId	Order ID
	paymentFormURL	Payment link
		Format: https://web.rbsuat.com/amadeuspsp/static/payment/payment.htm https://web.rbsuat.com/amadeuspsp/static/payment/payment.htm https://web.rbsuat.com/amadeuspsp/static/payment/payment.htm https://web.rbsuat.com/amadeuspsp/static/payment/payment.htm
		?orderId= <order_id></order_id>
		&hash= <hash></hash>
		&systemId= <system_id></system_id>
		&language= <language></language>
errors		Information about errors appeared during query execution.
	ibeCode	Error code, see EN_Attachment 1. IBE error codes
	description	Code description, see. EN_Attachment 1. IBE error codes
	messages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode.

		code	Sirena error code
text Sirena error text		Sirena error text	

Request and response examples

Description	Request example	Response example
Mandatory parameter r eferenceNu mber is not passed	{ "surname": "Test" }	<pre>{ "errors": [</pre>
Invalid value of passengerT ype is passed	{ "referenceNum ber": 2, "passengerTyp e": 1 }	<pre>{ "errors": [</pre>
Valid request	Passenger in booking { "id": 12, "hasInfant": false, "referenceNum ber": "12", "firstName":	<pre>{ "data": { "orderId": "0c42e8e6-5f91-4e04-b4d6- 347d840014fa", "paymentFormURL": "https://web.rbsuat.com/amadeuspsp/static/payment/ payment.html?orderId=0c42e8e6-5f91-4e04-b4d6- 347d840014fa&systemId=mainwebst&language=ru&hash=6 61a02522e176c52d97d7e6436a44b3115ea8ea1bfc9ca3e107 88780d1feaf09" }, "errors": [], "success": true</pre>

```
"ANTON",
                }
"middleName":
"ANDREEVICH",
"surname":
"SAVIN",
"passengerTyp
e": 0,
"birthDate":
"1999-10-
25T00:00:00",
    "sex": 0,
"nationality"
: "RUS",
"documentNumb
er":"44441112
22",
"documentExpi
ryDate":
"2049-12-
31T00:00:00",
"email":
"S0BAKA010101
@MAIL.RU",
    "phone":
"79531568787"
"documentType
": 0,
"isAdult":
true,
"isChanged":
false
}
Request
{
"referenceNum
ber": "12",
"passengerTyp
e": 0,
"documentNumb
er":
```

Contact info add service Reservation/AddContactInfo (for agents)

API service	Reservation/AddContactInfo
Short description	Allow to add contact info to a passenger or without a reference
Supported HTTP(S)-methods	POST
Conterminous systems methods used	Sirena: modify_pnr

POST Reservation/AddContactInfo method

Description: Allow to add email or phone number to a passenger or add contact info without reference certain passenger

You can see added contact info in the response of GET Reservation/Advanced response

Request format: /api/apiVersion/Reservation/AddContactInfo

Request parameters

P	arameter	Description
re	servationNumber	PNR of reservation
sı	ırname	Passenger's surname
contactInfo		Array with contact info
	email	Email
	phoneNumber	Phone number
	passengerReference	Reference to a passenger (optional)

Reponse format

```
"success": boolean
}
```

Response parameters

Parameter Description		Description	
success			Sign of query execution success.
		ess	If errors array is empty, field value will be set to true
errors		rs	Information about errors appeared during query execution.
	ib	eCode	Error code, see EN_Attachment 1. IBE error codes
	de	escription	Code description, see. EN_Attachment 1. IBE error codes
	m	essages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode.
		code	Sirena error code
		text	Sirena error text

Service for retrieving SSR and remarks information /api/version/Reservation/Advanced (for agents)

API service	/Reservation/Advanced
Short description	Allows you to get all SSRs and remarks (with the RM type) that are in the booking in order to view them, as well as to put the reservations with the necessary remarks in the queue, and remove the reservations with the remarks that are not interesting for the agent from the queue
Supported HTTP(S)-methods	GET
Conterminous systems methods used	Sirena: order, pnr_status

GET api/reservation/Advanced

Note: method is available on ADP

Description: gets information about partner services in reservation

Request format: api/apiVersion/Reservation/Advanced

Request header

X-Api-Key - unique GUID of system using IBE API.

Request paramaters description

Параметр	Описание
PnrNumber	Reservation number.
TicketNumber	Ticket number, if one is used instead of PNR number, to retrieve reservation.
LastName	Passenger last name.
LastNameHash	Passenger last name hash.

