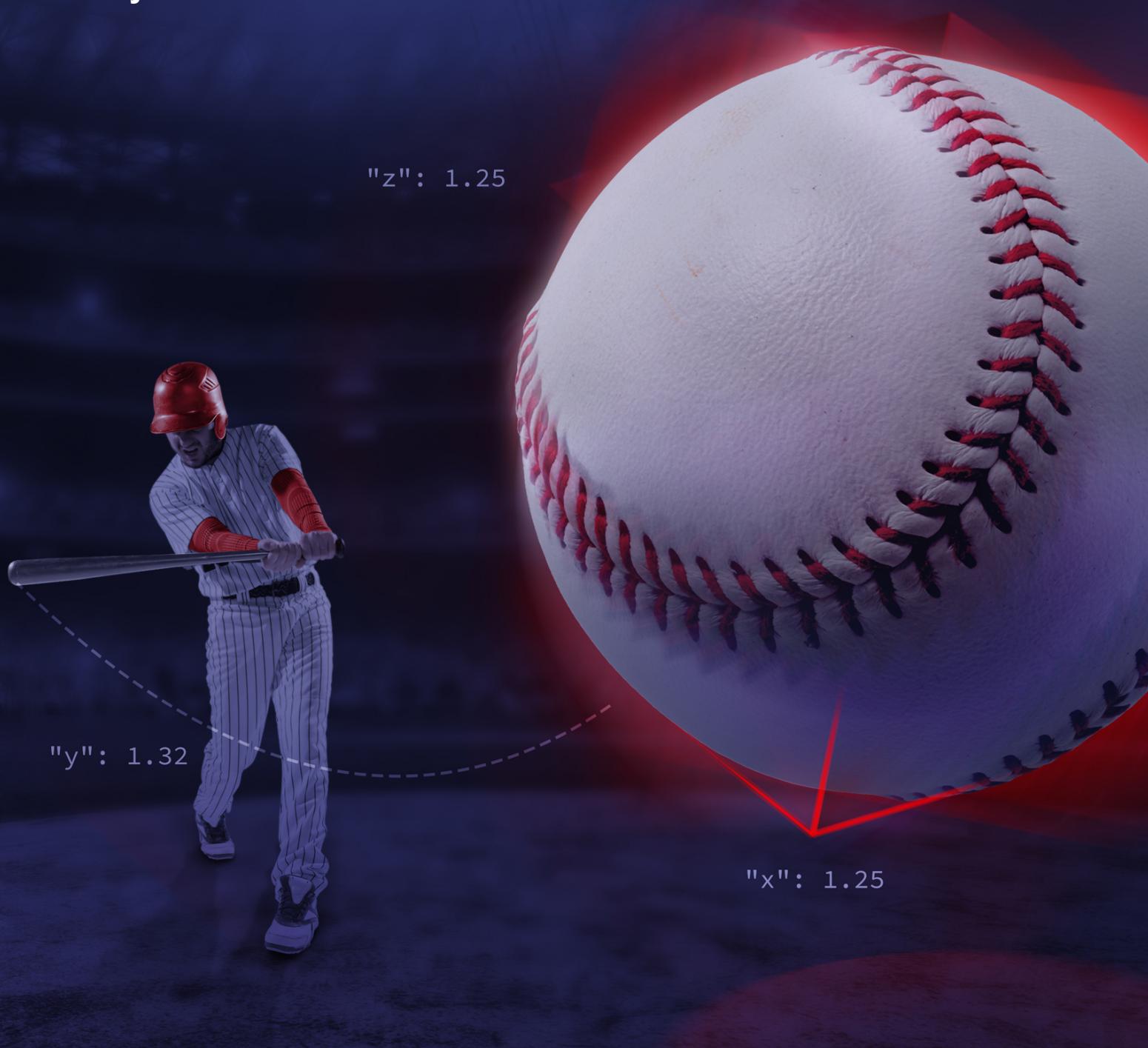


# MTS SDK Java Integration Guide

July 2025



## 1 Document history

Version	Author	Date	Comments
1.10	Domen Muren	2025-07-09	Added information about connecting over WebSocket and new configuration for it
1.9	Aleš Mrak,	2023-12-01	Added additional information about MTS connectivity, Added comments on best practices how to use SDK
	Dejan Pavšek		Added chapter Client – MTS information interchange, Updated document template
1.8	Srđan Tot	2019-05-28	Added description about custom bet
1.7	Srđan Tot	2019-04-29	Added new timeout configuration properties
1.6	Srđan Tot	2019-02-27	Added timeout configuration properties
1.5	Srđan Tot	2019-02-13	Added MTS Client API configuration properties
1.4	David Hrovat	2018-10-11	Added exclusiveConsumer configuration property
1.3	David Hrovat	2017-11-10	Added port property to settings
1.2	David Hrovat	2017-09-12	Added provideAdditionalMarketSpecifiers property to settings
1.1	Uros Bregar	2017-09-09	Added description about Rest log Added accessToken configuration property Updated method SetIdUof
1.0	Uros Bregar	2015-04-13	Initial version

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### 3 Getting started

Before starting to use the SDK, please read the MTS documentation found at [docs.betradar.com](https://docs.betradar.com), chapter Managed Trading Services (MTS) / MTS – Ticket Integration Manual.

SDK examples and code documentation is available at the <https://sdk.sportradar.com>.

## 4 Client – MTS information interchange

### 4.1 Virtual host, username and password

Please contact your Betradar MTS-integration manager for your username and password.

As a convention, this username is used in the virtual host's name as well as for the names of your designated Exchanges and Queues.

The virtual hostname is then simply /username (a slash followed by the username).

For connecting over WebSocket, you need a client ID and client secret pair of credentials for the OAuth authentication.

