

NatsContext

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NatsContext

Kind: Class**Source:** `packages/microservices/ctx-host/nats.context.ts`**Part of:** [Microservices](#)

`NatsContext` provides access to NATS-specific metadata for an incoming microservice message. Use it in NATS message handlers to inspect the message subject and any associated headers without coupling application logic directly to the transport layer.

Extends: `BaseRpcContext`

Methods

Method	Signature	Returns
<code>getSubject</code>	<code>getSubject()</code>	<code>void</code>
<code>getHeaders</code>	<code>getHeaders()</code>	<code>void</code>

Diagram

```
graph LR
  Publisher[NATS Publisher] -->|subject + headers + payload| Server[NATS Server]
  Server --> Handler[Message Handler]
  Handler --> Context[NatsContext]
  Context --> Subject[getSubject()]
  Context --> Headers[getHeaders()]
```

Usage

```
import { Controller } from '@nestjs/common';
import { Ctx, MessagePattern, Payload } from '@nestjs/microservices';
import { NatsContext } from '@nestjs/microservices';
```

```

@Controller()
export class OrdersController {
  @MessagePattern('orders.created')
  handleOrderCreated(
    @Payload() order: { id: string },
    @Ctx() context: NatsContext,
  ) {
    const subject = context.getSubject();
    const headers = context.getHeaders();

    console.log(`Received order ${order.id} on ${subject}`);
    console.log('Request headers:', headers);

    return { received: true };
  }
}

```

AI Coding Instructions

- Inject `NatsContext` with `@Ctx()` only in handlers executed through the NATS transport.
- Use `getSubject()` when behavior depends on the NATS subject that routed the message.
- Use `getHeaders()` for transport metadata such as tracing, correlation IDs, or custom message attributes.
- Do not assume headers are always present; handle missing or undefined header values safely.
- Keep business logic transport-agnostic where possible, and isolate NATS-specific metadata handling at the message-handler boundary.

Used by

1 reference from 1 file. Each is a place in this repository where the symbol is actually used — go read one rather than trusting an example.

Imported by (1)

- `NatsController` — `integration/microservices/src/nats/nats.controller.ts` :19