

BCS camera for DelPro 5.2

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System Software's

The following software is needed to be installed on the different devices in order to setup correctly the BCS System.

DelPro Server

- DelPro Software with BCS module
- Configuration Tool
- Farmic Tools
 - BCS Maintenance
- DelPro Xtra
 - For Licensing

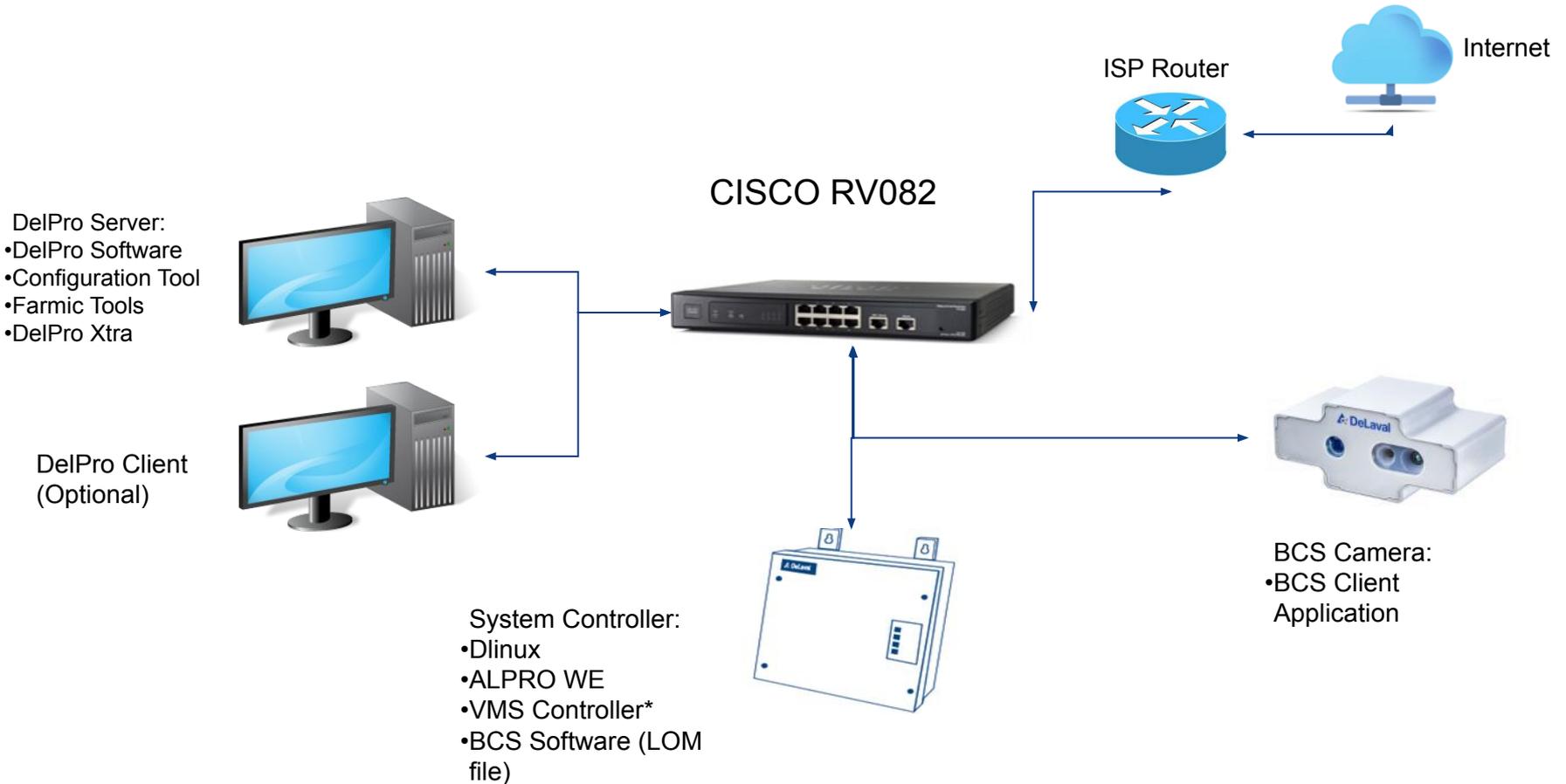
System Controller

- DLinux
 - ALPRO WE
 - *VMS Controller (if VMS installed)
 - BCS Software LOM file

