Oracle® Unified Topology for Inventory and Automation
Asynchronous Events Guide

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Oracle Unified Topology for Inventory and Automation Asynchronous Events Guide, Release 7.6

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Preface

This document outlines the events available in the Unified Topology for Inventory and Automation (UTIA) service for asynchronous processing.

Audience

This document is for system administrators, database administrators, and developers who install and configure Unified Inventory and Topology.

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About UTIA Asynchronous Events

Unified Topology for Inventory and Automation (UTIA) uses the Oracle Communications Unified Operations Message Bus (UOMB) for processing these events.

The UOMB service is a distributed event store and stream-processing platform service. The Message Bus client sends/receives events (or messages) to/from the Message Bus service from a specific channel called a Topic, so that the source and target clients (or services) are loosely coupled and asynchronous. The Message Bus uses Apache Kafka in its platform to support the event store and stream-processing.

Apache Kafka is a distributed publish-subscribe messaging system that receives data from disparate source systems and makes the data available to target systems in real time. Similar to other message brokers systems, Kafka facilitates the asynchronous data exchange between processes, applications and servers.

The following figure illustrates the architecture diagram of Apache Kafka.

2
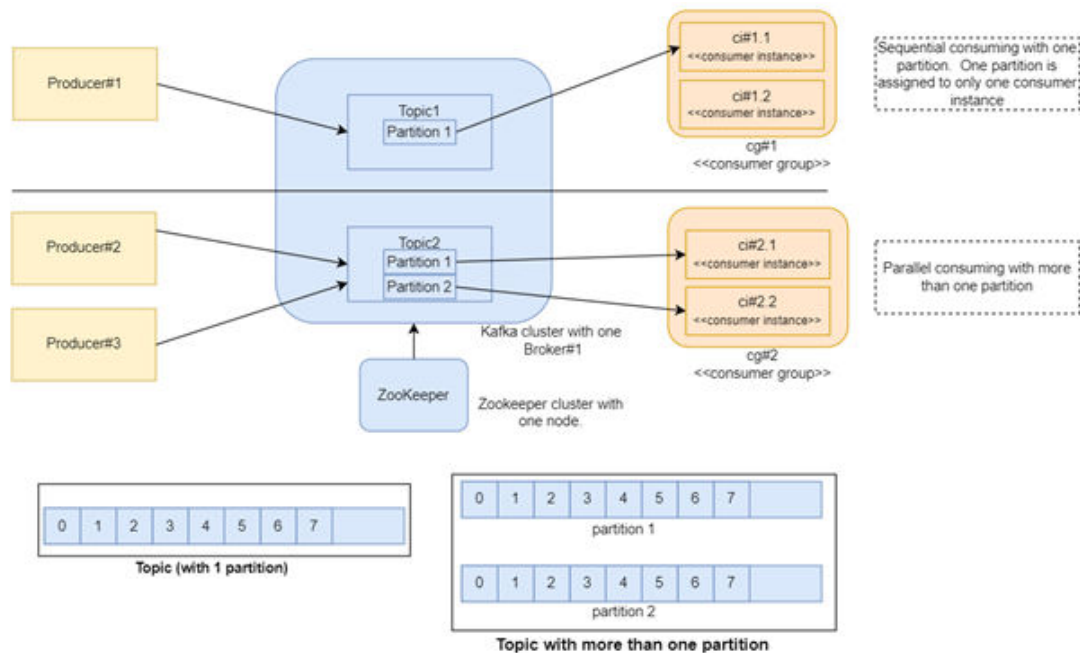
UTIA Events and Definitions

The types of events in UTIA are Topology events and Performance or Fault events. The Topology events provide an event-driven architecture for creating, updating, and deleting Topology Vertices and Edges. The Topology events are listed as follows and are available as messages in the **ora-uim-topology** topic.

