

KafkaJSOffsetOutOfRangeMetadata

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Kind: Interface

Source: `packages/microservices/external/kafka.interface.ts`

Part of: [Microservices](#)

`KafkaJSOffsetOutOfRangeMetadata` describes the Kafka topic and partition associated with an offset-out-of-range condition. It is used by the microservices Kafka integration to identify the exact partition that requires offset recovery, reset, or error handling.

Properties

Property	Type
<code>topic</code>	<code>string</code>
<code>partition</code>	<code>number</code>

Diagram

```
graph LR
  A[Kafka Consumer] --> B[Offset Out of Range Error]
  B --> C[KafkaJSOffsetOutOfRangeMetadata]
  C --> D[topic: string]
  C --> E[partition: number]
  C --> F[Offset Recovery / Retry Handling]
```

Usage

```
import type { KafkaJSOffsetOutOfRangeMetadata } from './kafka.interface';

function handleOffsetOutOfRange(
  metadata: KafkaJSOffsetOutOfRangeMetadata,
) {
```

```
console.warn(
  `Offset is out of range for ${metadata.topic}[${metadata.partition}]`,
);

// Use the topic and partition to seek to a valid offset or apply recovery logic.
}

handleOffsetOutOfRange({
  topic: 'orders.created',
  partition: 2,
});
```

AI Coding Instructions

- Provide a valid Kafka topic name in `topic` ; do not use a consumer group ID or broker address.
- Use the numeric Kafka partition index in `partition` , typically starting at `0` .
- Preserve both fields when forwarding offset-out-of-range errors to recovery or logging code.
- Use this metadata with Kafka consumer offset reset or seek logic rather than treating it as a message payload.