BCS Camera

- BCS Client Application

Connection layout



Software's Functions

DelPro Software

- BCS Settings
- Animal Data
 - BCS day filter calculations
 - BCS Slope calculations
- Alarms

Configuration Tool

- Load BCS Software LOM File and configure the system on:
 - System Controller

Farmic Tools

- License validation
- BCS Maintenance
 - Test Camera Live View
 - Logging functions
 - Load New Modes
 - Load New Firmware in the BCS Camera (BCS Client Application)

DelPro Xtra

- Handling Licensing for the BCS Camera System

BCS Camera

- Client Application
 - View the cows passing through and calculate the BCS value

BCS Baseline for DelPro 5.2

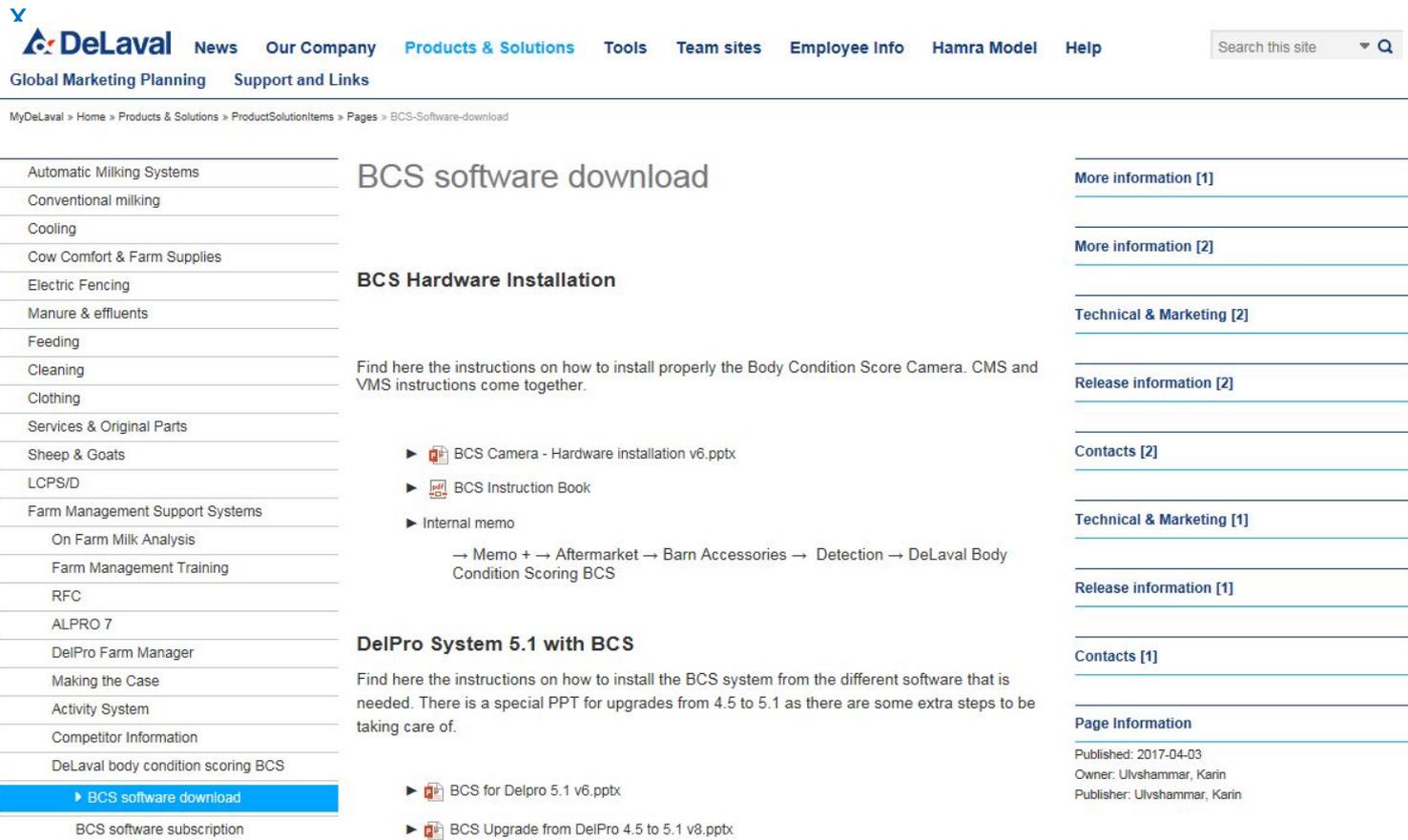
To ensure the BCS system works correctly, follow the BCS software versions below. Please note that this config tool version is different from the one coming on the DelPro 5.2 Master CD.