Table 2-1   Topology Events

Topology Event	Definition
TopologyEdgeCreate	This event supports the creation of all types of Topology Edges except Profile Edges.
TopologyEdgeDelete	This event supports the deletion of all types of Topology Edges except Profile Edges.
TopologyEdgeUpdate	This event supports updates of all types of Topology Edge except Profile Edges.
TopologyNodeCreate	This event supports the creation of all types of Topology Vertices except Profile Vertices.
TopologyNodeDelete	This event supports the deletion of all types of Topology Vertices except Profile Vertices.
TopologyNodeUpdate	This event supports updates of all types of Topology Vertices except Profile Vertices.
TopologyProfileCreate	This event supports the creation of Topology Profiles which represent an end-to-end trail of nodes and edges. For example, Service Topology is a Topology profile.
TopologyProfileDelete	This event supports the deletion of Topology Profiles.
TopologyProfileDelete	This event supports the deletion of Topology Profiles.
TopologyProfileUpdate	This event supports updates Topology Profiles.

TopologyEdgeCreate

The following table provides the TopologyEdgeCreate event details and the corresponding values:

Table 2-2   TopologyEdgeCreate

Event Details	Value
Summary	Receives messages for creating Topology Edges.
Message Header (with examples)	eventType: "TopologyEdgeCreate" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.

Table 2-2   (Cont.) TopologyEdgeCreate

Event Details	Value
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Edge

Example Payload:

```
{
            "businessObjectClass": "PacketConnectivityDAO",
            "inventoryStatus": "INSTALLED",
            "name": "ELCN01PR.SR-1 / WSHN01DC.SR-1 / 40GigE / GE10 / 1",
            "referenceId": 1579678,
            "specName": "INNI Connectivity",
            "technology" : "Ethernet",
            "ratecode" : "10GigE",
            "fromNodeReferenceId" : "655350",
            "fromNodeBusinessObjectClass" : "LogicalDeviceDAO",
            "toNodeReferenceId" : "218472",
            "toNodeBusinessObjectClass" : "LogicalDeviceDAO",
            "edgeType" : "COMMUNICATES_WITH"
}
```

TopologyEdgeDelete

The following table provides the TopologyEdgeDelete event details and the corresponding values:

Table 2-3   TopologyEdgeDelete

Event Details	Value
Summary	Receives messages for deleting Topology Edges.
Message Header (with examples)	eventType: "TopologyEdgeDelete" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Edge

Example Payload (using Edge entityID):

```
{
        "entityId" : 1356
}
```

Example Payload (using businessObjectClass, referenceId and edgeType):

```
{
            "businessObjectClass": "PacketConnectivityDAO",
            "referenceId": 1579678,
            "edgeType" : "COMMUNICATES_WITH"
}
```

Example Payload (using fromNode, toNode and edgeType):

```
{
 "businessObjectClass": "TopologyOnly",
 "fromNode" : 1354,
 "toNode" : 1355,
 "edgeType" : "PARENT_DEVICE"
 }
```

TopologyEdgeUpdate

The following table provides the TopologyEdgeUpdate event details and the corresponding values:

Table 2-4   TopologyEdgeUpdate

Event Details	Value
Summary	Receives messages for updating Topology Edges.
Message Header (with examples)	eventType: "TopologyEdgeUpdate" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Edge

Example Payload (Communication Edge):

```
{
            "entityId" : 1356,
            "businessObjectClass": "PacketConnectivityDAO",
            "inventoryStatus": "INSTALLED",
            "name": " ELCN01PR.SR-1 / WSHN01DC.SR-1 / 40GigE / GE10 / 1",
            "referenceId": 1579678,
            "specName": "INNI Connectivity",
            "technology" : "Ethernet",
            "ratecode" : "10GigE",
            "fromNode" : 4889,
            "fromNodeBusinessObjectClass" : "LogicalDeviceDAO",
            "toNode" : 6584,
```

```
                            "toNodeBusinessObjectClass" : "LogicalDeviceDAO",
                            "edgeType" : "COMMUNICATES_WITH"
            }
```

Example Payload (Topological Edge with Edge Label = PARENT_DEVICE):

```
{
            "businessObjectClass": "TopologyOnly",
            "inventoryStatus": "INSTALLED",
            "name": "EquipmentShelfI-PhysicalDeviceI",
            "fromNodeReferenceId" : "675001",
            "fromNodeBusinessObjectClass" : "EquipmentDAO",
            "toNodeReferenceId" : "600001",
            "toNodeBusinessObjectClass" : "PhysicalDeviceDAO",
            "edgeType" : "PARENT_DEVICE",
            "properties" : {
                "propertyOne" : "newValueOne",
                "propertyTwo" : "newValueTwo"
            }
}
```

