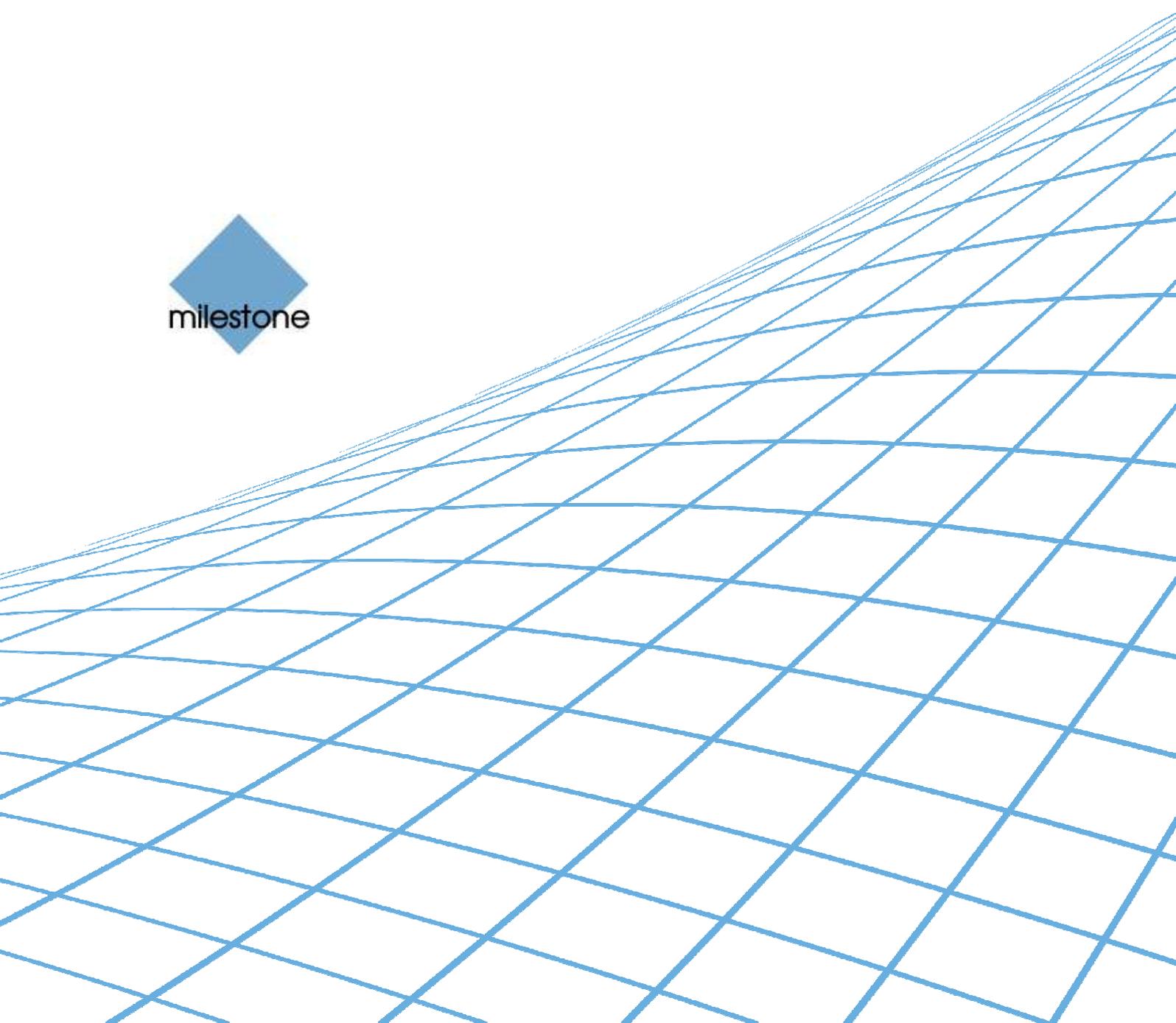




**XProtect™**

**Bosch IntuiKey  
Keyboard Smart  
Client Plug-in  
User's Manual**





## Target Audience for this Document

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This document is aimed at system users and provides descriptions of how to install and maintain the plug-in for the Bosch IntuiKey keyboard in the Milestone XProtect Smart Client.



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## General description

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The Bosch IntuiKey is a video control station that enables the user to view and control cameras and video recorders at local and remote facilities.

A full description of the Bosch IntuiKey is found in a separate document, Bosch Controller KBD Universal User Guide.pdf.

The BOSCH INTUIKEY SmartClient Plug-in enables using the BOSCH INTUIKEY to perform a subset of Milestone XProtect Smart Client functionality instead of using the SmartClient User Interface.

There is no “one to one” mapping of BOSCH INTUIKEY functions to SmartClient functions and vice versa. Some BOSCH INTUIKEY functionality is not applicable for SmartClient, and SmartClient contains functionality not implemented by the BOSCH INTUIKEY.

The reader should have knowledge of the BOSCH INTUIKEY operation. Reading the document that is mention above can give you this knowledge.



# Installation

The Smart Client plugin for Bosch IntuiKey keyboard comes with an installer. To install the plugin, unpack the zip files first.