Response parameters

```
"type": "string",
    "text": "string"
    "referenceNumber": "string",
    "passengerReferences": [
      "string"
    "flightReferences": [
      "string"
  }
],
"specialServiceRequests": [
  {
    "code": "string",
    "status": "string",
    "text": "string",
    "referenceNumber": "string",
    "passengerReferences": [
      "string"
    "flightReferences": [
      "string"
  }
],
"contacts": [
  {
    "email": "string",
    "phoneNumber": "string",
    "passengerReference": "string"
  }
],
"tickets": [
  {
    "number": "string",
    "passengerReference": "string",
    "flightReferences": [
     "string"
    ],
"isInfantTicket": "true",
    "isIssuedByRefundableOffice": "bool",
    "issueDate": "datetime"
  }
"fareFamilyId": "integer",
  "code": "string",
  "shortCode": "string",
  "category": "string",
  "isSubsidized": "bool",
  "options": [
    {
      "code": "string",
      "category": "string",
      "order": "integer",
      "showInPopup": "bool"
      "showInSummary": "bool",
```

```
"showInUpsell": "bool",
       "showInFareIncluded": "bool",
       "showForAdult": "bool",
"showForInfant": "bool",
       "showInBookingCart": "bool"
    }
  "order": "integer",
"commercialFamily": "string",
  "canRefund": "bool",
  "hasUpsale": "bool"
  "isLowCost": "bool"
"fareFamilyId": "integer",
  "code": "string",
  "shortCode": "string",
"category": "string",
  "isSubsidized": "bool",
  "options": [
    {
       "code": "string",
       "category": "string",
       "order": "integer",
       "showInPopup": "bool"
       "showInSummary": "bool",
       "showInUpsell": "bool",
       "showInFareIncluded": "bool",
       "showForAdult": "bool",
       "showForInfant": "bool"
       "showInBookingCart": "bool"
    }
     "separateFareFamily": {
  "fareFamilyId": "integer",
  "code": "string",
  "shortCode": "string",
  "category": "string"
  "isSubsidized": "bool",
  "options": [
    {
       "code": "string",
       "category": "string",
       "order": "integer",
       "showInPopup": "bool"
      "showInSummary": "bool",
"showInUpsell": "bool",
      "showInFareIncluded": "bool",
       "showForAdult": "bool",
       "showForInfant": "bool",
       "showInBookingCart": "bool"
    }
  "order": "integer",
"commercialFamily": "string",
  "canRefund": "bool",
  "hasUpsale": "bool",
```

```
"isLowCost": "bool"
},
"tsmData": [
  {
    "passengerReference": "string",
    "price": "integer",
    "referenceType": "string",
    "referenceNumber": "string"
  }
],
    "outboundBonus": {
    "bonus": "string"
    "replacedBonus": "string"
"returnBonus": {
    "bonus": "string",
    "replacedBonus": "string"
"appliedDiscounts": [
  {
    "flightReference": "string",
    "amount": "integer",
    "discountAmount": "integer",
    "id": "string",
    "type": "string",
    "passengerReference": "string",
    "serviceCode": "string",
    "promoNumber": "string",
    "serviceReference": "string",
    "usageType": "string",
    "promotionType": "string"
  }
],
"baseFarePrices": [
    "currency": "string",
    "passengerReference": "string",
    "flightReferences": [
      "string"
    "isInfantFare": "bool",
    "totalPrice": "integer",
    "basePrice": "integer",
            "separatePrice": "integer",
    "outboundPrice": "integer",
"returnPrice": "integer",
    "outboundDiscount": "integer",
    "returnDiscount": "integer",
    "priceHidden": "bool",
    "taxDetailsInformation": [
        "taxCategory": "string",
        "taxDetails": [
            "rate": "string",
```

```
"currencyCode": "string",
             "type": "string"
          }
        ]
      }
    1
  }
"spentBonusesByPassengers": [
    "amount": "integer",
"commissionAmount": "integer",
    "passengerReference": "string"
  }
],
"appliedCertificates": [
    "amount": "integer",
    "number": "string"
  }
],
"fareBasisCodesFlightRefs": [
  {
    "fareBasis": "string",
    "flightReferenceNumber": "string",
    "passengerReferenceNumber": "string",
            "expirationUtc": "datetime"
  }
],
"familyTrip": "bool",
"figeTd": "st
"originOfficeId": "string",
"originOfficeType": "string"
"isPayForbiddenForAgency": "bool",
"foodOnBoards": [
  {
    "flightNumber": "string",
    "departureAirport": "string",
    "arrivalAirport": "string",
    "commercialFamily": "string",
    "translations": {
      "additionalProp1": "string",
      "additionalProp2": "string",
      "additionalProp3": "string"
    "en": "string"
    "zh": "string"
  }
"reservationRetrieveStatus": "string",
"ticketCouponStatuses": [
  {
    "ticketNumber": "string",
    "couponStatuses": {
      "additionalProp1": "string",
      "additionalProp2": "string"
      "additionalProp3": "string"
```

```
"additionalProp1": "string",
       "additionalProp2": "string"
       "additionalProp3": "string"
  }
"engineType": "string",
"isGroupReservation": "bool",
"isCompanyGroupReservation": "bool",
"isReceiptAvailable": "bool",
"isInvoluntaryRefundAvailable": "bool",
"isVoluntaryRefundAvailable": "bool",
"informationalServices": [
    "code": "string",
    "status": "string",
"text": "string",
    "petType": "string"
    "category": "string",
    "fareAmount": integer,
"passengerQualifier": "string",
    "passengerReference": "string",
    "flightReference": "string",
"referenceNumber": "string",
    "packReferenceNumber": "string",
    "ticketNumber": "string",
    "finalPrice": integer,
    "price": integer,
    "discountAmount": integer,
    "amadeusErrorCode": "string",
    "amadeusErrorMessage": "string",
    "internalError": "string",
    "internalErrorMessage": "string",
    "issueDate": "datetime",
    "issuedByThirdPartyOffice": "bool",
    "isIssuedByRefundableOffice": "bool",
    "serviceDuration": integer,
    "expireDateUtc": "datetime"
  }
"outboundFlights": [
      "aircraft": "string",
"aircraftIataCode": "string",
      "referenceNumber": "string",
       "origin": "string",
       "destination": "string",
       "departureDate": "datetime",
      "arrivalDateUtc": "datetime"
       "departureDateUtc": "datetime",
       "arrivalDate": "datetime",
       "flightNumber": "string",
       "classOfService": "string"
       "commercialFamily": "string",
```

```
"operatingCarrier": "string",
    "marketingCarrier": "string",
    "codeshareName": "string",
    "flightDuration": "string",
    "stopDuration": "string",
    "techStops": [
      {
         "arrivalDateTime": "datetime",
         "departureDateTime": "datetime",
         "airportCode": "string",
         "stopDuration": "string"
         "flightDurationUntilNextStop": "string"
    ],
"flightDurationUntilNextStop": "string",
"string",
    "arrivalTerminal": "string",
    "departureTerminal": "string",
    "hash": "string",
    "statuses": [
      "string"
    "isCancelledByAirline": "bool",
     "isCheckinWithoutPseudo": "bool"
  }
],
"returnFlights": [
    "aircraft": "string",
    "aircraftIataCode": "string",
    "referenceNumber": "string",
    "origin": "string",
    "destination": "string",
    "departureDate": "datetime",
    "arrivalDateUtc": "datetime"
    "departureDateUtc": "datetime",
    "arrivalDate": "datetime",
    "flightNumber": "string",
    "classOfService": "string",
"commercialFamily": "string",
"operatingCarrier": "string",
    "marketingCarrier": "string",
    "codeshareName": "string",
    "flightDuration": "string",
    "stopDuration": "string",
    "techStops": [
         "arrivalDateTime": "datetime",
         "departureDateTime": "datetime",
         "airportCode": "string",
         "stopDuration": "string"
         "flightDurationUntilNextStop": "string"
      }
    "flightDurationUntilNextStop": "string",
    "arrivalTerminal": "string",
    "departureTerminal": "string",
    "hash": "string",
```

```
"statuses": [
      "string"
    ],
"isCancelledByAirline": "bool",
"bool": "bool": "boo
     "isCheckinWithoutPseudo": "bool"
  }
],
   "separateFlights": [
    "aircraft": "string"
    "aircraftIataCode": "string",
"referenceNumber": "string",
    "origin": "string",
    "destination": "string",
    "departureDate": "datetime".
    "arrivalDateUtc": "datetime",
    "departureDateUtc": "datetime",
    "arrivalDate": "datetime",
    "flightNumber": "string",
    "classOfService": "string",
    "commercialFamily": "string",
    "operatingCarrier": "string"
    "marketingCarrier": "string",
    "codeshareName": "string",
    "flightDuration": "string",
    "stopDuration": "string",
    "techStops": [
         "arrivalDateTime": "datetime",
         "departureDateTime": "datetime",
         "airportCode": "string",
         "stopDuration": "string"
         "flightDurationUntilNextStop": "string"
      }
    ],
"flightDurationUntilNextStop": "string",
"dtring"
    "arrivalTerminal": "string",
    "departureTerminal": "string",
    "hash": "string",
    "statuses": [
      "string"
    ],
"isCancelledByAirline": "bool",
"bool": "bool": "bool";
     "isCheckinWithoutPseudo": "bool"
  }
"outboundFareFamily": {
  "code": "string",
  "category": "string"
  "isSubsidized": "bool",
  "isLowCost": "bool",
  "isUnaccompaniedMinor": "bool"
returnFareFamily": {
  "code": "string",
  "category": "string"
  "isSubsidized": "bool",
```

```
"isLowCost": "bool",
    "isUnaccompaniedMinor": "bool"
  },
    "separateFareFamily": {
    "code": "string",
    "category": "string",
    "isSubsidized": "bool",
    "isLowCost": "bool",
    "isUnaccompaniedMinor": "bool"
  "returnDuration": "string",
      "separateDuration": "string"
  "origin": "string",
  "destination": "string",
  "departureDate": "datetime",
  "returnDate": "datetime",
  "outboundBaggageAllowances": [
      "quantity": "integer",
"weight": "integer",
      "passengerType": "string",
              "fareCode": "string"
    }
  "returnBaggageAllowances": [
      "quantity": "integer",
      "weight": "integer",
      "passengerType": "string",
             "fareCode": "string"
  ],
      "separateBaggageAllowances": [
      "quantity": "integer",
      "weight": "integer",
      "passengerType": "string",
              "fareCode": "string"
  ],
"containsInternationalFlights": "bool"
"bookingTimeLimit": "datetime",
"passengers": [
  {
    "id": "integer",
    "hasInfant": "bool",
    "referenceNumber": "string",
    "relatedAdultReferenceNumber": "string",
    "relatedInfantReferenceNumber": "string",
    "disability": {
   "isDeaf": "bool",
      "isBlind": "bool".
      "hasGuideDog": "bool",
```

```
"assistanceType": "string",
  "wheelchairType": "string",
  "commentary": "string"
"middleName": "string",
"surname": "string",
"passengerType": "string",
"birthDate": "datetime",
"sex": "string",
"nationality": "string",
"documentNumber": "string",
"documentExpiryDate": "datetime",
"loyaltyCard": "string",
"email": "string",
"phone": "string"
"documentType": "string",
"isAdult": "bool",
"isChanged": "bool",
"checkedIn": {
  "additionalProp1": "bool",
  "additionalProp2": "bool",
  "additionalProp3": "bool"
"additionalProp1": "bool",
"additionalProp2": "bool",
  "additionalProp3": "bool"
"additionalProp2": "bool",
"additionalProp3": "bool"
"additionalProp1": "bool",
  "additionalProp2": "bool",
  "additionalProp3": "bool"
"hasPassengersDataErrors": "bool",
"passengerDataErrors": [
    "key": "string",
    "value": "string"
"endorsements": [
  {
    "endorsement": "bool",
    "isDisability": "bool<sup>'</sup>,
    "endorsementDocNumber": "string",
"endorsementDocDate": "datetime",
"loyaltyPartnerCard": "string"
  }
],
        "accompanimentBookingsInfo":[
```

```
"number": string,
                     "surname": string
.
"services": [
    "code": "string",
    "status": "string",
    "text": "string",
    "petType": "string"
    "category": "string",
    "fareAmount": "integer",
    "passengerQualifier": "string",
    "passengerReference": "string",
    "flightReference": "string",
    "referenceNumber": "string"
    "packReferenceNumber": "string",
    "ticketNumber": "string",
    "finalPrice": "integer",
    "price": "integer",
    "discountAmount": "integer",
    "amadeusErrorCode": "string",
    "amadeusErrorMessage": "string",
    "internalError": "string",
    "internalErrorMessage": "string",
    "issueDate": "datetime",
    "issuedByThirdPartyOffice": "bool",
    "isIssuedByRefundableOffice": "bool"
  }
],
"seats": [
    "number": "integer",
    "title": "string",
    "code": "string",
    "status": "string",
"text": "string",
    "petType": "string"
    "category": "string",
    "fareAmount": "integer",
    "passengerQualifier": "string",
    "passengerReference": "string",
    "flightReference": "string", "referenceNumber": "string",
    "packReferenceNumber": "string",
    "ticketNumber": "string",
    "finalPrice": "integer",
    "price": "integer",
    "discountAmount": "integer"
    "amadeusErrorCode": "string",
    "amadeusErrorMessage": "string",
    "internalError": "string",
    "internalErrorMessage": "string",
    "issueDate": "datetime",
    "issuedByThirdPartyOffice": "bool",
```

```
"isIssuedByRefundableOffice": "bool"
  }
],
"luggageSeats": [
    "referenceNumber": "string",
    "passengerReference": "string"
  }
],
"insurances": [
    "number": "string",
    "passengerType": "string",
    "code": "string",
    "status": "string",
    "text": "string",
    "petType": "string"
    "category": "string",
    "fareAmount": "integer",
    "passengerQualifier": "string",
    "passengerReference": "string",
    "flightReference": "string",
    "referenceNumber": "string"
    "packReferenceNumber": "string",
    "ticketNumber": "string",
    "finalPrice": "integer",
    "price": "integer",
    "discountAmount": "integer",
    "amadeusErrorCode": "string",
    "amadeusErrorMessage": "string",
    "internalError": "string",
    "internalErrorMessage": "string",
    "issueDate": "datetime",
    "issuedByThirdPartyOffice": "bool",
    "isIssuedByRefundableOffice": "bool"
  }
"partnerProducts": [
  {
    "partnerId": "string",
    "partnerType": "string",
    "bookingStatus": "string",
    "code": "string",
    "amount": "integer"
    "currency": "string"
    "passengerReference": "string",
    "flightReference": "string",
    "isInfantProduct": "bool",
    "bookingId": "string",
    "orderId": "string",
    "isIssuedByRefundableOffice": "bool"
    "preselectedOption": {
      "preselect": ""bool,
      "passengers": [
          "referenceNumber": "string",
          "passengerType": "string"
```

```
]
      },
"compatibleProductCodes": [
        "string"
      "internalError": "string",
      "internalErrorMessage": "string"
    }
 ],
"ticketFares": [
      "referenceNumber": "string",
      "referenceQualifier": "string",
      "baseAmount": "integer",
      "totalAmount": "integer",
      "currency": "string",
      "passengerReferences": [
        {
          "referenceNumber": "string",
          "referenceQualifier": "string"
        }
      ],
"passengerType": "string"
  ],
"ticketFaresWithoutZapOff": [
    {
      "referenceNumber": "string",
      "referenceQualifier": "string",
      "baseAmount": "integer",
"totalAmount": "integer",
      "currency": "string",
      "passengerReferences": [
          "referenceNumber": "string",
          "referenceQualifier": "string"
      "passengerType": "string"
    }
  "isRefundAvailable": "bool",
"annulUnavailabilityReason": "string",
  "isAnnulAvailable": true,
  "isAgentReservation": true,
  "accountCode": "string",
  "tourCode": "string"
"errors": [
    "ibeCode": "integer",
    "description": "string",
    "messages": [
        "code": "string",
```

contacts block

Parameter		Description
contacts		Returned data
	email	Email
	phoneNumber	Phone number
	passengerReference	Reference to a passenger

Remarks block

P	arameter	Description
remarks		Returned data
	type	Remark type (tag <type>)</type>
	text	Content of tag freeText
	referenceNumber	Reference to a service
	passengerReferences	Reference to a passenger (if exists)
	flightReferences	Reference to a segment (is exist)

$special Service Requests\ block$

Parameter		Description
specialServiceRequests		Returned data
	code	SSR code (tag <type>)</type>
	status	Status

Parameter		Description
	text	Content of tag freeText
	referenceNumber	Reference to a service
	passengerReferences	Reference to a passenger (if exists)
	flightReferences	Reference to a segment (if exists)

informationalServices block

Parameter	Description	Notes
	Additional service code	
code	Possible values: reference codes of the add. services	
	The status of adding the service.	
status	Example: HD service successfully added	
	Text in ssr format for sending information.	
text	Example: DOG 1PC 8KG 45X35X25	
.T	Type of pet.	
petType	Possible values: DOG, CAT, PARROT, CANARY	
	Category of additional service	
category	Possible values: Reference codes add. services	
passengerReference	Link to the passenger for whom an additional service has been added	
flightReference	Link to the segment on which the service operates	
referenceNumber	Номер SSR. Каждой услуге соответствует уникальный номер SSR в PNR.	
price	The cost of an additional service	
issueDate	Date and time of service release.	
issuedByThirdPartyOffice	A sign that the service was issued by a third-party office in relation to the office under which the booking was issued	
isIssuedByRefundableOffice	Sign that the return of the service is not possible, since it is added by a third-party office.	