### 4.2 List of interchanged messages

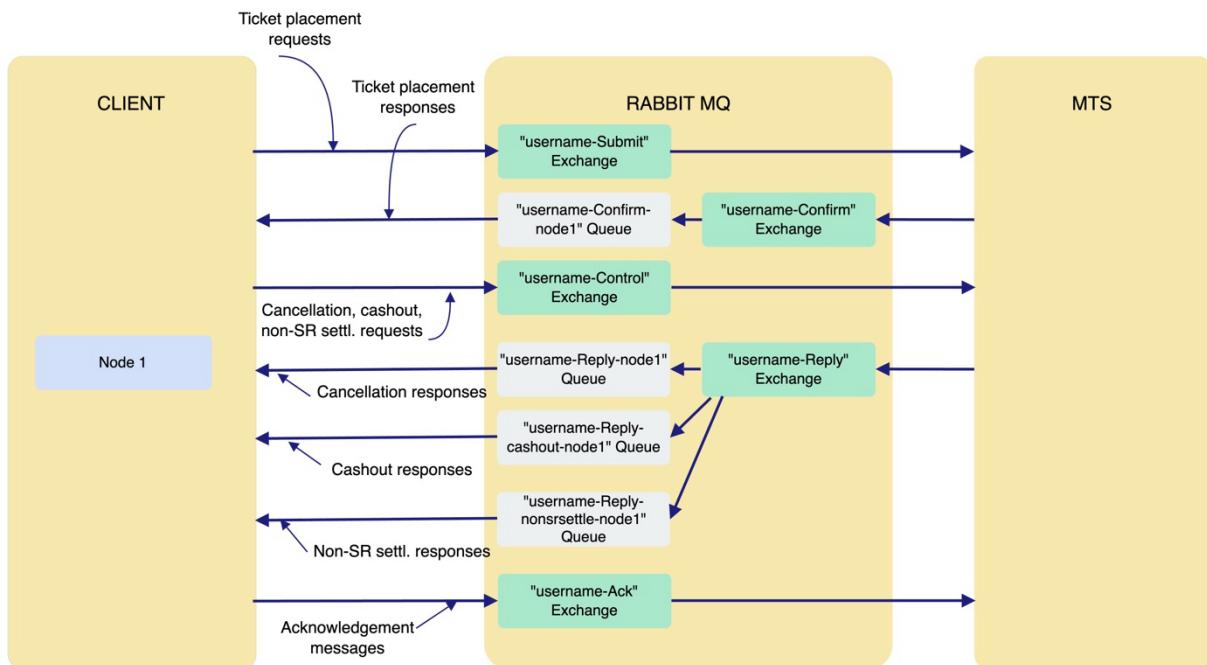
The basic functionality is the submission of tickets (Ticket placement request) and receiving the outcome (Ticket placement response) of the validation process performed by MTS. The outcome is suggestion whether a ticket should be accepted or rejected. A ticket represents one or more bets placed by end customers (punters).

Client (bookmaker or platform) submits the punter's ticket information, which represents the main message/payload for the validation process. Additionally, the client has an option to respond, informing MTS about their decision regarding the MTS' recommendation. It means they have the option to submit Info Ticket acceptance.

Other messages include:

- Submitting a Ticket cancellation, receiving a response and in some cases submitting an acknowledgement message
- Submitting a Ticket cashout request and receiving a response
- Submitting a Non-SR content settlement request and receiving a response (non-Sportradar content means betting events that are managed by the client rather than Sportradar, so also their settlement information must be submitted by the client)

The following diagram depicts types of messages and the RabbitMQ Exchanges and Queues that the messages should be submitted to or consumed from, respectively.



Alternatively, you can connect over WebSocket instead of RabbitMq, by configuring the SDK appropriately.

### 4.3 RabbitMQ exchanges

The following exchanges are used:

Exchange name	Purpose	Type	Access/Options	Description
username-Submit	submit ticket information	fanout	write	ticket placement requests
username-Control	submit control messages	topic	write	sending: cancellation, cashout, non-SR settlement requests
username-Confirm	receive ticket acceptance recommendations (accepted/rejected)	topic	read/ configure	ticket placement responses
username-Reply	receive control message responses (accepted/rejected)	topic	read/ configure	cancellation, cashout and non-SR settlement responses
username-Ack	submit : info ticket acceptance, info ticket cancellation acceptance	topic	write	customer feedback on MTS' ticket acceptance/rejection recommendation (in case of explicit acks needed for national state lotteries) customers' final decisions on ticket cancellations

Exchanges are durable and are declared and maintained by the MTS side. Clients need to know which one to publish a message to and which one to bind the Queue to before consuming messages.

## 4.4 RabbitMQ queues

Queue name	Type	Purpose	Description
username-Confirm	any queue	receiving ticket acceptance recommendations	ticket placement response
username-Reply	any queue	receiving responses to cancellation requests	cancellation responses (accepted /rejected)
username-Reply-cashout	any queue	receiving responses to cashout requests	cashout responses (accepted /rejected)
username-Reply-nonsrsettle	any queue	receiving responses to non-SR settlement requests	non-SR settlement responses (accepted /rejected)

The client is obliged to:

- declare,
- bind,
- consume from,
- maintain the queues of all custom needs

Details are listed in the Creating and Binding the RabbitMQ queues chapter below.

### 4.4.1 Queue naming convention

The client has the right to instantiate any AMQP-entity within their vhost that follows the following naming-pattern:

“username-(Submit|Confirm|Ack|Control|Reply|Reply-cashout|Reply-nonsrsettle)” your username followed by a dash followed by one of the “|” (or) – separated strings ‘ within the brackets followed by any valid string. According to the RabbitMQ documentation a valid string here can be empty or a sequence of these characters: letters, digits, hyphen, underscore, period or colon.

#### 4.4.2 Queue naming recommendation

We recommend to name all Queues respective of the Exchange you want to bind them to:

- username-Confirm-nodeX, if you intend to bind this Queue to your Confirm-Exchange
- username-Reply-nodeX, if you intend to bind this Queue to your Reply-Exchange

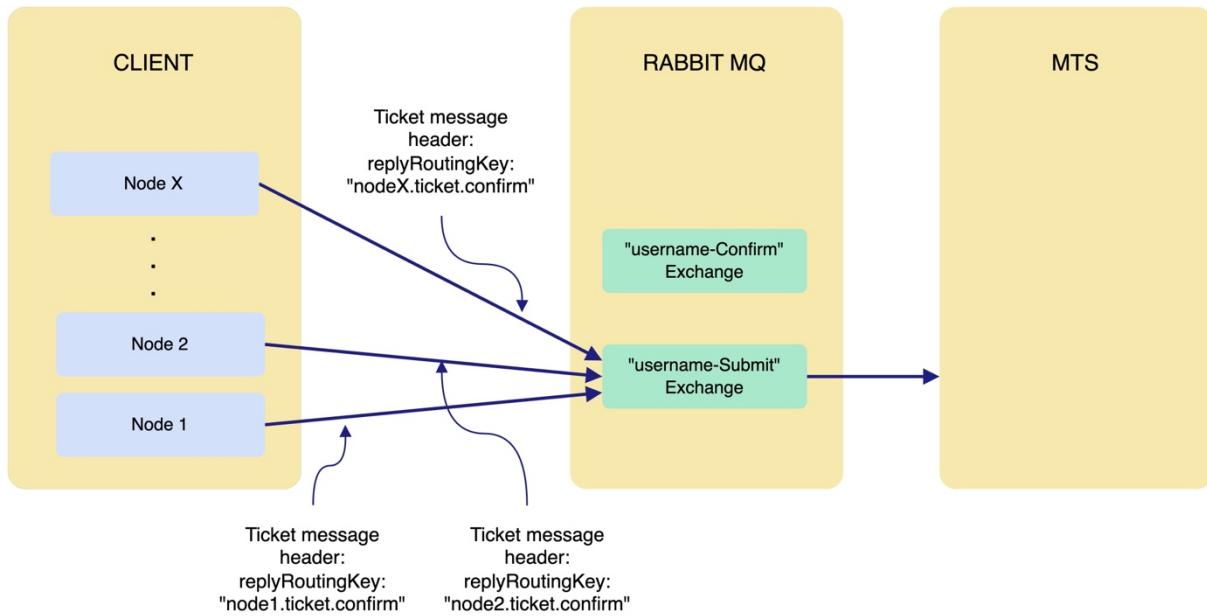
Here “username-Reply-” and “username-Control-” are strings where “–nodeX” represents the id you dedicate internally on your side to the client-node within your cluster that you wish to receive the MTS response on (typically the one you send the related message to MTS in the first place with), of which the X stands for an integer (see chapter Queue naming convention).