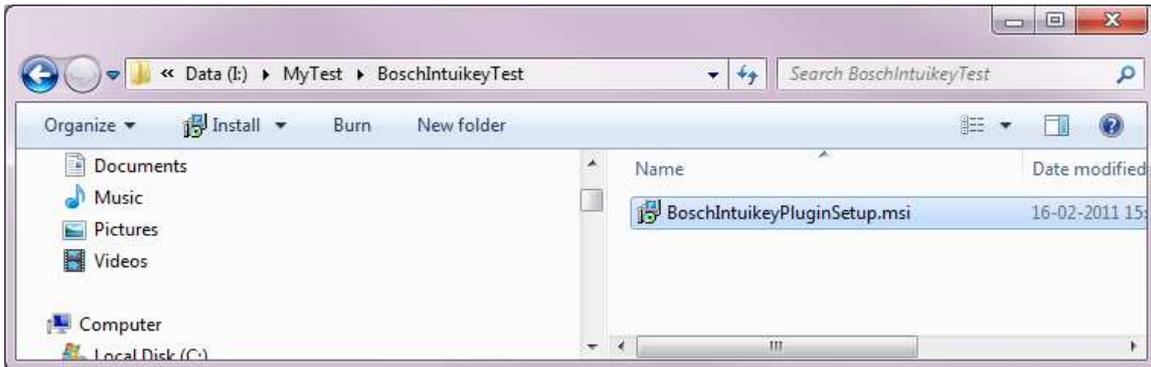


Figure 1: Unpacking the installer

Double click on 'BoschIntuikeyPluginSetup.msi', start to install

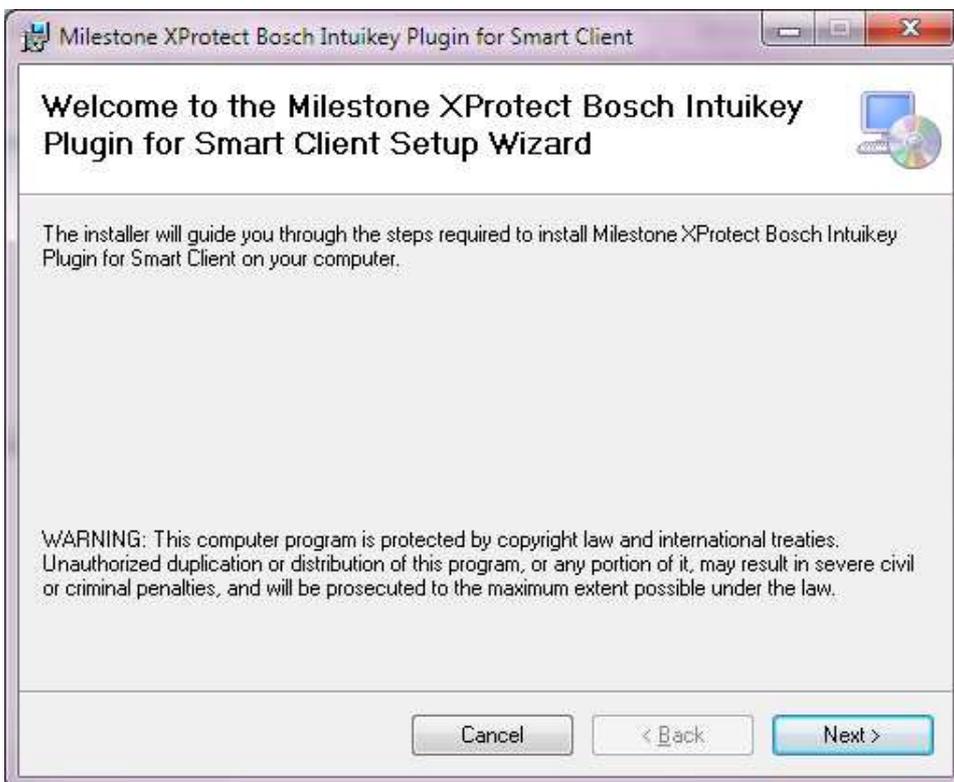


Figure 2: Starting installation

Press on 'Next' button to second step:

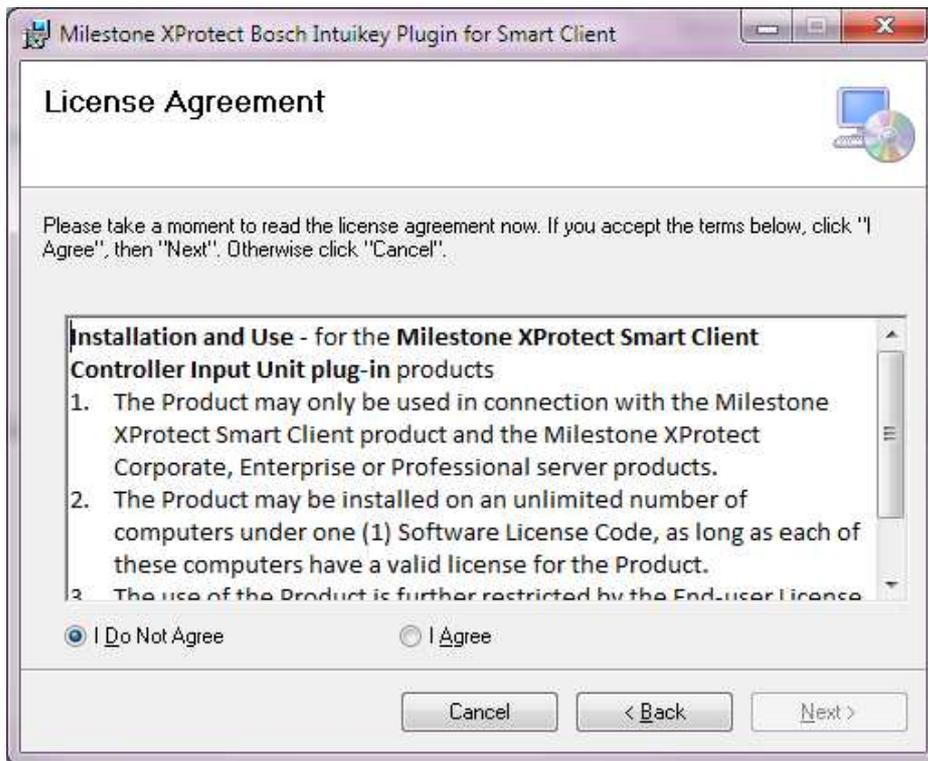


Figure 3: End User License Agreement

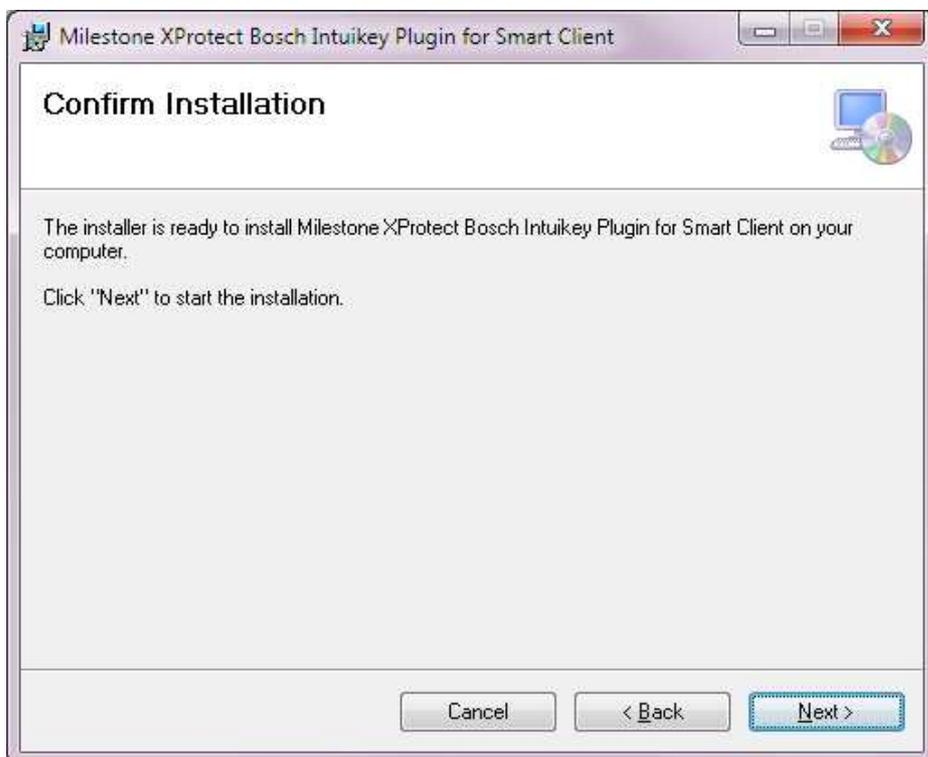


Figure 4: Confirming installation



Press 'Next' again

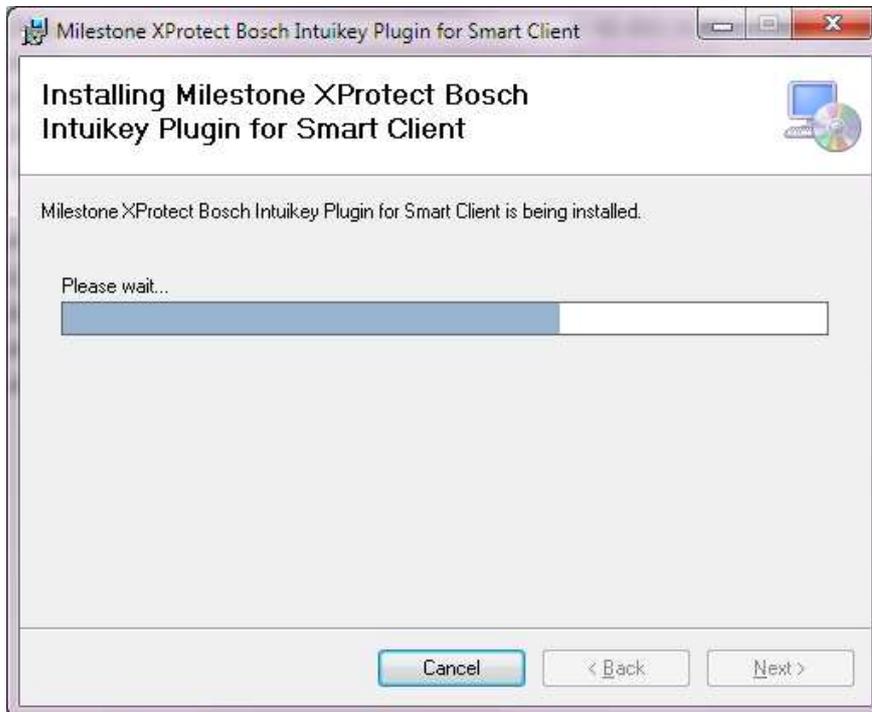


Figure 5: Installation in progress

Wait for the installation to complete.

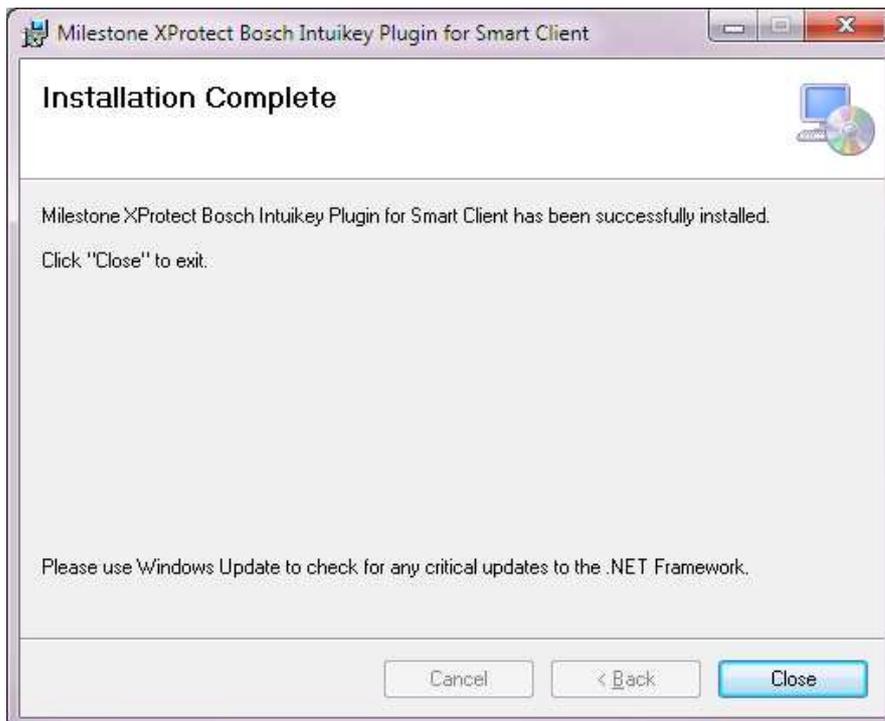


Figure 6: Installation complete



Press 'Close' to finish the installation.