Service for add SSR to reservation/api/version/Reservation/AddSSR (for agents)

API service	/Reservation/AddSSR
Short description	Service for add SSR via API IBE
Supported HTTP(S)-methods	POST

POST AddSSR methodx

Note: method is available on ADP

Description: add SSR to the reservation

You can see added SSR in GET Reservation/Advanced response

Response format: api/apiVersion/Reservation/AddSSR

Response headers

X-Api-Key - unique GUID of systems using IBE API.

Request body

Request parameters

	Parameter	Description
ı	eservationNumber	Unique booking number (PNR)
9	urname	Passenger's surname
5	srs	SSR information object
	code	SSR code(different of selling in IBE): OTHS, WEAP, BIKE, SPEQ, DOCO, DOCA, MEDA, DEAF, BLND, DPNA, ESAN, STCR, WCBD,

	WCBW, WCHC, WCHR, WCHS, WCMP, WCOB, CTCR
passengerReference	Reference number
segmentReference	Flight segment reference
freeText	Text

Формат ответа

```
{
    "code": string,
"status": string,
"text": string,
                   "referenceNumber": string,
                   "passengerReferences": [
                        string
                   ],
"flightReferences": [
                        string
                   ]
              }
         ]
    },
"errors": [
              "ibeCode": integer,
              "description": string,
              "messages": [
                   {
                        "code": string,
"text": string
              ]
         ],
     "success": bool
}
```

Response parameter

Parameter	Description			
success	Sign of query execution success.			
	If errors array is empty, field value will be set to true			
data	Returned data			
ssr Array of SSRs that were added to the reservation				

	code	SSR code					
	status	SSR status					
	text	freeText of SSR					
	referenceNumber	SSR reference number					
	passengerReference	Passenger reference number					
	flightReference	Flight segment reference number					
e	rrors	Information about errors appeared during query execution					
	ibeCode	Error code, see EN_Attachment 1. IBE error codes					
	description	Code description, see. EN_Attachment 1. IBE error codes					
	messages	Array of objects, containing errors from Sirena response. Array can be empty, it is recommended to analyse errors by ibeCode					
	code	Sirena error code					
	text	Sirena error text					

Service of tickets rebook /api/Exchange (for agents)

API service	/Exchange				
Short description	Service of tickets exchange				
Supported HTTP(S)-methods	POST				
Conterminous systems methods used	Sirena: exchange_pricing, divide_order, exchange_confirm				

POST Exchange method

Note: method is available on ADP

Description: allow to make a rebook of ticket

Request format: api/apiVersion/Exchange

Request headers

X-Api-Key - unique GUID for systems using IBE API.

Request body

```
"pnrNumber": string,
"lastName": string,
"travelParts": [
          "segmentReference": string,
          "segmentReferenceLast": string,
          "fareFamily": {
    "code": string,
              "category": string,
"isLowCost": boolean,
"isUnaccompaniedMinor": boolean
         },
"addFlights": [
                    "origin": string,
                    "destination": string,
                    "departureDate": datetime,
                    "arrivalDate": datetime,
                    "flightNumber": string,
                    "classOfService": string,
                    "fares": [
                              "fareBasis": string,
                              "isBreakpoint": boolean,
                              "paxType": string
```

Request parameters

Parameter	Description				
pnrNumber	Number of a reservation				
lastName	Passenger's lastname				
travelParts	Array with information about the flight segment	segmen	ntRefere	Reference to the flight segment	
		segmentReferenceLast			Reference to the last flight segment
fareFamily	Object with information about the fare family				
code	Tariff code				
category	Tariff category				
isLowCost	Sign of lowcost flight				
isUnaccompaniedMinor	Sign of unaccompanied child				
addFlights	An array with information about the segment to be exchanged				
origin	Departure airport				
destination	Destination airport				
departureDate	Departure date				
arrivalDate	Arrival date				

P	ara	meter	Description			
	fl	ightNumber	Number of flight			
	cl	assOfService	Information about selected tariff			
	fares		Tariff information object			
		fareBasis	Base fare name			
		isBreakpoint	Flag identifying whether tariff ends on present segment			
		рахТуре	Passenger type			
p	passengerReferences		An array of references to passengers for whom the exchange is being made			

Response format

```
{
  "data": {
    "journey": {
        "outboundFlights": [fullReservationFlight],
        "returnFlights": [fullReservationFlight],
        "outboundFareFamily": {
            "code": "string",
            "category": "string",
            "isSubsidized": "boolean",
            "isLowCost": "boolean",
            "isUnaccompaniedMinor": "boolean"
        },
```

```
"returnFareFamily": {
  "code": "string",
  "category": "string",
  "isSubsidized": "boolean",
  "isLowCost": "boolean",
  "isUnaccompaniedMinor": "boolean"
},
"outboundDuration": "string",
"returnDuration": "string",
"origin": "string",
"destination": "string",
"departureDate": "datetime",
"returnDate": "datetime",
"outboundBaggageAllowances": [
  {
     "quantity": "integer",
     "weight": "integer",
     "passengerType": "string"
  }
],
"returnBaggageAllowances": [
     "quantity": "integer",
```

```
"weight": "integer",
       "passengerType": "string"
     }
  ],
  "containsInternationalFlights": "boolean"
},
"number": "string",
"reservationDate": "datetime",
"bookingTimeLimit": "datetime",
"passengers": [
  {
    "id": "integer",
    "hasInfant": "boolean",
    "referenceNumber": "string",
     "relatedAdultReferenceNumber": "string",
    "relatedInfantReferenceNumber": "string",
     "disability": {
       "isDeaf": "boolean",
       "isBlind": "boolean",
       "hasGuideDog": "boolean",
       "assistanceType": "string",
       "wheelchairType": "string",
       "commentary": "string"
```

```
},
"firstName": "string",
"middleName": "string",
"surname": "string",
"passengerType": "string",
"birthDate": "datetime",
"sex": "string",
"nationality": "string",
"documentNumber": "string",
"documentExpiryDate": "datetime",
"loyaltyCard": "string",
"email": "string",
"phone": "string",
"documentType": "string",
"isAdult": "boolean",
"isChanged": "boolean",
"checkedIn": {
  "additionalProp1": "boolean",
  "additionalProp2": "boolean",
  "additionalProp3": "boolean"
},
"checkInHasStarted": {
  "additionalProp1": "boolean",
```

```
"additionalProp2": "boolean",
  "additionalProp3": "boolean"
},
"checkedInSegment": {
  "additionalProp1": "boolean",
  "additionalProp2": "boolean",
  "additionalProp3": "boolean"
},
"checkInHasStartedSegment": {
  "additionalProp1": "boolean",
  "additionalProp2": "boolean",
  "additionalProp3": "boolean"
},
"hasPassengersDataErrors": "boolean",
"passengerDataErrors": [
     "key": "string",
     "value": "string"
  }
],
"endorsements": [
     "endorsement": "boolean",
```

```
"isDisability": "boolean",
          "endorsementDocNumber": "string",
         "endorsementDocDate": "datetime",
         "loyaltyPartnerCard": "string"
       }
],
"services": [
    "code": "string",
    "status": "string",
    "text": "string",
    "petType": "string",
    "category": "string",
    "fareAmount": "integer",
    "passengerQualifier": "string",
     "passengerReference": "string",
    "flightReference": "string",
    "referenceNumber": "string",
     "packReferenceNumber": "string",
     "ticketNumber": "string",
    "finalPrice": "integer",
```

```
"price": "integer",
     "discountAmount": "integer",
     "amadeusErrorCode": "string",
     "amadeusErrorMessage": "string",
     "internalError": "string",
     "internalErrorMessage": "string",
     "issueDate": "datetime",
     "issuedByThirdPartyOffice": true
  }
],
"seats": [
  {
     "number": "integer",
     "title": "string",
     "code": "string",
     "status": "string",
     "text": "string",
     "petType": "string",
     "category": "string",
     "fareAmount": "integer",
     "passengerQualifier": "string",
     "passengerReference": "string",
     "flightReference": "string",
```

```
"referenceNumber": "string",
     "packReferenceNumber": "string",
    "ticketNumber": "string",
    "finalPrice": "integer",
     "price": "integer",
     "discountAmount": "integer",
     "amadeusErrorCode": "string",
     "amadeusErrorMessage": "string",
     "internalError": "string",
    "internalErrorMessage": "string",
     "issueDate": "datetime",
    "issuedByThirdPartyOffice": "boolean"
  }
],
"luggageSeats": [
    "referenceNumber": "string",
     "passengerReference": "string"
  }
],
"insurances": [
    "number": "string",
```

```
"passengerType": "string",
  "code": "string",
  "status": "string",
  "text": "string",
  "petType": "string",
  "category": "string",
  "fareAmount": "integer",
  "passengerQualifier": "string",
  "passengerReference": "string",
  "flightReference": "string",
  "referenceNumber": "string",
  "packReferenceNumber": "string",
  "ticketNumber": "string",
  "finalPrice": "integer",
  "price": "integer",
  "discountAmount": "integer",
  "amadeusErrorCode": "string",
  "amadeusErrorMessage": "string",
  "internalError": "string",
  "internalErrorMessage": "string",
  "issueDate": "datetime",
  "issuedByThirdPartyOffice": "boolean"
}
```

```
],
"partnerProducts": [
     "partnerId": "string",
     "partnerType": "string",
    "bookingStatus": "string",
     "code": "string",
     "amount": "integer",
     "currency": "string",
     "passengerReference": "string",
     "flightReference": "string",
    "is In fant Product": "boolean",\\
     "bookingId": "string",
    "orderId": "string",
     "preselectedOption": {
       "preselect": "boolean",
       "passengers": [
          {
            "referenceNumber": "string",
            "passengerType": "string"
          }
       ]
     },
```

```
"compatibleProductCodes": [
       "string"
     ],
     "internalError": "string",
     "internalErrorMessage": "string"
  }
],
"ticketFares": [
  {
     "referenceNumber": "string",
     "referenceQualifier": "string",
     "base Amount": "integer",\\
     "totalAmount": "integer",
     "currency": "string",
     "passengerReferences": [
          "referenceNumber": "string",
          "referenceQualifier": "string"
       }
     ],
     "passengerType": "string"
  }
],
```

```
"ticketFaresWithoutZapOff": [
  {
    "referenceNumber": "string",
    "referenceQualifier": "string",
    "baseAmount": "integer",
    "totalAmount": "integer",
    "currency": "string",
    "passengerReferences": [
       {
         "referenceNumber": "string",
         "referenceQualifier": "string"
       }
    ],
    "passengerType": "string"
  }
],
"fareBasisCodesFlightRefs": [
  {
    "fareBasis": "string",
    "flightReferenceNumber": "string",
    "passenger Reference Number": "string",\\
    "expirationUtc": "datetime"
  }
```

```
],
  "hasSpecialConditions": "boolean",
  "isRefundAvailable": "boolean",
  "annulUnavailabilityReason": "string",
  "isAnnulAvailable": "boolean",
  "isAgentReservation": "boolean",
  "accountCode": "string",
  "tourCode": "string"
},
"errors": [
  {
    "ibeCode": "string",
    "description": "string",
    "messages": [
       {
         "code": "string",
         "text": "string",
         "additionalInfo": {
            "ssrType": "string",
            "info": "string"
          }
```

```
}
],
"success": "boolean"
}
```

