iData SDK Technical Note

Introduction:

This document outlines the method to install the iDATA SDK matcher algorithm and iCAM device control DLL's. It is intended for the experienced application developer audience. This information is used in lieu of executing the installer (setup.exe) on the iData SDK installation disk.

DLL's:

The DLL's listed below are needed and must be included with the application installer you have developed for the iCAM 4000 series which you intend to re-distribute to your application end user.

NOTE: If the iCAM TD100 is used please substitute **IAiCamDeviceControl.dll** with **iAiCamTD100Control.dll**.

IAiCamIris.dll	Template Generation, Matching and Quality assesment algorithm. This DLL is supplied with iData SDK.
IAiCamDeviceControl.dll	Device control DLL for iCAM 4000 Series Iris/Face Audit Cameras. This DLL is supplied with iData SDK.
iAiCamTD100Control.dll	Device control DLL for iCAM TD100 Iris/Face Camera. This DLL is supplied with the driver disk for the iCAM TD100.

The **IAiCamDeviceControl.dll** and the **iAiCamTD100Control.dll** are not mutually exclusive and may both be registered for use on the same host PC. One is USB based (iCAM TD100) and other is network based (iCAM 4000).

If you are developing with iData SDK for the iCAM TD100 it is possible to substitute **IAiCamDeviceControl.dll** with **iAiCamTD100Control.dll**.

Only one iCAM TD100 (USB) can be connected and be operated by a host PC, while multiple iCAM 4000 series devices can be addressed by a single host.
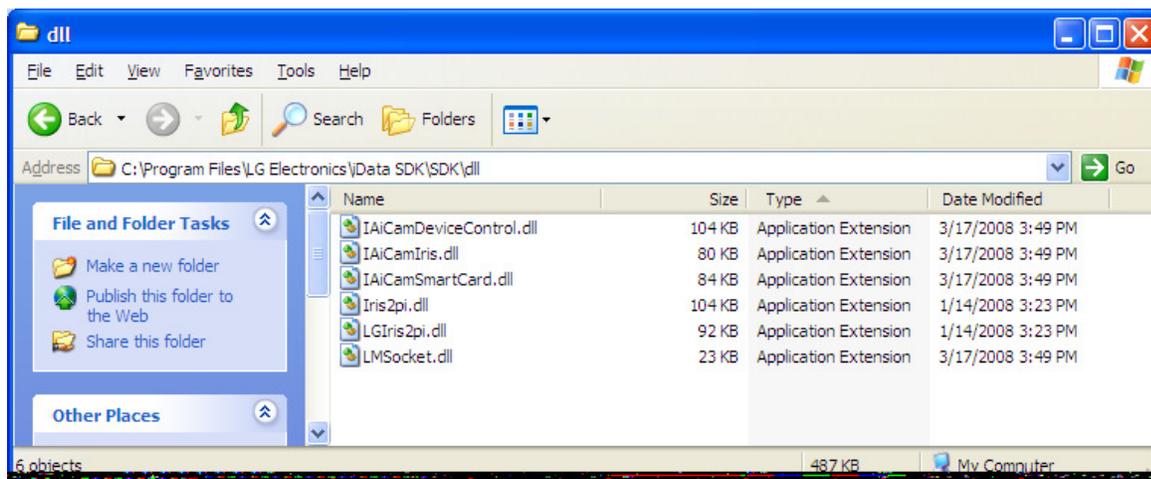
The iCAM TD100 is a USB device, so its device drivers will also be need to be installed on the host PC. Consult the driver installation procedure/disk for the iCAM TD100 for the drivers.

The DLL's that begin with "**IA**" are **COM** components and need to be registered in the Windows operating system.

The screen below lists all the files which are installed when the Install shield (Setup.exe) is used to load the iData SDK. All these files should be included with the application installer the integrator (you) develop.

By default the iData SDK installer includes the device control for the iCAM 4000 series camera (IAiCamDeviceControl.dll) as well as the IAiCamIris.dll which is used for iris template generation and matching.

NOTE: iCAM TD 100 control DLL and device drivers are not included in the iData SDK installer disk.

Development Environment

- Operating System: Windows XP, and Vista

- Support: Visual Studio 2003, 2005, 2008

- Platform: Pentium compatible PC with Ethernet port (iCAM 4000), USB 2.0 (iCAM TD100)

• Type

- ATL (ActiveX Template Library)

- Files: iCamDeviceControlDefs.h, IAiCamDeviceControl.dll, IAiCamIris.tlb

*NOTE***:** Application developers (integrators) may **_NOT include_** the iDATA SDK API application documentation
"iData_*SDK_UserManual.pdf* "with their redistributed application code as this is forbidden under the Iris ID
license agreement.   The Iris ID sample application code sample(s) can be modified and redistributed as
executable object code.

The following procedure is required to install and configure the iData SDK HASP SRM protection system.

HASP based iData SDK redistribution

To enable the use of any component/file(s) that are protected by HASP SRM, it is necessary to install
HASP SRM drivers. HASP SRM driver installer can be downloaded from the Aladdin website
(http://www.aladdin.com/) for redistribution.

1.   You (the integrator) can distribute HASP driver installer along with your application and instruct
     the application end user(s) to install HASP driver *before installing* your application.

2.   Your application installer program can invoke the HASP installer on the distribution disk during
     installation.

3.   You can use HASP driver merge modules in your installer. In this case, there is no requirement to
     redistribute the Aladdin HASP installer separately.

IRIS ID SDK & Customer Application

1.   You (the integrator) can include related Iris ID components in your application wherever you
     want. During packaging, you can also package Iris ID components along with your application
     components.

2.   You may not include Iris ID components into your distribution package. You can distribute Iris ID
     distributable package along with your application. The end users need to be advised to install
     Iris ID redistributable themselves or the application installer can execute installation of Iris ID
     distributable package. (Iris ID has to make redistributable package in this case which will contain
     dongle protected components.)

SDK Packaging

Packaging of the SDK is dependent on the integrators' policy.

1.   iData SDK (iCAM 4000 Camera Controller + Algorithm)

2.   TD SDK (iCAM TD100 Camera Controller)

3.   Algorithm SDK (For integrators using #2 above and want to use Iris ID matching Algorithm.

End