APS Persistent Named Queue Service Provider

User Guide

Version: 1.0.0

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This provides an implementation of **APSNamedQueueService** that makes use of **APSFilesystemService** for storage . Clients just create or get a queue by a unique name. It is then possible to push bytes to the queue or to pull bytes from the queue. It is rather simple.

1.1 APIS

public *interface* **APSNamedQueueService** [se.natusoft.osgi.aps.api.misc.queue] {

A named queue as a service. How long lived it is depends on the implementation.

Note that there can be only one receiver per queue. Once an item is delivered it is gone from the queue!

APSQueue createQueue(String name) throws APSIOException

Creates a new queue.

Parameters

name *- The name of the queue to create. If the named queue already exists, it is just returned,*

Throws

APSIOException *- on failure to create queue.*

void removeQueue(String name) throws APSResourceNotFoundException

Removes the named queue.

Parameters

name *- The name of the queue to remove.*

Throws

APSResourceNotFoundException *- on failure to remove the queue.*

APSQueue getQueue(String name) throws APSResourceNotFoundException

Returns the named queue. If it does not exist, it is created.

Parameters

name *- The name of the queue to get.*

Throws

APSResourceNotFoundException *- on failure to get queue.*

}

void push(byte[] item) throws APSIOException

Pushes a new item to the end of the list.

Parameters

item *- The item to add to the list.*

Throws

APSIOException *- on any failure to do this operation.*

byte[] pull(long timeout) throws APSIOTimeoutException

Pulls the first item in the queue, removing it from the queue.

Returns

The pulled item.

Parameters

timeout *- A value of 0 will cause an immediate APSIOException if the queue is empty. Any*

Throws

APSIOException *- on any failure to do this operation.*

byte[] peek() throws APSIOException, UnsupportedOperationException

Looks at, but does not remove the first item in the queue.

Returns

The first item in the queue.

Throws

APSIOException *- on any failure to do this operation.*

UnsupportedOperationException *- If this operation is not supported by the implementation.*

int size() throws APSIOException, UnsupportedOperationException

Returns the number of items in the queue.

Throws

APSIOException *- on any failure to do this operation.*

UnsupportedOperationException *- If this operation is not supported by the implementation.*

boolean isEmpty() throws APSIOException

Returns true if this queue is empty.

Throws

APSIOException - on any failure to do this operation.

void release()

Releases this APSQueue instance to free up resources. After this call this specific instance will be invalid and a new one have to be gotten from APSNamedQueueService.

}
