

Problem

How do I change the name GlobalLogger or StaticMethodLogger within C++ logs?

Solution

A: There is more than one way to do this but only one is recommended.

To answer this question completely, a little background on how the ACS logging system in C++ works is needed. Basically all the non-static context logging macros defined within *loggingACEMACROS.h* are dependent upon a single function or method being available:

```
Logging::Logger::LoggerSmartPtr  
getLogger();
```

which ACS has implemented in the *logging* library already. The name of the *Logger* object returned by this ACS-implemented function is *GlobalLogger*. The macros themselves then just make calls to `getLogger()->log(...)` which of course is completely hidden.

A positive consequence of this is that:

- one can implement a member function within **their** own class named `getLogger` having a signature identical to the `getLogger()` function described above
- the ACS logging macros will then use the *Logger* object returned by your class's `getLogger` method instead of the globally available `getLogger()` function
- a trivial implementation of `getLogger` which just changes the name of the *SourceObject* (i.e., "GlobalLogger") could be something like:

```
protected:  
Logging::Logger::LoggerSmartPtr  
getLogger()  
{  
    return ::getNamedLogger("whatever name I choose");  
}
```

In this case, all we do is use another ACS-provided function to create a *Logger* with a name of our choice.

As for changing the name of the *Logger* used by static logging macros:

- implement a static method called `getNamedLogger` following the signature defined in *loggingGetLogger.h*
- within your `getNamedLogger` implementation, **ignore the name parameter being passed in entirely**. Instead, use whatever name you want.
- a sample implementation of `getNamedLogger` could be:

```
Logging::Logger::LoggerSmartPtr  
getNamedLogger(const std::string& loggerName)  
{  
    return ::getNamedLogger("my name and not loggerName");  
}
```

Related articles

- [How can more people do development with ACS on the same machine without disturbing each other?](#)
- [Which ports are used by ACS?](#)
- [Problems connecting to ACS servers on a remote machine: bad /etc/hosts](#)
- [Why does the getComponent method of ZLegacy/ACS.ContainerServices return an object of type None?](#)
- [Why are some of my print statements not showing up in the container output section of acscommandcenter?](#)