

Managed Trading Service

September 2017

Ticket feed integration instructions

Version	Author	Date	Comment
3.0	Kirill Mavrodiev	2017-03-07	<ul style="list-style-type: none"> • Update ticket format version to 2.0: <ul style="list-style-type: none"> ◦ Support different stakes per combination in multi(system) bets within one ticket • Support of Betradar Unified Odds feed(UOF) • Added new Cancellation codes: 301 and 302 • Added new rejection codes: -107, -108,-109, -210, -211, -212, -336 • Mentioned up-coming functionality: <ul style="list-style-type: none"> ◦ Bet re-offer ◦ Odds change auto-acceptance • MTS supports only AMQP connect over TLS 1.2
3.1	Kirill Mavrodiev	2017-09-28	<ul style="list-style-type: none"> • Added description of: <ul style="list-style-type: none"> ◦ Bet re-offer ◦ Cash out ◦ 2 exceptions for UOF are added ◦ Amendments in rejection messages
			•

Purpose of this document

This document describes how a bet needs to be formatted as a ticket and transmitted to the Managed Trading Services (MTS) of Betradar. Besides showing examples of successful and false tickets it also describes the respective answers sent by the system.

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1 Introduction

The technical integration to Managed Trading Services is performed together with one of Sportradar's Client Integration(CI) Engineers using a permanent chat room e.g. Skype.

During this integration phase the risk limit configuration will be carried out by representatives from the MTS Operational Account Management (OAM) to ensure the ideal settings are put in place.

48 hours after the go live the client is handed over to Sportradar's normal 24/7 support structure to guarantee the best possible service.

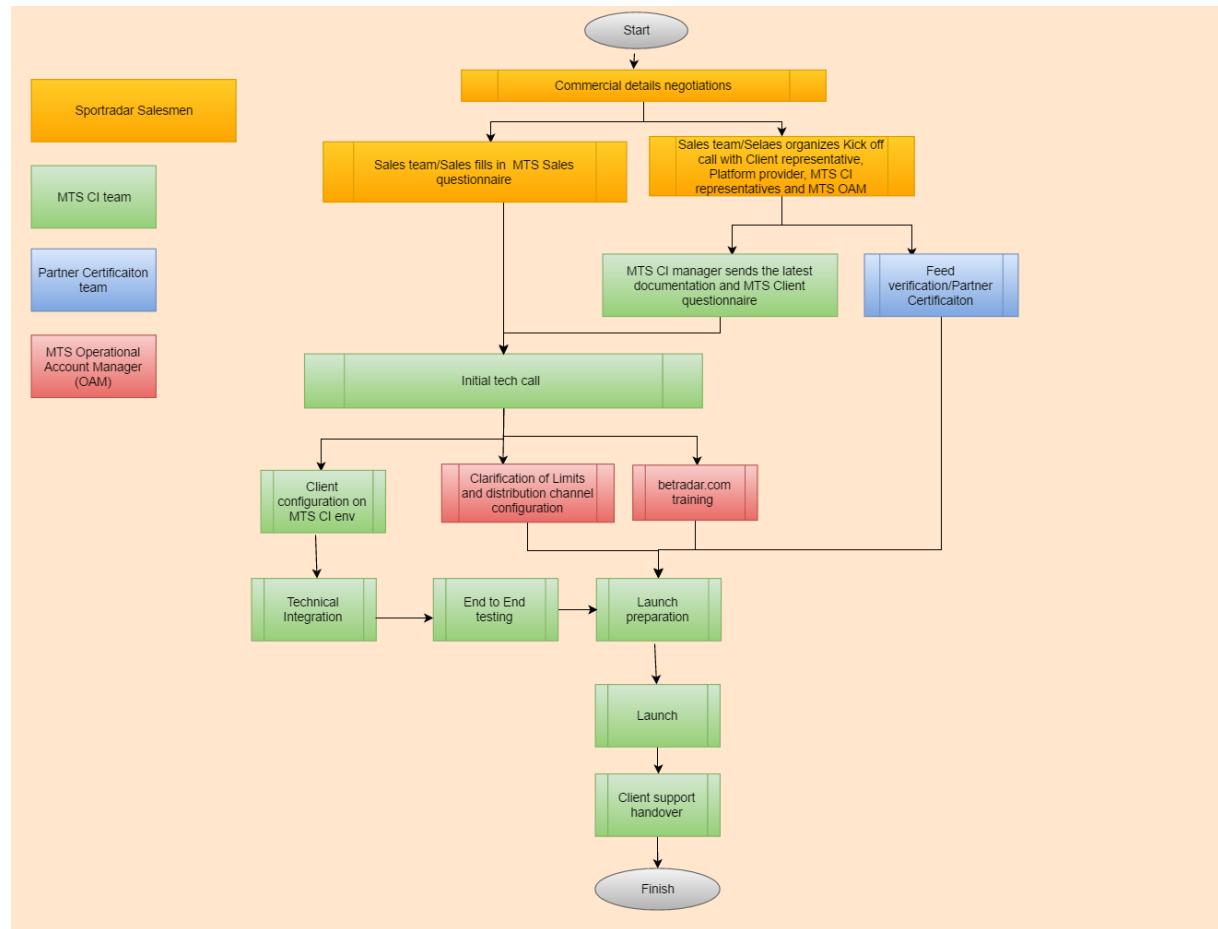
All business relevant communication regarding MTS will be handled by a dedicated MTS Operational Account Manager (OAM).

2 Pre-conditions

- The (external) source-IP(s) for all requests need to be white-listed on Betradar's firewalls.
- A secure connection between the betting platform and MTS has to be established to ensure all traffic is encrypted by TLS.
- A Bookmaker-ID needs to be assigned by Betradar and has to be used in each ticket.
- limitIDs need to be initially set-up by Betradar for each distribution channel. Please contact MTS-integration manager for details.
- The odds feed(s) (LiveOdds and/or LiveCycleOfOdds) are already integrated

3 Integration flow

Figure 3-1 Integration flow



1. The first interaction between an MTS Client and the MTS Client Integration (CI) team commences during a kick off call. This call is arranged by the relevant Betradar salesman after commercial details are agreed. Participants for the kick off call should be the operator's, representatives from the platform provider, MTS Client Integration and MTS Operational Account Manager (OAM) representatives. The following will be discussed during this call:
 - a. MTS integration flow;
 - b. Date for starting integration and planned launch date. Based on these dates resources are planned within the MTS CI team;
 - c. Scheduling of the initial technical call with developers from the MTS client side and MTS CI engineers.

2. After the kick off call the MTS CI manager
 - a. Creates a dedicated Skype chat which is used for communication with MTS during the integration phase with MTS;
 - b. Sends the latest version of the MTS ticket integration document and AMQP ticket feed documentation;
 - c. Sends MTS client questionnaires to the client;
 - d. Introduces the client to the Betradar Partner Certification team. This team is responsible for LO and/or LCoO feed certification. Feed certification is one of the prerequisites for the launch of the MTS service.
3. Technical client integration starts from an initial Skype or phone conference call. Participants of this call are the MTS CI team and a technical representor(s) from the client side. The following will be discussed during this call:
 - a. Integration flow
 - b. Ticket acceptance flow which is mentioned in chapter [6.1 Ticket acceptance flow](#)
 - c. AMQP communication concept between the client's platform and MTS
 - d. Possibility of sending production tickets to the MTS CI environment without following MTS suggestions/replies for testing purposes
 - e. Frequently asked questions for integration or launch.
4. After the MTS CI manager receives a completed technical questionnaire and GPG certificate (OpenPGP format) from the client, the "**Client Configuration on MTS CI**" phase starts with:
 - a. Clients bookmaker account (BMID) is subscribed to Managed Trading Services
 - b. Client's IPs are added to MTS CI environment whitelists (Note: Any additional white-listening IP request has to be sent to MTS CI via email "MTS-ClientIntegration@sportradar.com")
 - c. RabbitMQ setup for the client's ticket feed to MTS CI environment
 - d. Appropriate limitIDs are created on MTS CI environment.

Note: It might happen that several limitIDs will be created for the same client. E.g. separate limitIDs for different distribution channels. This fact must be taken in account while development.

5. Credentials encrypted with GPG are sent to the pre-agreed recipient. More about GPG encryption can be found here: <https://www.gnupg.org/gph/en/manual/x110.html> or <http://www.gpg4win.org/>
 - a. Note: In case of credentials being lost, they cannot be restored. If credentials are lost, new credentials will be created
6. After the Client receives AMQP credentials and limitIDs the Client integrates the ticket feed to MTS with support from MTS CI team in a dedicated Skype chat. This phase is called "**Technical Integration**".
7. In parallel to the ticket feed implementation, the MTS OAM manager is
 - a. discussing risk limits setup and ticket cancellation configuration for the MTS production environment:
 - i. Minimum stake limit
 - ii. Maximum payout limit
 - iii. Maximum liability limit
 - iv. Live and Pre-match bet factors

- v. Live time delay
- vi. Bet cancellation types
- vii. Acknowledgement period
- **Note:** The prerequisite is a completed MTS client questionnaire by the client
 - b. Arranging betradar.com training. This training is regarding Betradar feeds configuration from a business and operational perspective (eg odds key/configuration, outcomes harmonization, etc)
- 8. Parallel to the MTS CI and OAM activities, the Betradar Partner Certification team is performing the LO and/or LCoO feed certification on the client's platform.
- 9. After the client has completed the MTS ticket feed implementation, an end-to-end test is performed by MTS CI team which includes:
 - a. Placing bets on the client's sportsbook solution and verifying ticket JSON objects on the MTS side
 - b. Verification of reaction on bet acceptance suggestion (bet accepted and rejected)
 - c. Verification of quality of LO and LCoO feed integration (if the client can send production tickets to the MTS CI environment)

Note: Issues found during testing will require correction by the client or provision of an estimated time of issue resolution.

Note: Albeit not mandatory it is recommended to have the feed certification completed before the start of end to end testing. In exceptional circumstances end to end testing can start before feed certification, if the certification date has been scheduled.

- 10. After successful completion of end-to-end testing:
 - a. Client is notified of successful test completion via email
 - b. Client is configured on MTS production environment
- 11. With end-to-end testing/feed certification completed and a signed MTS contract, the client will receive an official launch acceptance via email
- 12. The launch confirmation email is followed by MTS production credentials encrypted with GPG
- 13. For the first 48 hours after launch MTS CI supports and monitors the client directly. After 48 hours, client support is handed over to the Sportradar Support Team. Any issues should then be addressed directly to Sportradar Support.

Note: By default, all tickets coming to MTS production are assumed as genuine production tickets and will be invoiced accordingly. All testing, demos and training for any employee must be carried out via the MTS CI environment.

3.1 LO and LCoO feeds certification

Validation of LO and LCoO feed integration to the client's platform is part of the integration with MTS which is completed by the Betradar Partner Certification program team. Certification is also completed in parallel to integration with MTS. Feed certification has to be finalized before the Launch.

4 Contacts

The MTS CI team is supporting the client throughout the entire MTS integration period and for the first 48 hours directly after the launch. The MTS CI team is available during the integration period via a dedicated Skype chat room or by email: MTS-ClientIntegration@sportradar.com.

After the launch support period of 48 hours, support is then handed over to our standard 24/7 Betradar Support Team who will ensure support availability and issue management.

For all enquiries relating to the usage of the Betradar LCoO and LO feeds, it is recommended to contact Betradar Support directly.

In the case of any operational issues, please contact the MTS Operational Account Manager (OAM): MTS-Client-Management@sportradar.com.

5 Connectivity

5.1 Connection endpoints

Client integration environment

Host	Integration-mts.betradar.com [91.201.213.134]
Port	5671 (AMQP over TLS 1.2 secure connection)

Production environment

Host	tradinggate.betradar.com [91.201.212.86]
Port	5671 (AMQP over TLS 1.2 secure connection)

Note: Insecure AMQP connections over port 5672 have been deprecated and will be disabled once all remaining clients are migrated over to the secure connection. This is in line with the upcoming EU's General Data Protection Regulation coming into effect in May 2018.

5.2 AMQP protocol and MTS SDK

MTS protocol is delivered via AMQP messaging protocol.

For .NET and Java clients, the preferred and most convenient means of integration is through MTS SDK library:

- <http://sdk.sportradar.com/mts/net>
- <http://sdk.sportradar.com/mts/java>

Please refer to "*MTS Java SDK Developer Guide*" and "*MTS .NET SDK Developer Guide*" for a quick way to get you started.

For other languages please consult "*MTS-integration with AMQP*" where you will be able to find all the information regarding messaging principles with AMQP, as well as initial hints on how to approach the first MTS AMQP messaging setup. Also included are important MTS specific knowledge and illustrative code examples, with more advanced links and hints to help you progress towards your desired MTS integration with AMQP.

MTS Border RabbitMQ cluster is running version 3.5.x, which should guide you when choosing a compatible AMQP client library.

6 The ticket transfer protocol

6.1 Ticket acceptance flow

The ticket acceptance flow (which is reflected in diagram “[Figure 6-1 Ticket acceptance flow](#)” on page 16) is described below:

1. Ticket is assembled to JSON object and sent to MTS
2. MTS sends consumer acknowledgement (basic ack) in case message is received by MTS
 - o If the consumer acknowledgement is not received on the client side, then it should be considered that MTS didn't receive the initial message with ticket-JSON.
3. After the ticket is received, MTS replies with suggestion as to whether the ticket should be accepted or rejected. (Average replay time is 25 ms)

Note: In the case of live bets, MTS applies a live time delay of up to 6 seconds.

- o If the Client does not receive a reply within 3 seconds (pre-match) and 10 seconds (live) then the client/operator should reject the bet and send bet cancellation 102 to MTS
4. After the Client/Operator receives a bet acceptance/rejection suggestion then the flow is split into two branches which are reviewed in separate chapters as detailed below.