### 4.5 Message control

#### 4.5.1 Determining response queues, replyRoutingKey

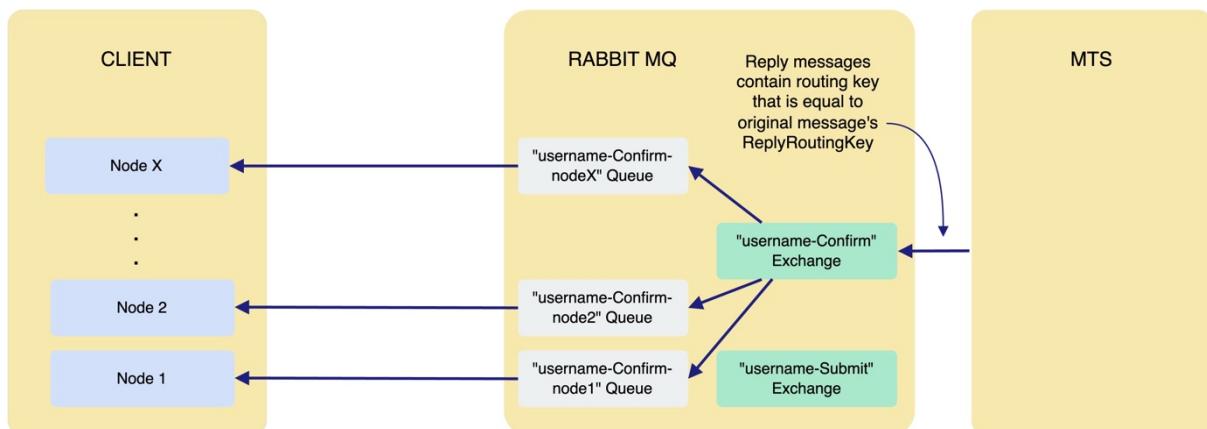
The following diagram shows a typical client setup. There are multiple server nodes (for performance or availability reasons) that independently submit tickets to the Submit exchange. For creating and binding queues, see the corresponding chapter below.

### 1A) Ticket placement

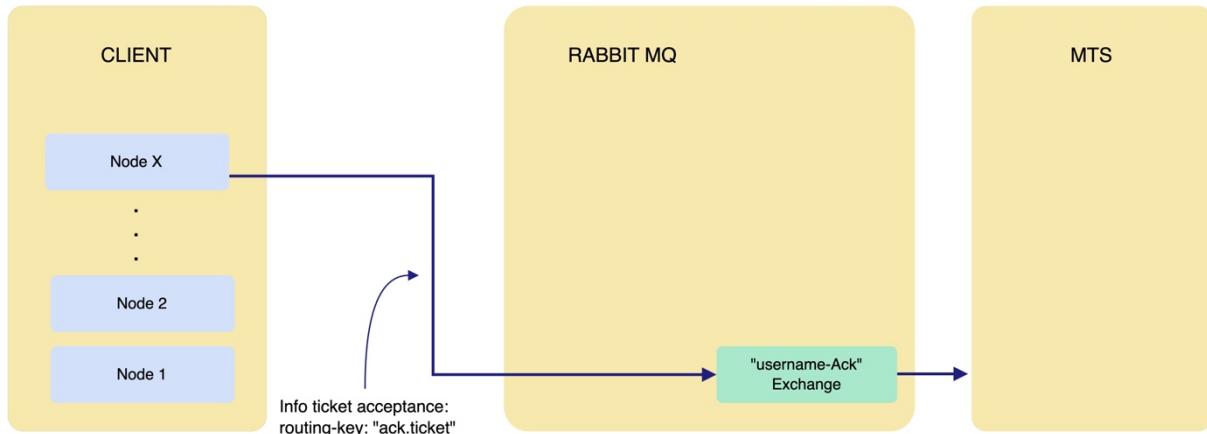


However, the ticket response must be sent exactly to the node from which the ticket originated. This is achieved by multiple Confirm queues (each of them designated for a particular node) and the replyRoutingKey. Every ticket that is submitted to the Submit exchange must contain the replyRoutingKey in the message header. This key will be used by MTS as the Routing Key when submitting the response to the Confirm exchange.

### 1B) Ticket placement response

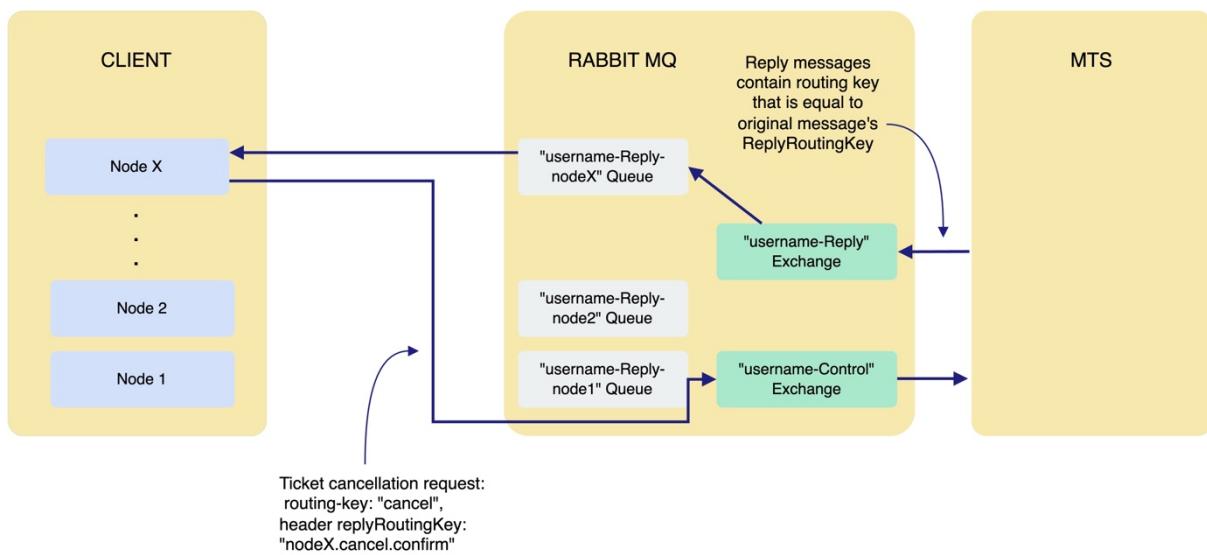


1C) Acknowledgement (in the case if explicit acks are needed for national state lotteries) - (distinguish from “consumer acks”)