TopologyNodeCreate

The following table provides the TopologyNodeCreate event details and the corresponding values:

Table 2-5   TopologyNodeCreate

Event Details	Value
Summary	Receives messages for creating Topology Nodes and Vertices.
Message Header (with examples)	eventType: "TopologyNodeCreate" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Vertex

Example Payload:

```
{
            "businessObjectClass": "LogicalDeviceDAO",
            "inventoryStatus": "INSTALLED",
            "name": "BDFR01TX.T-1.LD",
            "id" : "BDFR01TX.T-1",
            "referenceId": 3375004,
            "specName": "Cisco ASR 920 LD"
}
```

TopologyNodeDelete

The following table provides the TopologyNodeDelete event details and the corresponding values:

Table 2-6   TopologyNodeDelete

Event Details	Value
Summary	Receives messages for deleting Topology Nodes or Vertices.
Message Header (with examples)	eventType: "TopologyNodeDelete" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Vertex

Example Payload (using entityID):

```
{
        "entityId" : 1354
}
```

Example Payload (using businessObjectClass, referenceId):

```
{
        "businessObjectClass": "LogicalDeviceDAO",
        "referenceId": 999997
}
```

TopologyNodeUpdate

The following table provides the TopologyNodeUpdate event details and the corresponding values:

Table 2-7   TopologyNodeUpdate

Event Details	Value
Summary	Receives messages for updating Topology Nodes and Vertices.
Message Header (with examples)	eventType: "TopologyNodeUpdate" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.

Table 2-7   (Cont.) TopologyNodeUpdate

Event Details	Value
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Vertex

Example Payload:

```
{
            "businessObjectClass": "LogicalDeviceDAO",
            "inventoryStatus": "INSTALLED",
            "name": "BDFR01TX.T-1.LD",
            "nodeCategory": "Access",
            "id" : "BDFR01TX.T-1",
            "referenceId": 3375004,
            "specName": "Cisco ASR 920 LD"
}
```

TopologyProfileCreate

The following table provides the TopologyProfileCreate event details and the corresponding values:

Table 2-8   TopologyProfileCreate

Event Details	Value
Summary	Receives messages for creating Topology Profiles.
Message Header (with examples)	eventType: "TopologyProfileCreate" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Profile, ProfileEdge, ProfileVertex