6.1.1 MTS accepts bet

By default, we (MTS) are expecting that the client is following MTS Suggestion. In other words, if MTS accepts the bet then the same bet should be accepted by the Client. If there is a need to reject a bet which was accepted by MTS then:

1. A bet cancellation request should be sent to MTS

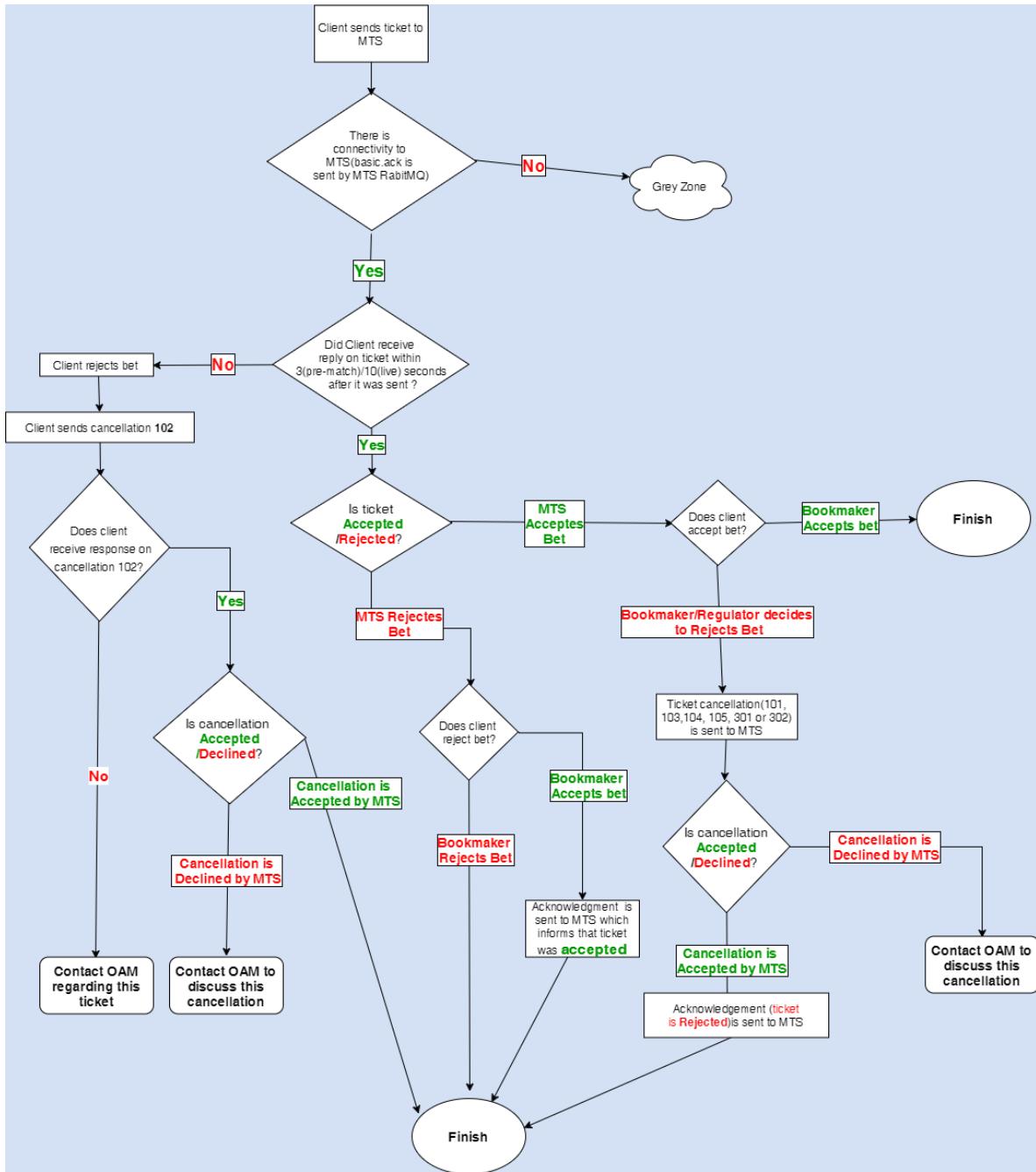
Note: There are different bet cancellation types. Please check chapter [6.10Ticket cancellation](#)
2. If a bet cancellation request is accepted by MTS, then
 - a. The Client rejects the bet
 - b. After the bet is rejected on the client side then the appropriate Acknowledgement message is sent to MTS to confirm that the bet was rejected
3. If a bet cancellation request is declined by MTS, then the client should retain the bet as accepted.
 - a. If the bet still needs to be rejected, then the client should contact the MTS

Operational Account Manager (OAM): MTS-Client-Management@sportradar.com

6.1.2 MTS rejects bet

If MTS rejects the bet, then we (MTS) are expecting that the client is also rejecting the bet. If there is need to accept a bet which was rejected by MTS, then the client should send the appropriate Acknowledgment message to MTS.

Figure 6-1 Ticket acceptance flow



6.2 Ticket JSON format

Starting from MTS ticket version 2.0, MTS supports several bets per one/single JSON ticket object with different stakes. In other words, it is possible to combine one JSON object with multi-system bets and different stakes or unit-stakes. In this chapter, the Ticket JSON object is described in human readable form. For each JSON object/sub-object/array in field “Nesting” there is a separate table name with a detailed description of the particular object or array.

For better understanding, several examples are provided in chapter [10 Appendix A: Valid Tickets](#). Examples are ordered based on complexity of bet type: starting from simple cases and finishing by complex multi-system bets with different amount of selections and different stakes per combination.

In addition to examples, JSON schemas are also added for all communication types in chapter [15 Appendix F \(JSON schemas\)](#):

- [Ticket JSON schema 2.0](#)
- [Ticket acceptance response JSON schema 2.0](#)
- [Ticket cancellation JSON schema 2.0](#)
- [Cancellation response JSON schema 2.0](#)
- [Ticket Acknowledgment JSON schema 2.0](#)
- [Ticket cancellation acknowledgement JSON schema 2.0](#)

All examples and schemas are available in separate text files. If any of these are missing, please request via email directly from the MTS Client Integration team MTS-ClientIntegration@sportradar.com.

The next chapters describe the format for bet cancellation messages, replies from MTS on ticket and ticket cancellation requests, and acknowledgement messages.

Table 6-1 Generic part of a ticket (format version 2.0)

Parameter name	Nesting	Mandatory/Optional	Data type	Description
version	No	Mandatory	string	Ticket format version. Current ticket format version is 2.0.
timestampUtc	No	Mandatory	integer	Timestamp of ticket placement (in UNIX time millis); minimum: 1; maximum: 9223372036854775807.
ticketId	No	Mandatory	string	Unique ticket id (in the client's system); minLength": 1; maxLength: 128
sender	Table 6-2 Sender object	Mandatory	object	Identification and settings of the ticket sender. In other words, this object contains information about distribution channel information, punter and device from which ticket was placed.
selections	Table 6-5 Selections Array	Mandatory	array	Array of all selections. Order is very important as they can be referenced by index in 'ticket.bets.selectionRefs'
bets	Table 6-6 Bets Array	Mandatory	array	List of bets in the ticket

Table 6-2 Sender object

Parameter name	Nesting	Mandatory/Optional	Data type	Description
currency	No	Mandatory	string	3 letter currency code
terminalId	No	Table Relations between distribution channel parameters 6-4	string	Terminal id (optional), "pattern": "[0-9A-Za-z:]{1,36}\$",
channel	No	Mandatory	string	Communication channel (optional), "enum": ["internet", "retail", "terminal", "mobile", "phone", "sms", "callCentre"]
shopId	No	Table Relations between distribution channel parameters 6-4	string	Identifier of physical shop
bookmakerId	No	Mandatory	integer	Client's id (provided by Sportradar to the client; "maximum": 2147483647, "minimum": 1
limitId	No	Mandatory	integer	Client's limit id (provided by MTS CI or OAM team) from where ticket was placed
endCustomer	Table endCustomer object 6-3	Table Relations between distribution channel parameters 6-4	object	Identification of the end user (customer)

Table 6-3 endCustomer object

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
id	No	Table 6-4 Relations between distribution channel parameters	string	End user's unique id (in Bookmaker's system)
ip	No	Table 6-4 Relations between distribution channel parameters	string	End user's IP
language	No	Table 6-4 Relations between distribution channel parameters	string	ISO 639-1 language code
deviceid	No	Table 6-4 Relations between distribution channel parameters	string	End user's device id
confidence	No	Optional	integer	Suggested Customer Confidence Factor(CCF) of the customer multiplied by 10000 and rounded to a long value

Table 6-4 Relations between distribution channel parameters

Distribution channel	Customer is	channel	endCustomer.id	shopId	terminalId	endCustomer.ip	endCustomer.deviceId	endCustomer.language
Internet	registered	mandatory	mandatory	blank	blank	mandatory	optional	mandatory
Mobile	registered	mandatory	mandatory	blank	blank	mandatory	optional	mandatory
SMS	registered	mandatory	mandatory	blank	blank	blank	optional	mandatory
Retail	unregistered	mandatory	blank	mandatory	blank	blank	optional	blank
Retail	registered	mandatory	mandatory	mandatory	blank	blank	optional	mandatory
Terminals	registered	mandatory	mandatory	optional	mandatory	blank	optional	mandatory
Terminals	unregistered	mandatory	blank	optional	mandatory	blank	optional	blank
Call Center	registered	mandatory	mandatory	optional	optional	optional	optional	optional

Table 6-5 Selections Array

Parameter name	Nesting	Mandatory/Optional	Data type	Description
eventId	No	Mandatory	integer	Betradar event (match or outright) id; minimum: 1; maximum: 9223372036854775807
id	No	Mandatory	string	<p>General format:<LineType>:<market>/<submarket>/<specialOddsValue>/<OutcomeID>*. Describes the result the end-customer is betting on. Blanks and other special characters should be omitted. In case of Betradar's Unified Odds Feed(UOF) please check chapter 6.3 Selection id in case of UOF</p> <p>Note: Goalscorer and Outrights markets urls has extended market urls.</p> <ul style="list-style-type: none"> for goalscorer markets the OutcomeID works this way: name_of_player!ID_of_the_player

				<ul style="list-style-type: none"> • Name and surname of player are separated by space for goalscorer markets: "Cristiano Ronaldo dos Santos Aveiro" (e.g. "market" : "lcoo:201/1/*/Cristiano Ronaldo dos Santos Aveiro!750") • For Outright bet example please check 10.9 Championship Outright and 10.10 Podium Outright <p>For live selections: live/<LO Market Type>/<SubtypeID>/<SpecialOddsValue>/><OutcomeID >; Note: If SubtypeID is unavailable then parameter value should be "0" (zero) Note: If Special Odds Value is unavailable then parameter value should be "*" E.g. Selection "1" of Live Soccer 3-Way Market: "live:2/0/*/1",</p> <p>For pre-match selections: lcoo/<Market OddsType>/<Sport ID>/<Special Odds Value>/<OutcomeID > ; E.g. "lcoo:321/1/*/YES" , "lcoo:10/1/*/X" .</p> <p>Note: For pre-match markets Special Odds Values should be always decimal, even if these values are integer in LCoO feed.</p> <p>For examples check Appendix A: Valid Tickets</p> <p>More details regarding LCoO Oddstype, LO Market Type and SubtypeID could be found Betradiator.com (Login)-> Help -> Developer Zone -> DownLoads -></p> <ul style="list-style-type: none"> • Life Cycle of Odds - Markets Betradiator Data Export - Live Odds - Market Overview
odds	No	Mandatory	integer	Odds multiplied by 10000 and rounded to int value

Table 6-6 Bets Array

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
id	No	Optional	string	Bet id (optional) in multi-bets ticket. If Client send this value then at the end of id should be suffice "_bet_N". Where N is bet number starting from 0. Check example 10.13 Multi-system bets ticket with different stakes
selectedSystems	No	Mandatory	array of integers	Array of all the systems. [0] is not allowed. In case of multiples it should be mentioned number of folds
selectionRefs	Table 6-7 selectionRefs Array	Optional	array	Array of selection references which form the bet (optional, if missing then all selections are used; Default: null)
stake	Table 6-8 Stake object	Mandatory	object	Stake of the bet
bonus	Table 6-9 Bonus object	Optional	object	Sport-betting bonus of the bet (optional, default null)

Table 6-7 selectionRefs Array

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
selectionIndex	No	Mandatory	integer	"Selection index from 'ticket.selections' array (zero based)"; maximum": 62; minimum": 0
banker	No	Optional	Boolean (true or false)	Flag if selection is banker (optional, default false)

Table 6-8 Stake object

Parameter name	Nesting	Mandatory/Optional	Data type	Description
value	No	Mandatory	integer	Stake amount in local currency multiplied by 10 000 and rounded to a long value. minimum: -1; maximum: 1000000000000000000;
type	No	Optional	string	Type of stake (optional, default total). "enum": ["total", "unit"] Clients can choose if they send MTS the unit stake (the value for each individual bet within a multiple bet of a ticket) or the total stake (the total stake for a multiple bet within the ticket).

Table 6-9 Bonus object

Parameter name	Nesting	Mandatory/Optional	Data type	Description
value	No	Mandatory	integer	Bonus amount which will be added to Win amount in case bet is won. Amount multiplied by 10000 and rounded to a long value. (Local currency)
type	No	Optional	string	Bonus type (optional, default total)
mode	No	Optional	string	Payout mode (optional, default all). Relevant mostly for system bets. All: all bets must win for bonus to be paid out.

6.3 Selection id in case of UOF

Betradar's Unified Odds Feed (UOF) is the next stage in making data transmission and integration even simpler and more comfortable. This new way of data delivery enables customers to access all the data Betradar supports in a fast and consistent manner. The feed works in conjunction with the entire range of our existing betting products: Life Cycle of Odds and soon Live Odds. If you integrated UOF, you would use the following template for parameter selections[i].id in ticket-JSON:

```
"uof:<product_id>/<sport_id>/<market_id>/<outcome_id>?<specifier1>=<value1> [&<specifierN=valueN>]*"
```

Java regex:

```
"^uof\\:(\\d+)\\/:sr\\:sport\\:\\d+\\/\\d+\\/[^\?]+((\\?[^=]+)\\=[^\&\\?]+((\\&[^=]+)\\=[^\&\\?]+)*?)?"
```

In case of UOF you have to account for the following exceptions:

- Markets whose SOV template contains a name of a property starting with “\$score”, additional market specifier named “\$score” must be provided and value must be current score of the match. Please check examples below
- In case of market id “215”, additional market specifier named “\$server” (who is currently server in the match). Value must be “0” or “1” depending on who is serving the match.

Examples:

SPORT	HUMAN READABLE NAME	Classical feeds (incl. selection)	UOF (incl. selection)	LINE
Ice hockey	Both Teams To Score	lcoo:43/4/*/NO	uof:3/sr:sport:4/29/76	Prematch
Soccer	1st Half - Clean sheet home team	lcoo:394/1/*/NO	uof:3/sr:sport:1/76/76	Prematch
Basketball	2nd Quarter - Draw no bet	lcoo:360/2/*/1	uof:3/sr:sport:2/302/4?quarternr=2	Prematch
Soccer	1st goalscorer		uof:3/sr:sport:1/38/sr:player:2166?goalnr=1&type=promatch&\$score=0:0	Prematch

6.4 Bet Type values

Table 6-10“Bet Types“

Name of bet type	Description
Single	One selection, one bet ("selectedSystems" : [1], selections count = 1).
Double	Two selections, one bet ("selectedSystems" : [2], selections count = 2).
Treble	Three selections, one bet ("selectedSystems" : [3], selections count = 3).
Accumulator	Four or more selections (also referred to as a fourfold, fivefold, sixfold etc.); maximum number of selections is capped at 63. No matter how many selections in an accumulator it is still always counted as one bet ("selectedSystems" : [<NUMBER OF FOLDS>], selections count = selections count).
Trixie	Three selections, consisting of 4 separate bets: 3 doubles and a treble ("selectedSystems": [2,3], selections count = 3).
Yankee	Four selections, consisting of 11 separate bets: 6 doubles, 4 trebles and a fourfold accumulator ("selectedSystems": [2,3,4], selections count = 4).
Canadian or Super Yankee	Five selections, consisting of 26 separate bets: 10 doubles, 10 trebles, 5 four-folds and a five-fold accumulator ("selectedSystems": [2,3,4,5], selections count = 5).
Heinz	Six selections, consisting of 57 separate bets: 15 doubles, 20 trebles, 15 four-folds, 6 five-folds and a six-fold accumulator ("selectedSystems": [2,3,4,5,6], selections count = 6).
Super Heinz	Seven selections, consisting of 120 separate bets: 21 doubles, 35 trebles, 35 four-folds, 21 five-folds, 7 six-folds and a seven-fold accumulator ("selectedSystems": [2,3,4,5,6,7], selections count = 7).
Goliath	Eight selections, consisting of 247 separate bets: 28 doubles, 56 trebles, 70 four-folds, 56 five-folds, 28 six-folds, 8 seven-folds and an eightfold accumulator

	(“selectedSystems”: [2,3,4,5,6,7,8], selections count = 8).
Patent	Three selections, consisting of 7 separate bets: 3 singles, 3 doubles and a treble. Equivalent to a Trixie plus 3 singles (“selectedSystems”: [1,2,3], selections count = 3).
Lucky 15	Four selections, consisting of 15 separate bets: 4 singles, 6 doubles, 4 trebles and a four-fold accumulator. Equivalent to a Yankee plus 4 singles (“selectedSystems”: [1,2,3,4], selections count = 4).
Lucky 31	Five selections, consisting of 31 separate bets: 5 singles, 10 doubles, 10 trebles, 5 four-folds and a five-fold accumulator. Equivalent to a Canadian plus 5 singles (“selectedSystems”: [1,2,3,4,5], selections count = 5).
Lucky 63	Six selections, consisting of 63 separate bets: 6 singles, 15 doubles, 20 trebles, 15 four-folds, 6 five-folds and a six-fold accumulator. Equivalent to a Heinz plus 6 singles (“selectedSystems”: [1,2,3,4,5,6], selections count = 6).
System Bet	System bets consist of various combinations of separate bets based on the total number of selections and the number of selections in each combination. The customer must pick a minimum of 1 selection and a maximum of 30 and then chose the number of selections they want in each combination (separate bet) (“selectedSystems”: [X] (X<selections count), selections count = selections count).
System Bet with Banker(s)	System bets placed with banker(s) in which the banker selection(s) is included in every separate bet (combination) of the system bet, and is required to win to provide the customer with any return.
System Bet with Ways	System bets placed with ways gives the option to include several selections from the same market as part of a system bet. The ways part of the bet refers to the market that has more than one selection included.