DelPro Software	• DelPro 5.2 ver. 2016.02.04.005
Configuration Tool	• 4.13.F.005
BCS Software LOM file*	• 2.1.A.004
Farmic Tools (BCS Maintenance Software)	• 2.1
Client Application	• 2.0
DelPro Xtra Software	• 5.1.0.791

BCS Downloads

Please go into this link and download the required software for the installation according to the previous slide

<http://my.delaval.local/ProductsSolutions/ProductSolutionItems/Pages/BCS-Software-download.asp>



DeLaval News Our Company **Products & Solutions** Tools Team sites Employee Info Hamra Model Help

Global Marketing Planning Support and Links

MyDeLaval » Home » Products & Solutions » ProductSolutionItems » Pages » BCS-Software-download

Automatic Milking Systems

- Conventional milking
- Cooling
- Cow Comfort & Farm Supplies
- Electric Fencing
- Manure & effluents
- Feeding
- Cleaning
- Clothing
- Services & Original Parts
- Sheep & Goats
- LCPS/D

Farm Management Support Systems

- On Farm Milk Analysis
- Farm Management Training
- RFC
- ALPRO 7
- DelPro Farm Manager
- Making the Case
- Activity System
- Competitor Information
- DeLaval body condition scoring BCS
- BCS software download**
- BCS software subscription

BCS software download

BCS Hardware Installation

Find here the instructions on how to install properly the Body Condition Score Camera. CMS and VMS instructions come together.

- ▶  BCS Camera - Hardware installation v6.pptx
- ▶  BCS Instruction Book
- ▶ Internal memo
 - Memo + → Aftermarket → Barn Accessories → Detection → DeLaval Body Condition Scoring BCS

DelPro System 5.1 with BCS

Find here the instructions on how to install the BCS system from the different software that is needed. There is a special PPT for upgrades from 4.5 to 5.1 as there are some extra steps to be taking care of.

- ▶  BCS for Delpro 5.1 v6.pptx
- ▶  BCS Upgrade from DelPro 4.5 to 5.1 v8.pptx

More information [1]

More information [2]

Technical & Marketing [2]

Release information [2]

Contacts [2]

Technical & Marketing [1]

Release information [1]

Contacts [1]

