Objective-C Mapping for Local Interfaces

The lce run time defines APIs using Slice. These APIs are provided as part of the lce run time library and cannot be invoked remotely. (Doing so would not make any sense.) Therefore, the Slice interfaces for the lce run time are defined as local interfaces. The Objective-C mapping for local interfaces differs from the default mapping in two ways:

• Local interfaces do not adopt an <interface-name>Prx protocol. (Doing so would be misleading because proxies imply that the target object can be remote.) Instead, the protocol for local interfaces has the same name as the interface. For example, the Ice::Communicator interfaces is defined as:

["objc:prefix:ICE"]	
module Ice {	
local interface Communicator	{
//	
}	
};	

Because Communicator is a local interface, objects of type ICECommunicator are passed as id<ICECommunicator> (not ICECommunicator> or id<ICECommunicatorPrx>).

• Types that come in mutable and immutable variants (strings, sequences, and dictionaries) are always passed as the immutable variant. For example, the getName operation on the ObjectAdapter interface is defined as:

Slice

Slice

```
["objc:prefix:ICE"]
module Ice {
    local interface ObjectAdapter {
        string getName();
    };
};
```

Because ObjectAdapter is a local interface, the getName operation maps to:

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-(NSString *) getName;

Note that the returned string is of type NSString instead of NSMutableString (as would be the case for an operation on a non-local interface).

For local interfaces, parameters are passed as the immutable version because their values are not meant to be modified by application code. In addition, passing the immutable version avoids an unnecessary data copy.

See Also

- Modules
- Local Types
- Objective-C Mapping for Operations