

WsParamsFactory

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Kind: Class**Source:** `packages/websockets/factories/ws-params-factory.ts`**Part of:** [Websockets](#)

`WsParamsFactory` resolves WebSocket handler parameter values from the runtime argument array. It maps WebSocket parameter types—such as the connected socket or message payload—to the values injected into gateway handler methods.

Methods

Method	Signature	Returns
<code>exchangeKeyForValue</code>	<code>`exchangeKeyForValue(type: number, data: string`</code>	<code>undefined, args: unknown[]`</code>

Where it refuses work

- `WsParamsFactory` stops the work with an early return when `!args`.

Diagram

```
graph LR
  A[WebSocket event arguments] --> B[WsParamsFactory.exchangeKeyForValue]
  B --> C[{WsParamtype}]
  C -->|SOCKET| D[Socket client: args[0]]
  C -->|PAYLOAD| E[Message payload: args[1]]
  E -->|Property key provided| F[Payload property]
```

Usage

```
import { WsParamsFactory } from '@nestjs/websockets/factories/ws-params-factory';
import { WsParamtype } from '@nestjs/websockets/enums/ws-paramtype.enum';

const paramsFactory = new WsParamsFactory();

const client = { id: 'socket-123' };
const payload = { roomId: 'general', message: 'Hello' };
const args = [client, payload];

const socket = paramsFactory.exchangeKeyForValue(
  WsParamtype.SOCKET,
  undefined,
  args,
);

const message = paramsFactory.exchangeKeyForValue(
  WsParamtype.PAYLOAD,
  'message',
  args,
);

console.log(socket); // { id: 'socket-123' }
console.log(message); // "Hello"
```

AI Coding Instructions

- Treat `args[0]` as the WebSocket client and `args[1]` as the incoming event payload.
- Use `WsParamtype.SOCKET` to resolve the client connection and `WsParamtype.PAYLOAD` to resolve the full payload or a payload property.
- Pass a payload property key only when extracting a nested top-level value; omit it to receive the complete payload.
- Keep parameter-resolution behavior aligned with WebSocket decorators such as `@ConnectedSocket()` and `@MessageBody()`.
- Avoid depending on this factory as a general-purpose object accessor; it is intended for WebSocket handler argument binding.

Relationships

- IMPORTS → `isFunction`