

Support & Order Chat - Socket.io Events Documentation

Overview

The backend uses **Socket.io** with a `/support` namespace to handle real-time messaging for both **support chat** and **order chat**. This document describes all WebSocket events available for the Flutter restaurant/market app.

Connection Setup

Server URL

```
wss://avvento-server.onrender.com/support
```

Authentication

Pass the JWT token during connection via the `auth` object:

```
import 'package:socket_io_client/socket_io_client.dart' as IO;

final socket = IO.io(
  'https://avvento-server.onrender.com/support',
  IO.OptionBuilder()
    .setTransports(['websocket', 'polling'])
    .setAuth({'token': 'YOUR_JWT_TOKEN'})
    .enableReconnection()
    .setReconnectionDelay(1000)
    .setReconnectionDelayMax(5000)
    .setReconnectionAttempts(5)
    .build(),
);
```

Authentication Methods (any one)

Method	Example
auth object (recommended)	{ token: "eyJhbGciOi..." }
Query parameter	?token=eyJhbGciOi...
Header	Authorization: Bearer eyJhbGciOi...

On Successful Connection

- User is automatically joined to a personal room: `user:{userId}`
- This room is used for receiving `new-conversation` events without joining any specific conversation

On Failed Connection

- Socket is disconnected by the server
- Reasons: missing token, invalid/expired token, no userId in token payload

Events

Client → Server Events

1. `join-conversation`

Join a conversation room to start receiving real-time messages and updates for that conversation.

When to emit: When the user opens a chat screen (support chat or order chat).

Payload:

```
{  
  "conversationId": "6650abc123def456"  
}
```

Field	Type	Required	Description
conversationId	String	Yes	The MongoDB <code>_id</code> of the conversation

Server Response:

```
{  
  "success": true,  
  "conversationId": "6650abc123def456"  
}
```

Error Cases:

- User is not authenticated → UnauthorizedException
- User does not have access to this conversation → ForbiddenException
- Conversation does not exist → NotFoundException

Flutter Example:

```
socket.emit('join-conversation', {'conversationId': conversationId});
```

2. leave-conversation

Leave a conversation room to stop receiving real-time messages and updates.

When to emit: When the user navigates away from a chat screen.

Payload:

```
{  
  "conversationId": "6650abc123def456"  
}
```

Field	Type	Required	Description
conversationId	String	Yes	The MongoDB <code>_id</code> of the conversation

Server Response:

```
{  
  "success": true,  
  "conversationId": "6650abc123def456"  
}
```

Flutter Example:

```
socket.emit('leave-conversation', {'conversationId': conversationId});
```

Server → Client Events

3. new-message

Received when a new message is sent in a conversation that the user has joined.

When received: After a participant sends a message via `POST /support/messages`.

Prerequisite: Must have joined the conversation room via `join-conversation`.

Payload:

```
{  
  "_id": "665abc123def456789",  
  "conversation": "665def456abc789012",  
  "sender": {  
    "_id": "664ghi789abc012345",  
    "name": "محمد محمد",  
    "role": "user"  
  },  
  "type": "text",  
  "content": "مرحبا ، أحتاج مساعدة في طلبي",  
  "isRead": false,  
  "createdAt": "2025-02-14T10:30:00.000Z",  
  "updatedAt": "2025-02-14T10:30:00.000Z"  
}
```

Field	Type	Description
<code>_id</code>	String	Message unique ID
<code>conversation</code>	String	Conversation ID this message belongs to
<code>sender</code>	Object	Sender info
<code>sender._id</code>	String	Sender user ID
<code>sender.name</code>	String	Sender display name
<code>sender.role</code>	String	Sender role: <code>user</code> , <code>admin</code> , <code>restaurant</code> , <code>market</code> , <code>pharmacy</code>
<code>type</code>	String	Message type: <code>text</code> , <code>image</code> , <code>system</code>
<code>content</code>	String	Message content (text or image URL)
<code>isRead</code>	Boolean	Whether the message has been read
<code>createdAt</code>	String	ISO 8601 timestamp
<code>updatedAt</code>	String	ISO 8601 timestamp

Flutter Example:

```
socket.on('new-message', (data) {  
  final message = Map<String, dynamic>.from(data);  
  final content = message['content'];  
  final senderName = message['sender']['name'];  
  final type = message['type']; // text, image, system  
  
  // Add message to chat list  
  messages.add(message);  
});
```

4. conversation-updated

Received when a conversation's status or metadata changes.

