

Offsets

August 17, 2026

Offsets

Kind: Interface

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

Part of: [Microservices](#)

`Offsets` represents a collection of Kafka topic offset definitions. It is used when working with consumer position management, allowing callers to provide offset information for one or more topics through the `topics` array.

Properties

Property	Type
<code>topics</code>	<code>TopicOffsets[]</code>

Diagram

```
graph LR
  Offsets[Offsets] --> Topics[Topics]
  Topics --> TopicOffset1[TopicOffset1]
  Topics --> TopicOffset2[TopicOffset2]
  TopicOffset1 --> Kafka1[Kafka]
  TopicOffset2 --> Kafka2[Kafka]
```

Usage

```
import { Offsets, TopicOffsets } from './kafka.interface';

const topicOffsets: TopicOffsets[] = [
  {
    topic: 'orders',
    partitions: [
      { partition: 0, offset: '125' },
    ],
  },
];
```

```
    { partition: 1, offset: '98' },  
  ],  
},  
];  
  
const offsets: Offsets = {  
  topics: topicOffsets,  
};  
  
// Pass offsets to the Kafka client operation that accepts topic offsets.  
await kafkaConsumer.seek(offsets);
```

AI Coding Instructions

- Populate `topics` with valid `TopicOffsets` objects; do not pass raw topic names or partition offsets directly.
- Preserve Kafka offsets as strings when the underlying client API expects string-based offsets.
- Include all relevant partitions when resetting or seeking consumer positions for a topic.
- Validate topic names and partition numbers against the Kafka cluster metadata before applying offsets.
- Use this interface with Kafka consumer offset-management operations such as seeking, committing, or resetting positions.