

# IceStorm Metrics

You can monitor IceStorm using the [Administrative Facility](#) and the [Metrics Facet](#). IceStorm provides two metrics class to monitor topic and subscriber related metrics. These classes are defined in `IceStorm/Metrics.ice` and are shown below.

## Slice

```
namespace IceMX {
class TopicMetrics extends Metrics {
    long published = 0;
    long forwarded = 0;
};
class SubscriberMetrics extends Metrics {
    int queued = 0;
    int outstanding = 0;
    long delivered = 0;
};
};
```

IceStorm records metrics in the metrics map described below.

Metrics map name	Slice class	Description	Property prefix
Topic	<code>IceMX::TopicMetrics</code>	Topic metrics	<code>IceMX.Metrics.view-name.Map.Topic</code>
Subscriber	<code>IceMX::SubscriberMetrics</code>	Subscriber metrics	<code>IceMX.Metrics.view-name.Map.Subscriber</code>

To configure a metrics view to record IceStorm topic and subscriber you can use for example:

- `IceMX.Metrics.IceStormView.Map.Topic.GroupBy=id`
- `IceMX.Metrics.IceStormView.Map.Subscriber.GroupBy=id`

This will configure a view containing only the `Topic` and `Subscriber` maps. All the topics and subscribers from the IceStorm service will be monitored individually with separate metrics object.

You can use the following attributes when configuring the IceStorm `Topic` map:

Name	Description
<code>id</code>	The id is the topic name.
<code>parent</code>	The IceStorm service name.
<code>none</code>	The empty string.
<code>topic</code>	The topic name.
<code>service</code>	The IceStorm service name.

The `Subscriber` map can be configured with the following attributes:

Name	Description
<code>id</code>	The id of the subscriber metrics is the stringified proxy of the subscriber.
<code>parent</code>	The name of the topic name to which this subscriber belongs.
<code>none</code>	The empty string.
<code>topic</code>	The name of the topic name to which this subscriber belongs.
<code>service</code>	The IceStorm service name.
<code>identity</code>	The identity of the subscriber proxy.
<code>facet</code>	The facet of the subscriber proxy.
<code>encoding</code>	The encoding of the subscriber proxy.

mode	The mode of the subscriber proxy.
proxy	The subscriber proxy.
link	The proxy of the topic linked to the the topic which owns this subscriber.
state	The state of the subscriber. It can either be "online", "offline" or "error".

#### See Also

- [Administrative Facility](#)
- [The Metrics Facet](#)
- [IceMX Metrics Properties](#)