The software package includes the following files:

- plugin.def
- terminalModeDll.dll
- VideoOS.RemoteClient.Plugin.BoschIntuikey.dll
- VideoOS.RemoteClient.Plugin.BoschIntuikey.dll.config
- VideoOS.RemoteClient.Plugin.KeyboardPluginBase.dll
- Docs\ Bosch Controller KBD Universal User Guide.pdf
- Docs\IntuiKeySeriesK\_InstructionBook\_IntuiKeySeriesDigitalKeyboardSoftware\_enUS\_T5955786123.pdf
- Docs\ MilestoneXProtectSmartClient\_Bosch\_Intuikey\_Controller\_Plug-in\_Users\_Guide\_en-US.pdf (this file)

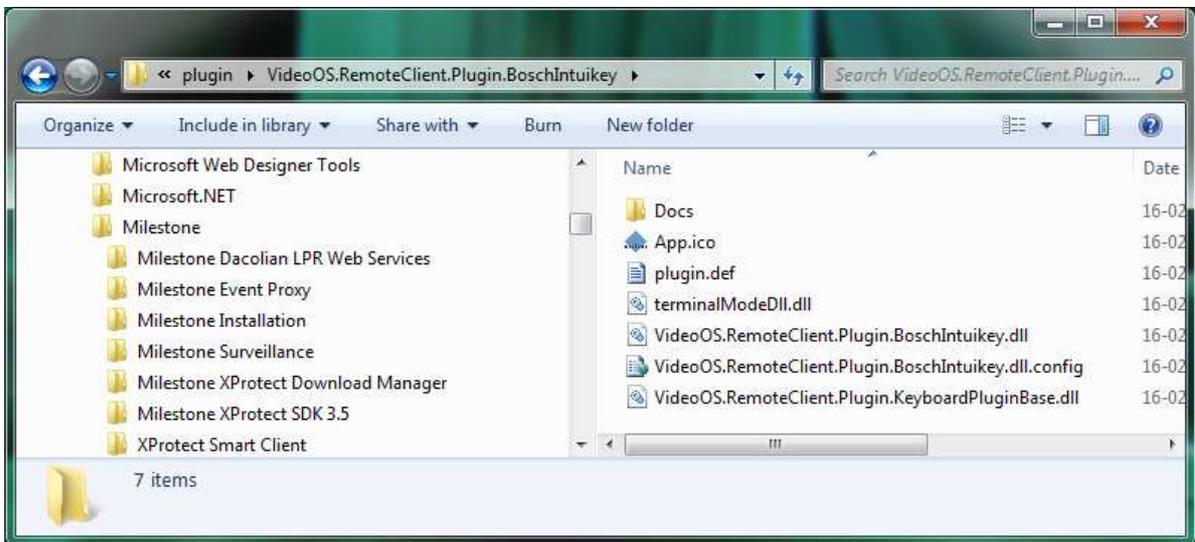


Figure 7: Location of the plug-in files



# Licensing

The plugin is ready to use only if the license file is valid and in right place.

The license file should always be placed in the same folder with plugin. By default, the license file *BoschIntuikeyKeyboard.lic* should be placed in

32 bit operating system: C:\Program Files\Milestone\XProtect Smart Client\plugin\  
VideoOS.RemoteClient.Plugin.BoschIntuikey\

64 bit operating system: C:\Program Files (x86)\Milestone\XProtect Smart Client\plugin\  
VideoOS.RemoteClient.Plugin. BoschIntuikey \

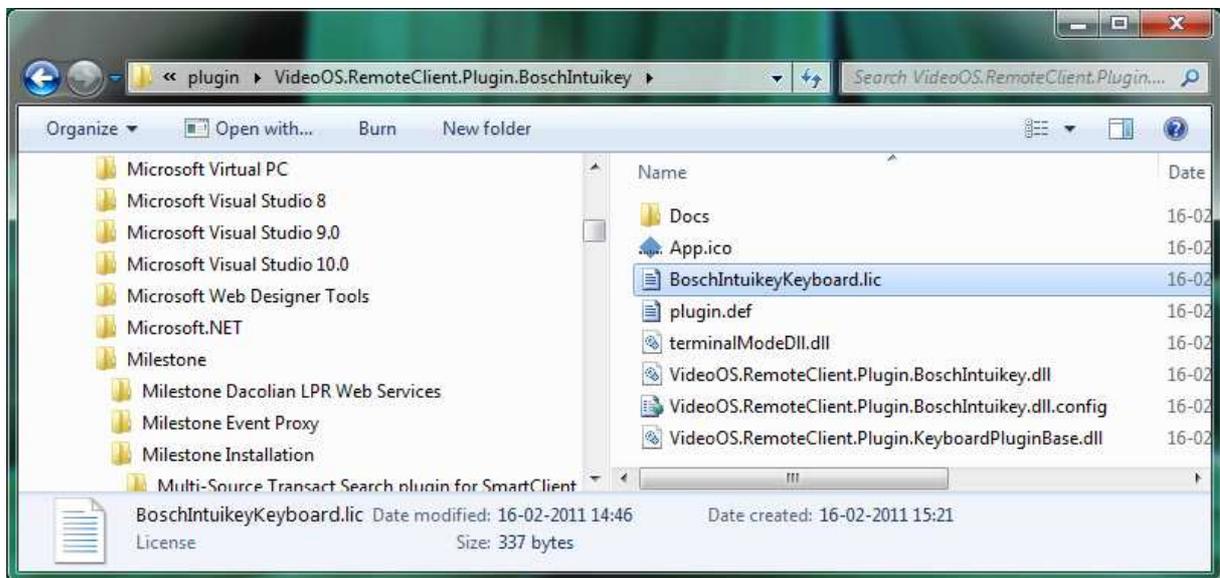


Figure 8: Placing the license file

Error messages will be displayed on the Keyboard Setup form only if license checking fails. For example:

If no license file was found

Failed to load file. Exception message: Could not find file 'C:\Program Files (x86)\Milestone\XProtect [More Info...](#)

If license has expired

The license has expired. [More Info...](#)

Click on "More Info" button can see error message in details:

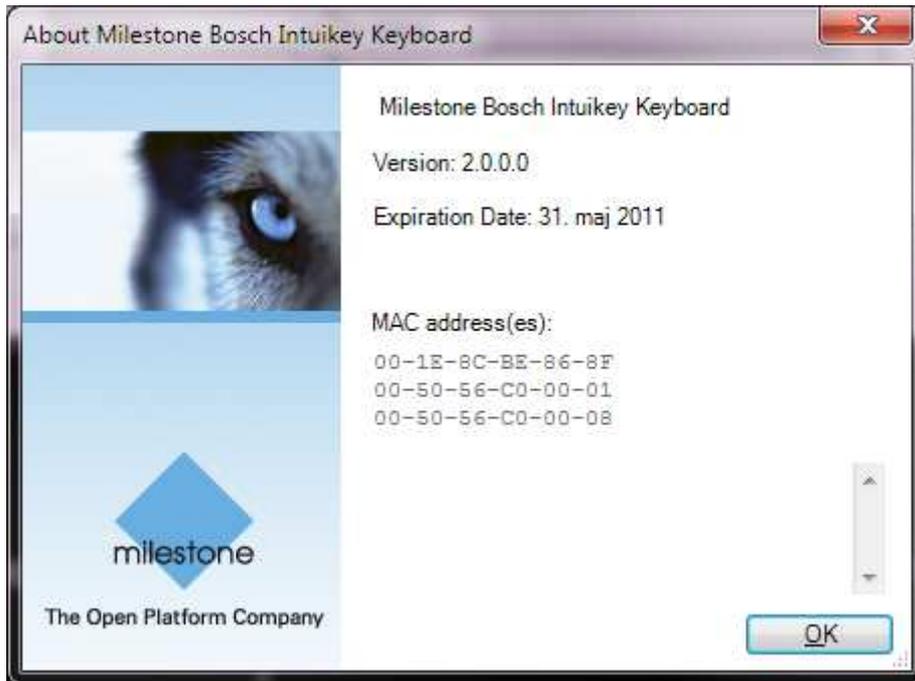


Figure 9: Plugin licensing details

Note: MAC addresses are also listed. A MAC address can be copied to the clipboard by clicking.

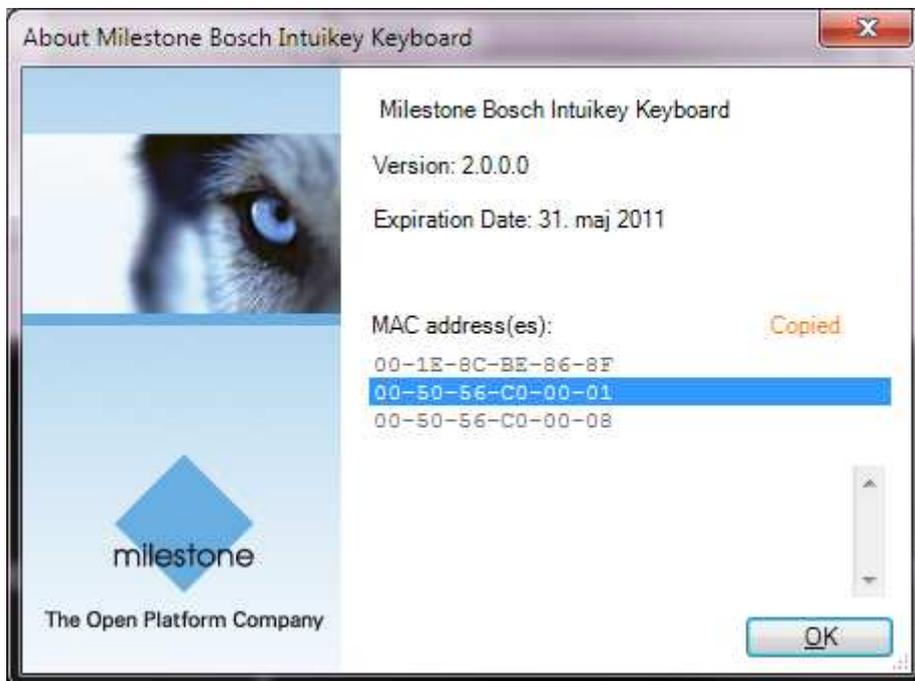


Figure 10: Copying MAC address information

About information can always be displayed by right click on system menu of Setup Form:

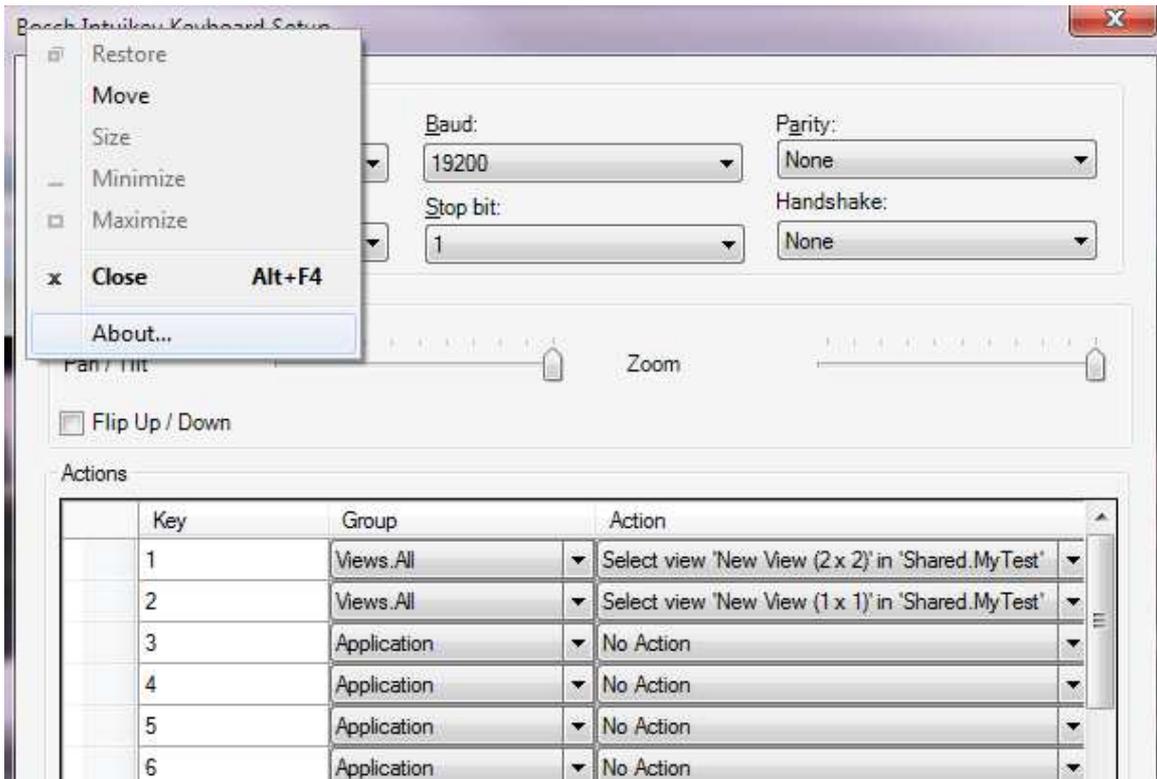


Figure 11: Accessing the About box



## Keyboard installation mode

All communication between the Bosch IntuiKey keyboard and the third-party PC is performed through an RS-232 interface. The following diagram illustrates this configuration:



Figure 12: Keyboard connection.

This connection requires a standard Null modem RS-232 link. If desired, the Bosch Security Systems cable S1385 can be used. Connect one end of the RS-232 interface cable to the 9-pin RS-232 Serial Port located on the far right side of the rear of the KBD-Universal keyboard. Connect the other end of the RS-232 interface cable to a COM port on the PC.

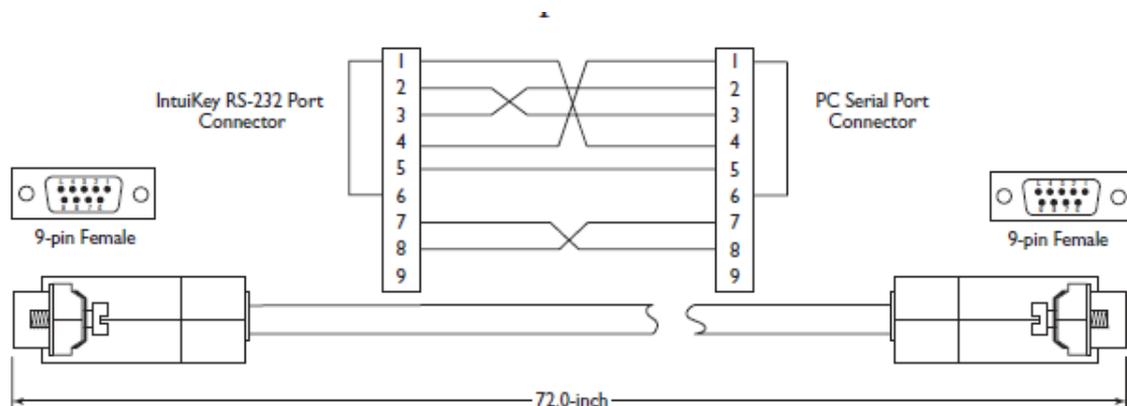


Figure 13: Cable connection.

NB: In order to get use **Terminal mode**, the firmware version of Bosch IntuiKey need to be 1.92 or later.



## Setup

To show the configuration window of the plug-in, click the Application Menu on the SmartClient.

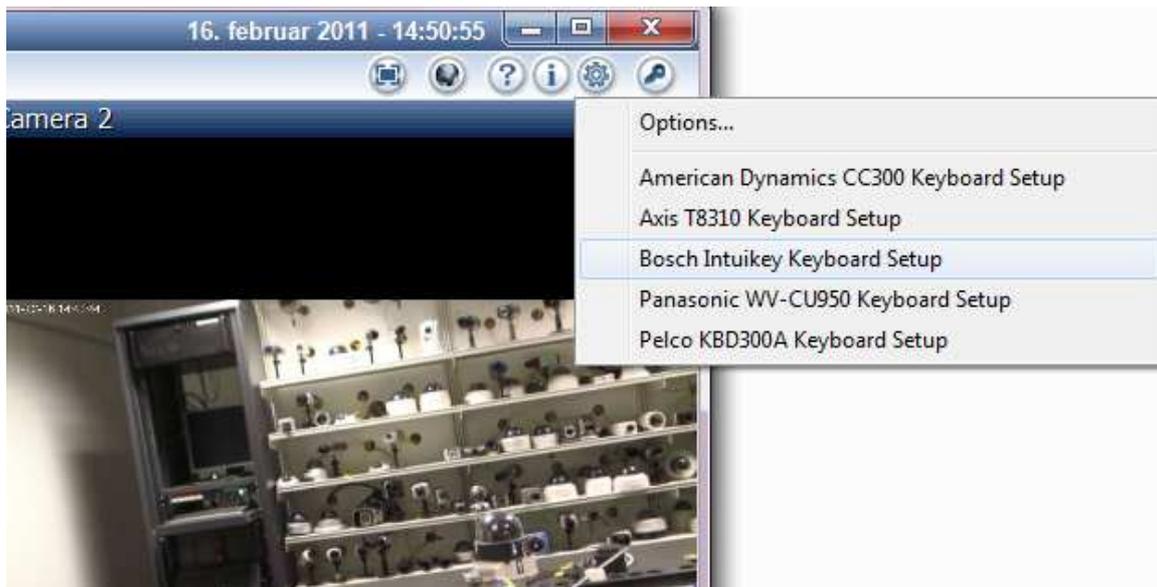


Figure 14: The 'Show Application Menu' button is listed in the Drop-Down menu.

