Phelps2020 LucidView MIP Plugin

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This file describes how to build and install the LucidView MIP Plugin.

Requirements

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\* Phelps2020 IVA-PP SDK (this will be provided separately)

\* Visual Studio 2015 (other versions might work, but have not been tested)

\* Milestone Smart Client 2018 R2

\* Milestone MIP SDK

Note: Visual Studio 2015 doesn't support installer projects by default, so you

will need to download the installer as a separate extension. Select

"Tools->Extensions and Updates" then click "Online" on the left side of the

window. In the box labeled "Search Visual Studio Gallery" enter "2015

installer" and follow the prompts to install the extension.

Building

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\* Unzip the provided file: "LucidView\_MIP\_Plugin.zip"

\* In Visual Studio, File > Open > Project/Solution,

 then select "LucidView\_MIP\_Plugin/LucidView\_MIP\_Plugin.sln"

\* In the Visual Studio toolbar, select "Release / x64" as the

 build configuration.

\* Right-click on LucidViewSetup and select "Build". This will

 build all projects and create an installer .msi file.

Installation

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\* The installer will be found in:

 "LucidView\_MIP\_Plugin/LucidViewSetup/release/LucidViewSetup.msi"

\* Double-click this file to start the installation process.

\* After installation, create a directory "LucidView" under the

 Milestone MIPPlugins directory (C:\Program Files\Milestone\MIPPlugins).

\* Copy all files from both LucidView and IVA-PP to the directory

 you just created. For example (using MINGW bash):

 cd /c/Program\ Files/Milestone/MIPPlugins/

 mkdir LucidView

 cp -r /c/Program\ Files/Phelps2020\,\ Inc/IVA-PP\ SDK/\* LucidView

 cp -r /c/Program\ Files/Phelps2020\,\ Inc/LucidView/\* LucidView

\* Start the Milestone Smart Client and make sure that the plugin

 successfully loaded by clicking the "?" icon in the upper right,

 then click "About" in the drop-down menu, and look for "LucidView"

 in the list of loaded plugins.

Smart Client Setup

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\* In the Milestone Smart Client, click the "Setup" button in the

 upper right then click on "Views > Default view group" and click

 the button "Create new view". Select the desired view size and

 then name the view whatever you want (e.g. "LucidView").

\* Under "System Overview", drag "LucidView" to the new view window.

\* Scroll down to properties and click "Select Camera" then choose

 your camera.

\* Click the "Setup" button again to return to normal operation of the

 Smart Client. You should see live video start now.

Code Structure

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The LucidView MIP Plugin is based on the Milestone RGBVideoEnhancement

sample, so the code structure is quite similar.

LucidViewEnhancement - this directory contains the native interface

 between the plugin and the IVA-PP SDK. There are two Visual Studio

 projects: one for 64-bit and one for 32-bit. Both will be built and

 distributed since the 64-bit Smart Client requires a 64-bit plugin

 and video export requires a 32-bit plugin.

MilestonePluginWrapper - this directory contains the plugin implementation,

 including any GUI to be presented.

LucidViewSetup - this directory contains the installer project. This

 defines the files that will be installed by the generated .msi file.