Page Information

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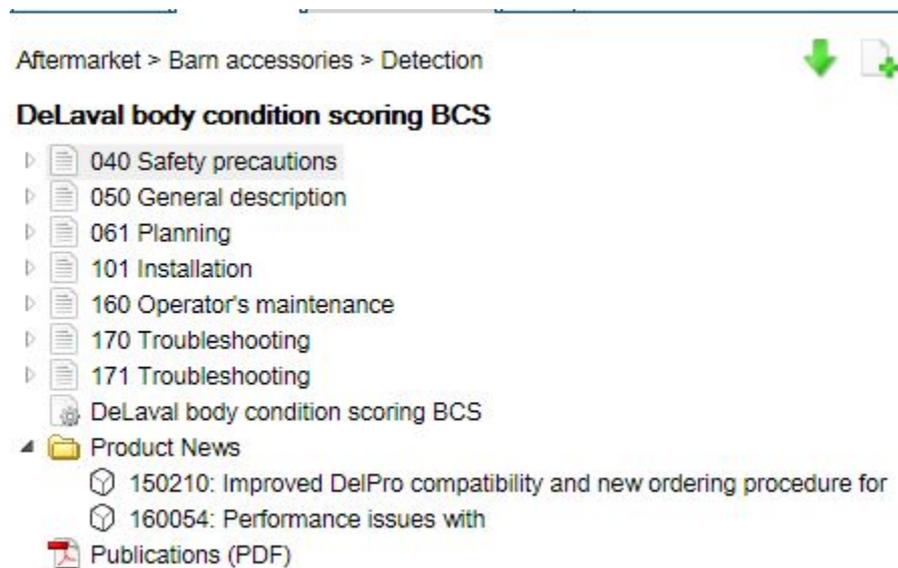
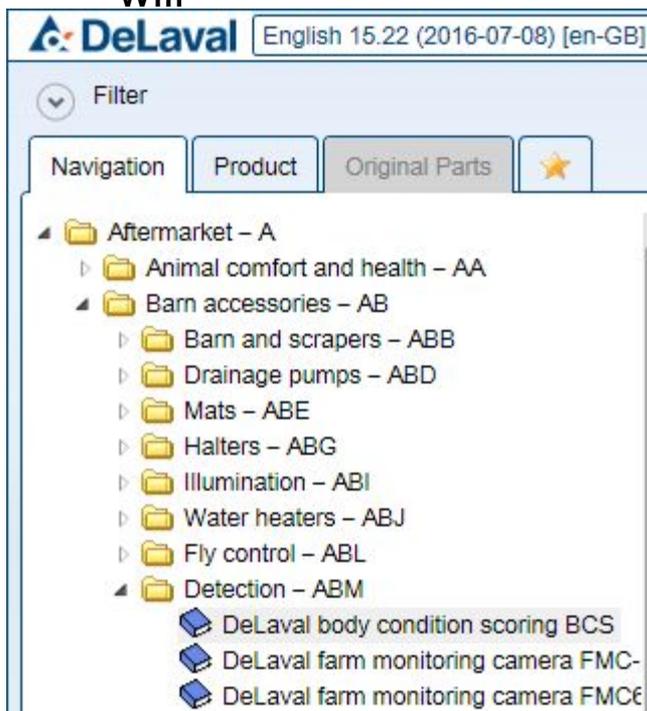
Installation Procedure

1. Hardware installation
 - 1.1 Check the MEMO
 - 1.2 Check the Power Point Presentation BCS Camera – Hardware Installation
2. Farmic Tools Software
 - 2.1 Install the BCS Maintenance
 - 2.2 Open BCS Maintenance
 - 2.3 Check BCS Client Application
 - 2.4 Upgrade BCS Client Application
 - 2.5 Kernel Upgrade
 - 2.6 BCS File system upgrade
3. DelPro 5.2
 - 3.1 Installing DelPro 5.2
 - 3.2 ID source for BCS
 - 3.3 BCS Camera Settings
 - Configuration tool
 - 4.1 Installing Configuration Tool
 - 4.2 Installing BCS Software in the SC
 - Synchronize DelPro and System Controller Software's
 - DelPro Xtra installation for license

1. Hardware Installation

1.1 - Check the MEMO+

Here
you
will



a
hardw
are.

1. Hardware Installation

1.2 – Check PPT BCS Camera – Hardware Installation

Please go to the download site and get the power point presentation where is explained all the details on the hardware installation for the BCS camera.

