
Posted by [shalamyansky](#) on Mon, 15 May 2023 14:19:00 GMT

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UdrCppEngine.h

```
FB_BOOLEAN* FB_UDR_PLUGIN_ENTRY_POINT(::Firebird::IStatus* status, FB_BOOLEAN*
theirUnloadFlag, ::Firebird::IUdrPlugin* udrPlugin);
```

UdrCppEngine.h

```
extern "C" FB_DLL_EXPORT FB_BOOLEAN*
FB_UDR_PLUGIN_ENTRY_POINT(::Firebird::IStatus* status, \
FB_BOOLEAN* theirUnloadFlag, ::Firebird::IUdrPlugin* udrPlugin) \
{\
::Firebird::Udr::FactoryRegistration::finish(status, udrPlugin); \
\
class UnloadDetector \
{\
public: \
UnloadDetector(FB_BOOLEAN* aTheirUnloadFlag, ::Firebird::IUdrPlugin* aUdrPlugin) \
: myUnloadFlag(FB_FALSE), \
theirUnloadFlag(aTheirUnloadFlag), \
udrPlugin(aUdrPlugin) \
{\
}\
\
~UnloadDetector() \
{\
```

```

    if (!myUnloadFlag) \
        *theirUnloadFlag = FB_TRUE; \
    } \
    \
    FB_BOOLEAN myUnloadFlag; \
    FB_BOOLEAN* theirUnloadFlag; \
    ::Firebird::IUdrPlugin* udrPlugin; \
}; \
\
static UnloadDetector unloadDetector(theirUnloadFlag, udrPlugin); \
\
return &unloadDetector.myUnloadFlag; \
}

```

UdrEngine.cpp

```

UdrPluginImpl* Engine::loadModule(ThrowStatusWrapper* status, IRoutineMetadata* metadata,
PathName* moduleName, string* entryPoint)
{
...
    UdrPluginImpl* udrPlugin = FB_NEW UdrPluginImpl(*moduleName, module);
    udrPlugin->theirUnloadFlag = entryPoint(status, &udrPlugin->myUnloadFlag, udrPlugin);
...
...
}

class UdrPluginImpl : public Versionedface<IUdrPluginImpl<UdrPluginImpl,
ThrowStatusWrapper> >

```

```

{
public:
UdrPluginImpl(const PathName& aModuleName, ModuleLoader::Module* aModule)
: moduleName(*getDefaultMemoryPool(), aModuleName),
  module(aModule),
  myUnloadFlag(FB_FALSE),
  theirUnloadFlag(NULL),
  functionsMap(*getDefaultMemoryPool()),
  proceduresMap(*getDefaultMemoryPool()),
  triggersMap(*getDefaultMemoryPool())
{
}

~UdrPluginImpl()
{
if (myUnloadFlag)
return;

*theirUnloadFlag = FB_TRUE;

{
GenericMap<Pair<Left<string, IUdrFunctionFactory*> > >::Accessor accessor(&functionsMap);
for (bool cont = accessor.getFirst(); cont; cont = accessor.getNext())
accessor.current()->second->dispose();
}

{
GenericMap<Pair<Left<string, IUdrProcedureFactory*> > >::Accessor
accessor(&proceduresMap);
for (bool cont = accessor.getFirst(); cont; cont = accessor.getNext())
accessor.current()->second->dispose();
}

{
GenericMap<Pair<Left<string, IUdrTriggerFactory*> > >::Accessor accessor(&triggersMap);
for (bool cont = accessor.getFirst(); cont; cont = accessor.getNext())
accessor.current()->second->dispose();
}
}

FB_BOOLEAN myUnloadFlag;
FB_BOOLEAN* theirUnloadFlag;
};

```

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Posted by [sim_84](#) on Mon, 15 May 2023 15:44:37 GMT
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release.

Posted by [sim_84](#) on Mon, 15 May 2023 15:52:51 GMT
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Posted by [shalamyansky](#) on Mon, 15 May 2023 15:54:39 GMT
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Posted by [sim_84](#) on Mon, 15 May 2023 15:59:20 GMT
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Posted by [shalamyansky](#) on Mon, 15 May 2023 16:03:16 GMT
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Posted by [hvlad](#) on Mon, 15 May 2023 20:16:48 GMT
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Posted by [SD](#) on Mon, 15 May 2023 21:34:36 GMT
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Posted by [hvlad](#) on Tue, 16 May 2023 09:12:06 GMT
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?

Posted by [shalamyansky](#) on Tue, 16 May 2023 11:14:43 GMT
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Posted by [SD](#) on Tue, 16 May 2023 11:28:33 GMT

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Posted by [hvlad](#) on Tue, 16 May 2023 11:45:28 GMT

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Posted by [shalamyansky](#) on Tue, 16 May 2023 16:17:34 GMT
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P.S.

