

# 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
id	The id is the topic name.
parent	The IceStorm service name.
none	The empty string.
topic	The topic name.
service	The IceStorm service name.

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

Name	Description
id	The id of the subscriber metrics is the stringified proxy of the subscriber.
parent	The name of the topic name to which this subscriber belongs.
none	The empty string.
topic	The name of the topic name to which this subscriber belongs.
service	The IceStorm service name.
identity	The identity of the subscriber proxy.
facet	The facet of the subscriber proxy.
encoding	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](#)