<http://my.delaval.local/ProductsSolutions/ProductSolutionItems/Pages/BCS-Software-download.aspx>

BCS software download

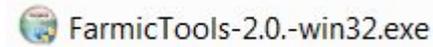
BCS Hardware Installation

Find here the instructions on how to install properly the Body Condition Score Camera. CMS and VMS instructions come together.

▶  BCS Camera - Hardware installation v6.pptx

2. Farmic Tools

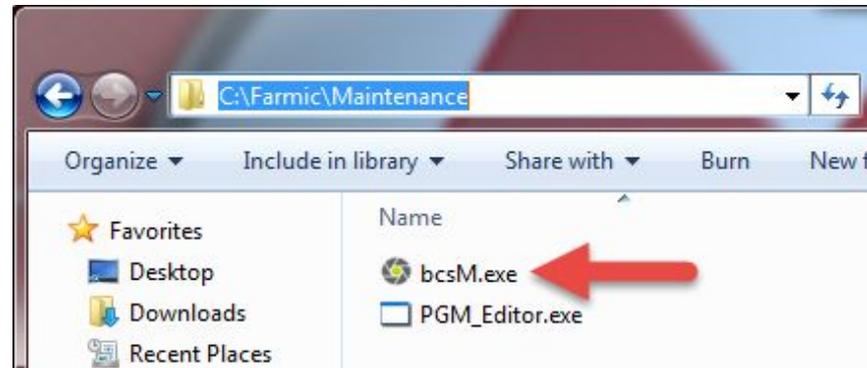
2.1 - Install Farmic Tools



- Run As Administrator:
- Once Installed go to:
 - C:\Farmic\Maintenance

2.2 – Open BCS Maintenance software

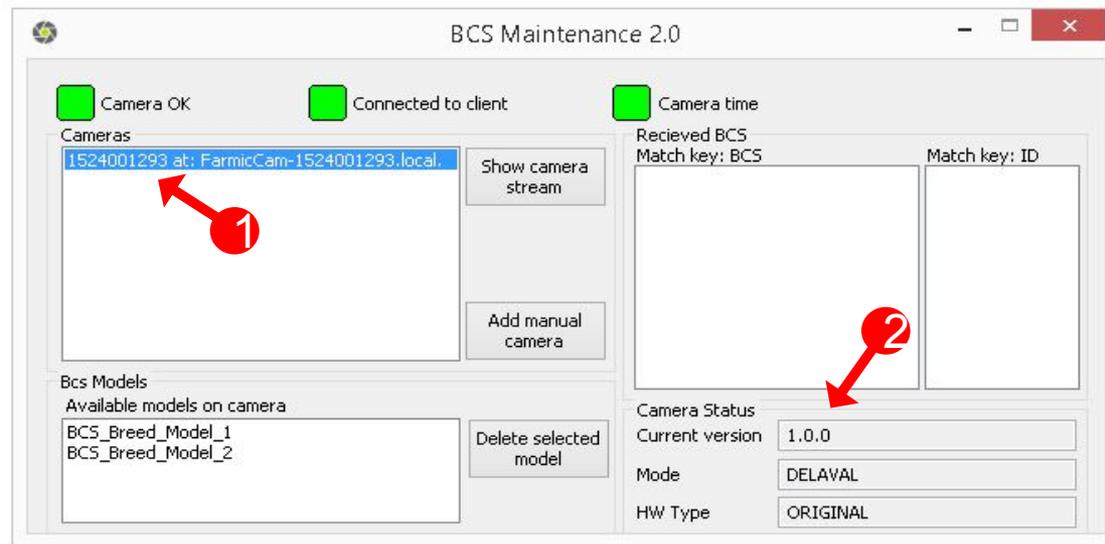
- Run: bcsM.exe



2. Farmic Tools

2.3 - BCS Maintenance Check “BCS Client Application”

