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# Software Overview

This software helps to start with implementation of some scientific researches/works concerning IP-camera surveillance systems. That saves time on development own works and helps to start quickly.

Software consists of the following components:

|  |  |
| --- | --- |
| Component | Description |
| **Client** | This is a client. Client allows you to see image processing server real-time messages and connect to MJPEG IP-cameras (or its emulators such as <http://ipcamemu.codeplex.com>). Subscriber of Message Routing Server. |
| **Image Processing Server** | This is an image processing server where subscription to one MJPEG IP-camera is performed and output of image processing work goes to message routing server. |
| **Message Routing Server** | Message routing service. Takes messages from image processing server(s) and sends it to subscribers. |

# Getting Started Overview

This guide will help you to start

## Software Requirements

* Windows 7 (probably it will work on other Windows versions as well)
* Microsoft .Net 3.5 SP1
* Microsoft .Net 4.0 Full Profile

## Hardware Requirements

* MJPEG IP-camera (one or more) or its emulator <http://ipcamemu.codeplex.com> (suppose you chose second).

## Materials

* AVI, WMV, images or web-camera (for IP-camera emulator) or IP-camera.

## Setting up Environment

1. Install software and hardware.
2. Setup IP-camera emulator as it described in its guide and check if it works with your data in Opera.

Configuration of Worker

//TODO:

Configuration of Client Software

//TODO:

Configuration of Message Router

//TODO:

## Compile Project

### Environment

* Microsoft Windows 7 x64
* Visual Studio 2010 x86

### Compilation

Software consists of several solutions. To compile everything you need to execute:

|  |
| --- |
| build\build.cmd |

Output will be placed at folder

|  |
| --- |
| Output |

To start demo you can build application and then execute:

|  |
| --- |
| output\setup.cmd  output\start.cmd |