



## CHAPTER 13

# EventApp Service

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This chapter describes the DCNM web services' API methods for the EventApp service.

## Information About EventApp Service

The EventApp service provides you with various methods to obtain persistent events in the database.

### createUserAction

Persist the userActions done for a list of events

#### Parameters

opContext—Operational context

annotatedEvents—List of userActions performed on a list of events

#### Return Value

void

### deleteEventsBeforeATimeStamp

Deletes the events having timestamp earlier than the specified Timestamp object.

#### Parameters

opContext—Operational context

timestamp—specifies the Timestamp

#### Return Value

void

### deleteEventsBetweenTimestamps

Deletes the events having timestamp between two timeInstances (startTime and endTime)

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**Parameters**

`opContext`—Operational context

`startTime`—Start Timestamp

`endTime`—End Timestamp

**Return Value**

void

## getEventCountAfterATimestamp

Returns the number of events having timestamp later than the specified Timestamp object.

If no Events present in the Database later than specified timestamp will return 0.

**Parameters**

`opContext`—Operational context

`timestamp`—specifies the Timestamp

**Return Value**

The number of events having timestamp later than the specified timestamp

## getEventsAfterATimestamp

Returns a list of Events having timestamp later than the specified Timestamp object.

If no Events present in the Database later than specified timestamp will return an empty List.

**Parameters**

`opContext`—Operational context

`timestamp`—specifies the Timestamp

`eventCount`—specifies the no.of events to be retrieved from the Database

**Return Value**

List of the Events having timestamp later than the specified timestamp

## getEventsBeforeATimestamp

Returns a list of Events having timestamp earlier than the specified Timestamp object.

If no Events present in the Database earlier to the specified timestamp, will return an empty List.

**Parameters**

`opContext`—Operational context

`timestamp`—specifies the Timestamp

`eventCount`—specifies the no.of events to be retrieved from the Database

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**Return Value**

List of the Events having timestamp earlier than the specified timestamp

## getEventsBetweenTimestamps

Returns a list of Events having timestamp between two timeInstances (startTime and endTime)

**Parameters**

opContext—Operational context

startTime—Start Timestamp

endTime—End Timestamp

**Return Value**

List of the Events having timestamp between two timeInstances (startTime and endTime)

If the specified startTime is null, then will return events having timestamp earlier than the endTime.

If the specified endTime is null, then will return events having timestamp later than the startTime

If the specified startTime and endTime are null, then will return all the persisted events.

## getEventsBetweenTimestampsByEventClass

Returns the List of Events having timeStamp between two timeInstances (startTime and endTime) with the specified filterType.

**Parameters**

opContext—Operational context

startTime—Start Timestamp

endTime—End Timestamp

filterType—specifies the type of Events to be retrieved from the Database.

Can specify the following filterTypes (Constants)

- DcmNormalizedEvent
- DcmThresholdEvent
- DcmInformationalEvent
- UnsupportedEvent
- All type of Events

**Return Value**

List of the Events having timestamp between two timeInstances (startTime and endTime) and corresponding filterType

If the specified startTime is null, then will return events having timestamp earlier than the endTime.

If the specified endTime is null, then will return events having timestamp later than the startTime

If the specified startTime and endTime are null, then will return all the events persisted in the Database.

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## getEventsForEventType

Returns the List of Events having specified EventType

### Parameters

opContext—Operational context

eventType—specifies the EventType

### Return Value

List returns a List of Events corresponding specified eventType and filterType

## getEventsForEventTypeByEventClass

Returns the List of Events having specified EventType and filterType.

### Parameters

opContext—Operational context

eventType—specifies the EventType

filterType—specifies the type of Events to be retrieved from the Database.

Can specify the following filterTypes (Constants)

- DcmNormalizedEvent
- DcmThresholdEvent
- DcmInformationalEvent
- UnsupportedEvent
- All type of Events

### Return Value

List returns a List of Events corresponding specified eventType and filterType

## getEventsForFeature

Returns the List of Events having specified FeatureType.

### Parameters

opContext—Operational context

featureType—specifies the FeatureType

### Return Value

List of persisted Events having specified featureType

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## getEventsForFeatureByEventClass

Returns the List of Events having specified FeatureType and filterType.

### Parameters

opContext—Operational context

featureType—specifies the FeatureType

filterType—specifies the type of Events to be retrieved from the Database.

Can specify the following filterTypes (Constants)

- DcmNormalizedEvent
- DcmThresholdEvent
- DcmInformationalEvent
- UnsupportedEvent
- All type of Events

### Return Value

List of persisted Events having specified featureType and filterType

## getEventsForPerceivedSeverity

Returns the List of Events having specified PerceivedSeverity.

### Parameters

opContext—Operational context

perceivedSeverity—specifies the PerceivedSeverity

### Return Value

List of persisted Events having specified perceivedSeverity

## getEventsForPerceivedSeverityByEventClass

Returns the List of Events having specified PerceivedSeverity and filterType.

### Parameters

opContext—Operational context

perceivedSeverity—specifies the PerceivedSeverity

filterType—specifies the type of Events to be retrieved from the Database.

Can specify the following filterTypes (Constants)

- DcmNormalizedEvent
- DcmThresholdEvent
- DcmInformationalEvent

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- UnsupportedEvent
- All type of Events

**Return Value**

List of persisted Events having specified PerceivedSeverity and filterType

## getLastEvent

Returns the Last persisted event in the Database

**Parameters**

opContext—Operational context

**Return Value**

Last persisted event in the Database

## getUserActions

Returns a List of AnnotatedEvents having specified eventId.

**Parameters**

opContext—Operational context

eventId—persistedEventId

**Return Value**

Returns a List of AnnotatedEvents having eventId

## modifyEventStatus

Update the EventStatus in the Database for a List of events

**Parameters**

opContext—Operational context

eventIds—contains list of eventIds

eventStatusList—contains a list of modified EventStatus

**Return Value**

void