Example Payload:

```
{
  "entityId": 0,
  "entityVersion": 0,
  "businessObjectClass": "ServiceConfigurationVersionDAO",
  "id": "5100001:1",
  "name": "dev_service:dev_service - 1",
  "referenceId": 118500001,
  "zoomLevel": 0,
  "refresh": false,
```

```
      "profileVertices": [
        {
          "entityId": 0,
          "entityVersion": 0,
          "businessObjectClass": "LogicalDeviceDAO",
          "id": "5475001",
          "exclude": false,
          "device": 100155338,
          "name": "dev_device",
          "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
          "xPos": 0,
          "yPos": 0,
          "profile": 0,
          "createdDate": "2023-03-06T15:41:17.076Z",
          "lastModifiedDate": "2023-03-06T15:41:17.076Z"
        },
        {
          "entityId": 0,
          "entityVersion": 0,
          "businessObjectClass": "LogicalDeviceDAO",
          "id": "5475003",
          "exclude": false,
          "device": 100155343,
          "name": "dev_zdevice",
          "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
          "xPos": 0,
          "yPos": 0,
          "profile": 0,
          "createdDate": "2023-03-06T15:41:17.076Z",
          "lastModifiedDate": "2023-03-06T15:41:17.076Z"
        },
        {
          "entityId": 0,
          "entityVersion": 0,
          "businessObjectClass": "LogicalDeviceDAO",
          "id": "5475002",
          "exclude": false,
          "device": 100155341,
          "name": "dev_ydevice",
          "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
          "xPos": 0,
          "yPos": 0,
          "profile": 0,
          "createdDate": "2023-03-06T15:41:17.076Z",
          "lastModifiedDate": "2023-03-06T15:41:17.076Z"
        }
      ],
      "profileEdges": [
        {
          "entityId": 0,
          "entityVersion": 0,
          "businessObjectClass": "PacketConnectivityDAO",
          "id": "5250001",
```

```
      "communication": 100155339,
      "name": "YYY / ZZZ / 1GigE / GE1 / 23",
      "exclude": false,
      "profileNode": {
        "entityId": 0,
        "entityVersion": 0,
        "businessObjectClass": "LogicalDeviceDAO",
        "id": "5475002",
        "exclude": false,
        "device": 100155341,
        "name": "dev_ydevice",
        "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
        "xPos": 0,
        "yPos": 0,
        "profile": 0,
        "createdDate": "2023-03-06T15:41:17.076Z",
        "lastModifiedDate": "2023-03-06T15:41:17.076Z"
      },
      "toProfileNode": {
        "entityId": 0,
        "entityVersion": 0,
        "businessObjectClass": "LogicalDeviceDAO",
        "id": "5475003",
        "exclude": false,
        "device": 100155343,
        "name": "dev_zdevice",
        "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
        "xPos": 0,
        "yPos": 0,
        "profile": 0,
        "createdDate": "2023-03-06T15:41:17.076Z",
        "lastModifiedDate": "2023-03-06T15:41:17.076Z"
      },
      "profile": 0,
      "createdDate": "2023-03-06T15:41:17.161Z",
      "lastModifiedDate": "2023-03-06T15:41:17.161Z"
    }
  ],
  "createdDate": "2023-03-06T15:41:16.865Z",
  "lastModifiedDate": "2023-03-06T15:41:16.865Z"
}
```

TopologyProfileDelete

The following table provides the TopologyProfileDelete event details and the corresponding values:

Table 2-9   TopologyProfileDelete

Event Details	Value
Summary	Receives messages for deleting Topology Profiles.

Table 2-9   (Cont.) TopologyProfileDelete

Event Details	Value
Message Header (with examples)	eventType: "TopologyProfileDelete" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Profile, ProfileEdge, ProfileVertex

Example Payload:

```
{
       "entityId": 100155358
}
```

TopologyProfileUpdate

The following table provides the TopologyProfileUpdate event details and the corresponding values:

Table 2-10   TopologyProfileUpdate

Event Details	Value
Summary	Receives messages for updating Topology Profiles.
Message Header (with examples)	eventType: "TopologyProfileUpdate" sourceSystemId: "UIM" transactionId: "uim-topology-nnnnnn"
Topic	ora-uim-topology
Producer	UIM, any External System, typically an Inventory System.
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Profile, ProfileEdge, ProfileVertex