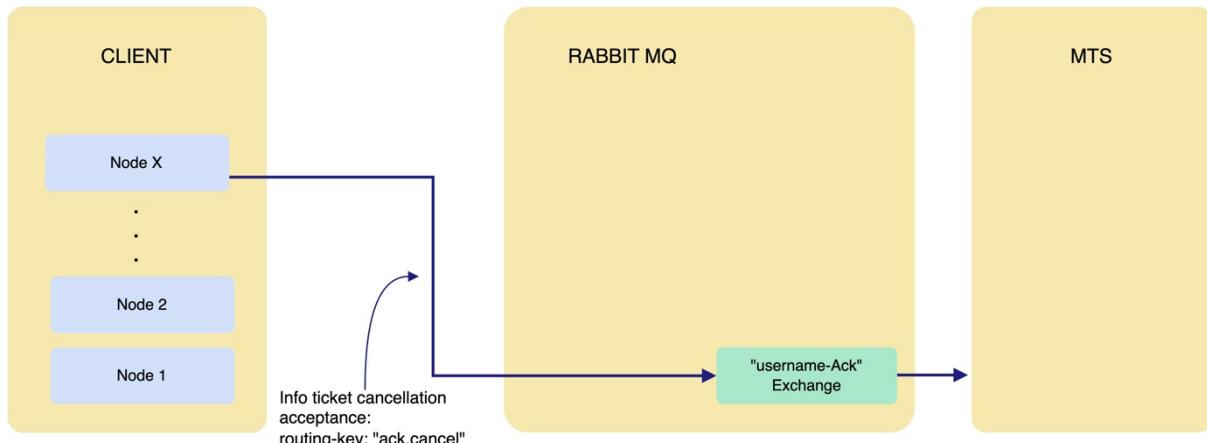


The replyRoutingKey is used in the same way also in the cases of Ticket cancellation, Ticket cashout and Ticket settlements with non-SR content.

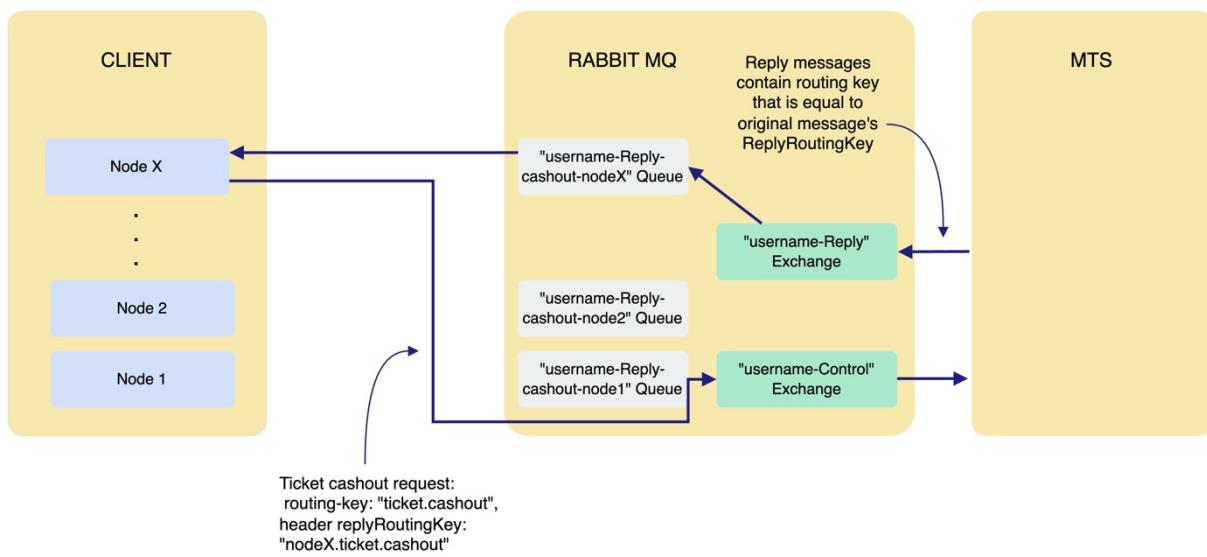
2A) Ticket cancellation and response



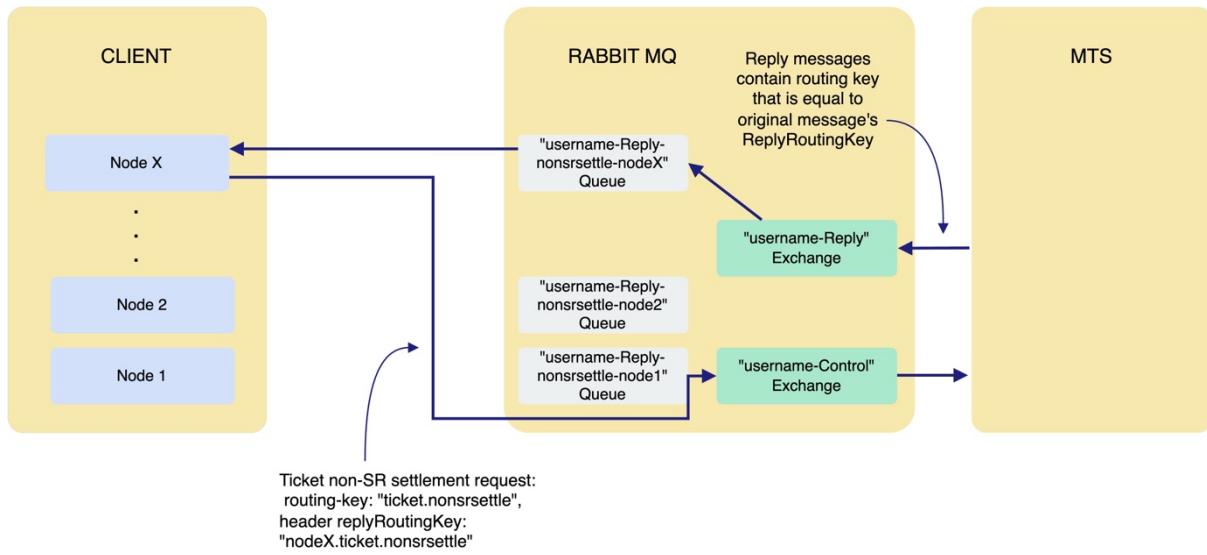
## 2B) Cancellation acknowledgement



## 3) Ticket cashout and response



#### 4) Ticket settlements with non-SR content



#### 4.5.2 replyRoutingKey convention

The value of this header field can contain any valid non-empty string as a prerequisite for a successful response relay. However, it must match at least one binding-key of at least one of the queues you bound to the respective exchange.