Объект fullReservationFlight

```
{
    "aircraft": string,
"aircraftIataCode": string,
    "referenceNumber": string,
    "origin": string,
    "destination": string,
    "departureDate": datetime,
    "arrivalDate": datetime,
    "arrivalDateUtc": datetime,
    "departureDateUtc": datetime,
    "flightNumber": string,
    "classOfService": string,
    "marketingCarrier": string,
    "operatingCarrier": string,
    "flightDuration": string,
    "stopDuration": string,
    "techStops": [{
             "arrivalDateTime": datetime,
            "departureDateTime": datetime,
            "airportCode": string,
            "stopDuration": string,
            "flightDurationUntilNextStop": string
        }
    ],
"flightDurationUntilNextStop": string,
    "arrivalTerminal": string,
    "departureTerminal": string,
    "hash": string,
    "isCancelledByAirline": boolean
```

Response parameters

Parameter	Description
	Sign of the success of the request.
success	If the errors array is empty, then the field value will be true.
data	The data returned by the request.
number	New booking number. It can be either equal to the previous one, or differ in the case of a partial exchange.
	Date and time of booking creation
reservationDate	Format: yyyy-MM-ddTHH:mm:ss
	Example: 2018-06-20T15:44:00
bookingTimeLimit	Date and time until which the unpaid booking will exist (the rules are set by the settings in IBE)
passengers	An array of passengerData objects with information about the passengers that were requested to be exchanged
services	Array of objects with information about auxiliary services.
seats	Array of objects with information about selected seats.
insurances	Object with information about selected insurance.
luggageSeats	An array of objects with information about luggage with separate air ticket and ssr CBBG.
referenceNumber	The reference to CBBG luggage.
passengerReference	The reference to passenger who added CBBG luggage. Associated with field data → passengers[n] → referenceNumber.

Parameter	Description
partnerProducts	An array of objects with information about partner services.
journey	Information about the new segments for which the exchange is made
outboundFlights	An array of the fullReservationFlight objects with details of outbound flights
outboundFareFamily	Service field, contains the fareFamily code
returnFlights	An array of fullReservationFlight objects with detailed information about the "return" flights
returnFareFlights	Service field, contains fareFamily code
outboundDuration	The total duration of the flight "there"
returnDuration	The total duration of the return flight
origin	Initial airport of departure
destination	Initial airport of destination
departureDate	Departure date
returnDate	Return date
outboundBaggageAllowances	An array of objects containing detailed information about the baggage allowance for the outward direction
returnBaggageAllowances	An array of objects containing detailed information about the baggage allowance for the "back" direction
containsInternationalFlights	A sign that one of the airports is located outside the territory of the Russian Federation
ticketFares	An array of objects with information about tariffs after applying the discount

Description
Base rate
An array of objects with links to passengers
Reference number
Link type, for example "PA"
Passenger type
Possible values: see Attachment. Passenger types.
Reference number
Link type, for example "TST"
The total amount of the tariff
Reservation currency
Array of objects with information about base rates
An array of objects with information about tariffs without applying a discount
Base rate
An array of objects with links to passengers
Reference number
Link type, for example "PA"
Passenger type
Possible values: see Attachment. Passenger types
Reference number
Link type, for example "TST"
The total amount of the tariff
Reservation currency
Sign of the additional conditions

Parameter	Description
isRefundAvailable	Sign of the availability of the return
annulUnavailabilityReason	Reason for unavailability of booking cancellation
isAnnulAvailable	Indication of availability of booking cancellation
accountCode	Account code
tourCode	Tour code
errors	Information about errors that occurred during the operation of the service
ibeCode	Error code, see Attachment. IBE error codes
description	Error description, see Attachment. IBE error codes
messages	An array of objects containing errors from Sirena's answer. The array may be empty, it is recommended to analyze the error by the ibeCode field
code	Sirena error code
text	Sirena error text

fullReservationFlight object

Parameter	Description
aircraftIataCode	IATA aircraft code
referenceNumber	Reference to the current flight segment
origin	Departure airport for the current segment
destination	Destination airport for the current segment
departureDate	Departure date and time for the current segment
arrivalDate	Arrival date and time for the current segment

Parameter	Description
arrivalDateUtc	Date and time of arrival for the current segment in UTC
departureDateUtc	Departure date and time for the current segment in UTC
flightNumber	Flight number
classOfService Information about the selected tariff	
	Marketing airline
marketingCarrier	For example: U6, S7
	The airline actually performing the flight
operatingCarrier	For example: U6, OK
techStops	An array with information about technical landings
arrivalDateTime	Date and time of arrival at the pick-up point
departureDateTime	Date and time of departure from the pick-up point
airportCode	Airport code of the stop
stopDuration	Duration of the stop
flightDurationUntilNextStop	Duration of the flight to the next stop
flightDurationUntilNextStop	Duration of the flight to the next stop
arrivalTerminal	Terminal number at the point of arrival
departureTerminal	Terminal number at the point of departure
hash	Unique hash of the flight
isCancelledByAirline	Sign of cancellation of flights by the airline

passengerData obectj

Parameter	Description
id	Passenger's serial number (numbered from 1)
hasInfant	An sign that this passenger has a baby
referenceNumber	Reference to this passenger in the booking
firstName	Passenger's name

Parameter	Description
middleName	Passenger's patronymic (may be absent)
surname	Passenger's surname
	Passenger type
passengerType	Possible values: see <u>Attachment 2. Passenger types</u>
	Whether the passenger is an adult
isAdult	true for ADT/SRC/YTH type passengers
	false for CHD/INF type passengers
birthDate	Date of birth
sov	Passenger gender
sex	Possible values: see dictionary "gender of passengers"
	Nationality (country)
nationality	Possible values: dictionary of countries
documentNumber	Document number
do cumo on tTuro o	Document type
documentType	Possible values: dictionary of document types
	Date until which the document is valid
documentExpiryDate	Mandatory only for a foreign passport. For other documents, +10 years from the current date is automatically set
email	Email
phone	Phone
checkedIn	Passenger check-in on flights
checkInHasStarted	Starting check-in on flights
hasPassengersDataErrors	The sign of errors in passengers data.
passengerDataErrors	Array with detailed information of errors in passengers data.
key	The key.
value	The value.

Service for getting the information about the status of creation of a subsidized reservation v2.3

API service	SubsidiesConfirmationSession	
Short description	Service for getting the information about the status of creation of a subsidized reservation with passengers with disabilities or passengers with Kaliningrad's subsidies and Far Eastern Federal District, when a right for using the subsidy should be checked and confirmed.	
Supported HTTP(S)-methods	GET, DELETE	
Conterminous systems methods used	no	

GET api/SubsidiesConfirmationSession method

Description: let to check information about the status of creating a subsidized reservation (for creating reservations at subsidized fares for passengers with disabilities and reservations with Kaliningrad's subsidies and Far Eastern Federal District).

Request format /api/apiVersion/SubsidiesConfirmationSession

Request paramaters

Parameter	Description
coccionId	Id of the session in which the subsidized reservation confirmation waiting session is performed

Response format

```
"surname": string,
               "passengerType": integer,
               "birthDate": datetime,
               "sex": integer,
"nationality": string,
"accompaniedPassengerId": integer,
                "errorCode": string,
                "status": string
       ],
"errorCode": string,
        "bmmUrl": string
   "description": string,
           "ssrType": string,
                       "info": string
                   }
               }
           ]
       }
   ],
"success": boolean
}
```

Response parameters

Parameter	Description
	Sign of query execution success.
success	If errors array is empty, field value will be set to true.
data	Returned data
pnrNumber	The pnr number of the created reservation (returned if the verification was successful and the reservation was created).
status	Reservation creation status. See Attachments: Attachment of the statuses of sessions for creating subsidized reservations with confirmation
flights	An array of objects with

Par	ameter	Description
		information about the flights on which the booking was created.
	origin	The airport of departure.
	destination	Arrival airport.
·	departureDate	Departure date.
	flightNumber	Flight number.
	passengers	An array of objects with information about passengers.
	id	The passenger's number from the booking.
	firstName	The passenger's name.
	middleName	Middle name of the passenger (may be missing).
	surname	The passenger's last name.
	passengerType	The type of passenger.
	birthDate	Date of birth.
	sex	The gender of the passenger.
	nationality	The nationality of the passenger (country).
	accompaniedPassengerId	The number (id) of the accompanied passenger. It's returned for accompanying passengers.
	errorCode	The error code returned when checking the passenger. It's returned if the check of the subsidized passenger ended with an error.
	status	Subsidized passenger verification status code. See Attachments: Attachment of subsidized passenger verification statuses.
	errorCode	The resulting error code for

Pa	Parameter		Description		
			checking all passengers.		
		bmmUrl	The link to BMM of the created reservation. It's returned if the booking has been successfully created.		
er	errors		Information about errors that occurred during the operation of the service.		
	ibe	eCode	Error code.		
	de	scription	Error description.		
	messages		An array of objects containing errors. The array may be empty, it is recommended to analyze the error by the ibeCode field.		
		code	Error code.		
		text	Error text.		

Examples of responses

The example of a successful response when a booking has been successfully created

```
"surname": "Ханипова",
                 "passengerType": 25,
                 "birthDate": "1956-05-25T00:00:00",
                 "sex": 1,
                 "nationality": "RU",
                 "status": 2
             }
        ],
"bmmUrl": "https://sirena-bmm-
'Conr-24GC8V&last
stage.uralairlines.ru/?pnr=24GC8V&lastName=Ханипова"
    "success": true
}
The example of a successful response when the verification of subsidized passengers failed
{
    "data": {
        "status": 3,
        "flights": [{
                 "origin": "DME",
                 "destination": "HTA",
                 "departureDate": "2024-03-23T19:40:00Z",
                 "flightNumber": "93"
             }
        "passengers": [{
                 "id": 1,
                 "firstName": "Мила",
                 "middleName": "Андреевна",
                 "surname": "Носкова",
                 "passengerType": 23,
                 "birthDate": "2011-10-20T00:00:00",
                 "sex": 1,
                 "nationality": "RU",
                 "errorCode": 9111,
                 "status": 3
        ],
"errorCode": 9111
    "errors": [],
"success": true
}
```

DELETE api/SubsidiesConfirmationSession method

Description: let to cancel the confirmation session for creating a subsidized reservation (to create reservations at subsidized fares for passengers with disabilities)

Request format /api/apiVersion/SubsidiesConfirmationSession

Request parameters

Parameter	Description
	Id of the session in which the subsidized reservation confirmation waiting session is performed and which need to cancel.