Note: MTS has the following limitations:

- MTS supports accumulators up to 63 folds(legs)
- MTS supports system bets with max 20 000 combinations or/and 30 legs.
- MTS Supports maximum 50 bets within single JSON-ticket

6.5 Assembling the selections.id parameter (selections array)

For details on how the Live-Odds or Life Cycle of Odds feed works, and how to extract the required information from it, please use the usual channels to get in contact with 1st level support (e.g. using the betradar.com access to help/developer-zone/download section, the live chat or by sending an email to support@sportradar.com).

6.6 Ticket response

Ticket response is a mandatory part of the ticket acceptance process where the ticket response from Betradar advises whether the ticket can be accepted or not. This is sent within 1 second or less (not considering a live-bet delay that can be configured - currently the live time delay is 7 seconds). The response then specifies if the ticket(s) was accepted or not.

For better understanding it is strongly recommended to check examples on:

- Ticket acceptances: [10 Appendix A: Valid Tickets](#)
- Ticket rejections: [11 Appendix B Invalid Tickets](#)
- Bet re-offer examples: [10.17 Bet re-offer accepted by MTS example](#) and [10.18 Bet re-offer rejected by MTS example](#).

In addition to examples Ticket acceptance/rejection response JSON schema is added to chapter [15.2 Ticket acceptance response JSON schema 2.0](#).

General ticket acceptance/rejection response is following:

Table 6-11 Ticket acceptance/rejection response

Parameter name	Nesting	Mandatory/Optional	Data type	Description
version	No	Mandatory	string	JSON format version (Currently must be '2.0')
signature	No	Mandatory	string	Response signature (previous betAcceptanceId)
result	Table 6-12 Ticket response.result	Mandatory	object	
exchangeRate	No	Mandatory	integer	The exchange rate used when converting currencies to EUR. Double multiplied by 10000 and rounded to a long value
selectionIndex	No	Optional	integer	Selection index from 'ticket.selections' array (zero based)

Table 6-12 Ticket response.result

Parameter name	Nesting	Mandatory/Optional	Data type	Description
ticketId	No	Optional	string	External ticket id which was sent by Bookmaker to MTS
Status	No	Mandatory	string	Acceptance status - accepted, rejected", "enum": ["accepted", "rejected"]
Reason	Table 6-13 Ticket response.reason	Mandatory	object	Object carrying information about rejection cause
betDetails	Table 6-14 Ticket response.betDetail	Optional	array	Bet-level rejection details

Table 6-13 Ticket response.reason

Parameter name	Nesting	Mandatory/Optional	Data type	Description
Code	No	Optional	integer	rejection/acceptance code
message	No	Optional	string	Rejection reason description
internalMessage	No	Optional	string	Contains additional information about the error (internal exception message)"

Table 6-14 Ticket response.betDetail

Parameter name	Nesting	Mandatory/Optional	Data type	Description
Items	Table 6-15 Ticket response.items	Optional	object	Reason on bet level

Table 6-15 Ticket response.items

Parameter name	Nesting	Mandatory/Optional	Data type	Description
selectionIndex	No	Mandatory	integer	Selection index from 'ticket.selections' array (zero based), "maximum": 62, "minimum": 0
reason	Table 6-13 Ticket response.reason	Mandatory	object	Object carrying information about rejection cause
betId	No	Mandatory	string	Particular Bet id
reoffer	Table 6-17 ticket response.reoffer	Optional	object	Bet reoffer details, mutually exclusive with alternativeStake
alternativeStake	Table 6-16 Ticket response.alternativeStake	Optional	object	Alternative stake, mutually exclusive with reoffer

Table 6-16 Ticket response.alternativeStake

Parameter name	Nesting	Mandatory/Optional	Data type	Description
stake	no	Mandatory	integer	Alternative stake. Double multiplied by 10 000 and rounded to a long value"; maximum:10000000000000000000; minimum: 1

Table 6-17 ticket response.reoffer

Parameter name	Nesting	Mandatory/Optional	Data type	Description
type	No	Mandatory	string	Reoffer type, if auto then stake will be present. If manual you should wait for reoffer stake over Reply channel; "enum":

				"auto"; "manual".
stake	No	Optional	integer	Reoffer stake. Double multiplied by 10000 and rounded to a long value

6.7 Alternative Stake

If a bet is rejected due to exceeded liability limits, MTS gives the end customer the chance of requesting the bet again with a lower stake which would have more chance of being accepted.

After the first rejection, MTS sends, together with the reply, an alternative stake value.

The bookmaker can then offer the end customer the chance of requesting the same bet with the alternative stake.

The alternative stake does not reserve liability; therefore, if the aggregated liability amount increases before the end customer accepts to place the bet with the Alternative Stake, the ticket might be rejected again.

High level flow:

- 1) Ticket is sent from operator to MTS
- 2) Ticket gets rejected due to exceeded liability
- 3) Rejection message is sent to the bookmaker and contains the Alternative Stake offer in the currency of the initial bet and an ID in order to identify the rejected ticket.
- 4) The new ticket placed with the Alternative Stake must contain the ID of the previous ticket rejected for liability reasons (see (3)).

*Please note that by default the alternative stake functionality is disabled on the MTS side. If you would like it to be activated, please contact the MTS OAM team.

6.8 Bet re-offer

In order to achieve the lowest possible rejection rate, the alternative stake feature has been enhanced and incorporated into the bet re-offer. Just as in the case of alternative stake, if liability limits are breached, the alternative stake value is sent to the customer together with the rejection response, but the liability is reserved for a certain time frame arranged with the bookmaker (basically the time for the end customer to decide whether to accept the re-offer or not).

If the end customer accepts the re-offer, the bet will be guaranteed acceptance as the liability for the bet will have been reserved.

Hence, a higher number of bets will be accepted and the end customer will not be disappointed by a second rejection.

*Please note that by default the bet re-offer functionality is disabled on the MTS side. If you would like it to be activated, please contact the MTS OAM team.

6.8.1 Technical specification

2 new parameters have been added to Ticket 2.0 as follows (reported in [14 Appendix E \(1.x vs 2.0\)](#))

Ticket JSON 2.0 parameters:

- **ticket.reofferRefId** - Id of re-offered ticket
- **ticket.bets[i].reofferRefId** - Id of re-offered bet

Example of bet re-offer communication is here: [10.17 Bet re-offer accepted by MTS example](#) and [10.18 Bet re-offer rejected by MTS example](#).

Ticket acceptance/rejection JSON 2.0 parameters are mentioned in [Table 6-17 ticket response.reoffer](#).

6.9 Odds change Auto Acceptance

At present, if any consistent odds change which breach the MTS allowed gap, the bet is rejected. For sportsbetting platforms which allow the end customer to confirm his consent to accept odds changes occurring during the bet placement process, MTS will offer in the near future the possibility to accept incoming ticket requests regardless of an odds change.

Ticket 2.0 has been already conceived to support the inclusion of the end customer acceptance of odds changes via an additional parameter:

Ticket JSON 2.0 parameter is already reserved:

- **ticket.oddsChange** - specifies whether odds change is acceptable for the ticket (enum: none, any, higher)

6.10 Ticket cancellation

Within the Betting industry it is sometimes necessary for a bookmaker/punter to cancel a bet. This can happen due to various scenarios, but in all cases MTS will need to be sent a cancellation request so that records between the bookmaker and MTS are aligned. Within MTS we have a pre-defined list of acceptable reasons for bet cancellations that are supported.

During integration, the OAM team will identify the required cancellation types and activate them for the client (including setting various configuration options). For any cancellation scenarios not listed please also contact OAM as these may be added but may require agreement between Sportradar and the client.

Each supported cancellation has a specific code and a corresponding reason message (please see table below).

Table 6-18 Cancellation options

Reason Code	Reason Message
101	Customer triggered Pre-match bet cancellation
102	Time Out triggered bet cancellation
103	Bookmaker Backoffice triggered bet cancellation
104	Bookmaker Technical issue triggered bet cancellation
105	Exceptional bookmaker triggered bet cancellation
301	Bet cancellation triggered by SOGEI (applicable for Italian jurisdictions)
302	Bet cancellation triggered by SCCS (applicable for Belorussian jurisdictions)

Customer triggered Pre-match bet cancellation (cancellation code 101)

Should be used to request a bet cancellation when a punter has cancelled a Pre-Match bet.

Time Out triggered bet cancellation (cancellation code 102)

Should be used to request a bet cancellation if a ticket response was not received by the client from the MTS service within a specific amount of time (suggest time period = 15 seconds).

Bookmaker Back office triggered bet cancellation (cancellation code 103)

Should be used if a ticket was sent with incorrect information (manual error for example - wrong selection / odds / stake / account number etc) and the bet needs to be cancelled and then re sent with correct information.

Bookmaker Technical issue triggered bet cancellation (cancellation code 104)

Should be used if a client encounters technical difficulties on their side and needs to cancel bets after the technical issue has been resolved.

Exceptional circumstances bookmaker triggered bet cancellation (cancellation code 105)

There can be other unforeseen occasions where cancellations may need to be requested (other than the above mentioned cancellations). In these instances, this cancellation code should be used.

Bet cancellation triggered by SOGEI (cancellation code 301)

Should be used to inform MTS of cancellations triggered by SOGEI.

Bet cancellation triggered by SCCS (cancellation code 302)

Should be used to inform MTS of cancellations triggered by SCCS.

6.10.1 Ticket cancellation request

To cancel a specific ticket, the following message needs to be sent to MTS (check example in [12.1 Cancellation request](#)):

Table 6-19 Ticket cancellation

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
cancel	Table 6-20 Ticket cancellation.cancel	Mandatory	object	

Table 6-20 Ticket cancellation.cancel

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
timestampUtc	No	Mandatory	integer	Timestamp of ticket cancel placement (in UNIX time millis), "minimum": 1, "maximum": 9223372036854775807
ticketId	No	Mandatory	string	Ticket id to cancel (in the client's system)
sender	Table 6-21 Ticket cancellation.sender	Mandatory	object	
code	No	Mandatory	integer	Cancellation code
version	No	Mandatory	string	JSON format version (currently is '2.0')

Table 6-21 Ticket cancellation.sender

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
bookmakerId	No	Mandatory	integer	Betradar's Bookmaker ID

6.10.2 Response for ticket cancellation

Table 6-22 Ticket cancellation response

Parameter name	Nesting	Mandatory/Optional	Data type	Description
version		Mandatory	string	JSON format version (currently is '2.0')
signature		Mandatory	string	MAC Response signature (previous betAcceptanceId)
result	Table 6-23 Ticket cancellation response.result	Mandatory	object	

Table 6-23 Ticket cancellation response.result

Parameter name	Nesting	Mandatory/Optional	Data type	Description
status	No	Mandatory	string	Cancellation status - cancelled, not cancelled
reason	Table 6-24 Ticket cancellation response.reason	Mandatory	object	
ticketId	No	Optional	string	Ticket id

Table 6-24 Ticket cancellation response.reason

Parameter name	Nesting	Mandatory/Optional	Data type	Description
code	No	Mandatory	integer	Cancellation code(s) which are mentioned in Table 6-25 Ticket Cancellation Response Codes
message	No	Optional	string	Cancellation rejection reason description

Table 6-25 Ticket Cancellation Response Codes

Code	Description
1024	Ticket Cancellation accepted
-2010	Ticket not found
-2011	Inconsistent ticket bookmaker Code
-2012	Ticket contains live selections
-2013	Ticket time for cancellation expired
-2015	Cannot be cancelled because it contains pre-match selection
-2016	Cannot be cancelled because particular cancellation option is not active
-2017	Cannot be cancelled because ticket is already settled
-999	Generic exception code

Note: For more details and examples please read the document "MTS-integration with AMQP".

6.11 Cash Out

The Cash Out feature allows operators to offer the end customer an opportunity to lock in a profit before a bet's results are actually known. Basically Cash Out is where an operator can offer the end customer a payout for a bet before the outcome of the bet is known. In order to offer MTS Clients with Cash Out currently Sportradar offers two services:

1. LO Cash Out-API which provides probabilities for open live markets/outcomes. For further documentation please contact Sportradar Support via email support@sportradar.com.
2. MTS Cash Out protocol, which allows the Operator to inform MTS about already processed Cash Outs.

In respect of MTS, the Operator is simply informing MTS about already cashed out bets. In this case, liabilities will be recalculated accordingly to the received information of the Cash Outs. The receipt of Cash Out information does not have an immediate effect on invoicing for the MTS services between Sportradar and the Operator.

*Please note that by default, the Cash Out functionality is disabled on the MTS side. If your platform supports Cash Out and you need the Cash out receipt activated in MTS, please contact the MTS OAM team.

6.11.1 Cash Out flow

From a procedures perspective, the Cash Out flow is slightly different to the bet cancellation flow. Before accepting the ticket cancellation, the Operator will send the appropriate ticket cancellation request to MTS. Only if the ticket cancellation request is accepted by MTS, the Operator can finalize the bet cancellation transaction.

In the case of Cash Out, the Operator sends the appropriate message to MTS after the Cash Out offer is accepted by the punter (post-factum).

1. Operator offers Cash Out to end customer
 - a. For Live betting Betradar offers probabilities
2. End Customer accepts Cash Out offer

3. Operator finalizes Cash Out and sends appropriate request to MTS
4. If MTS accepts the ticket Cash Out request, the flow is then complete.
5. If MTS declines the ticket Cash Out request, the Operator will need to contact the OAM in this instance.

6.11.2 Ticket Cash Out request

Examples of Cash Out communication are mentioned in [10.19 Cashout request accepted by MTS](#) and [10.20 Cashout request declined by MTS](#).

MTS can receive Cash Out requests regarding Cash Outs of Live and Pre-match bets as well as for singles and multiples. A Cash Out message will be accepted by MTS only if the following conditions are met:

- Events must be managed by MTS from a risk management perspective
- Ticket Cash Out value is equal to or less than the current ticket value (Stake*Prob*Odds)

After the Cash Out request is accepted by MTS, liabilities from that particular ticket will be removed.

