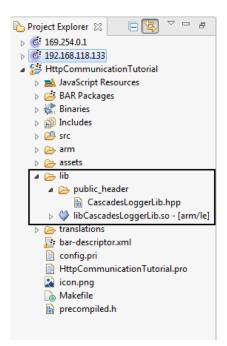
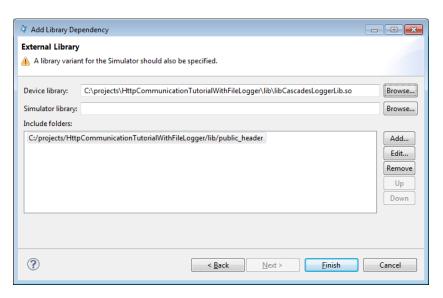
The Penrillian logging library v1.0

The Penrillian logging library allows BB10 apps to write log statements to the file system. This will assist in debugging apps away from the development environment. This has been tested with SDK 10.1 and is thread safe.

Instructions

Import the logger project into your IDE and export a release build, or build from the command line if you prefer. Copy the resulting <code>libCascadesLoggerLib.so</code> and <code>CascadesLoggerLib.hpp</code> into a folder in the project's (the project which will be using the logger) file structure. Using the IDE (v10.2 is used in this example), right click the project, select "Configure" then "Add Library". Choose "External Library" then select <code>libCascadesLoggerLib.so</code> for the "Device Library" and the folder containing <code>CascadesLoggerLib.hpp</code> as the "Include Folder".



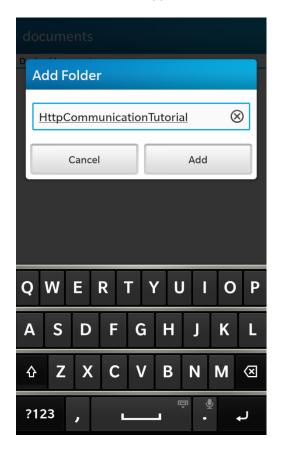


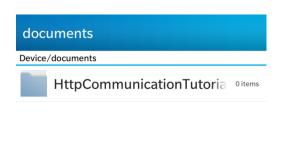
To direct all qDebug () (C++) and console.debug () (QML) statements to the console and file system:

- in main.cpp, add #include "CascadesLoggerLib.hpp"
- in the main() method, add CascadesLoggerLib::init()

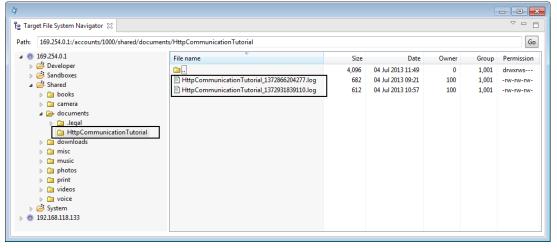
```
1 #include <bb/>descades/Application>
  2 #include <QLocale>
  3 #include <QTranslator>
  4 #include "applicationui.hpp"
5 #include "CascadesLoggerLib.hpp'
  7 using namespace bb::cascades;
  9⊖ Q_DECL_EXPORT int main(int argc, char **argv) {
        CascadesLoggerLib::init();
 10
         Application app(argc, argv);
 11
 12
 13
         QTranslator translator;
         QString locale_string = QLocale().name();
 14
         QString filename = QString("HttpCommunicationTutorial_%1").arg(
 15
                 locale_string);
 16
         if (translator.load(filename, "app/native/gm")) {
 17
 18
             app.installTranslator(&translator);
 19
 20
 21
         new ApplicationUI(&app);
 22
 23
         return Application::exec();
 24 }
 25
```

This will automatically enable logging to console. To also enable logging to the file system, add a folder with the name of the app to /shared/documents.



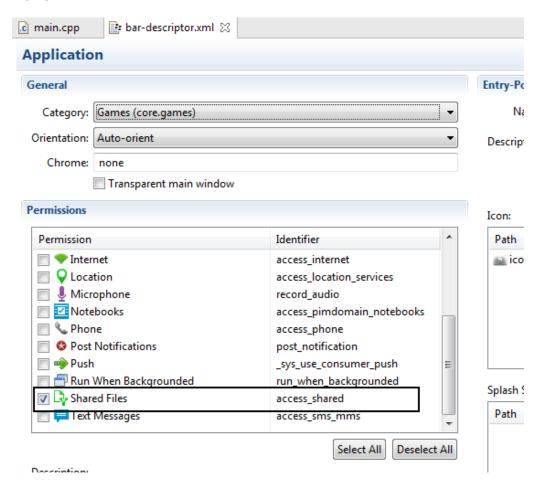






Note:

In order to write into the shared directory it is required to add the "access_shared" permission (Shared Files) to the project.



To perform ad-hoc logging:

- add #include "CascadesLoggerLib.hpp" to the .cpp file whether logging is to be performed
- call CascadesLoggerLib::sharedInstance()->log("logging statement") when required
- an optional tag can also be included to make reading the log file easier:
 - o CascadesLoggerLib::sharedInstance()->log("logging statement", "A TAG")

```
void ApplicationUI::requestFinished(QNetworkReply* reply) {
     const QString NETWORK_ERROR_TAG = "NETWORK_ERROR";
     qDebug() << "requestFinished";
     myActivityIndicator->stop();
     myLabel->setVisible(false);
     if (reply->error() != QNetworkReply::NoError) {
         if (!myFile->open(QIODevice::ReadWrite)) {
             return;
         }
         myFile->write(reply->readAll());
         myFile->flush();
         myFile->close();
         XmlDataModel *dataModel = new XmlDataModel();
         dataModel->setSource(QUrl("file://" + QDir::homePath() + "/model.xml"));
         myListView->setDataModel(dataModel);
     } else {
         CascadesLoggerLib::sharedInstance()->log(reply->errorString(), NETWORK_ERROR_TAG);
         myLabel->setText("Problem with the network");
     reply->deleteLater();
```

The result:

```
MttpCommunicationTutorial_1...
                                                               MttpCommunicationTutorial_1...
                                                                                              c main.cpp
           applicationui.cpp
   1 Thu Jul 4 12:03:02 2013
  4 Start of log...
                OrientationSupportPrivate::getSupportedDisplayOrientation: auto
  6 12:03:02:437
                  OrientationSupportPrivate::initDirectionAndOrientation:
      isCardOrViewer: false
      manifestDisplayOrientation: All
      displayOrientation: All
      uiOrientation: Portrait
 11
      displayDirection: North
      nativeDisplayOrientation: Portrait
 13 12:03:02:453 CS Debugging enabled: false
 14 12:03:02:511
                   ApplicationUi Constructor
 15 12:03:02:540
                  initiateRequest
                  PpsTimeSettingsObject::newSettingsData() emitted
 16 12:03:02:610
 17 12:03:06:013
                    requestFinished
 18 12:03:06:016 NETWORK_ERROR
                                 Unknown error
 19
```

Note:

To disable logging, simply delete the folder with the app's name from /shared/documents.