Example Payload:

```
{
  "businessObjectClass": "ServiceConfigurationVersionDAO",
  "createdDate": "2023-03-06T15:55:47.892Z",
  "entityId": 100155358,
  "entityVersion": 0,
  "id": "5100001:3",
  "lastModifiedDate": "2023-03-06T15:55:47.892Z",
  "name": "dev_service:dev_service - 3",
```

```
    "profileEdges": [
      {
        "businessObjectClass": "PacketConnectivityDAO",
        "communication": 100155339,
        "createdDate": "2023-03-06T15:55:48.180Z",
        "entityId": 100155362,
        "entityVersion": 0,
        "exclude": false,
        "id": "5250001",
        "lastModifiedDate": "2023-03-06T15:55:48.180Z",
        "name": "YYY / ZZZ / 1GigE / GE1 / 23",
        "profile": 100155358,
        "profileNode": {
          "businessObjectClass": "LogicalDeviceDAO",
          "device": 100155341,
          "entityId": 100155350,
          "entityVersion": 1,
          "exclude": false,
          "id": "5475002",
          "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
          "location": 0,
          "name": "dev_ydevice",
          "nec": 0,
          "network": 0,
          "profile": 100155347,
          "xPos": 0,
          "yPos": 0
        },
        "toProfileNode": {
          "businessObjectClass": "LogicalDeviceDAO",
          "device": 100155343,
          "entityId": 100155349,
          "entityVersion": 1,
          "exclude": false,
          "id": "5475003",
          "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
          "location": 0,
          "name": "dev_zdevice",
          "nec": 0,
          "network": 0,
          "profile": 100155347,
          "xPos": 0,
          "yPos": 0
        }
      }
    ],
    "profileVertices": [
      {
        "businessObjectClass": "LogicalDeviceDAO",
        "createdDate": "2023-03-06T15:55:48.105Z",
        "device": 100155338,
        "entityId": 100155359,
        "entityVersion": 0,
        "exclude": false,
```

```
        "id": "5475001",
        "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
        "lastModifiedDate": "2023-03-06T15:55:48.105Z",
        "name": "dev_device",
        "profile": 100155358,
        "xPos": 0,
        "yPos": 0
    },
    {
        "businessObjectClass": "LogicalDeviceDAO",
        "createdDate": "2023-03-06T15:55:48.107Z",
        "device": 100155343,
        "entityId": 100155360,
        "entityVersion": 0,
        "exclude": false,
        "id": "5475003",
        "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
        "lastModifiedDate": "2023-03-06T15:55:48.107Z",
        "name": "dev_zdevice",
        "profile": 100155358,
        "xPos": 0,
        "yPos": 0
    },
    {
        "businessObjectClass": "LogicalDeviceDAO",
        "createdDate": "2023-03-06T15:55:48.108Z",
        "device": 100155341,
        "entityId": 100155361,
        "entityVersion": 0,
        "exclude": false,
        "id": "5475002",
        "imageName":
"oracle.communications.platform.entity.impl.MediaDAO-1381575223.png",
        "lastModifiedDate": "2023-03-06T15:55:48.108Z",
        "name": "dev_ydevice",
        "profile": 100155358,
        "xPos": 0,
        "yPos": 0
    }
  ],
  "referenceId": 118500005,
  "refresh": false,
  "zoomLevel": 0,
  "status": "CANCELLED"
}
```

3

Performance and Fault Events and Definitions

The Performance and Fault events provide an event-driven architecture for creating, updating, and deleting Alarms and Performance Threshold Violations on the devices that are maintained in the Topology model. The Performance and Fault events are listed as follows and are available as messages in the **ora-fault-topology** topic.

Table 3-1   Topology Events

Event	Definition
TopologyFaultEventCreate	This event supports the creation of a Fault (Alarm) on a Device, Port or Interface that is maintained in the Topology model.
TopologyFaultEventUpdate	This event supports updates of a Fault (Alarm) maintained in the Topology model.
TopologyPerformanceEventCreate	This event supports the creation of a Performance Threshold Violation on a Device, Port or Interface that is maintained in the Topology model.
TopologyPerformanceEventUpdate	This event supports updates of a Performance Threshold Violation on a Device, Port or Interface that is maintained in the Topology model.

TopologyFaultEventCreate

The following table provides the TopologyFaultEventCreate event details and the corresponding values:

Table 3-2   TopologyFaultEventCreate

Event Details	Value
Summary	Receives messages for creating Faults (Alarms) for devices, ports, and interfaces.
Message Header (with examples)	eventType: "TopologyFaultEventCreate" sourceSystemId: "XXX" (must be unique) transactionId: "xxx-topology-nnnnn"
Topic	ora-fault-topology
Producer	Any Assurance System or Alarm Management System
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Event

Example Payload:

```
{
            "businessObjectClass" : "EventDAO",
            "eventDate" : "2023-01-19T03:32:17.235Z",
            "eventStatus" : "raised",
            "alarmType" : "deviceAlarm",
            "perceivedSeverity" : "major",
            "probableCause" : "port malfunction",
            "specificProblem" : "indeterminate",
            "sourceSystemID" : "tel.mad.mob.id_10_211_55_10",
            "alarmDetails" : "voltage=95",
            "referenceId" : 300040,
            "href" : "/alarmManagement/v4/alarm/300040",
            "relationships" : {
                "device" : 4949
            }
}
```

Valid Relationships (for finding the device):

Table 3-3   Valid Relationships

Name	Definition
device	The entityId of the device
deviceId	The ID of the device
deviceIdentifier	The deviceIdentifier of the device
ipv4	The IPV4 address of the device, can also include zoneId to find the unique device.
name	The name of the device, can also include zoneId to find the unique device.