Response format

Response parameters

Parameter			Description	
success			Sign of query execution success.	
			If errors array is empty, field value will be set to true.	
errors			Information about errors that occurred during the operation of the service.	
	ibeCode		Error code.	
	description		Error description.	
	messages		An array of objects containing errors. The array may be empty, it is recommended to analyze the error by the ibeCode field.	
	code		Error code.	
	text		Error text	

Example of a successful response

```
{
    "errors": [],
```

```
"success": true }
```

Services to sort and display additional services v2.3

Method structure is described in api/reservation version 2.3.

Changes in GET api/catalogue/GetServiceCategoriesOrder response in version 2.3

The sortedInCategories[] array is added with information about the category of additional services and subspecies related to an additional service, as well as the order in which the subspecies are displayed inside the block

Parameters of the sortedInCategories array[]

Parameter	Description	
sortedInCategories	An array of objects with information about additional services, subspecies and their display	
category	Additional services category	
ServiceOrder An array of objects with information about the service code an order of display on the page		
code	Additional service subspecies code	
order	The additional service subspecies order of display related to other subspecies located in the same serviceOrder array	

Service for sending attachments for creating a request for Kaliningrad's subsidy and Far Eastern Federal District

API service	Passenger/AddFiles		
Short description	Service for sending attachments to the CRM for getting an approval to use Kaliningrad's subsidy and Far Eastern Federal District		
Supported HTTP(S)-methods	POST		
Methods of related systems used	CRM		

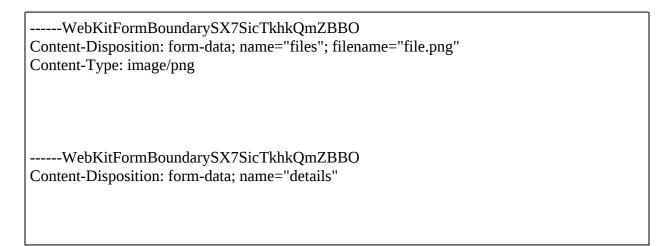
Method POST api/Passsenger/AddFiles

Description: At the booking process with using passenger types by Kaliningrad's subsidy and Far Eastern Federal District required to attach documents which can confirme that passenger can get the subsidy. Creating a request to CRM with confirmation documents for checking and approving a right for using the subsidy by the current passenger. When the request will be approved, the booking gets a booking number like for usual booking and can be issued. Passenger types have unic list of confirmation documents. 3 files is a limit for every passenger at the booking. Every file can have a size no more than 2 Mb. Available file formats: jpg; jpeg; PNG; webp; PDF.

Request format /api/apiVersion/Passenger/AddFiles

Request example

The request has an info with ID session by GET SubsidiesConfirmationSession request, also the info of attached files.



```
 \{ "confirmation Session Id": "45bf2d13-d45e-42df-8c6a-98454814127a", "Files Type": 1\} \\ ------Web Kit Form Boundary SX7 Sic Tkhk QmZBBO--
```

Response format

```
{
    "data": {
        "isFilesAdded": boolean
    },
    "errors": [],
    "success": boolean
}
```

Response parameters

Parameter		Description	
		Sign of the success of the request.	
suc	ccess	If the errors array is empty, then the field value will be true	
da	ta	The data returned by the request	
	isFilesAdded	Parameter that all attached files were sent with the request	
erı	rors	Information about errors that occurred during the operation of the service	
j	beCode	Error code, see Attachment 1. IBE error codes	
	description	Error description, see Attachment 1. IBE error codes	
]	nessages	An array of objects containing errors from Sirena answer. The array may be empty, it is recommended to analyze the error by the ibeCode field.	
	code	Sirena error code	
	text	Sirena error text	

Response example

```
Succeed sending files with the request fro approving a subsidy

{
    "data": {
        "isFilesAdded": true
    },
    "errors": [],
    "success": true }
```

Service for adding passenger without seat (INF) to already issued booking api/Reservation/AddNewPassenger v2.3

Сервис АРІ	Reservation/AddNewPassengers
Краткое описание	Adding an infant without seat (INF) to booking, also making a connection between INF and adult passenger 18+ years old without related infants.
Поддерживаемые HTTP(S)-методы	POST
Используемые методы смежных систем	Sirena: modify_pnr

Method POST Reservation/AddNewPassengers

Description: Creating an option to add an infant without seat (INF) to booking, also making a connection between INF and adult passenger 18+ years old without related infants. At the next step making available to issue additional ticket for added passenger via usual issuing process.

A data of added passenger is able to check at a response by GET Reservation request.

Request format: /api/apiVersion/Reservation/AddNewPassengers

Request parameters

Parameter	Description	Format	Notes
related Adult Reference Number	ID of an adult passenger at the issued booking that has no accompanted another infants at the booking		
id	Passenger's serial number (numbered from 1)		
firstName	Passenger's name	[A-Z], from two characters	The sum of the full name is no more than 43 characters
middleName	Passenger's patronymic (may be absent)	[A-Z], от одного символа	The sum of the full

Parameter	Description	Format	Notes
			name is no more than 43 characters
surname	Passenger's surname	[A-Z], from two characters	The sum of the full name is no more than 43 characters
passengerType	Passenger type		
birthDate	Date of birth		
	Passenger gender		
sex	Possible values: see dictionary "gender of passengers"		
	Nationality (country)		
nationality	Possible values: dictionary of countries		
documentNumber	Document number	For different document types there is different format rules: • Passport of Russian Federation: 10 chars; • Foreign passport of Russian Federation: 9 chars; • Birth certificate of Russian Federation: ^[IVX]+([A -Яa-	

Parameter	Description	Format	Notes
		я]{2} [A- Za- z]{2,4}) 6}\$.	
		other countries there is no special format rules.	
documentType	Document type		
	Date until which the document is valid		
documentExpiryDate	Mandatory only for a foreign passport of Russian Federation and national passports of other countries. For other documents, it is automatically set by Sirena.		
loyaltyCard	Loyalty card number "Wings"	10 numbers	
loyaltyCardValidTo	Expiration date of the "Wings" loyalty card (transmitted only if serviceClassUpOrdered = true)		
serviceClassUpOrdered	Flag indicating that the owner of the "Wings" gold card wants to upgrade the service class		In developing
email	Email		
phone	Phone		
disability	Information about people with disabilities		
isDeaf	Hearing impairment		

Parameter	Description	Format	Notes
isBlind	Visual impairment		
hasGuideDog	A guide dog must be accompanied, must be sent only together with the isBlind sign		
assistanceType	Passenger assistancetype		
assistance i ype	Possible values: dictionary of assistancetypes		
	Wheelchair type		
wheelchairType	Possible values: dictionary of wheelchair type		
commentary	Comment (optional)		
socialSecurityNumber	A specific numer of SNILS (optional)	10 digits	
endorsements	Array with information about documents to buy tickets on the subsidized fares or to apply discounts on partner loyalty cards.		
endorsement	The sign that an endorsement is adding to booking.		
isDisability	Disability endorsements.		
	Subsidy document number.		
endorsementDocNumber	E.g disability certificate, ID number or other document confirming the status of a large family.		

I	arameter	Description	Format	Notes
	endorsementDocDate	Subsidy document issue date.		
	loyaltyPartnerCard	Loyalty partner card number.		
8	ccompanimentBookingInfo	Information about the reservation containing an accompanying passenger		Currently used when creating reservations for MNN, MNS
	number	PNR of a booking containing an accompanying passenger		
	surname	Last name of the accompanying passenger		
а	ccompaniedPassengerId	Id number of accompanted passenger (related with subsidized booking by Disability subsidies)		
5	SubsidyDocumentNumber	Document number for confirming a right to get a subsidy (related for subsidized booking by Disability subsidies or Kaliningrad's subsidy)		

Request body

```
"passengers": [

{
    "relatedAdultReferenceNumber": string,
    "id": integer,
    "firstName": string,
```

```
"middleName": string,
  "surname": string,
  "passengerType": integer,
  "birthDate": datetime,
  "sex": integer,
  "nationality": string,
  "documentNumber": string,
  "documentExpiryDate": datetime,
  "loyaltyCard": string,
  "loyaltyCardValidTo": datetime,
  "serviceClassUpOrdered": boolean,
  "email": string,
  "phone": string,
  "documentType": integer,
  "disability": {
    "isDeaf": boolean,
    "isBlind": boolean,
    "hasGuideDog": boolean,
    "assistanceType": integer,
"wheelchairType": integer,
    "commentary": string
  },
"socialSecurityNumber": string,
  "endorsements": [{
  "endorsement": boolean,
    "isDisability": boolean,
    "endorsementDocNumber": string,
    "endorsementDocDate": datetime,
    "loyaltyPartnerCard": string
 "accompanimentBookingInfo": [{
    "endorsement": boolean,
    "isDisability": boolean
    }
  ],
 "accompaniedPassengerId": number,
 "SubsidyDocumentNumber": string
]
```

A format and parameters of a response are the same as for usual response by POST api/Reservation request.

When the passenger will be added to the booking, the next step is issuing the ticket by usual process independed by a price to pay for INF ticket.

A price for INF at Domestic flights has no cost. Issuing the booking by using POST api/Payment/IssueFree

A price for INF at International flights has a cost. Issuing the booking by usual process of paying for booking or paid additional options.

Serivce API methods description

Retrieve subsidy routes list service

API service	Airports/SubsidiesDirections
Short description	Allows to retrieve a list of subsidized tariff destinations
Supported HTTP(S)-methods	GET

GET SubsidiesDirections method

Description: returns list of airports and its iata codes.

Request format /api/apiVersion/Airports/SubsidiesDirections

Request parameters

No parameters.