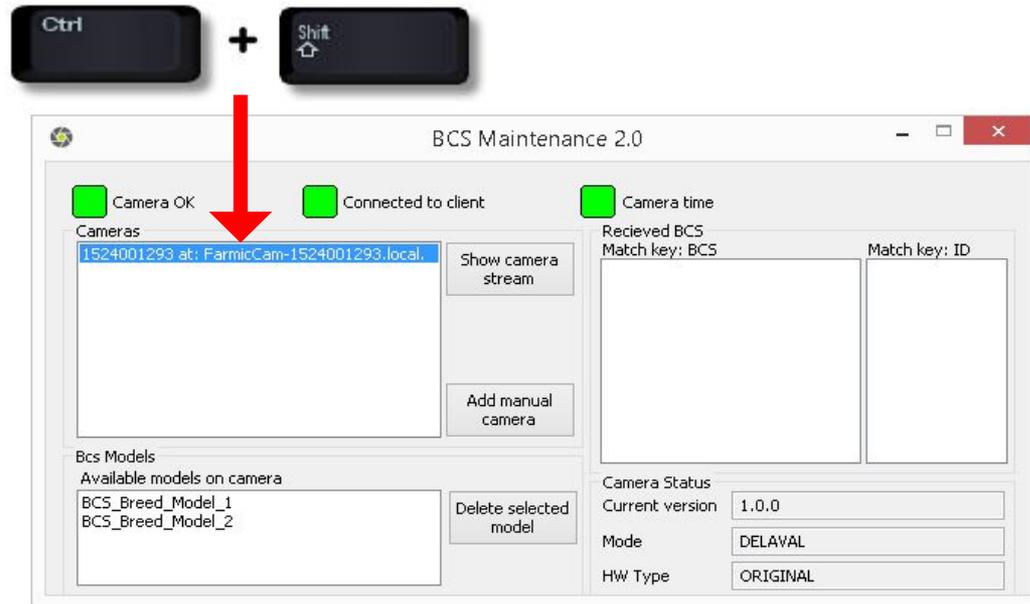
- Be sure that the BSC Camera is connected to the electric power and the Network.
- Once this is done:
 - Select the Camera on the “Cameras” section
 - Check **”Current Version”**. This version indicates the BCS client Application working on that camera.
 - **Version must be 2.0.0 or higher**
 - **If the version is not as required, you need to upgrade it. Follow the instructions on the next slide**



2. Farmic Tools

2.4 - BCS Maintenance Upgrade “BCS Client Application”