6.11.3 Cash Out request format

Table 6-26 Ticket Cancellation request

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
ticketId	No	Mandatory	integer	Ticket id which was Cashed Out
sender	Table 6-27 Ticket Cash Out request sender	Mandatory	object	
cashoutStake	No	Mandatory	integer	Cash Out stake in the same currency as original ticket. Quantity multiplied by 10_000 and rounded to a long value
version	No	Mandatory	string	JSON format version (currently '2.0')
timestampUtc	No	Mandatory	integer	Timestamp of ticket Cash Out placement (in UNIX time millis)

Table 6-27 Ticket Cash Out request sender

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
bookmakerId	No	Mandatory	integer	Betradar bookmaker ID

6.11.4 Ticket Cash Out response

Table 6-28 Ticket Cash Out response

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
version		Mandatory	string	JSON format version (currently is '2.0')
signature		Mandatory	string	MAC Response signature (previous betAcceptanceId)
result	Table 6-29 Ticket Cash Out response results	Mandatory	object	

Table 6-29 Ticket Cash Out response results

Parameter name	Nesting	Mandatory/ Optional	Data type	Description
status	No	Mandatory	string	Cancellation status - cancelled, not cancelled
reason		Mandatory	object	
ticketId	No	Mandatory	string	Ticket id

Table 6-30 Ticket Cash Out response Codes

Code	Description
1024	Cash Out accepted
-101	Bookmaker not found
-102	Cash Out disabled for particular bookmaker ID or Limit ID
-103	Ticket not found

-104	Ticket rejected
-201	Ticket version lower than 2.0
-202	Ticket contains selection on un-managed event by MTS
-204	Cash Out amount is too high

7 Sportbetting Bonus

For operators offering a sports-betting bonus to their end customers (end customer receiving a % uplift on the winning amount depending on the number of selections in a multi bet) this bonus information shall be included in the ticket sent to the MTS-system as additional information in the ticket data.

If such a bonus is offered, the bonus winning amount must be included in the field „bets[i].bonus.value”. „bets[i].bonus.value” and have the same field type and dimension as the field „bets[i].stake.value”.

An example can be found in section: [10.12 4-Fold Accumulator with 80 Cents Sport-betting bonus](#).

The bonus value information does not directly affect liability and risk validation parameters, but is used by the MTS Trading Department and the MTS system in the continuous ticket monitoring to detect betting pattern variations which could be driven by bonus playing motivation by punters.

8 Ticket acceptance and Ticket cancellation acknowledgement

By default, client using the MTS service should follow the MTS bet acceptance suggestions and responses to ensure the correctness of the liability validations.

The MTS service assumes acknowledgment of the ticket per default for acceptance or rejection. Where agreed and set up during the integration process, bet cancellation requests can be sent by the client to the MTS service for selected business scenarios.

This results in the following 3 main transaction flows:

- Bet is accepted by MTS service, same bet is accepted on client side
- Bet is rejected by MTS service, same bet is rejected on client side
- Bet cancellation request is acknowledged by MTS service, cancellation for same bet is completed on client side (where bet cancellations have been defined and enabled for client)

A deviation to the above standard flows (where the client cannot process the MTS response as expected) should be treated as an exception and requires a Non-Acknowledgement message to be sent to the MTS service. This short message must contain Timestamp, SR Ticket ID and a value referring to Non-Acknowledgment Status.

Below you will find the format description for bet acceptance and cancellation acknowledgement messages.

Please note that acknowledgment messages are expected to be received in a predefined period to be processed by the MTS service. (Default acceptance period is 10 seconds)

Please contact the MTS Client Integration team if non-acknowledgments are required and in case the default acceptance period is not sufficient.

Examples can be found in section: [10.15 Ticket acknowledgment: Rejected ticket by MTS but accepted by Bookmaker](#)

Table 8-1 Ticket acceptance acknowledgement

Parameter name	Nesting	Mandatory/Optional	Data type	Description
sender	Table 8-2 Ticket acceptance acknowledgement.sender	Mandatory	object	
ticketId	No	Mandatory	string	
ticketStatus	No	Mandatory	string	enum: accepted; rejected
timestampUtc	No	Mandatory	integer	

version	No	Mandatory	string	
code	No	Optional	integer	
message	No	Optional	string	

Table 8-2 Ticket acceptance acknowledgement.sender

Parameter name	Nesting	Mandatory/Optional	Data type	Description
bookmakerId	no	Optional	integer	

8.1 Ticket cancellation acknowledgement

Table 8-3 Ticket cancellation acknowledgment

Parameter name	Nesting	Mandatory/Optional	Data type	Description
sender	-->	Mandatory	object	
ticketId	No	Mandatory	string	
ticketCancelStatus	No	Mandatory	string	enum: cancelled; not cancelled
timestampUtc	No	Mandatory	integer	
version	No	Mandatory	string	
code	No	Optional	integer	
message	No	Optinal	string	

Table 8-4 Ticket cancellation acknowledgment.sender

Parameter name	Nesting	Mandatory/Optional	Data type	Description
bookmakerId	no	Optional	integer	

9 Exchange Rates

The system currency of the MTS-service is Euro.

The MTS service uses the service **OpenExchange** (<https://openexchangerates.org>) as the exchange rate source to convert ticket values in non-EUR currencies to EUR. Rates are updated every full hour.

Rates are applied in the following way:

- Rates are applied using 6 decimals after the comma.
- On ticket level the rate at bet acceptance time is applied for the stake calculation in EUR.
- Winnings values are calculated based on the converted EUR values for stakes at bet acceptance time.

10 Appendix A: Valid Tickets

Note: All bet examples in this chapter are valid for ticket format version 2.0

10.1 Ticket with Live single bet with 3-Way market

Ticket with single bet on **Live** soccer event (Event ID: **11057047**), 3way, Away team (TypeID: **2**; SubTypeID: **0**; Special Odds value: *****; Selection: **2**)

```
{
    "version": "2.0",
    "timestampUtc": 1486638287859,
    "ticketId": "MTS_Test_20170209_110443572",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11057047,
            "id": "live:2/0/*/2",
            "odds": 12100
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170209_110443572_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 10000,
                "type": "total"
            }
        }
    ]
}
```

Response:

```
{
  "result": {
    "status": "accepted",
    "ticketId": "MTS_Test_20170209_110443572",
    "selectionIndex": 0,
    "reason": {
      "code": 1024,
      "message": "ticket accepted",
      "internalMessage": "ticket accepted"
    },
    "betDetails": []
  },
  "version": "2.0",
  "signature": "cLLr10CpPFFbleLnbruiGfzYMc2FcXUHMKJGCyNMrHU=",
  "exchangeRate": 10000
}
```

10.2 Pre-match Single bet Ticket

Ticket with single bet on **Pre-match** Soccer(Sport ID: **1**) event (Event ID: **11050343**), Halftime - 3way, Draw(oddstype: **42**, Special Odds value: *****; Selection: **X**)

```
)
{
  "version": "2.0",
  "timestampUtc": 1486541079460,
  "ticketId": "MTS_Test_20170208_080435391",
  "sender": {
    "currency": "EUR",
    "terminalId": "Tallinn-1",
    "channel": "internet",
    "shopId": null,
    "bookmakerId": 7669,
    "limitId": 424,
    "endCustomer": {
      "ip": "127.0.0.1",
      "languageId": "EN",
      "deviceId": "1234test",
      "id": "1234test",
      "confidence": 10000
    }
  },
  "selections": [
    {
      "eventId": 11050343,
      "id": "Icoo:42/1/*/X",
      "odds": 28700
    }
  ],
}
```

```
"bets": [{}  
        "id": "MTS_Test_20170208_080435391_bet_0",  
        "selectionRefs": [{}  
                          "selectionIndex": 0,  
                          "banker": false  
                      ],  
        "selectedSystems": [1],  
        "stake": {  
                  "value": 10000,  
                  "type": "total"  
                }  
      }]  
}
```

Response:

```
{  
  "result": {  
    "status": "accepted",  
    "ticketId": "MTS_Test_20170208_080435391",  
    "selectionIndex": 0,  
    "reason": {  
      "code": 1024,  
      "message": "ticket accepted",  
      "internalMessage": "ticket accepted"  
    },  
    "betDetails": []  
  },  
  "version": "2.0",  
  "signature": "25hP9o7Jyeq59uEjL6hM9p/87LjSOMJIGsFP9biH2QQ=",  
  "exchangeRate": 10000  
}
```

10.3 Double Pre-match

- Ticket with double bet on two **pre-match** selections:

Soccer (Sport ID: 1), Event ID: **11050343**, Halftime - 3way (oddstype: **42**), Special Odds value: *;
Draw

- Soccer (Sport ID: 1), Event ID: **10784408**, Asian handicap first half (oddstype: **53**),
 Special Odds value: **0.25**; **Home**

```
{
  "version": "2.0",
  "timestampUtc": 1486541317902,
  "ticketId": "MTS_Test_20170208_080837902",
  "sender": {
    "currency": "EUR",
    "terminalId": "Tallinn-1",
    "channel": "internet",
    "shopId": null,
    "bookmakerId": 7669,
    "limitId": 424,
    "endCustomer": {
      "ip": "127.0.0.1",
      "languageId": "EN",
      "deviceId": "1234test",
      "id": "1234test",
      "confidence": 10000
    }
  },
  "selections": [
    {
      "eventId": 11050343,
      "id": "Icoo:42/1/*/X",
      "odds": 28700
    },
    {
      "eventId": 10784408,
      "id": "Icoo:53/1/0.25/1",
      "odds": 16600
    }
  ],
  "bets": [
    {
      "id": "MTS_Test_20170208_080837902_bet_0",
      "selectionRefs": [
        {
          "selectionIndex": 0,
          "banker": false
        },
        {
          "selectionIndex": 1,
          "banker": false
        }
      ]
    }
  ]
}
```

```

        }],
        "selectedSystems": [2],
        "stake": {
            "value": 10000,
            "type": "total"
        }
    }
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_080837902",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "PEzBZ3X1sj2X6H0YUot2fWh/jVoMpmPlwbG82Vkdbyc=",
    "exchangeRate": 10000
}

```

10.4 Treble on Pre-match and Live

```

{
    "version": "2.0",
    "timestampUtc": 1486541578136,
    "ticketId": "MTS_Test_20170208_081257453",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    }
}
```

```

},
"selections": [
    {
        "eventId": 11050343,
        "id": "lcoo:42/1/*/1",
        "odds": 39600
    },
    {
        "eventId": 10784408,
        "id": "lcoo:42/1/*/1",
        "odds": 36600
    },
    {
        "eventId": 11052925,
        "id": "live:8/518/1-3/NO",
        "odds": 13799
    }
],
"bets": [
    {
        "id": "MTS_Test_20170208_081257453_bet_0",
        "selectionRefs": [
            {
                "selectionIndex": 0,
                "banker": false
            },
            {
                "selectionIndex": 1,
                "banker": false
            },
            {
                "selectionIndex": 2,
                "banker": false
            }
        ],
        "selectedSystems": [3],
        "stake": {
            "value": 10000,
            "type": "total"
        }
    }
]
}

```

Response:

```
{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_081257453",
        "selectionIndex": 0,
        "reason": {

```

```

        "code": 1024,
        "message": "ticket accepted",
        "internalMessage": "ticket accepted"
    },
    "betDetails": []
},
"version": "2.0",
"signature": "LsBmLjVBAHbJPJWDXrqivzqn8dVak424AKHzzYLR71c=",
"exchangeRate": 10000
}

```

10.5 System 3 / 4

```

{
    "version": "2.0",
    "timestampUtc": 1486541722745,
    "ticketId": "MTS_Test_20170208_081512584",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11050343,
            "id": "lcoo:42/1/*/X",
            "odds": 28700
        },
        {
            "eventId": 10784408,
            "id": "lcoo:53/1/-0.25/2",
            "odds": 14800
        },
        {
            "eventId": 11046885,
            "id": "lcoo:20/5/*/2",
            "odds": 11299
        }
    ]
}

```

```

},
{
    "eventId": 11029671,
    "id": "lcoo:339/5/1.5/1",
    "odds": 23500
}],
"bets": [
    {
        "id": "MTS_Test_20170208_081512584_bet_0",
        "selectionRefs": [
            {
                "selectionIndex": 0,
                "banker": false
            },
            {
                "selectionIndex": 1,
                "banker": false
            },
            {
                "selectionIndex": 2,
                "banker": false
            },
            {
                "selectionIndex": 3,
                "banker": false
            }
        ],
        "selectedSystems": [3],
        "stake": {
            "value": 10000,
            "type": "total"
        }
    }
]
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_081512584",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
}

```

```

        "signature": "tEetGo2TufKsjQXHNA70HYrp3zFVIGD53uQcTa4KLmA=",
        "exchangeRate": 10000
    }
}
```

10.6 SYSTEM 3 / 4 including 1 Banker

```

{
    "version": "2.0",
    "timestampUtc": 1486541813148,
    "ticketId": "MTS_Test_20170208_081638900",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11050343,
            "id": "lcoo:42/1/*/X",
            "odds": 28700
        },
        {
            "eventId": 10784408,
            "id": "lcoo:53/1/-0.25/2",
            "odds": 14800
        },
        {
            "eventId": 11046885,
            "id": "lcoo:20/5/*/2",
            "odds": 11299
        },
        {
            "eventId": 11029671,
            "id": "lcoo:339/5/1.5/1",
            "odds": 23500
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170208_081638900_bet_0",

```

```

    "selectionRefs": [
        {
            "selectionIndex": 0,
            "banker": true
        },
        {
            "selectionIndex": 1,
            "banker": false
        },
        {
            "selectionIndex": 2,
            "banker": false
        },
        {
            "selectionIndex": 3,
            "banker": false
        }
    ],
    "selectedSystems": [3],
    "stake": {
        "value": 10000,
        "type": "total"
    }
}
]
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_081638900",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "BZhkXozROR7sOE5JcTKH9xFLORqJWZNv5IHtOec9uM=",
    "exchangeRate": 10000
}

```

10.7 System 3 / 5 incl 1 Ways

```
{
    "version": "2.0",
```

```
"timestampUtc": 1486541903305,  
"ticketId": "MTS_Test_20170208_081756931",  
"sender": {  
    "currency": "EUR",  
    "terminalId": "Tallinn-1",  
    "channel": "internet",  
    "shopId": null,  
    "bookmakerId": 7669,  
    "limitId": 424,  
    "endCustomer": {  
        "ip": "127.0.0.1",  
        "languageId": "EN",  
        "deviceId": "1234test",  
        "id": "1234test",  
        "confidence": 10000  
    }  
},  
"selections": [  
    {  
        "eventId": 11050343,  
        "id": "lcoo:42/1/*/X",  
        "odds": 28700  
    },  
    {  
        "eventId": 10784408,  
        "id": "lcoo:53/1/-0.25/2",  
        "odds": 14800  
    },  
    {  
        "eventId": 11046885,  
        "id": "lcoo:20/5/*/2",  
        "odds": 11299  
    },  
    {  
        "eventId": 11029671,  
        "id": "lcoo:339/5/1.5/1",  
        "odds": 23500  
    },  
    {  
        "eventId": 11029671,  
        "id": "lcoo:339/5/1.5/2",  
        "odds": 16800  
    }],  
"bets": [{  
    "id": "MTS_Test_20170208_081756931_bet_0",  
    "selectionRefs": [{  
        "selectionIndex": 0,
```

```

        "banker": false
    },
    {
        "selectionIndex": 1,
        "banker": false
    },
    {
        "selectionIndex": 2,
        "banker": false
    },
    {
        "selectionIndex": 3,
        "banker": false
    },
    {
        "selectionIndex": 4,
        "banker": false
    }],
    "selectedSystems": [3],
    "stake": {
        "value": 10000,
        "type": "total"
    }
}
]
}
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_081756931",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "ExfTrg/fTGUu7uaBqLB4oMGM5maxJacg4TCezAtkhM4=",
    "exchangeRate": 10000
}