Note: If you don't set a valid replyRoutingKey for tickets, it will be set by MTS automatically to the string "not\_set".

If you don't set a valid replyRoutingKey for cancellation requests it will be set by MTS automatically to the string "cancel".

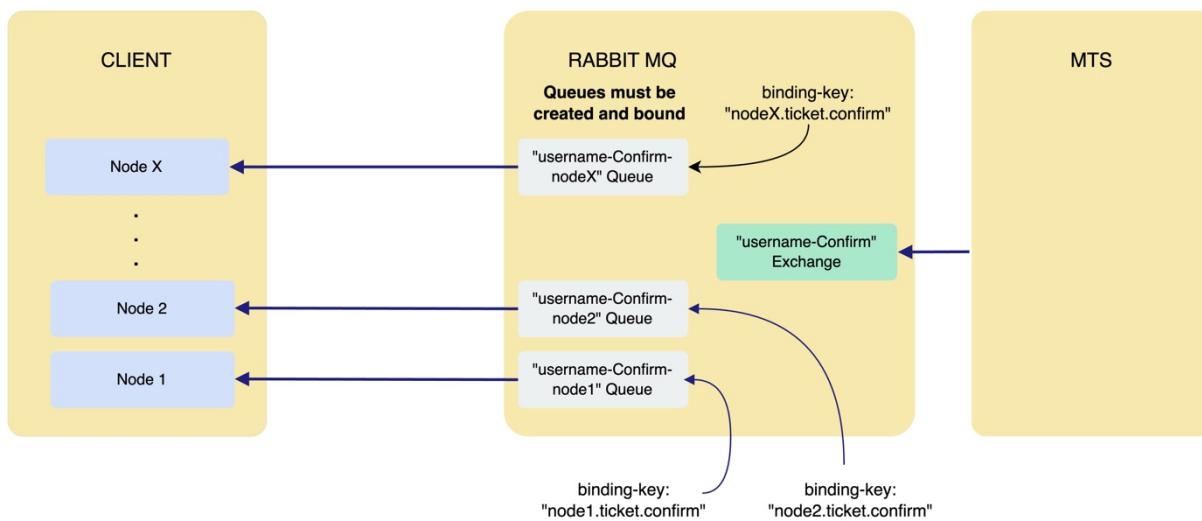
#### 4.5.3 Recommendation

We recommend the following values if it comes to the replyRoutingKeys and the matching binding-keys for your Queues (see also Chapter Queue Naming Recommendations):

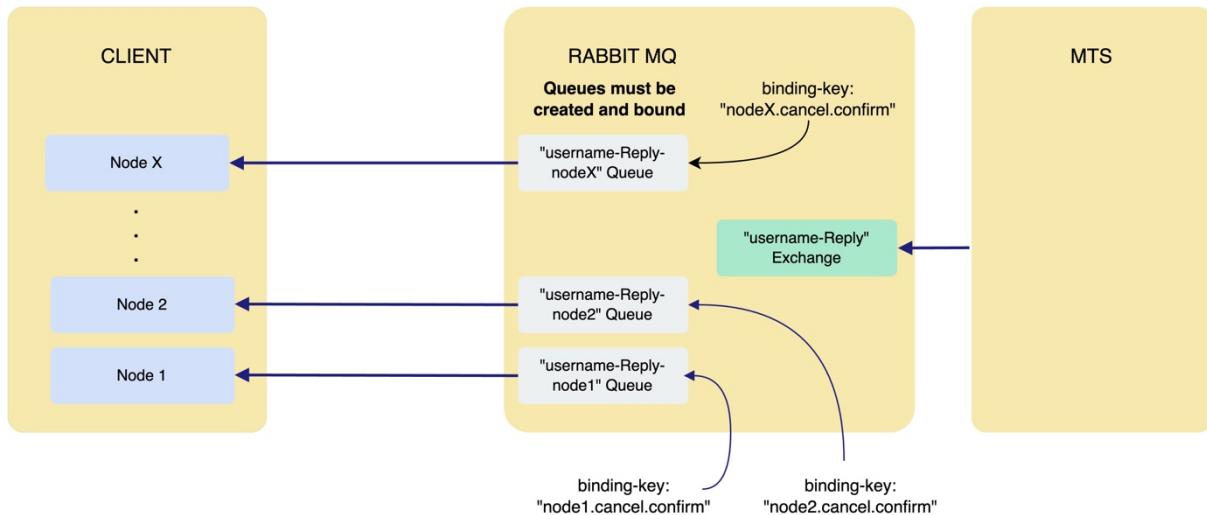
message-type	replyRoutingKey & Queue binding-key
ticket (info)	nodeX.ticket.confirm
cancellation request	nodeX.cancel.confirm
cashout request	nodeX.ticket.cashout
non-SR settlement request	nodeX.ticket.nonsrsettle

#### 4.5.4 Creating and binding the RabbitMQ queues

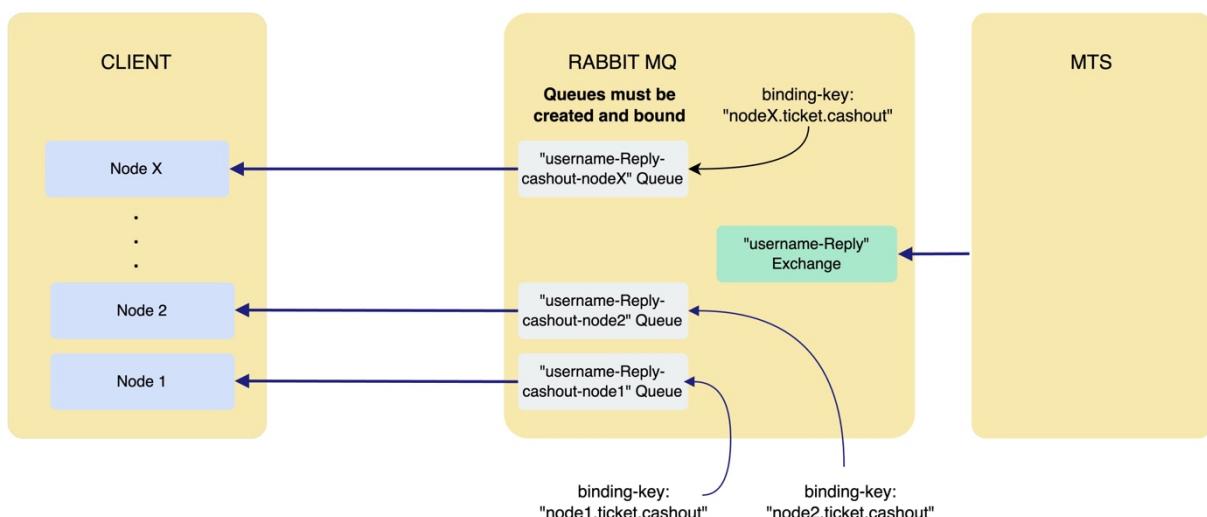
Prior to using the RabbitMQ, clients must create and bind the queues. Naming convention defines that the queue names follow the pattern: “username-Confirm-nodeX” (where X is the number of the corresponding queue). When binding the “username-Confirm-nodeX” queue, the binding key should be: binding-key: “nodeX.ticket.confirm” (where X is the number of the corresponding queue).



