

Contents

Chapter 1

ATLAS Event Monitoring Service Class Index

1.1 ATLAS Event Monitoring Service Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

[emon::BadAddress](#)

2.3 `emon::CannotInitialize` Class Reference

`BadAddress` Exception thrown by `SamplingAddress` class.

Public Member Functions

- `CannotInitialize` ()
public empty constructor
- `CannotInitialize` (String *value*)

2.3.1 Detailed Description

`BadAddress` Exception thrown by `SamplingAddress` class.

2.3.2 Constructor & Destructor Documentation

2.3.2.1 `emon::CannotInitialize::CannotInitialize` (String *value*) [in `inl2.3e`]

2.4 `emon::ConductorInfoNamed` Class Reference

2.4.1 Detailed Description

2.5 `emon::EventIterator` Class Reference

An iterator object, that can be used to retrieve events.

Public Member Functions

- `EventIterator (EventMonitor_impl mon)`
Constructor.
- `int[] nextEvent ()` throws `SamplerStopped`, `NoMoreEvents`
Retrieve next event (synchronously).
- `int[] nextEvent (long timeout)` throws `SamplerStopped`, `NoMoreEvents`
Retrieve next event (synchronously).
- `int[] tryNextEvent ()` throws `SamplerStopped`, `NoMoreEvents`
Retrieve next event (asynchronously).
- `int getAvailableEvents ()`
Return the number of events currently in the buffer, ready to be requested.
- `void`

2.5.2 Constructor & Destructor Documentation

2.5.2.1 `emon::EventIterator::EventIterator (EventMonitor_impl mon)` [inline]

Constructor.

Parameters:

mon the monitor with which we receive events

2.5.3 Member Function Documentation

2.5.3.1 `int emon::EventIterator::getAvailableEvents ()` [inline]

Return the number of events currently in the buffer, ready to be requested.

Returns the number of events currently buffered in the event buffer. Any events possibly buffered for sending to our children are not included in this number.

Returns:

the number of events currently available

2.5.3.2 `SampleStopped; EventIterator::nextEvent (long timeout)` throws

the buffer, blocks until event is available

`nextEvent ()` throws

See also:[NoMoreEvents](#) [SampledStopped](#)

The documentation for this class was generated from the following file:

- [EventIterator.java](#)

2.6 `emon::EventManager` Class Reference

`EventManager` class to be used by the user.

Static Public Member Functions

- `EventManager select` (Partition partition, `emon.SamplingAddress` address, `emon.SelectionCriteria` criteria, int buffer_limit, boolean dispersion) throws `CannotInitialize`, `BadAddress`, `BadCriteria`
Send a connection request to the event distributor.
- `EventManager select` (Partition partition, `emon.SamplingAddress` address, `emon.SelectionCriteria` criteria, int buffer_limit) throws `CannotInitialize`, `BadAddress`, `BadCriteria`
- `EventManager select` (Partition partition, `emon.SamplingAddress` address, `emon.SelectionCriteria` criteria) throws `CannotInitialize`, `BadAddress`, `BadCriteria`
Send a connection request to the event distributor.

2.6.1 Detailed Description

`EventManager` class to be used by the user.

The documentation for this class was generated from the following file:

- `EventManager.java`

- Vector < EventMonitoring.[EventMonitor](#) > [Children](#)
a list of child monitors
- [MonitorInfoNamed](#) [isinfo](#)
a reference to the IS information object
- Timer [publishing_](#)

2.8 `emon::EventMonitor_impl::Publisher` Class Reference

a class responsible for updating IS information in regular intervals

Public Member Functions

- `Publisher (EventMonitor_impl self)`
constructor
- `void run ()`
the action to be performed when the timer takes action

Package Attributes

- `EventMonitor_impl monitor = null`
a reference to the `EventMonitor_impl` instance that has created this

2.8.1 Detailed Description

a class responsible for updating IS information in regular intervals

The documentation for this class was generated from the following file:

- `EventMonitor_impl.java`

2.9 `emon::MaskedValue` Class Reference

2.10 `emon::MonitorInfoNamed` Class Reference

Contains information about an instance of an active event monitor.

Public Member Functions

- `MonitorInfoNamed`

2.11 **emon::NoMoreEvents** Class ReferenceException being thrown by the NextE

- [NoMoreEvents](#) ()
empty constructor

2.11.1 Detailed Description

Exception being thrown by the NextEvent method.The documentation for this class was generated from the following file:

- NoMoreEvents.java
-

2.12 `emon::NoResources` Class Reference

`NoResources` Exception thrown by `SamplingAddress` class.

Public Member Functions

- `NoResources` ()

2.13 `emon::SamplerInfoNamed` Class Reference

Contains information about an instance of an active event sampler.

Public Member Functions

- **`SamplerInfoNamed`** (`ipc.Partition` partition, `String` name)
- **`SamplerInfoNamed`** (`ipc.Partition` partition, `String` name, `String` type)
- void **`publishGuts`** (`is.Ostream` out)
- void **`refreshGuts`** (`is.Istream` in)

Public Attributes

- int `eventsSampled`
total number of sampled events
- int `rootMonitorSwaps`

2.14 `emon::SamplerStopped` Class Reference

Exception being thrown by the `NextEvent` method.

Public Member Functions

- [SamplerStopped](#) ()
constructor

2.14.1 Detailed Description

Exception being thrown by the `NextEvent` method.

The documentation for this class was generated from the following file:

- `SamplerStopped.j-v`

2.15 `emon::amplingAddress` Class Reference

Public Member Functions

- `amplingAddress` ()
public empty constructor
- void `addComponent`

Version:

23/03/2005

2.16.2 Constructor & Destructor Documentation

2.16.2.1 `emon::SelectionCriteria::SelectionCriteria (int _detector_type, int _lvl1_trigger_type, int _lvl2_trigger_info, int _status_word, int _statistics) [inline]`

constructor for (possibly) masked values

Parameters:

_detector_type masked value for the `ector_ty` type

_lvl1_trigger_type masked value for the level 1 trigger type

_lvl2_trigger_info