```

10.8 System 3 / 5 including 1 Ways including 1 banker

```
{
    "version": "2.0",
    "timestampUtc": 1486541988840,
    "ticketId": "MTS_Test_20170208_081937380",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11050343,
            "id": "lcoo:42/1/*/X",
            "odds": 28700
        },
        {
            "eventId": 10784408,
            "id": "lcoo:53/1/-0.25/2",
            "odds": 14800
        },
        {
            "eventId": 11046885,
            "id": "lcoo:20/5/*/2",
            "odds": 11299
        },
        {
            "eventId": 11029671,
            "id": "lcoo:339/5/1.5/1",
            "odds": 23500
        },
        {
            "eventId": 11029671,
            "id": "lcoo:339/5/1.5/2",
            "odds": 16800
        }
    ],
}
```

```

"bets": [
    {
        "id": "MTS_Test_20170208_081937380_bet_0",
        "selectionRefs": [
            {
                "selectionIndex": 0,
                "banker": true
            },
            {
                "selectionIndex": 1,
                "banker": false
            },
            {
                "selectionIndex": 2,
                "banker": false
            },
            {
                "selectionIndex": 3,
                "banker": false
            },
            {
                "selectionIndex": 4,
                "banker": false
            }
        ],
        "selectedSystems": [3],
        "stake": {
            "value": 10000,
            "type": "total"
        }
    }
]
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_081937380",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
        },
        "internalMessage": "ticket accepted"
    },
    "betDetails": []
},
"version": "2.0",
"signature": "dpYQ5rTSrpxmlqk3iH07YFH6PqNosTYiH4HMu0NFBA=",
"exchangeRate": 10000
}

```

}

10.9 Championship Outright

```
{
    "version": "2.0",
    "timestampUtc": 1486542262981,
    "ticketId": "MTS_Test_20170208_082354462",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 40777,
            "id": "Icoo:30/14/*6495408",
            "odds": 12200
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170208_082354462_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 10000,
                "type": "total"
            }
        }
    ]
}
```

Response:

```
{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_082354462",
    }
}
```

```

    "selectionIndex": 0,
    "reason": {
        "code": 1024,
        "message": "ticket accepted",
        "internalMessage": "ticket accepted"
    },
    "betDetails": []
},
"version": "2.0",
"signature": "RwX0WBza30pX2cp1mi8qKpWisbwazBSMyYHar+qZMb4=",
"exchangeRate": 10000
}
}

```

10.10 Podium Outright

```

{
    "version": "2.0",
    "timestampUtc": 1486542120288,
    "ticketId": "MTS_Test_20170208_082158791",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 40987,
            "id": "Icoo:50/14/*/7080578",
            "odds": 121600
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170208_082158791_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {

```

```
        "value": 10000,  
        "type": "total"  
    }  
}  
}]  
}
```

Response:

```
{  
    "result": {  
        "status": "accepted",  
        "ticketId": "MTS_Test_20170208_082158791",  
        "selectionIndex": 0,  
        "reason": {  
            "code": 1024,  
            "message": "ticket accepted",  
            "internalMessage": "ticket accepted"  
        },  
        "betDetails": []  
    },  
    "version": "2.0",  
    "signature": "F2QSFIGNxwDKeb/1ATKI9DJjch9mpElSuea9S/rNAEA=",  
    "exchangeRate": 10000  
}
```

10.11 Two single bets on the same event within one ticket

Ticket example where punter/better/endCustomer choose two selections from different markets, but from the same event

```
{
    "version": "2.0",
    "timestampUtc": 1486630402175,
    "ticketId": "MTS_Test_20170209_085154948",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11050841,
            "id": "lcoo:10/1/*/1",
            "odds": 17700
        },
        {
            "eventId": 11050841,
            "id": "lcoo:51/1/-1.25/2",
            "odds": 15600
        }
    ],
    "bets": [
        {
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 10000.0,
                "type": "total"
            }
        },
        {
        }
    ]
}
```

```

        "selectionRefs": [
            {
                "selectionIndex": 1,
                "banker": false
            },
            "selectedSystems": [1],
            "stake": {
                "value": 10000.0,
                "type": "total"
            }
        ]
    }
}

```

10.12 4-Fold Accumulator with 80 Cents Sport-betting bonus

```

{
    "version": "2.0",
    "timestampUtc": 1486542684021,
    "ticketId": "MTS_Test_20170208_083025108",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11050915,
            "id": "lcoo:20/5/*/1",
            "odds": 14100
        },
        {
            "eventId": 11029671,
            "id": "lcoo:20/5/*/2",
            "odds": 13600
        },
        {
            "eventId": 11052893,
            "id": "lcoo:20/5/*/2",
            "odds": 16900
        }
    ]
}

```

```

},
{
    "eventId": 11051699,
    "id": "lcoo:20/5/*1",
    "odds": 10900
}],
"bets": [
    {
        "id": "MTS_Test_20170208_083025108_bet_0",
        "selectionRefs": [
            {
                "selectionIndex": 0,
                "banker": false
            },
            {
                "selectionIndex": 1,
                "banker": false
            },
            {
                "selectionIndex": 2,
                "banker": false
            },
            {
                "selectionIndex": 3,
                "banker": false
            }
        ],
        "selectedSystems": [4],
        "stake": {
            "value": 70000,
            "type": "total"
        },
        "bonus": {
            "value": 8000,
            "type": "total",
            "mode": "all"
        }
    }
]
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_083025108",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
        }
    }
}

```

```

        "internalMessage": "ticket accepted"
    },
    "betDetails": []
},
"version": "2.0",
"signature": "/mFqX/V/5jfRjkQK5vnaG8PKA25ddWUgrkLMiSNiSco=",
"exchangeRate": 10000
}

```

10.13 Multi-system bets ticket with different stakes

```

{
    "version": "2.0",
    "timestampUtc": 1486542821533,
    "ticketId": "MTS_Test_20170208_083341533",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11050915,
            "id": "lcoo:20/5/*/1",
            "odds": 14100
        },
        {
            "eventId": 11029671,
            "id": "lcoo:339/5/1.5/2",
            "odds": 16800
        },
        {
            "eventId": 11052893,
            "id": "lcoo:20/5/*/2",
            "odds": 16900
        }
    ]
}

```

```
"eventId": 11052537,  
"id": "lcoo:20/5/*/2",  
"odds": 10400  
}],  
"bets": [{  
    "id": "MTS_Test_20170208_083341533_bet_0",  
    "selectionRefs": [{  
        "selectionIndex": 0,  
        "banker": false  
    },  
    {  
        "selectionIndex": 1,  
        "banker": false  
    },  
    {  
        "selectionIndex": 2,  
        "banker": false  
    },  
    {  
        "selectionIndex": 3,  
        "banker": false  
    }],  
    "selectedSystems": [1],  
    "stake": {  
        "value": 40000,  
        "type": "total"  
    }  
},  
{  
    "id": "MTS_Test_20170208_083341533_bet_1",  
    "selectionRefs": [{  
        "selectionIndex": 0,  
        "banker": false  
    },  
    {  
        "selectionIndex": 1,  
        "banker": false  
    },  
    {  
        "selectionIndex": 2,  
        "banker": false  
    },  
    {  
        "selectionIndex": 3,  
        "banker": false  
    }],  
}
```

```

    "selectedSystems": [2],
    "stake": {
        "value": 60000,
        "type": "total"
    }
},
{
    "id": "MTS_Test_20170208_083341533_bet_2",
    "selectionRefs": [
        {
            "selectionIndex": 0,
            "banker": false
        },
        {
            "selectionIndex": 1,
            "banker": false
        },
        {
            "selectionIndex": 2,
            "banker": false
        },
        {
            "selectionIndex": 3,
            "banker": false
        }
    ],
    "selectedSystems": [3],
    "stake": {
        "value": 120000,
        "type": "total"
    }
}
]
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_083341533",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
}

```

```

    "signature": "GIO7xzbrUI27MmVVXXCyS2t5DCdrUQQmr2w8H3amaWE=",
    "exchangeRate": 10000
}
```

10.14 Multi-systems ticket with different number of selections and with different unit-stakes

```

{
  "version": "2.0",
  "timestampUtc": 1486543274805,
  "ticketId": "MTS_Test_20170208_084114805",
  "sender": {
    "currency": "EUR",
    "terminalId": "Tallinn-1",
    "channel": "internet",
    "shopId": null,
    "bookmakerId": 7669,
    "limitId": 424,
    "endCustomer": {
      "ip": "127.0.0.1",
      "languageId": "EN",
      "deviceId": "1234test",
      "id": "1234test",
      "confidence": 10000
    }
  },
  "selections": [
    {
      "eventId": 11050915,
      "id": "lcoo:20/5/*/1",
      "odds": 14100
    },
    {
      "eventId": 11029671,
      "id": "lcoo:339/5/1.5/2",
      "odds": 16800
    },
    {
      "eventId": 11052893,
      "id": "lcoo:20/5/*/2",
      "odds": 16900
    },
    {
      "eventId": 11052531,
      "id": "lcoo:20/5/*/2",
      "odds": 15600
    }
  ],
  "bets": [

```

```
"id": "MTS_Test_20170208_084114805_bet_0",
"selectionRefs": [
    {
        "selectionIndex": 0,
        "banker": false
    },
    {
        "selectionIndex": 1,
        "banker": false
    },
    {
        "selectionIndex": 2,
        "banker": false
    },
    {
        "selectionIndex": 3,
        "banker": false
    }
],
"selectedSystems": [3],
"stake": {
    "value": 60000,
    "type": "total"
}
},
{
"id": "MTS_Test_20170208_084114805_bet_1",
"selectionRefs": [
    {
        "selectionIndex": 1,
        "banker": false
    },
    {
        "selectionIndex": 2,
        "banker": false
    },
    {
        "selectionIndex": 3,
        "banker": false
    }
],
"selectedSystems": [2],
"stake": {
    "value": 120000,
    "type": "total"
}
},
{
"id": "MTS_Test_20170208_084114805_bet_2",
"selectionRefs": [
```

```

        "selectionIndex": 1,
        "banker": false
    },
    {
        "selectionIndex": 3,
        "banker": false
    }],
    "selectedSystems": [1],
    "stake": {
        "value": 80000,
        "type": "total"
    }
}
]
}

```

Response:

```

{
    "result": {
        "status": "accepted",
        "ticketId": "MTS_Test_20170208_084114805",
        "selectionIndex": 0,
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "NfyInwUE11KjeAA0MrAVXen53Rc5baxFTb0Aqyg4VgU=",
    "exchangeRate": 10000
}

```

10.15 Ticket acknowledgment: Rejected ticket by MTS but accepted by Bookmaker

```

{
    "version": "2.0",
    "timestampUtc": 1486543888170,
    "ticketId": "MTS_Test_20170208_085128170",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
    }
}
```

```

        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 10962158,
            "id": "lcoo:382/110/*/1",
            "odds": 11000
        }],
    "bets": [
        {
            "id": "MTS_Test_20170208_085128170_bet_0",
            "selectionRefs": [],
            "selectedSystems": [1],
            "stake": {
                "value": 1,
                "type": "total"
            },
            "bonus": null
        }
    ]
}

```

Response from MTS:

```

{
    "result": {
        "ticketId": "MTS_Test_20170208_085128170",
        "status": "rejected",
        "reason": {
            "code": -306,
            "message": "stake to low 1.0E-4 (min: 0.01)",
            "internalMessage": "stake to low 1.0E-4 (min: 0.01)"
        },
        "betDetails": [
            {
                "betId": "MTS_Test_20170208_085128170_0",
                "reason": {
                    "code": -306,
                    "message": "stake to low 1.0E-4 (min: 0.01)",
                    "internalMessage": "stake to low 1.0E-4 (min: 0.01)"
                },
                "selectionDetails": []
            }
        ],
        "version": "2.0",
    }
}

```

```

    "signature": "kURPBfGsSgi6kcob0KxE4iOF0AUDIOXLCMiLUkJ1EV8=",
    "exchangeRate": 10000
}

```

Acknowledgment from Bookmaker that ticket was still accepted on Bookmaker side:

```

{
    "sender": {
        "bookmakerId": 7669
    },
    "ticketId": "MTS_Test_20170208_085128170",
    "ticketStatus": "accepted",
    "code": 830,
    "message": "",
    "timestampUtc": 1486543896352,
    "version": "2.0"
}

```

10.16 Ticket cancellation acknowledgement communication

```

{
    "version": "2.0",
    "timestampUtc": 1486546004353,
    "ticketId": "MTS_Test_20170208_092644353",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "limitId": 424,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 11052279,
            "id": "lcoo:382/31/*/1",
            "odds": 106800
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170208_092644353_bet_0",

```

```

        "selectionRefs": [],
        "selectedSystems": [1],
        "stake": {
            "value": 10000,
            "type": "total"
        },
        "bonus": null
    }]
}

```

Response on the ticket:

```

{
    "result": {
        "ticketId": "MTS_Test_20170208_092644353",
        "status": "accepted",
        "reason": {
            "code": 1024,
            "message": "ticket accepted",
            "internalMessage": "ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "dn8KYq/6knORqJFp9crCle1Rb+Y72fkPS8opA4PxwZE=",
    "exchangeRate": 10000
}

```

Ticket is cancelled by punter with cancellation code 101:

```

{
    "timestampUtc": 1486546023372,
    "ticketId": "MTS_Test_20170208_092644353",
    "sender": {
        "bookmakerId": 7669
    },
    "code": 101,
    "version": "2.0"
}

```

Ticket cancellation request was accepted by MTS:

```

{
    "cancellationReason": 101,
    "code": 1024,
    "message": "Ticket Cancellation accepted",
}

```

```

        "reasonMessage": null
    }
}
```

Acknowledgement that ticket was rejected on Bookmaker side:

```

{
    "sender": {
        "bookmakerId": 7669
    },
    "ticketId": "MTS_Test_20170208_092644353",
    "ticketStatus": "rejected",
    "code": 830,
    "message": "",
    "timestampUtc": 1486546208625,
    "version": "2.0"
}
```

10.17 Bet re-offer accepted by MTS example

Note: Ticket must contains fields "reofferRefId" and/or "bets[i].reofferRefId" (RFU) with correct data. The "odds" field values in re-offered ticket must be same as in initial ticket. Field "stake.value" must be same as in re-offer.

