

Technical Support

Technical Bulletin

Distribution:	Application Engineers, Technical Support Engineers, Vision Solutions Engineers, Technical Documentation Group, Worldwide Sales	☐ INTERNAL ONLY
Bulletin No.:	TB-07-005	☒ Internal & Customers (as needed)
Date:	01/29/2008	☐ Internal & Customers (MANDATORY)
Product:	VPRO	Rev: 5.0
Title:	Security bit name change	

PURPOSE

This document explains changes to the security bits controlling acquisition support in VisionPro 5.0.

In VisionPro 5.0, Cognex acquisition supports all of the following hardware:

- FireWire cameras
- GigE Vision cameras

Starting in VisionPro 5.0, security for acquisition is controlled by two security bits, named "SWAcquisition" (for CVL) and "VxSWAcquisition" (for VisionPro).

To reduce the number of dongle field upgrades, the new SWAcquisition and VxSWAcquisition bits have been created by renaming the existing FireWire security bits (1394DCAM and Vx1394DCAM) to SWAcquisition and VxSWAcquisition.

This means that all existing dongles with the 1394DCAM or Vx1394DCAM bits programmed will also allow use of GigE Vision in VisionPro 5.0. Note that systems with Vx1394DCAM_4 or 1394DCAM_4 will not allow use of GigE Vision.

TECHNICAL DETAILS

Although the names of the 1394DCAM and Vx1394DCAM bits have changed, their representation in existing programmed dongles has not (a security bit is represented in a dongle as a numeric value, not as a string name). Therefore:

- An existing dongle programmed with the 1394DCAM bit is **identical** to a new dongle programmed with the SWAcquisition bit and
- An existing dongle programmed with the Vx1394DCAM bit is **identical** to a new dongle programmed with the VxSWAcquisition bit and

The cogtool.exe supplied with each version of VisionPro and CVL will display the bit names that were in effect at the time of that software version's release. For example:

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	An existing dongle originally programmed with 1394DCAM and Vx1394DCAM will show	A new dongle programmed with SWAcquisition and VxSWAcquisition will show
Cogtool output from VisionPro 4.4 (and previous releases)	"1394DCAM" "Vx1394DCAM"	"1394DCAM" "Vx1394DCAM"
Cogtool output from VisionPro 5.0 (and future releases)	"SWAcquisition" "VxSWAcquisition"	"SWAcquisition" "VxSWAcquisition"

MOVING FORWARD

When a customer upgrades to VisionPro 5.0, the only visible difference is the change in the reported security bit names described above. The only customers affected by the change are:

1. Those that have written code that runs "cogtool --print" and parses the output (possibly looking for the string "1394DCAM") or
2. Those that have built a system to verify that the "cogtool --print" output on each incoming dongle matches some expected output

Affected customers should generally update their software to consider the 1394DCAM and SWAcquisition strings (displayed by "cogtool --print") as equivalent (and the same for the Vx1394DCAM and VxSWAcquisition bits).