

AmqpConnectionManagerSocketOptions

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Kind: Interface

Source: `packages/microservices/external/rmq-url.interface.ts`

Part of: [Microservices](#)

`AmqpConnectionManagerSocketOptions` configures how an AMQP connection manager discovers RabbitMQ servers and maintains its socket connection. It defines reconnect and heartbeat timing, AMQP connection settings, and client metadata used when establishing connections.

Properties

Property	Type
<code>reconnectTimeInSeconds</code>	<code>number</code>
<code>heartbeatIntervalInSeconds</code>	<code>number</code>
<code>findServers</code>	<code>() => string</code>
<code>connectionOptions</code>	<code>AmqpConnectionOptions</code>
<code>clientProperties</code>	<code>ClientProperties</code>

Diagram

```
graph LR
  App[Application / Microservice] --> Options[AmqpConnectionManagerSocketOptions]
  Options --> Discovery[findServers()]
  Discovery --> Servers[AMQP Server URL(s)]
  Options --> Reconnect[reconnectTimeInSeconds]
  Options --> Heartbeat[heartbeatIntervalInSeconds]
  Options --> Connection[connectionOptions]
  Options --> Properties[clientProperties]
  Servers --> Manager[AMQP Connection Manager]
  Reconnect --> Manager
```

```
Heartbeat --> Manager
Connection --> Manager
Properties --> Manager
Manager --> RabbitMQ[RabbitMQ Cluster]
```

Usage

```
import type {
  AmqpConnectionManagerSocketOptions,
} from './rmq-url.interface';

const socketOptions: AmqpConnectionManagerSocketOptions = {
  reconnectTimeInSeconds: 5,
  heartbeatIntervalInSeconds: 30,

  findServers: () => [
    'amqp://rabbitmq-1:5672',
    'amqp://rabbitmq-2:5672',
  ],

  connectionOptions: {
    username: process.env.RABBITMQ_USERNAME,
    password: process.env.RABBITMQ_PASSWORD,
    vhost: process.env.RABBITMQ_VHOST ?? '/',
  },

  clientProperties: {
    connection_name: 'orders-service',
  },
};

// Pass socketOptions to the AMQP/RabbitMQ connection setup.
```

AI Coding Instructions

- Return one or more valid AMQP server URLs from `findServers` ; use multiple URLs for clustered RabbitMQ deployments.
- Keep `reconnectTimeInSeconds` and `heartbeatIntervalInSeconds` positive and appropriate for the service reliability requirements.
- Store credentials in environment variables or a secrets manager rather than hardcoding them in `connectionOptions` .
- Set a meaningful `clientProperties.connection_name` value to make RabbitMQ management and connection debugging easier.

- Ensure `connectionOptions` matches the AMQP client library's supported connection option format.