Ticket acceptance request from Operator to MTS:

```

{
    "version": "2.0",
    "timestampUtc": 1486542821533,
    "ticketId": "MTS_Ticket_Version_20_Test_123",
    "sender": {
        "currency": "EUR",
        "terminalId": "null",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 8675,
        "limitId": 308,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "Darren",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 9736293,
            "id": "lcoo:406/1/*/2",
            "odds": 10100
        }
    ]
}
```

```
        }],
        "bets": [
            {
                "id": "MTS_Ticket_Version_20_Test_123_bet_0",
                "selectionRefs": [
                    {
                        "selectionIndex": 0,
                        "banker": false
                    }
                ],
                "selectedSystems": [1],
                "stake": {
                    "value": 110000000,
                    "type": "total"
                },
                "bonus": {
                    "value": 0,
                    "type": "total",
                    "mode": "all"
                }
            }
        ]
    }
}
```

Ticket rejection response from MTS to Operator:

```
{
    "result": {
        "ticketId": "MTS_Ticket_Version_20_Test_123",
        "status": "REJECTED",
        "reason": {
            "code": -701,
            "message": "Liability EUR 110.0 is over Total liability limit EUR 100.0 on Limit ID level, Selection: lcoo:406/1/*/2, Match: 9736293"
        },
        "betDetails": [
            {
                "betId": "MTS_Ticket_Version_20_Test_123_bet_0",
                "reason": {
                    "code": -701,
                    "message": "Liability EUR 110.0 is over Total liability limit EUR 100.0 on Limit ID level, Selection: lcoo:406/1/*/2, Match: 9736293"
                },
                "selectionDetails": [
                    {
                        "selectionIndex": 0,
                        "reason": {
                            "code": -701,
                            "message": "Liability EUR 110.0 is over Total liability limit EUR 100.0 on Limit ID level, Selection: lcoo:406/1/*/2, Match: 9736293"
                        }
                    }
                ],
            }
        ],
    }
}
```

```

        "alternativeStake": null,
        "reoffer": {
            "stake": 99009800,
            "type": "AUTO",
            "additionalProperties": {
                }
            }
        },
        "version": "2.0",
        "signature": "GIUr4iU01yhyzAwr5AaNigzhLytuo489UoafQy5Er9U=",
        "exchangeRate": 10000,
        "additionalProperties": {
            }
    }
}

```

Ticket acceptance request with reduced stake from Operator to MTS:

```

{
    "version": "2.0",
    "timestampUtc": 1491578625522,
    "ticketId": "MTS_Ticket_Version_20_Test_822",
    "reofferRefId": "MTS_Ticket_Version_20_Test_123",
    "sender": {
        "currency": "EUR",
        "terminalId": "null",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 8675,
        "limitId": 308,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "Darren",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 9736293,
            "id": "lcoo:406/1/*/2",
            "odds": 10100
        }
    ],
    "bets": [
        {
            "id": "MTS_Ticket_Version_20_Test_822_bet_0",

```

```

    "reofferRefId": "MTS_Ticket_Version_20_Test_123_bet_0",
    "selectionRefs": [
        {
            "selectionIndex": 0,
            "banker": false
        },
        "selectedSystems": [1],
        "stake": {
            "value": 99009800,
            "type": "total"
        },
        "bonus": {
            "value": 0,
            "type": "total",
            "mode": "all"
        }
    }
}
]
}

```

Ticket acceptance response from MTS to Operator:

```

{
    "result": {
        "ticketId": "MTS_Ticket_Version_20_Test_822",
        "status": "accepted",
        "reason": {
            "code": 1024,
            "message": "Ticket accepted"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "7amjGb4EB7mydUgDMgpW77A9VEiPFt7Zd5dDtcjJCt0=",
    "exchangeRate": 10000
}

```

10.18 Bet re-offer rejected by MTS example

Ticket acceptance request from Operator to MTS:

```

{
    "version": "2.0",
    "timestampUtc": 1486542821533,
    "ticketId": "MTS_Ticket_Version_20_Test_123",
    "sender": {
        "currency": "EUR",

```

```

        "terminalId": "null",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 8675,
        "limitId": 308,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "Darren",
            "confidence": 10000
        }
    },
    "selections": [
        {
            "eventId": 9736293,
            "id": "lcoo:406/1/*/2",
            "odds": 10100
        }
    ],
    "bets": [
        {
            "id": "MTS_Ticket_Version_20_Test_123_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 110000000,
                "type": "total"
            },
            "bonus": {
                "value": 0,
                "type": "total",
                "mode": "all"
            }
        }
    ]
}

```

Ticket rejection response from MTS to Operator:

```
{
    "result": {
        "ticketId": "MTS_Ticket_Version_20_Test_123",
        "status": "REJECTED",
        "reason": {
            "code": -701,

```

```

        "message": "Liability EUR 110.0 is over Total liability limit EUR 100.0 on Limit
ID level, Selection: lcoo:406/1/*/2, Match: 9736293"
    },
    "betDetails": [
        "betId": "MTS_Ticket_Version_20_Test_123_bet_0",
        "reason": {
            "code": -701,
            "message": "Liability EUR 110.0 is over Total liability limit EUR 100.0
on Limit ID level, Selection: lcoo:406/1/*/2, Match: 9736293"
        },
        "selectionDetails": [
            {
                "selectionIndex": 0,
                "reason": {
                    "code": -701,
                    "message": "Liability EUR 110.0 is over Total liability limit EUR
100.0 on Limit ID level, Selection: lcoo:406/1/*/2, Match: 9736293"
                }
            }
        ],
        "alternativeStake": null,
        "reoffer": {
            "stake": 99009800,
            "type": "AUTO",
            "additionalProperties": {
            }
        }
    ]
},
"version": "2.0",
"signature": "GIUr4iU01yhyzAwr5AaNigzhLytuo489UoafQy5Er9U=",
"exchangeRate": 10000,
"additionalProperties": {
}
}
}

```

Ticket acceptance request with reduced stake from Operator to MTS:

```
{
    "version": "2.0",
    "timestampUtc": 1491578625522,
    "ticketId": "MTS_Ticket_Version_20_Test_822",
    "reofferRefId": "MTS_Ticket_Version_20_Test_123",
    "sender": {
        "currency": "EUR",
        "terminalId": "null",
    }
}
```

```

    "channel": "internet",
    "shopId": null,
    "bookmakerId": 8675,
    "limitId": 308,
    "endCustomer": {
        "ip": "127.0.0.1",
        "languageId": "EN",
        "deviceId": "1234test",
        "id": "Darren",
        "confidence": 10000
    }
},
"selections": [
    {
        "eventId": 9736293,
        "id": "lcoo:406/1/*/2",
        "odds": 10100
    }
],
"bets": [
    {
        "id": "MTS_Ticket_Version_20_Test_822_bet_0",
        "reofferRefId": "MTS_Ticket_Version_20_Test_123_bet_0",
        "selectionRefs": [
            {
                "selectionIndex": 0,
                "banker": false
            }
        ],
        "selectedSystems": [1],
        "stake": {
            "value": 110000000,
            "type": "total"
        },
        "bonus": {
            "value": 0,
            "type": "total",
            "mode": "all"
        }
    }
]
}
  
```

Ticket rejection response from MTS to Operator as bet re-offer was done with stake higher than suggested:

```
{
  "result": {
    "ticketId": "MTS_Ticket_Version_20_Test_822",
    "status": "rejected",
    "reason": {
      "code": -210,
      "text": "Stake is higher than suggested"
    }
  }
}
```

```

        "message": "stake 11000.0 does not match re-offered stake 9900.98"
    },
    "betDetails": []
},
"version": "2.0",
"signature": "pHscggZ4j1Pa/VzaolzdL992ODORI6ITrK4rgwlql+4=",
"exchangeRate": 10000
}

```

10.19 Cashout request accepted by MTS

Ticket acceptance request from Operator to MTS:

```

{
    "version": "2.0",
    "timestampUtc": 1502439827480,
    "ticketId": "MTS_Test_20170811_082348000",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 9985,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        },
        "limitId": 93
    },
    "selections": [
        {
            "eventId": 11470701,
            "id": "live:4/0/0:1/1",
            "odds": 11000
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170811_082347480_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 1000000,
                "type": "total"
            }
        }
    ]
}

```

```

        },
        "bonus": {
            "value": 10000,
            "type": "total",
            "mode": "all"
        }
    }]
}

```

Ticket acceptance response from MTS to Operator:

```
{
    "code": 1024,
    "result": "accepted",
    "ticketId": "MTS_Test_20170811_082348000",
    "exceptionMessage": null,
    "exchangeRate": "1.0",
    "betAcceptanceId": "aWksc7s0iRfydongdjhjQ6GeG8bQ4zqeJ3uCb5CCKY="
}
```

Cashout message from Operator to MTS:

```
{
    "ticketId": "MTS_Test_20170811_082348000",
    "sender": {
        "bookmakerId": 9985
    },
    "cashoutStake": 750000,
    "version": "2.0",
    "timestampUtc": 1491468131000
}
```

Cashout acceptance response from MTS to Operator:

```
{
    "result": {
        "ticketId": "MTS_Test_20170811_082348000",
        "status": "accepted",
        "reason": {
            "code": 1024
        }
    },
    "signature": "YQPpm8rZCmCcbzEuPtD9igxAmVeX9dLULMozU8TTKYw=",
    "version": "2.0"
}
```

10.20 Cashout request declined by MTS

Ticket acceptance request from Operator to MTS:

```
{
```

```

"version": "2.0",
"timestampUtc": 1502439827480,
"ticketId": "MTS_Test_20170811_082347480",
"sender": {
    "currency": "EUR",
    "terminalId": "Tallinn-1",
    "channel": "internet",
    "shopId": null,
    "bookmakerId": 9985,
    "endCustomer": {
        "ip": "127.0.0.1",
        "languageId": "EN",
        "deviceId": "1234test",
        "id": "1234test",
        "confidence": 10000
    },
    "limitId": 93
},
"selections": [
    {
        "eventId": 11470701,
        "id": "live:4/0/0:1/1",
        "odds": 11000
    }
],
"bets": [
    {
        "id": "MTS_Test_20170811_082347480_0",
        "selectionRefs": [
            {
                "selectionIndex": 0,
                "banker": false
            }
        ],
        "selectedSystems": [1],
        "stake": {
            "value": 1000000,
            "type": "total"
        },
        "bonus": {
            "value": 10000,
            "type": "total",
            "mode": "all"
        }
    }
]
}

```

Ticket acceptance response from MTS to Operator:

```
{
    "code": 1024,
    "result": "accepted",
}
```

```
        "ticketId": "MTS_Test_20170811_082347480",
        "exceptionMessage": null,
        "exchangeRate": "1.0",
        "betAcceptanceld": "FS3uJrRXnwMwrXI+yaTc8ODnJZ9JfbBtxN4esNeo0f0="
    }
```

Cashout message from Operator to MTS:

```
{
    "ticketId": "MTS_Test_20170811_082347480",
    "sender": {
        "bookmakerId": 9985
    },
    "cashoutStake": 500000,
    "version": "2.0",
    "timestampUtc": 1491468131000
}
```

Cashout declination response from MTS to Operator:

```
{
    "result": {
        "ticketId": "MTS_Test_20170811_082347480",
        "status": "rejected",
        "reason": {
            "code": -102,
            "message": "cashout disabled"
        }
    },
    "signature": "sqCszv4zuXtUDcTnhBoS6qUEkyZBVDL8enrEH/S9PeI=",
    "version": "2.0"
}
```

11 Appendix B Invalid Tickets

11.1 Missing mandatory field

```
{
    "version": "2.0",
    "timestampUtc": 1486712681342,
    "ticketId": "MTS_Test_20170210_074437207",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "shopId": null,
        "bookmakerId": 7669,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        },
        "limitId": 424
    },
    "selections": [
        {
            "eventId": 9982375,
            "id": "lcoo:381/1/*/1",
            "odds": 95399
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170210_074437207_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 50000,
                "type": "total"
            },
            "bonus": {
                "value": 10000,
                "type": "total",
                "mode": "all"
            }
        }
    ]
}
```

Response:

```
{
  "result": {
    "status": "rejected",
    "ticketId": "MTS_Test_20170210_074437207",
    "selectionIndex": 0,
    "reason": {
      "code": -100,
      "message": "missing mandatory field ticket.sender.channel",
      "internalMessage": "missing mandatory field ticket.sender.channel"
    },
    "betDetails": []
  },
  "version": "2.0",
  "signature": "n9DnEeVzo5KEnHiAwp9VDacvuNBNRCrCoJ7SBmPOEpk=",
  "exchangeRate": 10000
}
```

11.2 Breaching liability limit

```
{
  "version": "2.0",
  "timestampUtc": 1486711997902,
  "ticketId": "MTS_Test_20170210_073316434",
  "sender": {
    "currency": "EUR",
    "terminalId": "Tallinn-1",
    "channel": "internet",
    "shopId": null,
    "bookmakerId": 7669,
    "endCustomer": {
      "ip": "127.0.0.1",
      "languageId": "EN",
      "deviceId": "1234test",
      "id": "1234test",
      "confidence": 10000
    },
    "limitId": 424
  },
  "selections": [
    {
      "eventId": 9596355,
      "id": "lcoo:42/1/*1",
      "odds": 28400
    },
    {
      "eventId": 10807316,
```

```

        "id": "lcoo:42/1/*/2",
        "odds": 63500
    }],
    "bets": [
        {
            "id": "MTS_Test_20170210_073316434_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                },
                {
                    "selectionIndex": 1,
                    "banker": false
                }
            ],
            "selectedSystems": [2],
            "stake": {
                "value": 1000000,
                "type": "total"
            },
            "bonus": {
                "value": 10000,
                "type": "total",
                "mode": "all"
            }
        }
    ]
}

```

Response:

```

{
    "result": {
        "status": "rejected",
        "ticketId": "MTS_Test_20170210_073316434",
        "selectionIndex": 0,
        "reason": {
            "code": -703,
            "message": "selection lcoo:42/1/*/1 for event 9596355 has breached source bet liability limit (aggregated: 1174.8200000000002, limit: 1000.0)",
            "internalMessage": "selection lcoo:42/1/*/1 for event 9596355 has breached source bet liability limit (aggregated: 1174.8200000000002, limit: 1000.0)"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "EFg+zoUOMTiGpfew1PN+xQSkDFNoB28/U2HHvVXo0Wg=",
    "exchangeRate": 10000
}

```

11.3 Exceeding maximum payout limit

```
{
    "version": "2.0",
    "timestampUtc": 1486712242778,
    "ticketId": "MTS_Test_20170210_073721163",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        },
        "limitId": 424
    },
    "selections": [
        {
            "eventId": 10807316,
            "id": "lcoo:42/1/*/1",
            "odds": 24200
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170210_073721163_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 1000000,
                "type": "total"
            },
            "bonus": {
                "value": 10000,
                "type": "total",
                "mode": "all"
            }
        }
    ]
}
```

Response:

```
{
    "result": {
```

```

    "status": "rejected",
    "ticketId": "MTS_Test_20170210_073721163",
    "selectionIndex": 0,
    "reason": {
        "code": -511,
        "message": "has exceeded maximum payout: 142.0 (max: 50.0)",
        "internalMessage": "has exceeded maximum payout: 142.0 (max: 50.0)"
    },
    "betDetails": [
        "betId": "MTS_Test_20170210_073721163_bet_0",
        "reason": {
            "code": -511,
            "message": "has exceeded maximum payout: 142.0 (max: 50.0)",
            "internalMessage": "has exceeded maximum payout: 142.0 (max: 50.0)"
        },
        "selectionDetails": []
    ],
    "version": "2.0",
    "signature": "UgJGUpFhzDgvGV232OQI9vFgMiUtPnT+H/xicCUQKpM=",
    "exchangeRate": 10000,
    "latency": 103
}
}

```

11.4 Stake is lower than minimum stake limit

```
{
    "version": "2.0",
    "timestampUtc": 1486712515873,
    "ticketId": "MTS_Test_20170210_074154626",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        },
        "limitId": 424
    },
    "selections": [

```

```

        "eventId": 9982375,
        "id": "lcoo:381/1/*/1",
        "odds": 95399
    }],
    "bets": [
        {
            "id": "MTS_Test_20170210_074154626_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                }
            ],
            "selectedSystems": [1],
            "stake": {
                "value": 10000,
                "type": "total"
            },
            "bonus": {
                "value": 10000,
                "type": "total",
                "mode": "all"
            }
        }
    ]
}

```

Response:

```

{
    "result": {
        "status": "rejected",
        "ticketId": "MTS_Test_20170210_074154626",
        "selectionIndex": 0,
        "reason": {
            "code": -306,
            "message": "stake to low 1.0 (min: 2.0)",
            "internalMessage": "stake to low 1.0 (min: 2.0)"
        },
        "betDetails": [
            {
                "betId": "MTS_Test_20170210_074154626_0",
                "reason": {
                    "code": -306,
                    "message": "stake to low 1.0 (min: 2.0)",
                    "internalMessage": "stake to low 1.0 (min: 2.0)"
                },
                "selectionDetails": []
            }
        ],
        "version": "2.0",
        "signature": "GM4tIZFjh4FL0UsBWzxXadZQkNat4mO7pUSnR1Gr8rM="
    }
}