Response format

```
{
  "departure": string,
  "arrival": [
    string
  ]
}
```

Response parameters

	Parameter	Description	
success		Sign of query execution success.	
		If errors array is empty, field value is set to true	
data		Returned data	
	departure	IATA-code of the airport of departure	
	arrival	IATA-code of the airport of arrival	
errors		Information about errors appeared during query execution.	
	ibeCode	Error code	
	description	Code description	

messages		Array of objects, containing errors. Array can be empty, it is recommended to analyse errors by ibeCode.
code		Error code
	text Error text	

Attachments

Attachment: Dictionaries

Passenger types

paxType field value	Decryption	Passenger type	
0	ADT, adult	Conventional	
1	SRC, pensioner	Subsidised	
2	YTH, youth	Subsidised	
3	CHD, child	Conventional	
4	INF, infant	Conventional	
5	CNN, child	Subsidised/conventional	
6	UMNR, child	Unaccompanied child	
7	STR, adult	Subsidised for Far East Region, Kaliningrad's subsidy	
8	JNN, child	Subsidised for Far East Region	
9	MIL, adult	Military Ministry of Defence of the Russian Federation (in developing)	
10*	DIS, adult	Subsidized passenger with II or III disability stage (in developing)	
13	INS, infant	Infant with a seat	
17	MMI, adult	Passanger by Ministry of Defence	
18	MIR, adult	Military Ministry of Internal Affairs of the Russian Federation	
19	MNN, child	Military	
20	MNS, infant	Military	
21	MML, adult	Flies with the military (in developing)	
22*	DCD, child	Subsidized disabled-child 2-11 years old (in developing)	
23*	DIC, child	Subsidized disabled-child 12-17 years old ((in developing)	
24*	DAC, adult	Compainted for disabled passenger with 'I' disability stage - SBK; for disabled-child - DCD or DIC (in developing)	

25*	SBK, adult	Subsidized disabled passenger with 'I' disability stage (in developing)	
26	CHR, child Child 2-11 years old is official living at the Kaliningrad ci Kaliningrad region. Kaliningrad's subsidy		
27	STU, student	Student 14+ years old is learning at the full-time form or military college at the Kaliningrad city or Kaliningrad region. Kaliningrad's subsidy	

 $[\]boldsymbol{\ast}$ this type is not used when creating a reservation, it can be returned in a GET/reservation response

Passenger sex

sex field value	Decryption
0	Male
1	Female

Document types

documentType field value	Decryption
0	Passport (general civil)
1	International passport
2	Birth certificate
3	Other type of document

Passenger assistance types

assistanceType field value	Decryption	
0	Without assistance	
1	Wheelchair is needed on the way to/from aircraft	
2	Need assistance in getting on and off board	
4	Both points 1 and 2	

Wheelchair types

wheelchairType field value	Decryption
0	Manual type
1	Electric type with dry battery
2	Electric type with liquid elements battery

Auxiliary services types (a part of services are in development)

services.code field value	Category	Decryption
ABAG	luggage	First additional bag
BBAG	luggage	Second additional bag
CBAG	luggage	Third additional bag
DBAG	luggage	Additional bag 10 kg
HBAG	luggage	Extension of additional bag or default luggage (if allowed)
CHML	meal	Child meal
HTML	meal	Hot meal
MOML	meal	Muslim halal meal
SNML	meal	Sandwich meal
SFML	meal	Hot seafood
VGML	meal	Vegeterian meal
CAML	meal	Dessert
KSML	meal	Kosher
BGML	meal	Burger
AVML	meal	Vegetarian Hindu
HNML	meal	Indian Cuisine
VJML	meal	Vegetarian jain
TCML	meal	Hot breakfast
GFML	meal	Gluten free

meal	Baby meal
	, , , , , , , , , , , , , , , , , , ,
	Meat lunnch
	Fish lunch
meal	Salad "fitness"
meal	Greek salad
meal	Roll with chicken
meal	Poke with chicken
meal	Fish Steak Meal
meal	English Breakfast
meal	French Breakfast
meal	American Breakfast
meal	Russian Breakfast
meal	Caucasian Cuisine
meal	Russian Cuisine
meal	Asian Cuisine
meal	Italian Cuisine
meal	German Cuisine
meal	Central Asian Cuisine
meal	Business set
pets	Pet transportation
insurance	Insurance, avia bundle
insurance	Insurance, travel bundle
seat	Seat selection
room	Business room
room	VIP room
covidExpress	Rapid analysis for covid-19
handLuggage	Hand luggage up to 10 kg in the cabin (luggage in the cabin)
handLuggage	Additional piece of carry-on baggage up to 10 kg in the cabin
	meal meal meal meal meal meal meal meal

NYML	meal	New Year meal
CCML	meal	Chocolate Honey Cake
CFML	meal	Assorted macaroons
CTML	meal	Coffee and dessert
ROML	meal	HAM and CHEESE ROLL

Types of additional services supported by the engine (not sold in the engine) (in development)

Значение поля serviceCategories.code	Категория	Расшифровка	
CBBG	luggage	Luggage in the aircraft cabin with a separate seat	
BIKE	luggage	Bicycle in the luggage compartment	
SKI	luggage	Ski equipment	
BULK	luggage	Additional carry-on baggage	
XBAG	luggage	Oversized baggage	
HBGS	luggage	Excess baggage	
HBGT	luggage	Excess baggage	
DBGS	luggage	Increase in baggage weight up to 32 kg	
DBGT	luggage	Increase in baggage weight up to 32 kg	
FRAG	luggage	Fragile luggage	
WBAG	luggage	registration of payment for excess weight of checked baggage from 10 to 23 kg	
SRXBLL	luggage	registration of payment for excess weight of hand luggage from 5 to 10 kg, not exceeding dimension 55*40*20	
SRXBLS	luggage	registration of payment for an additional piece of hand luggage weighing no more than 5 kg and not exceeding dimensions 55*40*20	
MEQT	luggage	Medical equipment	
WEAP	luggage	Weapon	
GOLF	luggage	Golf equipment	
SPEQ	luggage	Sport equipment	

Значение поля serviceCategories.code	Категория	Расшифровка	
RVML	meal	Raw vegetarian meal	
VLML	meal	Vegetarian lacto-ovo meal	
VOML	meal	Vegetarian oriental meal	
DBML	meal	Diabetic food	
BLML	meal	Diet food	
LCML	meal	Low-calorie food	
FPML	meal	Fruit nutrition	
LFML	meal	Low-fat meals	
NLML	meal	Low lactose meals	
LSML	meal	Low salt diet	
NFML	meal	Fish-free meals	
SPML	meal	Special meals	
JPML	meal	Japanese food	
AVIH	pets	Animal in the hold	
SVAN	pets	Animal in the cabin	
EXST	seat	Additional free space nearby	
STRQ	seat	SEAT REQUEST, Seat	
GPST	seat	Group seat request, specify number and preferred location, Seat	
RQST	seat	Seat request-include seat number or preference, Seat	
CHNM	data	CHANGE NAME, Name change	
NAMM	data	Payment of the fee for changing the name of the passenger on the ticket	
NAME	data	Name - when airline holds reservation under a different name, Passanger's name change	
PFEE	data	Payment of the fee for renewal at the call center	
CKIN	data	Registration service	
BLTW	data	Blocking the nearest seat	

Значение поля serviceCategories.code	Категория	Расшифровка	
UMNR	other	Unaccompanied child	
BUSS	other	Transfer by bus	
TIME	other	Deferred payment service	
WCHR	other	Wheelchair to/from the plane	
WCHS	other	Wheelchair to climb/descend the airplane ladder	
WCHC	other	Wheelchair for movement on the apron and the cabin of the aircraft	
ISMS	other	SMS notification service	
URFO	insurance	Avia	
NSP1	insurance	Cancellation of a trip with insurance coverage of RUB 5,000	
NSP2	insurance	Cancellation of a trip with insurance coverage of RUB 10000	
NSP3	insurance	Cancellation of a trip with insurance coverage of RUB 20000	
NSP4	insurance	Cancellation of a trip with insurance coverage of RUB 30000	
NSP5	insurance	Cancellation of a trip with insurance coverage of RUB 40000	
EQPT	luggage	Sport equipment transportation option. Available at the "Promo" fare	
PTWP	luggage	Weapon and ammunition transportation at the luggage option, paid	
FTWP	luggage	Weapon and ammunition transportation at the luggage option, for free	

Types of animals

services.text field value	Decryption
DOG	Dog
CAT	Cat
PARROT	Parrot

services.text field value	Decryption
CANARY	Canary

Types of Sport equipment for transportation

services.text field value	Decryption	
BIKE	Bicycle	
SKIS	Ski/Snowboard	
SURFING	Surfboard/Water-skiing	
FISHING	Fishing equipment	
GOLF	Golf equipment	
HOCKEY	Hockeye equipment	
SCOOTER	Scooter	

Most widely spread Seatmap seat characteristics (in development)

characteristics field value	Decryption	
1A	Seat not allowed for infant	
1B	Seat not allowed for medical	
1C	Seat not allowed for unaccompanied child	
1D	Restricted recline seat	
1W	Window seat without window	
7A	In front of lavatory seat	
7B	Behind lavatory seat	
A	Aisle seat	
AL	Seat adjacent to lavatory	
В	Seat with bassinet facility	
CC	Center section seat	
СН	Chargeable seat	
Е	Exit row seat	
EK	Economy comfort seat	

FC	Front of cabin class/compartment	
G	Seat at forward end of cabin	
I	Seat suitable for adult with an infant	
IE	Seat not suitable for child	
J	Rear facing seat	
K	Bulkhead seat	
L	Leg space seat	
LS	Left side of aircraft	
9	Middle seat (MS in Sirena)	
0	Preferential seat	
P	Comfort seat	
PC	Pet cabin	
Q	Seat in a quiet zone	
RS	Right side of aircraft	
S	Smoking seat	
Т	Rear/Tail section of aircraft	
V	Seat to be left or offered last	
W	Window seat	
X	No facility seat (indifferent seat)	

Services statuses

Статус	Описание
HN	Service not confirmed
HD	Service confirmed, EMD is required
НК	Service confirmed, EMD is not required
HI	Service paid (registered)
UN	Service denied

Promocode statuses (in development)

promotionStatus field value	Decryption
0	New
1	Used
2	Sent
3	Saved
4	Received
5	Hold

Tariff options

Option code	Category	Decryption
bestSeats	availablePaid	first rows in cabin of economy class (up to 15th row) if available at the moment of registration
upTo5bonuses	bonus	Bonus Accrual up to 5%
upTo10bonuses	bonus	Bonus Accrual up to 10%
upTo15bonuses	bonus	Bonus Accrual up to 15%
flexibilityOnChangesAndCancellations	ffServices	Possibility of ticket change and cancellation
refundExchangeProhibited	ffServices	Ticket refund is prohibitted
handLuggage5kg	handBag	Hand luggage 5 kg
handLuggage15kg	handBag	Hand luggage 15 kg
oneSuitcase10kg	luggage	One suitcase 10 kg
oneSuitcase23kg	luggage	One suitcase 23 kg
oneSuitcase32kg	luggage	One suitcase 32 kg
twoSuitcase32kg	luggage	Two suitcase 32 kg
mealsOnBoard	menu	Standard meal
boarding	priorityBoarding	Priority boarding
checkin	priorityCheckIn	Priority checkin

businessClassCatering	specialMenu	Business class catering
upgradeToBusinessClass	upgradeToBusiness	Upgrade to business class
vipLounges	vipLounge	Vip lounge
twoSeatsOnRow	vipSeats	Two seats on row
vipSeats	vipSeats	Vip seats
noMealsOnBoard	menu	No meals

Main fare family categories

Category	Decryption
PR	«Promo» tariff
EC	«Econom» tariff
FL	«Premium-Econom» tariff
BS	«Business» tariff
CF	«Comfort» tariff
PL	«Promo-lightt» tariff
LC1	«Bagless» tariff
LC2	«Luggage» tariff
SOC	«Subsidised» tariff