Select the 'Bosch IntuiKey Keyboard Setup' menu item. The setup window is displayed.

### ***Serial Port Properties Setup***

- COM Port: Select the COM (Serial) port the BOSCH INTUIKEY is connected to. The Drop-Down list displays a list of all COM port on the computer.
- Baud, Parity, Data Bits, Stop Bits, and Handshake: These must be the same values that are defined on the BOSCH INTUIKEY by the system administrator.

### ***Joystick Options***

The joystick tilt direction on the BOSCH INTUIKEY is:

- Joystick forward -> Tilt up
- Joystick backwards -> Tilt down

This is the opposite of the default for a normal joystick.

The 'Flip Up / Down' switch enables the user to invert Tilt direction to match standard joystick.



Figure 15: Joystick setup

By adjusting Pan/Tilt and Zoom TrackBar, PTZ sensitivity can be changed as well.

## Configurable Actions

The Bosch IntuiKey SmartClient Plug-in contains a method for sending User-defined instructions to the SmartClient. Currently, the number of configurable actions is configurable but limited to 640.

The actions are defined using the setup module, described later in this document. They are activated by pressing a number and following ENTER key (configurable, e.g. can be changed to F1, F2...) on the Bosch IntuiKey.

Example: pressing digits 1 and 2 on the numeric keypad followed by 'ENTER' (default), send the instruction that is defined as number 12 in the generic actions list to the SmartClient. If no instruction is defined for generic action 12, nothing happens.

In the Keyboard Setup dialog you define the instructions (actions) that are executed when you press a number (1 - 12) followed by the ENTER key. The Drop-Down button appears on the selected row. A click on this button displays a list of all available SmartClient instructions, where you can select one to assign to the current rows number. The list looks like this:

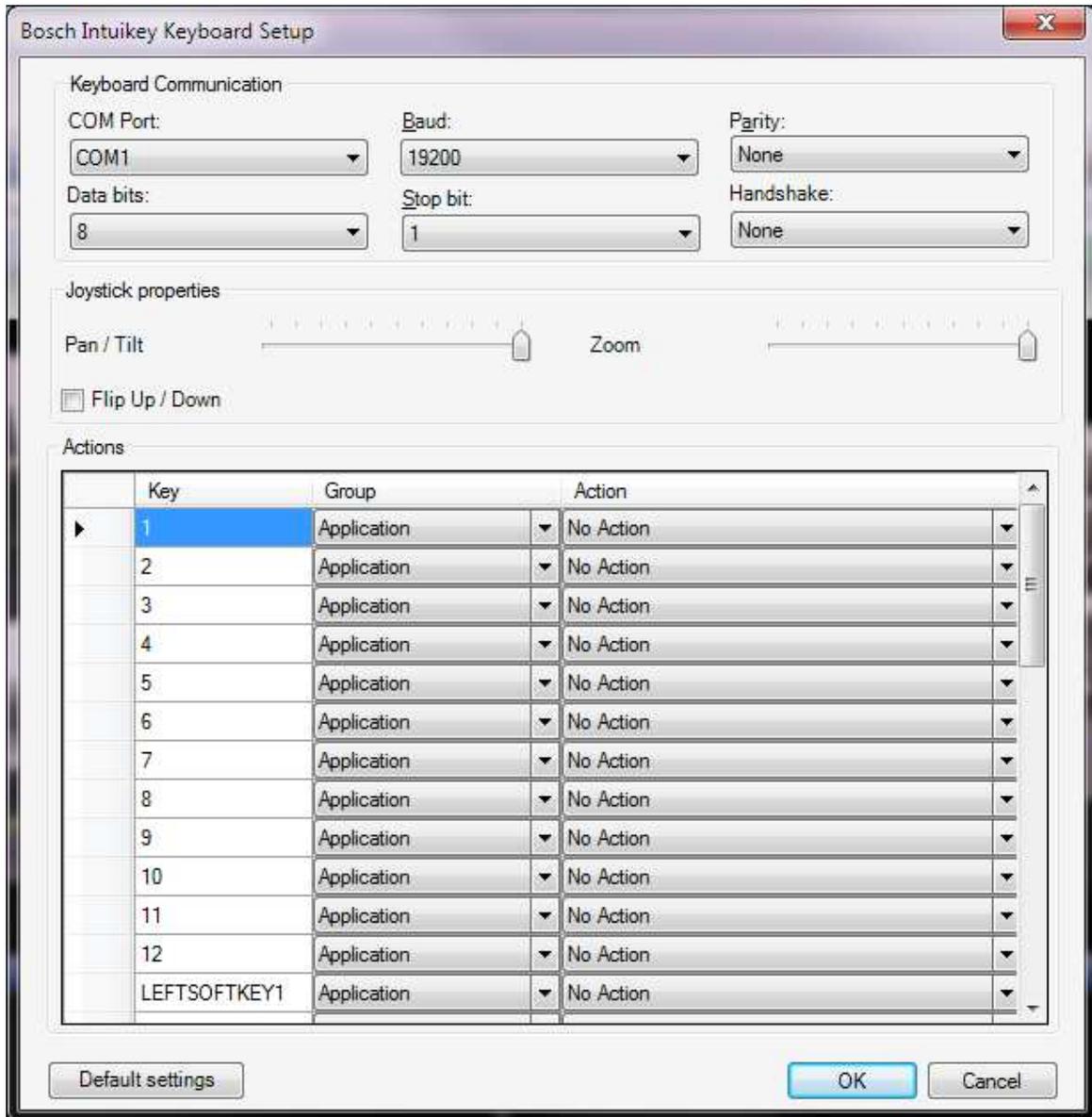


Figure 16: Plugin Configuration Dialog

Below is an example of a possible assignment.