```

```

        "exchangeRate": 10000
    }
}
```

11.5 Outcome is not active

```

{
    "version": "2.0",
    "timestampUtc": 1486716115821,
    "ticketId": "MTS_Test_20170210_084145340",
    "sender": {
        "currency": "EUR",
        "terminalId": "Tallinn-1",
        "channel": "internet",
        "shopId": null,
        "bookmakerId": 7669,
        "endCustomer": {
            "ip": "127.0.0.1",
            "languageId": "EN",
            "deviceId": "1234test",
            "id": "1234test",
            "confidence": 10000
        },
        "limitId": 424
    },
    "selections": [
        {
            "eventId": 9596355,
            "id": "lcoo:42/1/*/2",
            "odds": 37300
        },
        {
            "eventId": 11061255,
            "id": "live:8/84/9.5/OVER",
            "odds": 63300
        }
    ],
    "bets": [
        {
            "id": "MTS_Test_20170210_084145340_bet_0",
            "selectionRefs": [
                {
                    "selectionIndex": 0,
                    "banker": false
                },
                {
                    "selectionIndex": 1,
                    "banker": false
                }
            ],
            "selectedSystems": [2],
            "stake": {

```

```

        "value": 1000000,
        "type": "total"
    },
    "bonus": {
        "value": 10000,
        "type": "total",
        "mode": "all"
    }
}
}
```

Response:

```

{
    "result": {
        "status": "rejected",
        "ticketId": "MTS_Test_20170210_084145340",
        "selectionIndex": 0,
        "reason": {
            "code": -404,
            "message": "event 11061255 outcome OVER not active for live:8/84/9.5/OVER
on lines provider",
            "internalMessage": "event 11061255 outcome OVER not active for
live:8/84/9.5/OVER on lines provider"
        },
        "betDetails": []
    },
    "version": "2.0",
    "signature": "T/RJCZIm7JFka+KWUOsPa0JrqMV2ntBhPHIFhh8HeI=",
    "exchangeRate": 10000
}
```

12 Appendix C Ticket cancellation

12.1 Cancellation request

```
{      "timestampUtc": 1486546023372,  
      "ticketId": "MTS_Test_20170208_092644353",  
      "sender": {  
          "bookmakerId": 7669  
      },  
      "code": 101,  
      "version": "2.0"  
}
```

12.2 Response for the valid cancellation request

```
{      "cancellationReason": 101,  
      "code": 1024,  
      "message": "Ticket Cancellation accepted",  
      "reasonMessage": null  
}
```

12.3 Responses for invalid cancellation requests

12.3.1 Ticket not found

This will happen if a ticket cancellation request is sent for a ticket that does not exist in MTS

```
{      "cancellationReason": 101,  
      "code": -2010,  
      "message": "Ticket not found",  
      "reasonMessage": null  
}
```

12.3.2 Cancellation type is not active

This will happen if a ticket cancellation request is sent for a particular cancellation type that has not been activated on the MTS side. In this case the client should contact OAM

```
{  
    "cancellationReason": 101,  
    "code": -2016,  
    "message": "Cannot be cancelled because particular cancellation option is not active",  
    "reasonMessage": null  
}
```

13 Appendix D (Validation codes)

Table 13-1

Scenario	Outcome	Code	Rejection message
Checks passed	Accepted	1024	
Model Exceptions			
A field which is mandatory in the ticket is missing or empty. The missing field is specified in the rejection message.	Rejected	-100	The following mandatory field is missing: <parameterName>
Value in mandatory field has wrong type	Rejected	-101	Invalid value in field bet.sys, is not of expected type
A field which is supposed to contain a number was sent in the ticket by the customer but with the wrong number type. For example, a float was sent instead of an integer. The field with wrong number type is specified in the rejection message.fields only)	Rejected	-103	Invalid numeric type for field bet.stk
A date field is sent with the wrong format. Field, wrong date and expected format are specified in the rejection message.	Rejected	-104	Invalid date format for field "ts_UTC", found "20161616", expected date format is "YYYYMMDDHHMMSS"
a)The field ChannelID was sent with a value which is not recognized by MTS or with a format error. Allowed values are listed in the rejection message. b)The field source.terminalID was sent with a value which exceeds the allowed length. c)The field endcustomerID was sent with a value which exceeds the allowed length.	Rejected	-106	a)Invalid value in field "channelId", found "Custom", allowed values are [Internet, Mobile, Retail, SMS, Terminals, call centre] b)Invalid value in field source.terminalID, found "x" exceeds maximum allowed length c)Invalid value in field endcustomerID, found "x" exceeds maximum allowed length
Value out of allowed range (only for fields outside source object)	Rejected	-107	Value in field <parameterName> is out of allowed range,found <parameterName>, allowed range is X <-> Y
Ticket contains an invalid ticket version	Rejected	-109	Invalid value in field version, found X.Y, allowed values are [1.1, 1.2, 1.3, 1.4, 2.0]
Ticket Exceptions			
Ticket has no bet	Rejected	-201	The following mandatory field is missing: bets
Ticket has no selections	Rejected	-202	The following mandatory field is missing: selections
Bet extension has no bookmaker name	Rejected	-204	The following mandatory field is missing: sender.bookmakerId

The field "Market" contains a value which is not recognizable by MTS. Either the prefix which specifies if the market is live, pre-match or uof is not correct or value in "Market" field is not correct.	Rejected	-205	Invalid prefix or incorrect market pattern in field selections.id, Selection: <Selection URL>, Match: <Event ID>
Illegal values in selectedsystems. The n-fold type requested is not compliant with the number of selections. It is not possible, for example, to ask for 12folds if the number of selected market is 6. Also Bankers must be kept into consideration as, if bankers are selected the number of possible folds out of a certain number of selections decreases.	Rejected	-207	Values [X] in selectedSystems array are invalid for bet with Y selections incl. Z bankers
LimitID field is missing	Rejected	-209	The following mandatory field is missing: sender.limitId

Data Format Exceptions			
Stake value is negative	Rejected	-301	Invalid value in field bets.stake.value, found -X, should be a positive value
Stake is missing or is null	Rejected	-305	Invalid value in field bet.stk
Bet stake is lower than bookmaker min stake limit	Rejected	-306	Stake EUR amount X is too low. Minimum allowed on Limit ID level is Y
The currency field is filled with a value which is not recognizable by MTS. Please, check the value sent	Rejected	-307	Currency YYY is not found in MTS
Timestamp in the ticket is future time	Rejected	-309	Value in field timestampUtc is future time
Timestamp in ticket is outdated time	Rejected	-310	Value in field timestampUtc is outdated time
This currency has been disabled in MTS.	Rejected	-312	Currency YYY is disabled in MTS
The maximum number of selections allowed in MTS is 63. A ticket with more than 63 selections cannot be accepted.	Rejected	-313	Selections amount 99 is higher than max allowed of 63
Bet selection match ID contains a value which is not acceptable. Value must be >0.	Rejected	-315	Value in field selections.eventId should be positive number, Selection: <Selection URL>, Match: -XXXXXXXX
The value of the odds is minor than the minimum value allowed. Minimum value allowed is specified in the rejection message.	Rejected	-316	Odds value is too low. Found 0.01, allowed minimum is 1.01, Selection: <Selection URL>, Match: <Event URL>
The "bank" field was sent with an unacceptable value. Values allowed are either true or false	Rejected	-317	Invalid data in field bets.selectionRefs.banker. Found X, allowed values are [true, false], Selection Selection: <Selection URL>, Match: <Event URL>

Invalid value in field bookmakerID	Rejected	-319	Deserialization failure ~~> invalid value in field sender.bookmakerId
Related contingency: An outright market cannot be combined with an event which belongs to the same tournament.	Rejected	-320	Chosen events or markets cannot be combined as Tournaments are related<List of Selection URLs>
Related contingency: The bet contains selections which belong to the same market from the same event.	Rejected	-321	Bet contains duplicate selections on same Match: <SelectionURL>, Match: <Match ID>
Related contingency: The bet contains more than one selection from the same event, but different market	Rejected	-322	Bet contains multiple selections on same Match: <SelectionURL>, Match: <Match ID>
LiveOdds real time data Exceptions			
The event sent it not recognized by SR. Format of the value sent should be reviewed or ensure the event belongs to SR feed.	Rejected	-401	Match is not found in MTS, Selection: <SelectionURL>, Match: <Match ID>
The event sent is recognized by SR, but it is not active.	Rejected	-402	Match is not active in MTS, Selection: <SelectionURL>, Match: <Match ID>
The selection sent it not recognized by SR. Format of the value should be reviewed or ensure the selection belongs to BR feed.	Rejected	-403	Outcome is not found in MTS, Selection: Selection: <SelectionURL>, Match: <Match ID>
The selection sent is recognized by SR, but not active.	Rejected	-404	Outcome is not active in MTS, Selection: Selection: <SelectionURL>, Match: <Match ID>
The market sent it not recognized by MTS. Format of the value sent should be reviewed or ensure the market belongs to BR feed.	Rejected	-405	Market is not found in MTS, Selection: Selection: <SelectionURL>, Match: <Match ID
Outright is not found in Line Service	Rejected	-406	Outright is not found in MTS, Selection: Selection: <SelectionURL>, Outright: <Outright ID
Outright is not active in Line Service	Rejected	-407	Outright is not active in MTS, Selection: <SelectionURL>, Outright: <Outright ID>
Outright selection is not recognized by SR. Check the format of the value sent and ensure the outright selection belongs to BR feed.	Rejected	-409	Outcome "UNDER" is not found in Lines Provider, Selection: <SelectionURL>, Outright: <Outright ID>
Outright selection is recognized by SR, but not active	Rejected	-410	Outcome !XXX is not active in Lines Provider, <SelectionURL>, Outright: <Outright ID
The odds has changed. Odds in the bet is too high if compared with the current one. The bet cannot be accepted.	Rejected	-421	Odds X.YZ are too high, Selection: <SelectionURL>, Match: <Match ID>
Market is not found in Line Service mapping	Rejected	-422	Market is not found, Selection: <SelectionURL>, Match: <Match ID>
Market expired in case of basketball live total markets or markets which results change very fast.	Rejected	-423	Market/SOV expired in MTS. Selections: <SelectionURL>, Match: <Match ID>

Table 13-2

MTS back office(Admin Console) Exceptions			
Bookmaker has MTS package disabled. Please contact OAM.	Rejected	-501	bookmakerId <bookmaker ID> not active in MTS
Settings on limits of the bookmaker are not found in MTS. Please, check with account managers all settings have been properly provided to MTS.	Rejected	-502	Bookmaker settings not found for bookmakerId <bookmaker ID>
The event is recognized by MTS, but not active.	Rejected	-504	Match is not active in MTS, Selection: <SelectionURL>, Match: <Match ID>
The market was recognized in MTS, but not active.	Rejected	-506	Market is not active in MTS, Selection: <SelectionURL>, Match: <Match ID>
The Tournament was not recognized in MTS. Check format of the value sent.	Rejected	-507	Tournament <Tournament Name> is not found in MTS, Selection: <SelectionURL>, Match: <Match ID>
Tournament was recognized by MTS, but not active.	Rejected	-508	Tournament <Tournament Name> is not active in MTS, Selection: <SelectionURL>, Match: <Match ID>
No limits specified in MTS for this bookmakerID or sub-bookmaker.	Rejected	-509	Limit settings for limitId <LimitID> are not found for bookmakerId <Bookmkaer ID>
Ticket payout is higher then allowed on Limit ID leve	Rejected	-511	Payout is higher than the max payout for Limit ID <LimitID>. Bet payout XXX, Max payout YYY
Rejections due to risk management(liability limits)			
In this case, the bet was rejected becauseof total liability breached. Total liability can have been breached at Global, Bookmaker or LimitID level.	Rejected	-701	Liability EUR XXX is over Total liability limit EUR YYY on Limit ID(Bookmaker or Global) level, Selection: <SelectionURL>, Match: <Match ID>
In this case, the bet was rejected because the of bet liability breached (liability allowed for one bet). Bet liability can have been breached at Global, Bookmaker or LimitID level.	Rejected	-702	Liability EUR XXX is over Bet liability limit EUR YYY on Limit ID(Bookmaker or Global) level, Selection: <SelectionURL>, Match: <Match ID>
In this case, the bet was rejected because the of the Customer Confidence Factor(CCF) of the punter/endCustomer	Rejected	-703	Liability EUR XXX is over Total liability limit EUR YYY on Customer level, Selection: Icoo:10/1/*1, Match: 11901644
The ticket is not compliant with JSON specification or data types are not compliant with ticket requirements	Rejected	-900	Ticket is unparsable
MTS internal component is down, unavailable or is not responding	Rejected	-993	One of examples: external service dist storage unavailable
The vhost sent is not compliant with the one regisetered for the bookmaker	Rejected	-994	bookmaker <bookmaker ID> not authorized for vhost <vhost>
MTS internal system exception. Causa unknown.	Rejected	-999	MTS internal system exception

13.1 Rejection codes added for Ticket version 2.0

All rejection codes listed in previous paragraph are valid also for ticket version 2.0. Following rejection codes are valid instead only for Ticket version 2.0.

Scenario	Outcome	Code	Rejection message
Model Exceptions			
Value in optional field has wrong type	Rejected	-102	Invalid value in field bets.selectionRefs.banker is not of expected type
One of the combination of selection in the multi-bet ticket is not acceptable	Rejected	-108	Ticket contains a bet with duplicate value in field bets.selectionRefs.selectionIndex
1) The reofferRefId in the ticket (after re-offer) does not match the ID of the original ticket 2) The stake (after re-offer) does not match the re-offered stake.	Rejected	-210	1) Does not match reofferRefId ticket #MTS_Ticket_Version_20_Test_123 2) Stake does not match re-offered stake.
Timing for sending re-offered bet expired	Rejected	-211	Contains reofferRefId #MTS_Ticket_Version_20_Test_923 that was not found
Bet Ids provided for bets in the ticket are not acceptable	Rejected	-212	Inconsistent bet ids on ticket, either all must be defined, or none
Rejection in case internally MTS cannot generate bet out of JSON from Operator	Rejected	-335	Could not generate bets
Ticket contains negative bonus value	Rejected	-336	Bonus value negative -XXX

14 Appendix E (1.x vs 2.0)

Format 2.0	Format 1.2+ analog	Description	Notes
timestampUtc	bet.ts_UTC	Timestamp	Updated on 26 January 2017 18:31
ticketId	extTicketID		
version	version	Ticket version	Always '2.0'
sender		Sender information	Bookmaker, Limit, Customer info
sender.currency	bet.cur	Ticket currency	
sender.channel	source.channellD	Distribution channel	Enum values differ between 1.x and 2.0
sender.shopId	source.shopID		
sender.terminalId	source.terminallD		
sender.bookmakerId	bookmakerID		Updated on 26 January 2017 18:31
sender.limitId	limitID		
endCustomer		Punter information	
endCustomer.id	source.endCustomerID	Punter Id	Updated on 26 January 2017 18:31
endCustomer.ip	source.endCustomerIP		Updated on 26 January 2017 18:31
endCustomer.languageId	source.languageID		
endCustomer.deviceId	source.deviceID		
endCustomer.confidence		Suggested CCF (informative only)	
selections	bet.selections		
selections[i].eventId	bet.selections[i].match	Match ID	

selections[i].id	bet.selections[i].market	Market ID	
selections[i].odds	bet.selections[i].odd	Selection odds	
bets			
bets[i].id			
bets[i].stake	stk	Stake on bet	
bets[i].id		Bet id	
bets[i].selectedSystems			Mandatory, 0 is not allowed, use max fold instead
bets[i].stake		Type and value of stake	
bets[i].stake.value		Value of stake	
bets[i].stake.type		Unit or total stake	
bets[i].bonus		Type and value of bonus	
bets[i].bonus.type		Type of bonus (currently only 'total')	
bets[i].bonus.value		Value of bonus in local currency	
bets[i].bonus.mode		Bonus mode (currently only 'all')	
bets[i].selectionRefs		Specifies selections used on a bet	Optional, use all selections if missing
bets[i].selectionRefs[j].selectionIndex		References a selection in 'selections' array	
bets[i].selectionRefs[j].banker		Specifies the referenced selection as a banker	
ticket.oddsChange		Specifies whether odds change is	none, any, higher

		acceptable for this ticket	
ticket.reofferRefId		Id of reoffered ticket	
ticket.bets[i].reofferRefId		Id of reoffered bet	
ticket.altStakeRefId		Id of original ticket, which had alternative stake offered	