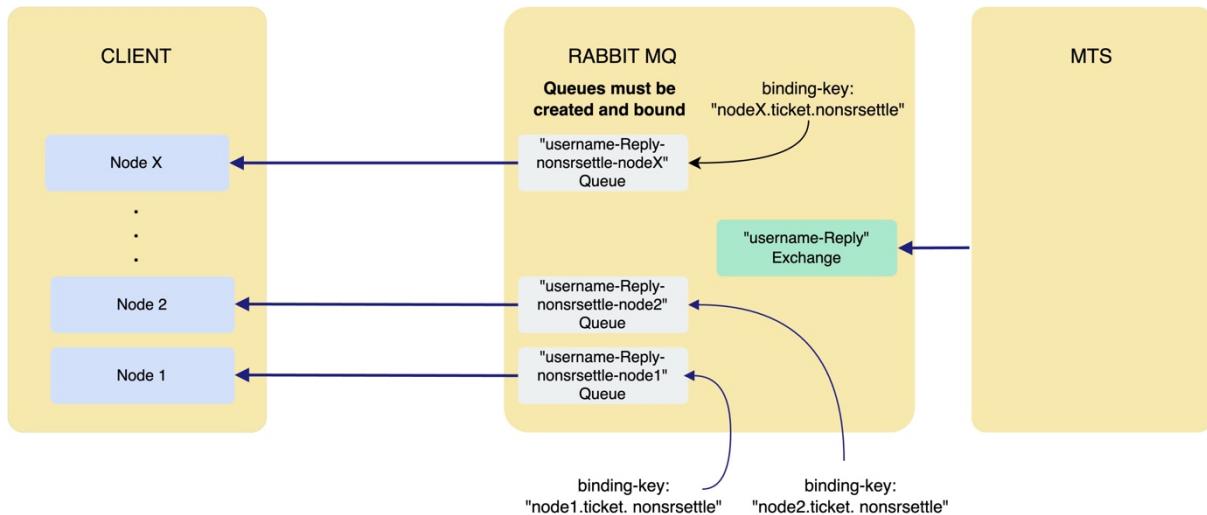
Queues related to cancellation responses are created and bound in this way:



And in the same way also queues used for cashout responses:



Non-SR settlement responses:



#### 4.5.5 correlationId

For identifying which MTS response corresponds to which message sent initially by you towards MTS we offer a more convenient option, apart from a tedious parsing of the message payload in order to then compare the ticket-id.

A more convenient and efficient way is having you set the message header field correlationId. Its value will be found then on the corresponding MTS responses in their header field of the same name.

#### 4.6 Connecting a queue consumer without MTS SDK

In the exceptional case that you need to connect a queue consumer without the MTS SDK, follow these instructions:

##### Important

When using queue declare, please make sure that you use **exactly** the following queue arguments (**no more, no less**)

x-queue-master-locator: min-masters

Otherwise, the MTS SDK will not work correctly.

## 4.7 Connecting over WebSocket

Latest versions of MTS SDK can communicate over a WebSocket connection. For the most part, AMQP (RabbitMq) and WebSocket protocols are handled entirely by the SDK, so switching is only a matter of changing the SDK configuration.

There are some properties:

```
mts.sdk.useWebsocket  
mts.sdk.authServer  
mts.sdk.authClientId  
mts.sdk.authClientSecret  
mts.sdk.authAudience  
mts.sdk.wsServer
```

These need to be set appropriately for the SDK to work over WebSocket.

## 5 Logging

To make it easier to find the log entry associated with a particular action that occurred within the SDK, the logs are split into several files.

- Traffic log: contains log entries for all messages send to or received from MTS
- Rest log: contains log entries for all messages send or received from API calls<sup>1</sup>
- Execution log: contain log entries for all important actions and all error / warning conditions which occur within the SDK

For more information about the configuration of the SDK's logging module, please refer to the configuration section of this document.

Log files are used by the support team, so it is recommended that you send them along with any emails regarding the issue.

---

<sup>1</sup> REST API calls are made only when building ticket with UF selections

## 6 Configuration

The SDK configuration can be specified in three different ways when opening the `MtsSdk` instance.

- `MtsSdk.open()` : Attempts to load the configuration from the default configuration file `mts-sdk.properties`.
  - `MtsSdk.open(filePath)`: Attempts to load the configuration from the configuration file specified by the file path.
  - `MtsSdk.open(properties)`; Attempts to load the configuration form the provided Properties instance.
- Note: all properties are written without quotation marks.
- 
- ```
mts.sdk.username=username
mts.sdk.password=password
mts.sdk.hostname=mtsgate-ci.betradar.com
mts.sdk.vhost=/vhost
mts.sdk.ssl=true
mts.sdk.node=3
mts.sdk.bookmakerId=1
mts.sdk.limitId=1
mts.sdk.currency=EUR
mts.sdk.channel=INTERNET
mts.sdk.accessToken=your_uf_access_token
mts.sdk.provideAdditionalMarketSpecifiers=true
mts.sdk.port=5671
mts.sdk.exclusiveConsumer=true
mts.sdk.keycloakHost="https://mts-auth.sportradar.ag"
mts.sdk.keycloakUsername="username"
mts.sdk.keycloakPassword="password"
mts.sdk.keycloakSecret="secret"
mts.sdk.mtsClientApiHost="http://10.200.24.234:9211/edge/proxy"
mts.sdk.ticketResponseTimeout=15000
mts.sdk.ticketCancellationResponseTimeout=600000
mts.sdk.ticketCashoutResponseTimeout=600000
mts.sdk.ticketNonSrSettleResponseTimeout=600000
mts.sdk.ticketTimeoutCallbackEnabled=false
```

### Required attributes:

- `mts.sdk.username`: Username used to connect to the AMQP broker. Betrader provides this value.