When received:

- Admin closes or reopens a conversation via `PATCH /support/conversations/:id`
- Order chat is auto-closed when the order is delivered or cancelled

- Conversation subject or metadata is updated

Prerequisite: Must have joined the conversation room via `join-conversation`.

Payload:

```
{
  "_id": "665def456abc789012",
  "participants": [
    {
      "_id": "664ghi789abc012345",
      "name": "أحمد محمد",
      "role": "user"
    },
    {
      "_id": "664jkl012def345678",
      "name": "المدير",
      "role": "admin"
    }
  ],
  "subject": "1234#مشكلة في الطلب",
  "status": "closed",
  "supportType": "order",
  "relatedOrder": "665mno345ghi678901",
  "lastMessage": {
    "_id": "665pqr678jkl901234",
    "content": "تم إغلاق المحادثة",
    "type": "system",
    "createdAt": "2025-02-14T11:00:00.000Z"
  },
  "unreadCount": 0,
  "createdAt": "2025-02-14T10:00:00.000Z",
  "updatedAt": "2025-02-14T11:00:00.000Z"
}
```

Field	Type	Description
<code>_id</code>	String	Conversation unique ID
<code>participants</code>	Array	List of participant objects with <code>_id</code> , <code>name</code> , <code>role</code>
<code>subject</code>	String	Conversation subject/title
<code>status</code>	String	Current status: <code>open</code> , <code>closed</code> , <code>resolved</code>
<code>supportType</code>	String	Type: <code>general</code> (support chat) or <code>order</code> (order chat)
<code>relatedOrder</code>	String?	Order ID (only for <code>supportType: "order"</code>)
<code>lastMessage</code>	Object?	Last message in the conversation
<code>unreadCount</code>	Number	Number of unread messages
<code>createdAt</code>	String	ISO 8601 timestamp
<code>updatedAt</code>	String	ISO 8601 timestamp

Flutter Example:

```

socket.on('conversation-updated', (data) {
  final conversation = Map<String, dynamic>.from(data);
  final status = conversation['status'];

  if (status == 'closed') {
    // Show "conversation closed" banner
    // Disable message input
  } else if (status == 'open') {
    // Re-enable message input
  }
});

```

5. new-conversation

Received when a new conversation is created that involves this user.

When received:

- Admin creates a support chat targeting this user
- A user opens an order chat (admin receives this event)
- Any new conversation is created where this user is a participant

Prerequisite: Only requires socket connection. **No need to join any room** – this event is sent to the user's personal room `user:{userId}` which is auto-joined on connection.

Payload:

```

{
  "_id": "665pqr678jk1901234",
  "participants": [
    {
      "_id": "664ghi789abc012345",
      "name": "محمد محمد",
      "role": "user"
    },
    {
      "_id": "664jkl012def345678",
      "name": "المدير",
      "role": "admin"
    }
  ],
  "subject": "1234# طلب",
  "status": "open",
  "supportType": "order",
  "relatedOrder": "665mno345ghi678901",
  "createdAt": "2025-02-14T12:00:00.000Z",
  "updatedAt": "2025-02-14T12:00:00.000Z"
}

```

Field	Type	Description
<code>_id</code>	<code>String</code>	New conversation unique ID
<code>participants</code>	<code>Array</code>	Participants with <code>_id</code> , <code>name</code> , <code>role</code>
<code>subject</code>	<code>String</code>	Conversation subject
<code>status</code>	<code>String</code>	Always <code>open</code> for new conversations
<code>supportType</code>	<code>String</code>	<code>general</code> OR <code>order</code>
<code>relatedOrder</code>	<code>String?</code>	Order ID (only for order chats)
<code>createdAt</code>	<code>String</code>	ISO 8601 timestamp
<code>updatedAt</code>	<code>String</code>	ISO 8601 timestamp

Field	Flutter Example:	Type	Description
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```
socket.on('new-conversation', (data) {
  final conversation = Map<String, dynamic>.from(data);