TopologyFaultEventUpdate

The following table provides the TopologyFaultEventUpdate event details and the corresponding values:

Table 3-4   TopologyFaultEventUpdate

Event Details	Value
Summary	Receives messages for updating Faults (Alarms) for devices, ports, and interfaces.
Message Header (with examples)	eventType: "TopologyFaultEventUpdate" sourceSystemId: "XXX" (must be unique) transactionId: "xxx-topology-nnnnnn"
Topic	ora-fault-topology
Producer	Any Assurance System or Alarm Management System
Consumer	UTIA

Table 3-4   (Cont.) TopologyFaultEventUpdate

Event Details	Value
URL	Provided during the deployment.
Schemas	Event

Example Payload:

```
{
        "entityId" : "1369",
        "eventStatus" : "updated"
}
```

> ✎ **Note:**
>
> The entityId is the entityId of the Event.

TopologyPerformanceEventCreate

The following table provides the TopologyPerformanceEventCreate event details and the corresponding values:

Table 3-5   TopologyPerformanceEventCreate

Event Details	Value
Summary	Receives messages for creating Performance Threshold violations for devices, ports, and interfaces.
Message Header (with examples)	eventType: "TopologyPerformanceEventCreate" sourceSystemId: "XXX" (must be unique) transactionId: "xxx-topology-nnnnnn"
Topic	ora-fault-topology
Producer	Any Assurance System or Alarm Management System
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Event

Example Payload:

```
{
        "businessObjectClass" : "EventDAO",
        "eventStatus" : "RAISED",
        "thresholdName" : "Latency High",
        "perceivedSeverity" : "MAJOR",
        "thresholdTypeName" : "Standard Threshold",
        "thresholdMessage" : "Performance threshold violation: Latency
High",
```

```
            "sourceSystemID" : "tel.mad.mob.id_10_211_55_10",
            "measurement" : "metrictype_Interface_Latency_High",
            "thresholdSeverity" : 3,
            "thresholdTimeRange" : 900,
            "metricValue" : 85.240994544,
            "thresholdOperator" : ">=",
            "thresholdValue" : 50,
            "referenceId" : 300051,
            "href" : "/alarmManagement/v4/alarm/300051",
            "relationships" : {
                "device" : 5179
            }
    }
```

Valid Relationships (for finding the device):

Table 3-6   Valid Relationships

Name	Definition
device	The entityId of the device
deviceId	The ID of the device
deviceIdentifier	The deviceIdentifier of the device
ipv4	The IPV4 address of the device, can also include zoneId to find the unique device.
name	The name of the device, can also include zoneId to find the unique device.

TopologyPerformanceEventUpdate

The following table provides the TopologyPerformanceEventUpdate event details and the corresponding values:

Table 3-7   TopologyPerformanceEventUpdate

Event Details	Value
Summary	Receives messages for updating Performance Threshold violations for devices, ports, and interfaces.
Message Header (with examples)	eventType: "TopologyPerformanceEventUpdate" sourceSystemId: "XXX" (must be unique) transactionId: "xxx-topology-nnnnnn"
Acknowledgement Strategy	Manual
Accepts	KafkaMessage<String, String>
Returns	java.util.concurrent.CompletionStage
Topic	ora-fault-topology
Producer	Any Assurance System or Alarm Management System
Consumer	UTIA
URL	Provided during the deployment.
Schemas	Event

Example Payload:

```
{
        "entityId" : "1373",
        "eventStatus" : "updated"
}
```

> **Note:**
>
> The entityId is the entityId of the Event.

4

Schemas, Valid Values, and Authorization

Schemas

For more information on the Vertex, Edge, Event, Profile, ProfileEdge, and ProfileVertex schemas, see *UTIA REST API Guide*.

Valid Values

For more information on data valid values, see *UTIA Model Documentation*.

Authorization

For more information on Client Access, see the **Client Access** section in *Unified Inventory and Topology Deployment Guide*.