- **mts.sdk.password**: Password used to connect to the AMQP broker. Betradar provides this value.
- **mts.sdk.hostname**: The hostname of the AMQP broker. Please use the following hostnames unless the integration team provides different ones.
  - Integration environment: mtsgate-ci.betradar.com
  - Production environment: mtsgate-t1.betradar.com

### Optional attributes:

- **mts.sdk.vhost**: The name of the virtual host configured on the AMQP broker. If the value is not specified the value of '/username' attribute is used as virtual host.
- **mts.sdk.ssl**: The value specifying whether SSL will be used when connecting to the broker. Default value is **true**.
- **mts.sdk.node**: This value is used to filter MTS responses which were produced as responses to requests send by different SDK instances. In most configurations each SDK should use different node value. Default value is **1**.
- **mts.sdk.bookmakerId**: When provided, it is used as the default value for the BookmakerId on the ticket. The value can be overridden when building the ticket. Betradar provides this value.
- **mts.sdk.limitId**: When provided, it is used as the default value for the LimitId property on the ticket. The value can be overridden when building the ticket. Betradar provides the set of available values.
- **mts.sdk.currency**: When provided, it is used as the default value for the Currency property on the ticket. The value must comply with the ISO 4217 standard.
- **mts.sdk.channel**: When provided, it is used as the default value for the SenderChannel property on the ticket. Value must be one of the [SenderChannel](#) enumeration members.
- **mts.sdk.accessToken**: When selections are build using UnifiedOdds ids, the accessToken is used to access sports API. Also ensure that server running the sdk is whitelisted on api.betradar.com. Betradar provides this value.
- **mts.sdk.provideAdditionalMarketSpecifiers**: This value is used to indicate if the sdk should add market specifiers for specific markets. Only used when building selection using UnifiedOdds ids. If this is set to true and the user uses UOF markets, when there are special cases (market 215, or \$score in SOV/SBV template), sdk automatically tries to add appropriate specifier; if set to false, user will need to add this manually.
- **mts.sdk.port**: Port should be chosen through the ssl property. Manually setting port number should be used only when non-default port is required.
- **mts.sdk.exclusiveConsumer**: The value specifying whether the rabbit consumer channel should be exclusive. Default value is **true**.
- **mts.sdk.keycloakHost**: The auth server for accessing MTS Client API.
- **mts.sdk.keycloakUsername**: The default username used to get access token from the auth server. It can be overridden when the MTS Client API methods are called.
- **mts.sdk.keycloakPassword**: The default password used to get access token from the auth server. It can be overridden when the MTS Client API methods are called.
- **mts.sdk.keycloakSecret**: The secret used to get access token from the auth server.
- **mts.sdk.mtsClientApiHost**: The MTS Client API host.

- `mts.sdk.ticketResponseTimeout`: The ticket response timeout in ms used when sending ticket blocking or when ticketTimeoutCallbackEnabled is set to true. Default value is 15000ms and it can't be less than 10000ms or greater than 30000ms.
- `mts.sdk.ticketCancellationResponseTimeout`: The ticket cancellation response timeout in ms used when sending ticket blocking or when ticketTimeoutCallbackEnabled is set to true. Default value is 600000ms and it can't be less than 10000ms or greater than 3600000ms.
- `mts.sdk.ticketCashoutResponseTimeout`: The ticket cashout response timeout in ms used when sending ticket blocking or when ticketTimeoutCallbackEnabled is set to true. Default value is 600000ms and it can't be less than 10000ms or greater than 3600000ms.
- `mts.sdk.ticketNonSrSettleResponseTimeout`: The ticket non-Sportradar response timeout in ms used when sending ticket blocking or when ticketTimeoutCallbackEnabled is set to true. Default value is 600000ms and it can't be less than 10000ms or greater than 3600000ms.
- `mts.sdk.ticketTimeoutCallbackEnabled`: An indication if the tickets sent async should have a time-out callback.

#### For connecting over WebSocket:

- `mts.sdk.useWebsocket`: boolean flag that needs to be set to "true" for the SDK to attempt connecting over WebSocket instead of AMQP
- `mts.sdk.authServer`: URI of the authorization server to send a token request to
- `mts.sdk.authClientId`: client ID to include in the token request
- `mts.sdk.authClientSecret`: client secret to include in the token request
- `mts.sdk.authAudience`: audience attribute to use in the token request
- `mts.sdk.wsServer`: URI of the WebSocket endpoint to connect to

For more information on ticket properties, please refer to the MTS\_Ticket\_Integration document.

## 7 Obtaining the SDK

The SDK is provided as a code library available for download from the SDK site. The archive contains three jar files using different packaging.

- `mts-sdk-version-fatjar.shaded.jar` – A shaded jar with dependencies
- `mts-sdk-version-fatjar.jar` – A non-shaded jar with dependencies
- `mts-sdk-version-tinyjar.jar` – A jar file without dependencies. Use the `pom.xml` file found in the archive to specify the SDK's dependencies

## 8 SDK setup and teardown

The SDK is setup by the following steps:

- Creating an instance of the `MtsSdk` class.
- Opening the created `MtsSdk` instance using one of the `open(...)` methods.
- Obtaining various sender objects, which can be used to send messages to the MTS

These steps can be performed using the following code:

```
MtsSdkApi mtsSdk = new MtsSdk();
mtsSdk.open();
BuilderFactory builderFactory = mtsSdk.getBuilderFactory();
TicketAckSender ticketAckSender =
    mtsSdk.getTicketAcknowledgmentSender(new TicketAckHandler());
TicketCancelAckSender ticketCancelAckSender =
    mtsSdk.getTicketCancelAcknowledgmentSender(new
    TicketCancelAckHandler());
TicketCancelSender ticketCancelSender =
    mtsSdk.getTicketCancelSender(new
    TicketCancelResponseHandler(ticketCancelAckSender, builderFactory));
TicketSender ticketSender = mtsSdk.getTicketSender(new
    TicketResponseHandler(ticketCancelSender, ticketAckSender,
    builderFactory));
```

For more information on how to implement listener callback methods, please refer to the SDK examples and/or the SDK code documentation.

Once the initialized `MtsSdk` instance is no longer needed, it must be teardown in order to release the resources it is holding. This can be accomplished using the following method call:

```
mtsSdk.close();
```

## 9 Building ticket instances

The SDK uses a “builder pattern” to simplify the process of creating new ticket instances. Below is a list of the most noticeable builders.

- `TicketBuilder`: A root builder used as a starting point when building tickets.
- `SenderBuilder`: Used to specify the information about a ticket sender (bookmaker).
- `EndCustomerBuilder`: Used to build `EndCustomer` instances, representing the punter associated with the ticket. This information is part of the send element.

- **BetBuilder**: Used to build bet instances, which is part of the ticket. Each ticket must contain at least one bet.
- **SelectionBuilder**: Used to build selection instances, which are parts of bet. Each bet must contain at least one selection.