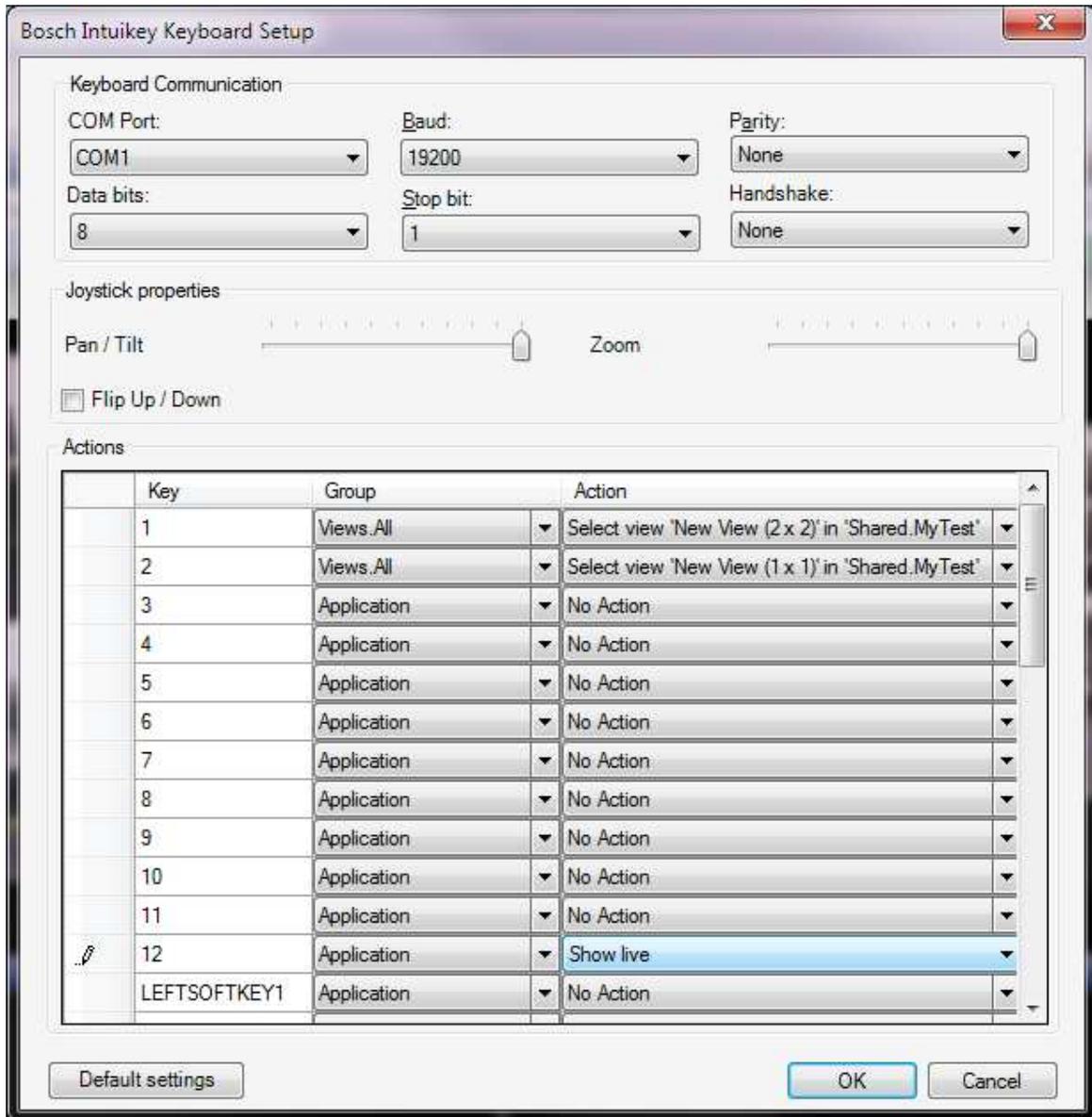


Figure 17: Instructions assignment example

## Number of Configurable Generic Actions

The number of configurable generic actions is changeable. Under the plug installation folder: VideoOS.RemoteClient.PlugIn.BoschIntukey.dll.config looks like:

A screenshot of a Notepad window titled "VideoOS.RemoteClient.Plugin.BoschIntuikey.dll.config - Notepad". The window contains XML configuration code. The code is as follows:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <appSettings>
    <add key="MaxNumGenericCommand" value="12" />
    <add key="LoggerEnabled" value="0" />
    <add key="CommunicationIndex" value="0" />
    <add key="PanTiltFactor" value="1" />
    <add key="ZoomFactor" value="1" />
  </appSettings>
</configuration>
```

The number "12" in the first line of the appSettings section is highlighted in blue.

Figure 18: Number of configurable generic actions

The marked number is number of configurable actions that are going to display in the setup form.

In this document this number is set to 12.



## Default Settings

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Default settings can be activated by pressing the “Default settings” button from the Setup Form.

The default setting including:

- COM Port: “COM1”.
- Baud: 19200, Parity: None, Data bits: 8, Stop Bits: 1, and Handshake: None
- Generic actions (number 1- 12):
  - all not assigned
- Bosch IntuiKey spec:
  - ENTER - Select Generic number.
  - MON – Select monitor by number(shortcut)
  - IRIS\_PLUS – Iris up on selected camera
  - IRIS\_MINUS – Iris down on selected camera
  - SHOT – Select camera by number(shortcut)
  - FOCUS\_PLUS – Focus near on selected camera
  - FOCUS\_MINUS – Focus far on selected camera
  - RIGHTSOFKEY1 – Show Live
  - RIGHTSOFKEY2 – Show Playback
  - RIGHTSOFKEY3 – Show Setup
  - RIGHTSOFKEY5 – Forward playback
  - RIGHTSOFKEY6 – Reverse playback
  - RIGHTSOFKEY7 – Play/Stop
  - PTZ – default joystick move motions such as pan left/right/stop, tile up/down/stop, and zoom in/out



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