

LocalEventFilter

<event-filter>

Used in subscriptions for receiving events. Allows matching on any and all header properties (see <local-event>).

In essence, the filter is a list of header comparators (see below), to be treated as a disjunction (OR).

Attributes

NAME	TYPE	DEFAULT VALUE	DESCRIPTION
topic	java.lang.String	UNSPECIFIED	topic to which to subscribe for events; if UNSPECIFIED, all events received on other subscriptions will qualify

Elements

TAG	TYPE	COUNT	DESCRIPTION
<header-comparator>	ncsa.tools.events.types.filters.LocalEventHeaderComparator	0:N	filter subpart enabling matching on header properties (see below)
<connections>	java.util.List	0:1	specify only these connections (= URI strings; default behavior is all connections)

Examples

See [NextEvent](#), [Receive](#).

<event-header-comparator>

Filter for matching event headers. Treated as a conjunction (AND) of constraints.

The topic and key will always be compared for equality; timestamps and header properties can be given a string comparator (see below) with the default being EQ. NULL and NOT_NULL can be used as the value of property comparisons. Property comparators are stored in lexicographically sorted order.

Attributes

NAME	TYPE	DEFAULT VALUE	DESCRIPTION
key	java.lang.String	null	a unique identifier for the subject of the event; usually a string representation of a ParsedLocalEventKey
timestamp	java.lang.Long	null	timestamp to use in comparison
timestampComparator	java.lang.String	null	string comparator (see below) to use with timestamp comparison, if any

Elements

TAG	TYPE	COUNT	DESCRIPTION
<property-comparator>	ncsa.tools.events.types.filters.LocalEventHeaderComparator. PropertyComparator	0:N	describes a single match constraint (see below)

<property-comparator>

The named header property of the event is accessed for its value, which is compared to the given value using the comparator indicated. Types are limited to strings and primitives.

NAME	TYPE	DEFAULT VALUE	DESCRIPTION
name	java.lang.String	null	name of header property
value	java.lang.String	null	string representation of the value to compare header property value to
type	java.lang.String	null	type of the value
comparator	java.lang.String	EQ	string comparator to use (see below)

String comparators: EQ, EQUALS, =, ==, NE, NEQUALS, !=, <>, GT, >, GE, >=, LE, <, LT, <=.