  // Show notification badge on chat icon
  // Add to conversations list
  // Optionally show a snackbar notification
});
```

REST API Endpoints (Used with Socket Events)

Support Chat

Method	Endpoint	Roles	Description
POST	/support/conversations	Admin, Restaurant	Create a new support conversation
POST	/support/conversations/with-admin	User, Restaurant, Market, Pharmacy	Create support conversation with admin
GET	/support/conversations	All authenticated	Get my conversations
GET	/support/conversations/:id	Participants	Get a specific conversation
PATCH	/support/conversations/:id	Admin	Update conversation (status, subject)
POST	/support/messages	Participants	Send a message
GET	/support/conversations/:id/messages	Participants	Get messages (paginated)
POST	/support/conversations/:id/read	Participants	Mark messages as read

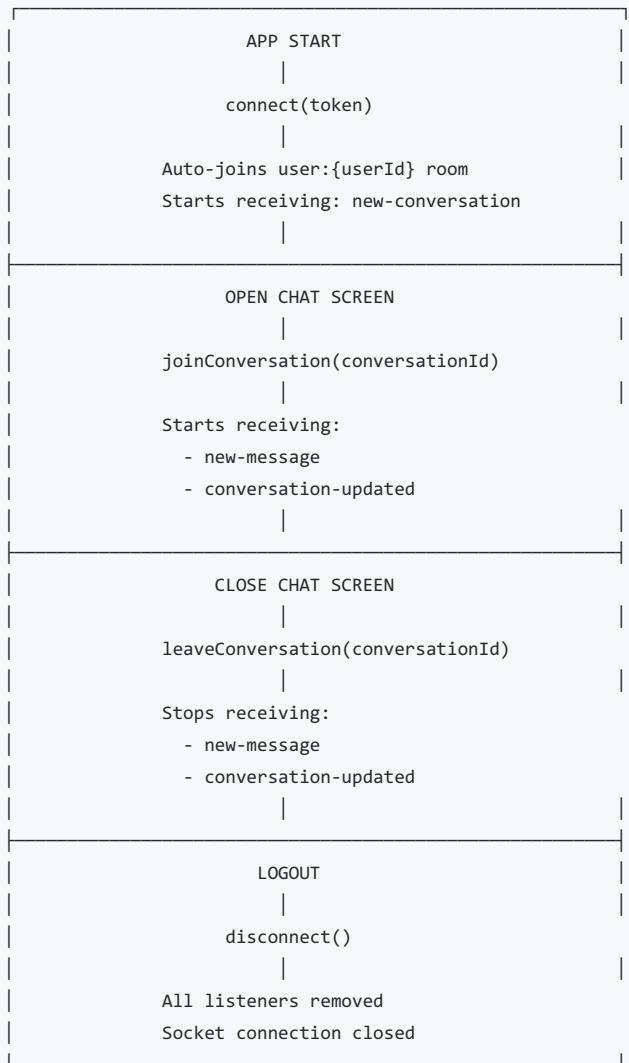
Order Chat

Method	Endpoint	Roles	Description
POST	/support/order-chat/:orderId	All authenticated	Create or get order chat
GET	/support/order-chat/:orderId	Participants	Get order chat conversation
GET	/support/order-chat/:orderId/messages	Participants	Get order chat messages (paginated)

Query Parameters for Messages

Parameter	Type	Default	Description
page	Number	1	Page number
limit	Number	50	Messages per page

Connection Lifecycle



Order Chat Flow (Step by Step)

1. User opens order chat
 - └ POST /support/order-chat/{orderId}
 - └ Returns conversation object (creates if not exists)
 - └ Admin receives "new-conversation" via socket
2. User joins conversation room
 - └ emit('join-conversation', { conversationId })
3. Admin joins conversation room
 - └ emit('join-conversation', { conversationId })
4. User sends a message
 - └ POST /support/messages { conversationId, content }
 - └ Both receive "new-message" via socket
5. Admin replies
 - └ POST /support/messages { conversationId, content }
 - └ Both receive "new-message" via socket
6. Order is delivered or cancelled
 - └ Server auto-closes the order chat
 - └ Both receive "conversation-updated" with status: "closed"
 - └ A system message "تم إغلاق محادثة الطلب" is sent

Flutter Package

Add to pubspec.yaml:

```
dependencies:  
  socket_io_client: ^2.0.3+1
```

Install:

```
flutter pub get
```