Statuses of seats on check-in

Status	Description
0	Seat reservation cancelled
1	Seat not selected
2	The seat is reserved free during the online registration
3	The seat is reserved for a fee during online registration
41	The passenger is registered for a free seat
42	The passenger is registered for a paid seat
43	The passenger is registered by an agent
5	The seat is prepaid before registration

6	The passenger is in the process of registering for a seat
7	The seat was pre-added by the agent

Statuses of sessions for creating subsidized booking with approving

Status	Description
0	Unknown
1	Waiting an approve
2	Confirmed
3	Error
4	Canceled
5	Expired
6	Waiting a decide by CRM side for the request
7	Rejected
8	Waiting Passenger Approval
9	Waiting Files Approval

Statuses of checking subsidized passengers (for creating booking with subsidized fares and required approving)

Status	Description
0	Unknown
1	Waiting an approve
2	Confirmed
3	Error
4	Skipped (an approve is not required)

The subsidy types values (for creating booking for subsidized fares)

Numeric / String value	Description
0 / Disability	People with disabilities
1 / Kaliningrad	Kaliningrad

2 / FarEast	Far Eastern District
3 / Age	Age subsidies

Countries

Country code	Russian name	English name
ABW	Аруба	Aruba
AFG	Афганистан	Afghanistan
AGO	Ангола	Angola
AIA	Ангилья	Anguilla
ALA	Аландские острова	Åland Islands
ALB	Албания	Albania
AND	Андорра	Andorra
ARE	ОАЭ	United Arab Emirates
ARG	Аргентина	Argentina
ARM	Армения	Armenia
ASM	Американское Самоа	American Samoa
ATA	Антарктида	Antarctica
ATF	Французские Южные и Антарктические Территории	French Southern Territories
ATG	Антигуа и Барбуда	Antigua and Barbuda
AUS	Австралия	Australia
AUT	Австрия	Austria
AZE	Азербайджан	Azerbaijan
BDI	Бурунди	Burundi
BEL	Бельгия	Belgium
BEN	Бенин	Benin
BES	Бонэйр Синт-Эстатиус и Саба	Bonaire Sint Eustatius and Saba

BFA	Буркина-Фасо	Burkina Faso
BGD	Бангладеш	Bangladesh
BGR	Болгария	Bulgaria
BHR	Бахрейн	Bahrain
BHS	Багамы	Bahamas
BIH	Босния и Герцеговина	Bosnia and Herzegovina
BLM	Сен-Бартелеми	Saint Barthélemy
BLR	Белоруссия	Belarus
BLZ	Белиз	Belize
BMU	Бермуды	Bermuda
BOL	Боливия	Bolivia
BRA	Бразилия	Brazil
BRB	Барбадос	Barbados
BRN	Бруней	Brunei Darussalam
BTN	Бутан	Bhutan
BVT	Остров Буве	Bouvet Island
BWA	Ботсвана	Botswana
CAF	ЦАР	Central African Republic
CAN	Канада	Canada
CCK	Кокосовые острова	Cocos (Keeling) Islands
CHE	Швейцария	Switzerland
CHL	Чили	Chile
CHN	КНР (Китайская Народная Республика)	China
CIV	Кот-д'Ивуар	Cote D'Ivoire
CMR	Камерун	Cameroon
COD	Демократическая Республика Конго	Congo the Democratic Republic of the
COG	Республика Конго	Congo
COK	Острова Кука	Cook Islands
1	·	

COL	Колумбия	Colombia
COM	Коморы	Comoros
CPV	Кабо-Верде	Cape Verde
CRI	Коста-Рика	Costa Rica
CUB	Куба	Cuba
CUW	Кюрасао	Curaçao
CXR	Остров Рождества	Christmas Island
CYM	Острова Кайман	Cayman Islands
CYP	Кипр	Cyprus
CZE	Чехия	Czech Republic
DEU	Германия	Germany
DJI	Джибути	Djibouti
DMA	Доминика	Dominica
DNK	Дания	Denmark
DOM	Доминиканская Республика	Dominican Republic
DZA	Алжир	Algeria
ECU	Эквадор	Ecuador
EGY	Египет	Egypt
ERI	Эритрея	Eritrea
ESH	САДР	Western Sahara
ESP	Испания	Spain
EST	Эстония	Estonia
ETH	Эфиопия	Ethiopia
FIN	Финляндия	Finland
FJI	Фиджи	Fiji
FLK	Фолклендские острова	Falkland Islands (Malvinas)
FRA	Франция	France
FRO	Фареры	Faroe Islands
FSM	Микронезия	Micronesia Federated States of

Pagori	Gabon
	United Kingdom
Грузия	Georgia
Гернси	Guernsey
Гана	Ghana
Гибралтар	Gibraltar
Гвинея	Guinea
Гваделупа	Guadeloupe
Гамбия	Gambia
Гвинея-Бисау	Guinea-Bissau
Экваториальная Гвинея	Equatorial Guinea
Греция	Greece
Гренада	Grenada
Гренландия	Greenland
Гватемала	Guatemala
Гвиана	French Guiana
Гуам	Guam
Гайана	Guyana
Гонконг	Hong Kong
Херд и Макдональд	Heard Island and Mcdonald Islands
Гондурас	Honduras
Хорватия	Croatia
Гаити	Haiti
Венгрия	Hungary
Индонезия	Indonesia
Остров Мэн	Isle of Man
Индия	India
Британская территория в Индийском океане	British Indian Ocean Territory
	Гернси Гана Гибралтар Гвинея Гваделупа Гамбия Гвинея-Бисау Экваториальная Гвинея Греция Гренада Гренландия Гватемала Гвиана Гуам Гайана Гонконг Херд и Макдональд Гондурас Хорватия Гаити Венгрия Индонезия Остров Мэн Индия Британская территория в Индийском

IRL	Ирландия	Ireland
IRN	Иран	Iran Islamic Republic of
IRQ	Ирак	Iraq
ISL	Исландия	Iceland
ISR	Израиль	Israel
ITA	Италия	Italy
JAM	Ямайка	Jamaica
JEY	Джерси	Jersey
JOR	Иордания	Jordan
JPN	Япония	Japan
KAZ	Казахстан	Kazakhstan
KEN	Кения	Kenya
KGZ	Киргизия	Kyrgyzstan
KHM	Камбоджа	Cambodia
KIR	Кирибати	Kiribati
KNA	Сент-Китс и Невис	Saint Kitts and Nevis
KOR	Республика Корея	Korea Republic of
KWT	Кувейт	Kuwait
LAO	Лаос	Lao People's Democratic Republic
LBN	Ливан	Lebanon
LBR	Либерия	Liberia
LBY	Ливия	Libyan Arab Jamahiriya
LCA	Сент-Люсия	Saint Lucia
LIE	Лихтенштейн	Liechtenstein
LKA	Шри-Ланка	Sri Lanka
LSO	Лесото	Lesotho
LTU	Литва	Lithuania
LUX	Люксембург	Luxembourg

LVA	Латвия	Latvia
MAC	Макао	Macao
MAF	Сен-Мартен	Saint Martin (French part)
MAR	Марокко	Morocco
MCO	Монако	Monaco
MDA	Молдавия	Moldova Republic of
MDG	Мадагаскар	Madagascar
MDV	Мальдивы	Maldives
MEX	Мексика	Mexico
MHL	Маршалловы Острова	Marshall Islands
MKD	Македония	Macedonia the Former Yugoslav Republic of
MLI	Мали	Mali
MLT	Мальта	Malta
MMR	Мьянма	Myanmar
MNE	Черногория	Montenegro
MNG	Монголия	Mongolia
MNP	Северные Марианские Острова	Northern Mariana Islands
MOZ	Мозамбик	Mozambique
MRT	Мавритания	Mauritania
MSR	Монтсеррат	Montserrat
MTQ	Мартиника	Martinique
MUS	Маврикий	Mauritius
MWI	Малави	Malawi
MYS	Малайзия	Malaysia
MYT	Майотта	Mayotte
NAM	Намибия	Namibia
NCL	Новая Каледония	New Caledonia
NER	Нигер	Niger

NFK	Остров Норфолк	Norfolk Island
NGA	Нигерия	Nigeria
NIC	Никарагуа	Nicaragua
NIU	Ниуэ	Niue
NLD	Нидерланды	Netherlands
NOR	Норвегия	Norway
NPL	Непал	Nepal
NRU	Науру	Nauru
NZL	Новая Зеландия	New Zealand
OMN	Оман	Oman
OST	Южная Осетия	South Ossetia
PAK	Пакистан	Pakistan
PAN	Панама	Panama
PCN	Острова Питкэрн	Pitcairn
PER	Перу	Peru
PHL	Филиппины	Philippines
PLW	Палау	Palau
PNG	Папуа — Новая Гвинея	Papua New Guinea
POL	Польша	Poland
PRI	Пуэрто-Рико	Puerto Rico
PRK	КНДР (Корейская Народно- Демократическая Республика)	Korea Democratic People's Republic of
PRT	Португалия	Portugal
PRY	Парагвай	Paraguay
PSE	Государство Палестина	Palestinian Territory Occupied
PYF	Французская Полинезия	French Polynesia
QAT	Катар	Qatar
REU	Реюньон	Reunion
ROU	Румыния	Romania

RUS	Россия	Russian Federation
RWA	Руанда	Rwanda
SAU	Саудовская Аравия	Saudi Arabia
SDN	Судан	Sudan
SEN	Сенегал	Senegal
SGP	Сингапур	Singapore
SGS	Южная Георгия и Южные Сандвичевы Острова	South Georgia and the South Sandwich Islands
SHN	Острова Святой Елены Вознесения и Тристан-да-Кунья	Saint Helena
SJM	Шпицберген и Ян-Майен	Svalbard and Jan Mayen
SLB	Соломоновы Острова	Solomon Islands
SLE	Сьерра-Леоне	Sierra Leone
SLV	Сальвадор	El Salvador
SMR	Сан-Марино	San Marino
SOM	Сомали	Somalia
SPM	Сен-Пьер и Микелон	Saint Pierre and Miquelon
SRB	Сербия	Serbia
SSD	Южный Судан	South Sudan
STP	Сан-Томе и Принсипи	Sao Tome and Principe
SUR	Суринам	Suriname
SVK	Словакия	Slovakia
SVN	Словения	Slovenia
SWE	Швеция	Sweden
SWZ	Свазиленд	Swaziland
SXM	Синт-Мартен	Sint Maarten (Dutch part)
SYC	Сейшельские Острова	Seychelles
SYR	Сирия	Syrian Arab Republic
TCA	Теркс и Кайкос	Turks and Caicos Islands
TCD	Чад	Chad

