

# Glacier2 Metrics

You can monitor Glacier2 using the [Administrative Facility](#) and the [Metrics Facet](#). Glacier2 provides a metrics class to monitor session related metrics. The Glacier2 session metrics class is defined in `Glacier2/Metrics.ice` and is shown below.

## Slice

```
namespace IceMX {
class SessionMetrics extends Metrics {
    int forwardedClient = 0;
    int forwardedServer = 0;
    int routingTableSize = 0;
    int queuedClient = 0;
    int queuedServer = 0;
    int overriddenClient = 0;
    int overriddenServer = 0;
};
};
```

Glacier2 records session metrics in the `Session` metrics map, the metrics objects contained in this map are instances of the `IceMX::SessionMetrics` class show above. To configure a metrics view to record Glacier2 session metrics you can use [metrics properties](#) with the `IceMX.Metrics.view-name.Map.Session` prefix, for example:

- `IceMX.Metrics.SessionView.Map.Session.GroupBy=id` to configure a view containing one metrics object per session.
- `IceMX.Metrics.SessionView.Map.Session.GroupBy=none` to configure a view containing a single metrics object with metrics for all the sessions.

You can use the following attributes when configuring the Glacier2 Session metrics map:

Name	Description
id	A unique identifier to identify the session. This corresponds to the user Id for sessions created with a username/password and to the subject DN for sessions created from SSL.
parent	The Glacier2 router instance name.
none	The empty string.
endpoint	The stringified endpoint.
endpointType	The endpoint numerical type as defined in <code>Ice/Endpoint.ice</code> .
endpointIsDatagram	A boolean indicating if the endpoint is a datagram endpoint.
endpointIsSecure	A boolean indicating if the endpoint is secure.
endpointTimeout	The endpoint timeout.
endpointCompress	A boolean indicating if the endpoint requires compression.
endpointHost	The endpoint host.
endpointPort	The endpoint port.
connection	The connection description.
incoming	A boolean indicating if the connection is a server or client connection.
adapterName	If the connection is a server connection, <code>adapterName</code> will return the name of the adapter which created the connection, it will contain the empty string otherwise.
connectionId	The ID of the connection if one is set, the empty string otherwise.
localAddress	The connection's local address.
localPort	The connection's local port.
remoteAddress	The connection's remote address.

remotePort	The connection's remote port.
mcastAddress	The connection's multicast address.
mcastPort	The connection's multicast port.
state	The state of the connection.

The connection and endpoint attributes are for the connection tied to the Glacier2 session.

## See Also

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