

# The Per-Process Logger

Ice allows you to install a per-process [custom logger](#). This logger is used by all communicators that do not have their own specific logger established at the time a [communicator is created](#).

You can set a per-process logger in C++ by calling `Ice::setProcessLogger`, and you can retrieve the per-process logger by calling `Ice::getProcessLogger`:

## C++

```
LoggerPtr getProcessLogger();  
void setProcessLogger(const LoggerPtr&);
```

If you call `getProcessLogger` without having called `setProcessLogger` first, the Ice run time installs a default per-process logger. Note that if you call `setProcessLogger`, only communicators created after that point will use this per-process logger; communicators created earlier use the logger that was in effect at the time they were created. (This also means that you can call `setProcessLogger` multiple times; communicators created after that point will use whatever logger was established by the last call to `setProcessLogger`.)

`getProcessLogger` and `setProcessLogger` are language-specific APIs that are not defined in Slice. Therefore, for Java and C#, these methods appear in the `Ice.Util` class.

For applications that use the `Application` or `Service` convenience classes and do not explicitly configure a logger, these classes set a default per-process logger that uses the `Ice.ProgramName` property as a prefix for log messages. The `Application` class is described in the server-side language mapping chapters; more information on the `Service` class can be found in [The Ice::Service Class](#).

## See Also

- [Custom Loggers](#)
- [Communicator Initialization](#)
- [The Server-Side main Function in C++](#)