TGO	Того	Togo
THA	Таиланд	Thailand
TJK	Таджикистан	Tajikistan
TKL	Токелау	Tokelau
TKM	Туркмения	Turkmenistan
TLS	Восточный Тимор	Timor-Leste
TON	Тонга	Tonga
TTO	Тринидад и Тобаго	Trinidad and Tobago
TUN	Тунис	Tunisia
TUR	Турция	Turkey
TUV	Тувалу	Tuvalu
TWN	Китайская Республика	Taiwan
TZA	Танзания	Tanzania United Republic of
UGA	Уганда	Uganda
UKR	Украина	Ukraine
UMI	Внешние малые острова (США)	United States Minor Outlying Islands
URY	Уругвай	Uruguay
USA	США	United States of America
UZB	Узбекистан	Uzbekistan
VAT	Ватикан	Holy See (Vatican City State)
VCT	Сент-Винсент и Гренадины	Saint Vincent and the Grenadines
VEN	Венесуэла	Venezuela
VGB	Виргинские Острова (Великобритания)	Virgin Islands British
VIR	Виргинские Острова (США)	Virgin Islands U.S.
VNM	Вьетнам	Viet Nam
VUT	Вануату	Vanuatu
WLF	Уоллис и Футуна	Wallis and Futuna
WSM	Самоа	Samoa

XKX	Косово	Kosovo
YEM	Йемен	Yemen
ZAF	ЮАР	South Africa
ZMB	Замбия	Zambia
ZWE	Зимбабве	Zimbabwe

Attachment: Main IBE error codes

Error code	Description returned by IBE	Error Description	
IBE errors			
1000	Unknown IBE error	Unhandled exception, reason unknown.	
1001	Operation can not be performed due to invalid reservation state	Error gets raised if certain API method was called at improper moment in booking flow. For instance if api/services method was called right after api/session (booking was not created yet)	
1006	Failed to resolve timezone	Error might appear during failed attempt to refresh timezone dictionary	
1007	Session pool is unable to acquire stateful session as it's expired	The engine tries to get information about the session in the Session Pool, but there is no such session.	
1008	Data validation error	Validation error, might appear on all booking steps. For instance when invalid passenger data is being sent	
1013	Unable to load IBE reservation context	It is not possible to get information on the open session ID of the booking engine.	
1020	Failed to update or retrieve search log data	Service error. Occurs when an attempt to write logs to the database is unsuccessful.	
1021	Failed to update or retrieve reservation log data	Service error. Occurs when an attempt to read logs from the database is unsuccessful.	
1022	Failed connect to redis	Service error. Occurs when an attempt to connect to Redis is unsuccessful.	
1084	Any Fare wasn't found by given reservation params	The error appears if the sent fare doesn't return in recommendations.	
1085	Session is locked by another request	The error appears if the session is locked by another request.	
1098	Airport code not found	The error appears if the airport code not found.	
1500	Failed to receive exchange rates.	Unable to receive information for api/exchangerates.	

		Method uses API CB RF for receiving of data.		
1810	External system temporary unavailable	The error occurs when the SIG request circuit breaker is triggered.		
1811	Total request process did not complete within the timeout	The error occurs when the total requests processing did not complete within the timeout.		
2000	Unknown Connector error	Unhandled exception, unknown cause.		
2200	Airports service error	Unable to receive information from api/airports method.		
		Method uses API <u>u6.ru</u> for receiving of data.		
2201	Airports cache is empty	API airports method did not return data		
2202	Airports API returned invalid result	API airports method returned invalid data		
9004	Unknown IBE error. Null Ok response.	The error occurs if the response to the request to create a booking is returned empty.		
	OrderInfo errors			
20000	Incorrect login or password.	Occurs when invalid login or password is passed to request.		
4000	OrderInfo proxy service has failed to process request	Occurs when the proxy was unable to process the incoming request.		
4100	OrderInfo service has failed to process request	The error occurs if the GOI-proxy was unable to fulfill the request.		

Adding services to booking main error codes

Error code	IBE description	Error description
1000	Unknown error	Unknown error. Any error not handled by IBE.
1001	Invalid passenger or segment reference	Error appears when attempting to add service for passenger or segment not existing in booking.

Error code for determining the online registration restriction when requesting GET api/Checkin

Error code	IBE description	Error description
401033	Web	The error (SirenaSoapPassengerAgentTransitBortChanging) is

	available	passed to the registrationUnavailableCode parameter to hide the possibility of online registration and display the corresponding message to the passenger.
--	-----------	--

Attachment: Partner's services.

Partner codes

Partner code	Title
1	Alfastrah
2	Sealine insurance
3	Service
4	Aeroexpress
7	Telemedicine
8	Baggage packing
11	Alfastrah (Anticovid)
12	Sealine (Insurance AntiVirus)
13	Business room
21	Alfamedicine

Partner types

Partner type	Decryption
1	Insurance
2	Aeroexpress
3	Medicine

Aeroexpress service codes

N₂	Service code	Tariff decryption
1	STANDARTOW	Standard
2	STANDARTRT	Round trip
3	FAMILYRT	Family: Round trip
4	BUSINESSOW	Business
5	BUSINESSRT	Business: Round trip

Tariff description can be found on official Aeroexpress website: https://aeroexpress.ru/aero/prices.html

Alfastrah service codes

N₂	Service code	Tariff decryption
1	AVIA	Avia
2	TRAVEL	Travel
3	LUGGAGE	Luggage
4	SPORT	Sport
5	NOFLIGHT	No flight
6	AVIADYNAMIC	Avia with dynamic cost calculation
7	AVIADYNAMICBUS	Avia for Business fares with dynamic cost calculation

Tariff description https://www.uralairlines.ru/passengers-info/partner-services/insurance/

Alfastrah service codes (Anticovid)

N₂	Service code	Tariff decryption
1	ANTICOVID19	Anticovid Insurance for diclosure of COVID-19

Sealine service codes

Nº	Service code	Tariff decryption	Availablility
1	SLAVIA	Avia	Yes
2	SLAVIAPLUS	Avia+	Yes
3	SLSPORT	Sport	Yes
4	SLPROMO	Promo	Yes
5	SLPROMODYNAMIC	Promo with dynamic cost calculation	Yes
6	SLTRAVEL	Travel	Yes

Sealine service codes (COVID insurance)

Nº	Service code	Tariff decryption
1	SLANTICOVID	Insurance AntiCovid

Sberhealth service codes

Nº	Service code	Tariff decryption	Availablility
1	SBERDOC	Therapist and Pediatrician Online	Yes
2	SBERVET	Veterinarian Online	Yes

Alfahealth service codes

Nº	Service code	Tariff decryption	Availablility
1	AFLADOC	Therapist and Pediatrician Online	Yes

Business rooms service codes

N₂	Service code	Tariff decryption	Availablility
1	BLN	Business room	Yes
2	VLN	VIP room	Yes

Attachment: Service SSR

IBE adds PNR SSR for technical purposes. Their type, format and purpose is displayed below.

Service SSR for discounts

SSR with information about applied discount

Description: SSR is added in tariff booking with discount

Format: DISCOUNT/DSNN/UsageType/CampaignId/LESSX.XXXX/SegmentRefernece/Passe

ngerReference

Examples:

DISCOUNT/DS20/1/1-5KYLTGV/LESS34.6741/S12/P12

DISCOUNT/DS07/0/1-4NJKZL1/LESS6.9954/S12/P12

Field	Description	Comment
DISCOUNT	Constant	-
	DS - constant	Examples:
DSNN	NN - discount percent	DS05, DS15
UsageType	Discount application type	Fare = 0, Order = 1,
CampaignId	CRM discount campaign unique ID	Example: 1-45RT6KP
LESSX.XXXX	X.XXXX - actual percentage of discount from base fare	Example: LESS6.9954
ELOUZI,ZZZZZ	(taking into account the rounding of the discount amount to a multiple of 5 down)	LESS34.6741
SegmentRefernece	Reference to segment	Discount applies to all segment or not applies at all.
Segmenucereniece	reference to segment	Separate SSR is added for each segment.
PassengerReference	Reference to passenger	-

SSR with information about actual amount of discoount from base fare

Format: PREVBASEDIFF/XXX

Example:

PREVBASEDIFF/305

Field	Description	Comment
PREVBASEDIFF	Constant	-
XXX	Actual amount of discount in rubles after rounding down to a multiple of 5.	-

SSR with information about "Wings" card

Description: SSR is added in tariff booking with discount

Format: type = "FQTV", text="U6XXXXXXXXXXX" (max length of the field text = 18 chars)

Example: text = U61000761775

Service SSR for promo codes

Description: SSR is added when promo code is applied

Format of SSR for promo code for flight:

PROMO/Promocode/CampaignId/DSNN/LESSX.XXXX/SegmentRefernece/PassengerReferencee

Example: PROMO/WWJ0MTMV/1-48MLQR4/DS04/LESS3.7344/S12/P12

Field	Description	Comment
PROMO	Constant	-
Promocode	Applied promo code	Example: IBE21
CampaignId	CRM promo campaign unique ID	Example: 1-45H4OIC
DSNN	DS - constant NN - discount percent	Example: DS05, DS15
LESSX.XXXX	X.XXXX - actual percentage of discount from the base fare (taking into account the rounding of the discount amount to a multiple of 5 down)	Example: LESS3.7344

SegmentRefernece	Reference to segment	Discount applies to all segment or not applies at all. Separate SSR is added for each segment.
PassengerReference	Reference to passenger	-

Utility SSRs for partner services

Description: SSR is added when adding a partner service to the booking to send information on the partner service in an sbr file

Format:

PTR/PartnerId/ServiceId/Code/OrderId/Currency/Amount/Status/RefundAmount/PassengerReference/InfantFlag/SegmentReference/ppr

Example (Aeroexpress):

"PTR/4/65241A17717E4BEEB378B82763795A03/STANDARTOW/520501/RUB/500.00/1/0.0 0/P2///26250311"

Field	Description	Comment
PTR	Constant	-
PartnerId	Partner's unique identifier	Possible types described in Attachment 3.
ServiceId	Unique order's id	GUID
Code	Partner's service code	Possible types described in Attachment 3
OrderId	Order's id in partner's system	-
Currency	Currency	RUB
Amount	Service cost	Float number
Status	Service status. Possible values: NotIssued = 1, service is added to booking, awaits issuing Issued = 2, service is	Status code number is used in remark If service status is changing old remark is deleted first, then new remark is added with new status code.

	issued, obtained number of report document	
	IssueFailed = 3, service is added to booking, but error appeared during service issuing	
	Refunded = 4, service is cancelled, refund initiated	
RefundAmount	Refund amount	If refund was not initiated then field value is set to 0.00
PassengerReference	Reference to passenger for whom service is provided.	If service relates to particular passengers, and not for the whole booking, then references to all corresponding passengers are added.
InfantFlag	Obtains value "I", if service is provided for an infant.	For Aeroexpress: never filled in
SegmentReference	Reference to segment	A link to a segment is not added if the partner service is added to all segments. Currently only used for baggage packing partner. Example: S12
IssuedOffice	Ppr of the office under which the partner was added to the booking	-

Service SSRs for subsidized fares

Description: SSRs are added on subsidized fare bookings.

Format: type = "SPAX", text="SUBSIDIZED TARIFF".