Below is a code snippet that builds a ticket containing the mandatory information. Please note that some information from the configuration is automatically applied to the ticket, so changing the configuration may cause the snippet below to produce an incomplete ticket. For more information refer to the configuration section of this document and the MTS\_Ticket\_Integration document.

```

Ticket ticket = builderFactory.createTicketBuilder()
    .setTicketId("T-" + System.currentTimeMillis())
    .setOddsChange(OddsChangeType.ANY)
    .setSender(builderFactory.createSenderBuilder()
        .setBookmakerId(Constants.BOOKMAKER_ID)
        .setLimitId(Constants.LIMIT_ID)
        .setSenderChannel(SenderChannel.INTERNET)
        .setCurrency("EUR"))

    .setEndCustomer(builderFactory.createEndCustomerBuilder()
        .setIp("127.0.0.1")
        .setId("Customer1")
        .setLanguageId("EN")
        .setDeviceId("device1")
        .setConfidence(12092)
        .build())
    .build())
    .addBet(
        builderFactory.createBetBuilder()
        .setBetId("Bet-" + System.currentTimeMillis())
        .addSelectedSystem(1)
        .setStake(50000, StakeType.UNIT)
        .addSelection(
            builderFactory.createSelectionBuilder()
            .setEventId(9738581)
            .setId("lcoo:43/1/*/YES")
            .setOdds(14800)
            .setBanker(false)
            .build())
        .build())
    )
    .build();
  
```

## 10 Sending tickets to MTS

The SDK supports two ways of sending tickets to MTS. The recommended way is to use non-blocking mode. Non-blocking means that the execution of the current thread is not blocked after the ticket is sent and the response from MTS is processed in another thread. To send a ticket in a non-blocking mode, the following call can be used:

```
ticketSender.send(ticket);
```

### Important consideration

When using the `responseReceived(...)` callback method, it is advisable to queue the response to the client's own threads. This is because if the client code is executed inside the event handler and if it takes a long time, the entire SDK instance may be disconnected from the RabbitMQ server due to response timeout. Response handling should be short when used directly on the `responseReceived(...)` callback method, as it is called on the consumer thread. It is also advisable to use try and catch patterns in the handler to log and handle any problems while processing the response.

When the ticket is sent in blocking mode, the current thread is blocked until a response is received from MTS or a timeout occurs (usually 15 seconds). When using blocking mode, the `responseReceived(...)` callback method on the listener is not invoked. Timeouts can be set using `ticketResponseTimeout`, `ticketCancellationResponseTimeout` and `ticketCashoutResponseTimeout` configuration attributes. Ticket can be sent in blocking mode using the following statement:

```
TicketResponse ticketResponse = ticketSender.sendBlocking(ticket);
```

## 11 Custom bet

The CustomBetManager provides an easy way to fetch available selections for a selected event and calculate the probability for a list of provided selections. To get a reference to the CustomBetManager, use the following property:

```
mtsSdk.getCustomBetManager();
```

To get available selections for the provided event, use the following method:

```
manager.getAvailableSelections(eventId);
```

To calculate probability for a list of selections, use the following method:

```
manager.CalculateProbability(selections);
```

CustomBetManager uses builder pattern to simplify creation of selections. To create a selection, use the following methods:

```
manager.getCustomBetSelectionBuilder()  
    .setEventId(eventId)  
    .setMarketId(marketId)  
    .setOutcomeId(outcomeId)  
    .setSpecifiers(specifiers)  
    .build();
```

## 12 Tips and tricks

### 12.1 Using multiple SDK instances

If the client wants to use multiple SDK instances for more ticket throughput, the following needs to be done on the client side. Each use of the SDK instance should be in a separate host (process) because the library uses singletons to create interfaces. If exclusive connection is enabled (which is enabled by default settings, see ***mts.sdk.exclusiveConsumer***) the new instance on a different host must **not** use the same node id (see ***mts.sdk.node***) for connecting to MTS Border RabbitMQ, if so then the new connections will fail to connect to RabbitMQ server. The ***mts.sdk.exclusiveConsumer*** property is there to protect the client from consuming responses from other SDK instances and that SDK would wait for a response that would never arrive.

**Note:** if connecting over WebSocket, using multiple SDK instances is discouraged. As part of the protocol, node IDs aren't used and exclusive consumer property is ignored. The SDK instance that sends messages will always also be the instance that will receive the matching replies. For potentially increasing throughput, there is a property you can try changing: ***mts.sdk.wsNumberOfConnections*** which is set to 1 by default. The property controls how many parallel connections are created inside the same instance of the SDK.

### 12.2 Checking connection status

The SDK uses the `ConnectionStatus` interface (which can be obtained from the `MtsSdk` instance) to retrieve information about the status of the connection (if it is connected, time of connection, time of disconnection, etc.).

There is also the `ConnectionChangeListener` listener that is triggered when the connection status changes.

### 12.3 Connection and reconnection handling using the SDK

If the connection goes down, the client should keep the initial SDK instance open and use its connection handling to reconnect, rather than opening new instances. Opening

new instances can cause issues with hitting connection limits on the server side. The SDK retry window is not configurable as it also helps to protect our servers from heavy loads in case of problems. In any case, running a single instance of the SDK in such cases is the most reliable way, and even the intended way from the SDK perspective. Also, SDK reconnections to the server are retried with a delay window that usually starts at 100 milliseconds and increases with each reconnect error (to protect against heavy loads), but it is not greater than 5 seconds.

## 12.4 Additional notes for connection whitelisting

MTS would like to take this opportunity to reiterate that clients should be cautious when whitelisting MTS IPs as this can lead to an unplanned total loss of network connectivity and should therefore be avoided where possible. Any connectivity issues resulting from such a client setup are therefore the sole responsibility of the client and are considered a risk of which the client is fully aware.

**Clients should rely on verified TLS connections with MTS, as MTS provides a valid server certificate during the TLS handshaking phase, which clients should verify based on the FQDN they are connecting to.**

In the case the SDK throws this error without an additional close-reason, the suggested approach is to check that whitelisting is correctly applied for the client's IP.

## 12.5 Queue issues and disconnections

When the SDK/protocol implementation disconnects, there are several possible issues. One of them, which is less well known, is that if the queue created by the SDK instance has unacknowledged messages. So, if the client doesn't send basic acknowledgments to the queue as soon as it consumes the message, it will cause a disconnect 30 minutes after the first unacknowledged message appears in the queue.

## 12.6 Building selection instances

The SDK supports markets used by the three Betradar feeds – LO (Live Odds), LCoO (Live Cycle of Odds) and UF (Unified Feed) implemented by different methods on the [SelectionBuilder](#) type.

- `setId(String id);`  
This method should be used when building string representations of the market identifiers directly (without the help from the SDK).
- `setIdLo(int type, int subType, String sov, String selectionId);`  
This method should be used when building market identifiers from information provided by the LO feed.
- `setIdLcoo(int type, int sportId, String sov, String selectionId);` This method should be used when building market identifiers from information provided by the LCoO feed.
- `setIdUof(int product, String sportId, int marketId, String selectionIds, Map<String, String> specifiers, Map<String, Object> sportEventStatus);`  
This method should be used when building market identifiers from information provided by the UF feed. Note: this method will throw if accessToken is not provided. Method parameter sportEventStatus needs the following keys:
  - HomeScore (home\_score in sport event status)
  - AwayScore (away\_score in sport event status)
  - Server (current\_server in sport event status)If you are using UnifiedFeed sdk the map with the correct keys may be obtained:  
`Map<String, Object> sportEventStatus = competition.getStatus().toKeyValueStore();`

END OF DOCUMENT