

Ice Plug-In Properties

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Ice.InitPlugins

Synopsis

```
Ice.InitPlugins=num
```

Description

If *num* is a value greater than zero, the Ice run time automatically initializes the plug-ins it has loaded. The order in which plug-ins are loaded and initialized is determined by [Ice.PluginLoadOrder](#). An application may need to set this property to zero in order to [interact directly with a plug-in](#) after it has been loaded but before it is initialized. In this case, the application must invoke `initializePlugins` on the plug-in manager to complete the initialization process. If not defined, the default value is 1.

Ice.Plugin.name.cpp

Synopsis

```
Ice.Plugin.name.cpp=basename[,version]:function [args]
```

Description

Defines a C++ [plug-in](#) to be installed during communicator initialization. The *basename* and optional *version* components are used to construct the name of a DLL or shared library. If no version is supplied, the Ice version is used. The *function* component is the name of a function with C linkage. For example, the entry point `MyPlugin,34:create` would imply a shared library name of `libMyPlugin.so.34` on Unix and `MyPlugin34.dll` on Windows. Furthermore, if Ice is built on Windows with debugging, a `d` is automatically appended to the version (for example, `MyPlugin34d.dll`).

The function must be declared with external linkage and have the following signature:

C++

```
<Plugin>* function(const Ice::CommunicatorPtr& communicator,
                  const std::string& name,
                  const Ice::StringSeq& args);
```

Note that the function must return a pointer and not a smart pointer. The Ice run time deallocates the object when it unloads the library.

Any arguments that follow the entry point are passed to the `create` method. For example:

```
Ice.Plugin.MyPlugin=MyFactory,34:create arg1 arg2
```

Ice.Plugin.name.java

Synopsis

```
Ice.Plugin.name.java=class [args]
```

Description

Defines a Java [plug-in](#) to be installed during communicator initialization. The specified class must implement the `Ice.PluginFactory` interface. Any arguments that follow the class name are passed to the `create` method. For example:

```
Ice.Plugin.MyPlugin=MyFactory arg1 arg2
```

Ice.Plugin.name.clr

Synopsis

```
Ice.Plugin.name.clr=assembly:class [args]
```

Description

Defines a .NET [plug-in](#) to be installed during communicator initialization. The assembly can be a partially or fully qualified assembly name, such as `myplugin,Version=0.0.0.0,Culture=neutral`, or an assembly DLL name such as `myplugin.dll`.



You *must* use a fully qualified assembly name to load a plug-in from an assembly in the Global Assembly Cache.

The specified class must implement the `Ice.PluginFactory` interface. Any arguments that follow the class name are passed to the `create` method. For example:

```
Ice.Plugin.MyPlugin=MyFactory,Version=1.2.3.4,Culture=neutral:MyFactory arg1 arg2
```

Ice.Plugin.name

Synopsis

```
Ice.Plugin.name=entry_point [args]
```

Description

Defines a [plug-in](#) to be installed during communicator initialization. The format of *entry_point* varies by Ice implementation language, therefore this property cannot be defined in a configuration file that is shared by programs in different languages. Ice provides an alternate syntax that facilitates such sharing:

- `Ice.Plugin.name.cpp` for C++
- `Ice.Plugin.name.java` for Java
- `Ice.Plugin.name.clr` for the .NET Common Language Runtime

Refer to the relevant property for your language mapping for details on the entry point syntax.

Ice.PluginLoadOrder

Synopsis

```
Ice.PluginLoadOrder=names
```

Description

Determines the order in which [plug-ins](#) are loaded. The Ice run time loads the plug-ins in the order they appear in *names*, where each plug-in name is separated by a comma or white space. Any plug-ins not mentioned in *names* are loaded afterward, in an undefined order.