

Per-Proxy Request Contexts

Instead of passing a context [explicitly](#) with an invocation, you can also use a *per-proxy context*. Per-proxy contexts allow you to set a context on a particular proxy once and, thereafter, whenever you use that proxy to invoke an operation, the previously-set context is sent with each invocation. The [proxy methods](#) `ice_context` and `ice_getContext` set and retrieve the context, respectively. The Slice definitions of these methods would look as follows:

Slice

```
Object* ice_context(Context ctx);
Context ice_getContext();
```

`ice_context` creates a new proxy that stores the given context. Calling `ice_getContext` returns the stored context, or an empty dictionary if no per-proxy context has been configured for the proxy.

Here is an example in C++:

C++

```
Ice::Context ctx;
ctx["write policy"] = "immediate";

PersonPrx p1 = ...;
PersonPrx p2 = p1->ice_context(ctx);

Address a = ...;

p1->setAddress(a);           // Sends no context

p2->setAddress(a);           // Sends ctx implicitly

Ice::Context ctx2;
ctx2["write policy"] = "delayed";

p2->setAddress(a, ctx2); // Sends ctx2 instead
```

As the example illustrates, once we have created the `p2` proxy, any invocation via `p2` automatically sends the configured context. The final line of the example shows that it is also possible to explicitly send a context for an invocation even if the proxy is configured with a context — an explicit context always overrides any per-proxy context.

Note that, once you have set a per-proxy context, that context becomes immutable: if you subsequently change the context you have passed to `ice_context`, such a change does not affect the per-proxy context of any proxies you previously created with that context because each proxy on which you set a per-proxy context stores its own copy of the dictionary.

See Also

- [Explicit Request Contexts](#)
- [Proxy Methods](#)