15 Appendix F (JSON schemas)

15.1 Ticket JSON schema 2.0

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "additionalProperties": false,
    "description": "Ticket version 2 schema",
    "title": "Ticket container",
    "required": ["ticket"],
    "properties": {
        "ticket": {
            "type": "object",
            "additionalProperties": false,
            "description": "Actual ticket being sent to Sportradar",
            "required": ["timestampUtc"],
            "bets",
            "ticketId",
            "selections",
            "sender",
            "version"],
            "properties": {
                "timestampUtc": {
                    "type": "integer",
                    "description": "Timestamp of ticket placement (in UNIX time
millis)",
                    "minimum": 1,
                    "maximum": 9223372036854775807
                },
                "bets": {
                    "type": "array",
                    "description": "Collection of all bets",
                    "items": {
                        "type": "object",
                        "additionalProperties": false,
                        "required": ["stake",
                        "selectedSystems"],
                        "properties": {
                            "bonus": {
                                "type": "object",
                                "additionalProperties": false,
                                "description": "Bonus of the bet
(optional, default null)",
                            }
                        }
                    }
                }
            }
        }
    }
}
```

"Quantity multiplied by 10_000 and rounded to a long value",
 10000000000000000000,

(optional, default total)",

mode (optional, default all). Relevant mostly for system bets. All: all bets must win for bonus to be paid out.",

"Quantity multiplied by 10_000 and rounded to a long value",

10000000000000000000,

stake (optional, default total)",

```

    "required": ["value"],
    "properties": {
        "value": {
            "type": "integer",
            "description": "Quantity multiplied by 10_000 and rounded to a long value",
            "maximum": 10000000000000000000,
            "minimum": 1
        },
        "type": {
            "type": "string",
            "description": "Type mode (optional, default all). Relevant mostly for system bets. All: all bets must win for bonus to be paid out."
        }
    }
}

```

```

    "stake": {
        "type": "object",
        "additionalProperties": false,
        "description": "Stake of the bet",
        "required": ["value"],
        "properties": {
            "value": {
                "type": "integer",
                "description": "Quantity multiplied by 10_000 and rounded to a long value",
                "maximum": 10000000000000000000,
                "minimum": 1
            },
            "type": {
                "type": "string",
                "description": "Type of stake (optional, default total)"
            }
        }
    }
}

```

```

                "enum": ["total",
                "unit"]
            }
        }
    },
    "id": {
        "type": "string",
        "description": "Bet id (optional)",
        "pattern": "^[0-9A-Za-z:-]{1,36}$",
        "minLength": 1,
        "maxLength": 128
    },
    "selectedSystems": {
        "type": "array",
        "default": "null",
        "description": "Array of all the systems
(mandatory, [0] is not allowed, use [fold] instead)",
        "pattern": "(([1-9]|([1-5][0-9])|(6[0-3]))|\\
*,\\*([1-9]|([1-5][0-9])|(6[0-3])))?)",
        "items": {
            "type": "integer"
        },
        "uniqueItems": true,
        "minItems": 1,
        "maxItems": 63
    },
    "selectionRefs": {
        "type": "array",
        "default": "null",
        "description": "Array of selection
references which form the bet (optional, if missing then all selections are used)",
        "items": {
            "type": "object",
            "additionalProperties": false,
            "description": "Array of
selection references to form the bet (optional, if missing all selections are taken)",
            "required": ["selectionIndex"],
            "properties": {
                "selectionIndex": {
                    "type": "integer",
                    "description": "Selection index from 'ticket.selections' array (zero based)",
                    "maximum": 62,
                    "minimum": 0
                }
            }
        }
    }
}

```

```

    },
    "banker": {
      "description": "Flag if selection is banker (optional, default false)",
      "type": "boolean",
      "default": false
    }
  }
},
"uniqueItems": true,
"minItems": 1,
"maxItems": 63
},
"reofferRefId": {
  "type": "string",
  "description": "Reoffer reference bet id",
  "minLength": 1,
  "maxLength": 128
},
"sumOfWins": {
  "type": "integer",
  "description": "Sum of all wins for all generated combinations for this bet (in ticket currency, used in validation)",
  "maximum": 9223372036854775807,
  "minimum": 1
}
},
"minItems": 1,
"maxItems": 50
},
"ticketId": {
  "type": "string",
  "description": "Unique ticket id (in the client's system)",
  "minLength": 1,
  "maxLength": 128
},
"selections": {
  "type": "array",
  "description": "Array of all selections. Order is very important as they can be referenced by index in 'ticket.bets.selectionRefs'",
  "items": {
    "type": "object",
    "additionalProperties": false,
    "properties": {
      "id": {
        "type": "string",
        "description": "Selection id"
      },
      "label": {
        "type": "string",
        "description": "Label for the selection"
      },
      "value": {
        "type": "string",
        "description": "Value for the selection"
      }
    }
  }
}
}

```

"required": ["eventId",
 "id",
 "odds"],
 "properties": {
 "eventId": {
 "type": "integer",
 "description": "Betradar event (match
 or outright) id",
 "maximum": 9223372036854775807,
 "minimum": 1
 },
 "id": {
 "type": "string",
 "description": "Selection id, should be
 composed according to specification",
 "minLength": 1,
 "maxLength": 100
 },
 "odds": {
 "type": "integer",
 "description": "Odds multiplied by
 10_000 and rounded to int value",
 "maximum": 1000000000,
 "minimum": 10000
 }
 },
 "minItems": 1,
 "maxItems": 63
 },
 "sender": {
 "type": "object",
 "additionalProperties": false,
 "description": "Identification and settings of the ticket sender",
 "required": ["currency",
 "bookmakerId",
 "limitId",
 "channel"],
 "properties": {
 "currency": {
 "type": "string",
 "description": "3 letter currency code",
 "minLength": 3,
 "maxLength": 3
 },
 "terminalId": {

F]{1,4}){1,6}]):(:[0-9a-fA-F]{1,4}){1,7}]:)fe80(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,}:(ffff{:0{1,4}}{0,1}):{0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9]){{0,1}[0-9]})\\.{3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9]){{0,1}[0-9]})\\.{3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9]))\$"

language code",

device id",

]{{1,36}\$",

unique id (in client's system)",

]{{1,36}\$",

of the customer multiplied by 10_000 and rounded to a long value",

9223372036854775807,

Sportradar to the client)",

},
"languageId": {
 "type": "string",
 "description": "ISO 639-1
 "minLength": 2,
 "maxLength": 2
},
"deviceId": {
 "type": "string",
 "description": "End user's
 "pattern": "[0-9A-Za-z-:
 "minLength": 1,
 "maxLength": 36
},
"id": {
 "type": "string",
 "description": "End user's
 "pattern": "[0-9A-Za-z-:
 "minLength": 1,
 "maxLength": 36
},
"confidence": {
 "type": "integer",
 "description": "Suggested CCF
 "maximum":
 "minimum": 1
}
},
"limitId": {
 "type": "integer",
 "description": "Client's limit id (provided by
 "maximum": 2147483647,
 "minimum": 1
}

15.2 Ticket acceptance response JSON schema 2.0

```
{  
  "$schema": "http://json-schema.org/draft-04/schema#",  
  "description": "Ticket response v2 schema",  
  "required": ["version",  
    "signature",  
    "ticket",  
    "status",  
    "body",  
    "files"]  
}
```

```

    "result",
    "exchangeRate"],
    "definitions": {
        "id": {
            "type": "string",
            "description": "Ticket/bet id",
            "minLength": 8,
            "maxLength": 128
        },
        "selectionIndex": {
            "type": "integer",
            "description": "Selection index from 'ticket.selections' array (zero based)",
            "maximum": 62,
            "minimum": 0
        },
        "reason": {
            "type": "object",
            "additionalProperties": false,
            "description": "Object carrying information about rejection cause",
            "required": ["code"],
            "properties": {
                "code": {
                    "type": "integer",
                    "description": "Rejection code"
                },
                "message": {
                    "type": "string",
                    "description": "Rejection reason description"
                },
                "internalMessage": {
                    "type": "string",
                    "description": "Contains additional information about the error
(internal exception message)"
                }
            }
        },
        "status": {
            "type": "string",
            "description": "Acceptance status - accepted, rejected",
            "enum": ["accepted",
            "rejected"]
        }
    },
    "properties": {
        "result": {
            "type": "object",

```

```

    "additionalProperties": false,
    "required": ["status",
    "reason"],
    "properties": {
        "ticketId": {
            "description": "External ticket id",
            "$ref": "#/definitions/id"
        },
        "status": {
            "$ref": "#/definitions/status"
        },
        "reason": {
            "$ref": "#/definitions/reason"
        },
        "betDetails": {
            "type": "array",
            "description": "Bet-level rejection details",
            "items": {
                "type": "object",
                "description": "Reason on bet level",
                "required": ["selectionIndex",
                "reason",
                "betId"],
                "additionalProperties": false,
                "properties": {
                    "betId": {
                        "description": "Bet id",
                        "$ref": "#/definitions/id"
                    },
                    "reason": {
                        "$ref": "#/definitions/reason"
                    },
                    "selectionDetails": {
                        "type": "array",
                        "description": "Per-selection rejection
reasons",
                        "items": {
                            "type": "object",
                            "description": "Reason on
selection level",
                            "additionalProperties": false,
                            "properties": {
                                "selectionIndex": {
                                    "$ref": "#/definitions/selectionIndex"
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}

```

```

    "reason": {
      "$ref": "#/definitions/reason"
    }
  },
  "reoffer": {
    "type": "object",
    "description": "Bet reoffer details, mutually exclusive with alternativeStake",
    "required": ["type"],
    "properties": {
      "stake": {
        "type": "integer",
        "description": "Reoffer stake. Double multiplied by 10_000 and rounded to a long value",
        "maximum": 1000000000000000000000000,
        "minimum": 1
      },
      "type": {
        "type": "string",
        "description": "Reoffer type, if auto then stake will be present. If manual you should wait for reoffer stake over Reply channel",
        "enum": ["auto", "manual"]
      }
    }
  },
  "alternativeStake": {
    "type": "object",
    "description": "Alternative stake, mutually exclusive with reoffer",
    "required": ["stake"],
    "properties": {
      "stake": {
        "type": "integer",
        "description": "Alternative stake. Double multiplied by 10_000 and rounded to a long value",
        "maximum": 1000000000000000000000000,
        "minimum": 1
      }
    }
  }
}

```

15.3 Ticket cancellation JSON schema 2.0

```
{  
  "$schema": "http://json-schema.org/draft-04/schema#",  
  "type": "object",  
  "additionalProperties": false,  
  "description": "Ticket cancel version 2 schema",  
  "title": "Ticket cancel container",  
  "required": ["cancel"],  
  "properties": {  
    "cancel": {  
      "type": "object",  
      "additionalProperties": false,  
      "description": "Actual ticket cancel being sent to Sportradar",  
      "required": ["timestampUtc",  
                  "ticketId",  
                  "sender",  
                  "code",  
                  "version"],  
      "properties": {  
        "properties": {}  
      }  
    }  
  }  
}
```

```
        "timestampUtc": {
            "type": "integer",
            "description": "Timestamp of ticket cancel placement (in UNIX
time millis)",
            "minimum": 1,
            "maximum": 9223372036854775807
        },
        "ticketId": {
            "type": "string",
            "description": "Ticket id to cancel (in the client's system)",
            "minLength": 1,
            "maxLength": 50
        },
        "sender": {
            "type": "object",
            "additionalProperties": false,
            "description": "Identification and settings of the ticket sender",
            "required": ["bookmakerId"],
            "properties": {
                "bookmakerId": {
                    "type": "integer",
                    "description": "Client's id (provided by
Sportradar to the client)",
                    "maximum": 2147483647,
                    "minimum": 1
                }
            }
        },
        "code": {
            "type": "integer",
            "description": "Cancellation code"
        },
        "version": {
            "type": "string",
            "description": "JSON format version (must be '2.0')",
            "pattern": "^2\\.0$",
            "minLength": 3,
            "maxLength": 3
        }
    }
}
```

15.4 Cancellation response JSON schema 2.0

```
{  
    "$schema": "http://json-schema.org/draft-04/schema#",  
    "description": "Ticket cancel response v2 schema",  
    "required": ["version",  
    "signature",  
    "result"],  
    "definitions": {  
        "id": {  
            "type": "string",  
            "description": "Ticket id",  
            "minLength": 8,  
            "maxLength": 128  
        },  
        "reason": {  
            "type": "object",  
            "additionalProperties": false,  
            "description": "Object carrying information about cancellation response",  
            "required": ["code"],  
            "properties": {  
                "code": {  
                    "type": "integer",  
                    "description": "Cancellation code"  
                },  
                "message": {  
                    "type": "string",  
                    "description": "Cancellation rejection reason description"  
                }  
            }  
        },  
        "status": {  
            "type": "string",  
            "description": "Cancellation status - cancelled, not_cancelled",  
            "enum": ["cancelled",  
            "not_cancelled"]  
        }  
    },  
    "properties": {  
        "result": {  
            "type": "object",  
            "additionalProperties": false,  
            "required": ["status",  
            "reason"],  
            "properties": {  
                "ticketId": {  
                    "description": "Ticket id",  
                    "$ref": "#/definitions/id"  
                }  
            }  
        }  
    }  
}
```

```
        },
        "status": {
            "$ref": "#/definitions/status"
        },
        "reason": {
            "$ref": "#/definitions/reason"
        }
    },
    "signature": {
        "type": "string",
        "description": "Response signature (previous betAcceptanceId)"
    },
    "version": {
        "type": "string",
        "description": "JSON format version (must be '2.0')",
        "pattern": "^2\\\\.0$",
        "minLength": 3,
        "maxLength": 3
    }
}
```

15.5 Ticket Acknowledgment JSON schema 2.0

```
{  
    "$schema": "http://json-schema.org/draft-04/schema#",  
    "type": "object",  
    "properties": {  
        "sender": {  
            "type": "object",  
            "properties": {  
                "bookmakerId": {  
                    "type": "integer"  
                }  
            },  
            "required": ["bookmakerId"]  
        },  
        "ticketId": {  
            "type": "string"  
        },  
        "ticketStatus": {  
            "type": "string",  
            "enum": ["accepted",  
                     "rejected"]  
        }  
    }  
}
```

```

    "code": {
        "type": "integer"
    },
    "message": {
        "type": "string"
    },
    "timestampUtc": {
        "type": "integer"
    },
    "version": {
        "type": "string"
    }
},
"required": ["sender",
"ticketId",
"ticketStatus",
"timestampUtc",
"version"]
}
}

```

15.6 Ticket cancellation acknowledgement JSON schema 2.0

```

{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "properties": {
        "sender": {
            "type": "object",
            "properties": {
                "bookmakerId": {
                    "type": "integer"
                }
            },
            "required": ["bookmakerId"]
        },
        "ticketId": {
            "type": "string"
        },
        "ticketCancelStatus": {
            "type": "string",
            "enum": ["cancelled",
            "not_cancelled"]
        },
        "code": {
            "type": "integer"
        }
    }
}

```

```
"message": {  
    "type": "string"  
},  
"timestampUtc": {  
    "type": "integer"  
},  
"version": {  
    "type": "string"  
}  
},  
"required": ["sender",  
"ticketId",  
"ticketCancelStatus",  
"timestampUtc",  
"version"]  
}
```