Posted by [SD](#) on Tue, 16 May 2023 21:42:36 GMT
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Posted by [hvlad](#) on Wed, 17 May 2023 06:20:12 GMT
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Posted by [SD](#) on Wed, 17 May 2023 11:31:18 GMT
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Posted by [hvlad](#) on Wed, 17 May 2023 11:48:50 GMT
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Posted by [SD](#) on Wed, 17 May 2023 12:34:07 GMT

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Posted by [hvlad](#) on Wed, 17 May 2023 13:27:25 GMT
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Posted by [SD](#) on Wed, 17 May 2023 14:20:01 GMT
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Posted by [hvlad](#) on Wed, 17 May 2023 16:22:18 GMT

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1. IProvider::shutdown()

> engine13.dll!Jrd::JProvider::shutdown(status=0x00000000014ef28, timeout=0, reason=-3) Line 4600 C++

engine13.dll!Firebird::IProviderBaseImpl<...>::cloopshutdownDispatcher(self=0x0000000005236d8, status=0x00000000014f570, timeout=0, reason=-3) Line 12140 C++

fbclient.dll!Firebird::IProvider::shutdown<Firebird::CheckStatusWrapper>(status=0x00000000014f568, timeout=0, reason=-3) Line 2939 C++

fbclient.dll!Why::Dispatcher::shutdown(userStatus=0x00000000014fa88, timeout=0, reason=-3) Line 6678 C++

fbclient.dll!fb_shutdown(timeout=0, reason=-3) Line 3791 C++

isql.exe!atexit_fb_shutdown() Line 1806 C++

2. IPluginModule::doClean()

> engine13.dll!Firebird::UnloadDetectorHelper::doClean() Line 345 C++

engine13.dll!Firebird::IPluginModuleBaseImpl<Firebird::UnloadDetectorHelper, ...>::cloopdoCleanDispatcher(self=0x000000000522ad8) Line 8474 C++

fbclient.dll!Firebird::IPluginModule::doClean() Line 825 C++

fbclient.dll!`anonymous namespace'::PluginModule::~~PluginModule() Line 406 C++

[External Code]

fbclient.dll!Firebird::RefCounted::release() Line 47 C++

fbclient.dll!Firebird::RefPtr<`anonymous namespace'::PluginModule>::~~RefPtr<`anonymous namespace'::PluginModule>() Line 135 C++

fbclient.dll!`anonymous namespace'::ConfiguredPlugin::~~ConfiguredPlugin() Line 518 C++

[External Code]

fbclient.dll!`anonymous namespace'::ConfiguredPlugin::release() Line 717 C++

```

fbclient.dll!Firebird::RefPtr<`anonymous
namespace'::ConfiguredPlugin>::assign(p=0x0000000000000000) Line 238 C++
fbclient.dll!Firebird::RefPtr<`anonymous
namespace'::ConfiguredPlugin>::operator=(p=0x0000000000000000) Line 166 C++
fbclient.dll!`anonymous namespace'::PluginSet::next(status=0x000000000014eef8) Line
867 C++
fbclient.dll!Firebird::IPluginSetBaseImpl<...>::cloopnextDispatcher(self=0x00000000001c7de8,
status=0x000000000014f3a8) Line 7811 C++

fbclient.dll!Firebird::IPluginSet::next<Firebird::CheckStatusWrapper>(status=0x000000000014f3a
0) Line 523 C++
fbclient.dll!Firebird::GetPlugins<Firebird::IProvider>::next() Line 108 C++
fbclient.dll!Why::Dispatcher::shutdown(userStatus=0x000000000014fa88, timeout=0, reason=-3)
Line 6669 C++
fbclient.dll!fb_shutdown(timeout=0, reason=-3) Line 3791 C++
isql.exe!atexit_fb_shutdown() Line 1806 C++
[External Code]

> engine13.dll!Jrd::Foo::~~Foo() Line 464 C++
[External Code]
fbclient.dll!Win32Module::~~Win32Module() Line 257 C++
[External Code]
fbclient.dll!Firebird::SimpleDelete<ModuleLoader::Module>::clear(ptr=0x00000000001c7fc0) Line
47 C++

fbclient.dll!Firebird::AutoPtr<ModuleLoader::Module,Firebird::SimpleDelete>::~~AutoPtr<ModuleLo
ader::Module,Firebird::SimpleDelete>() Line 118 C++
fbclient.dll!`anonymous namespace'::PluginModule::~~PluginModule() Line 407 C++
[External Code]
fbclient.dll!Firebird::RefCounted::release() Line 47 C++
fbclient.dll!Firebird::RefPtr<`anonymous namespace'::PluginModule>::~~RefPtr<`anonymous
namespace'::PluginModule>() Line 135 C++
fbclient.dll!`anonymous namespace'::ConfiguredPlugin::~~ConfiguredPlugin() Line 518 C++
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fbclient.dll!`anonymous namespace'::ConfiguredPlugin::release() Line 717 C++
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namespace'::ConfiguredPlugin>::operator=(p=0x0000000000000000) Line 166 C++
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867 C++
fbclient.dll!Firebird::IPluginSetBaseImpl<...>::cloopnextDispatcher(self=0x00000000001c7de8,
status=0x000000000014f3a8) Line 7811 C++

fbclient.dll!Firebird::IPluginSet::next<Firebird::CheckStatusWrapper>(status=0x000000000014f3a

```


0) Line 523 C++

fbclient.dll!Firebird::GetPlugins<Firebird::IProvider>::next() Line 108 C++

fbclient.dll!Why::Dispatcher::shutdown(userStatus=0x000000000014fa88, timeout=0, reason=-3)

Line 6669 C++

fbclient.dll!fb_shutdown(timeout=0, reason=-3) Line 3791 C++

isql.exe!atexit_fb_shutdown() Line 1811 C++

[External Code]

Posted by [SD](#) on Wed, 17 May 2023 22:53:48 GMT

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factory...
