

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)	<code>{ token: "eyJhbGciOi..." }</code>
Query parameter	<code>?token=eyJhbGciOi...</code>
Header	<code>Authorization: Bearer eyJhbGciOi...</code>

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": "أحمد 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
_id	String	Message unique ID
conversation	String	Conversation ID this message belongs to
sender	Object	Sender info
sender._id	String	Sender user ID
sender.name	String	Sender display name
sender.role	String	Sender role: user, admin, restaurant, market, pharmacy
type	String	Message type: text, image, system
content	String	Message content (text or image URL)
isRead	Boolean	Whether the message has been read
createdAt	String	ISO 8601 timestamp
updatedAt	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": "مشكلة في الطلب #1234",
  "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
_id	String	Conversation unique ID
participants	Array	List of participant objects with _id, name, role
subject	String	Conversation subject/title
status	String	Current status: open, closed, resolved
supportType	String	Type: general (support chat) or order (order chat)
relatedOrder	String?	Order ID (only for supportType: "order")
lastMessage	Object?	Last message in the conversation
unreadCount	Number	Number of unread messages
createdAt	String	ISO 8601 timestamp
updatedAt	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": "أحمد محمد",
      "role": "user"
    },
    {
      "_id": "664jk1012def345678",
      "name": "المدبر",
      "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
_id	String	New conversation unique ID
participants	Array	Participants with _id, name, role
subject	String	Conversation subject
status	String	Always open for new conversations
supportType	String	general or order
relatedOrder	String?	Order ID (only for order chats)
createdAt	String	ISO 8601 timestamp
updatedAt	String	ISO 8601 timestamp

Field	Type	Description
Flutter Example:		

```
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

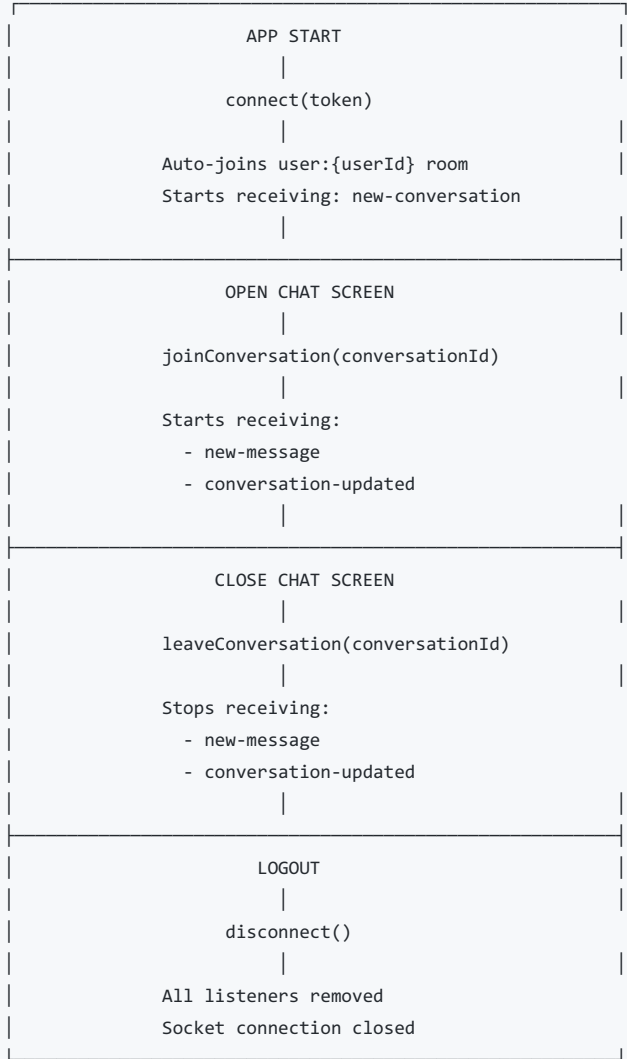
Order Chat

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
```