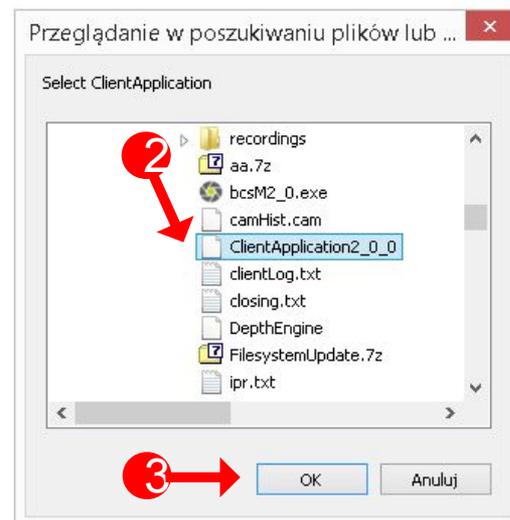
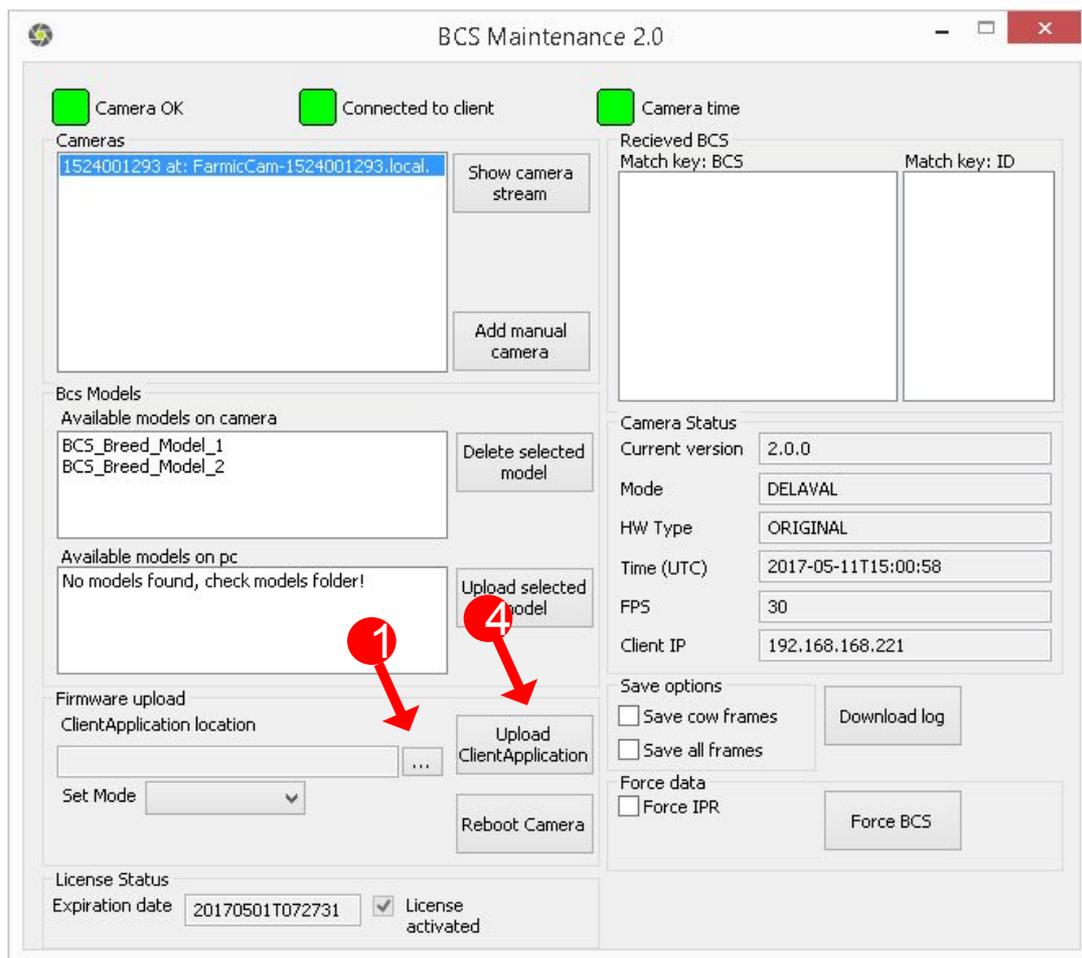
- Be sure that the BSC Camera is connected to the electric power and the Network.
- Be sure that you had downloaded the BCS Client Application from the download site
- Press Ctrl + Shift keys and do left click over the Camera that you want to upgrade



2. Farmic Tools

2.4 - BCS Maintenance Upgrade “BCS Client Application”

- An Extended Windows will be open, follow the next steps:



Once you click “Upload Client Application” it will take around 5 minutes to load the new Firmware. The BCS Camera will disappear from the Cameras Section and I will show again with the new “BCS Client Application” version number

2. Farmic Tools

2.5 - Kernel Upgrade

All DeLaval body condition scoring BCS cameras with serial numbers starting with: "1523", "1524", and "1531" are affected by a kernel bug that needs to be fixed by an update.

The faulty cameras may not start in cold conditions or may stop working during normal runtime.

All the affected cameras should be upgraded remotely by Farm Support DeLaval International AB or can be upgraded by your own according to the BCS troubleshooting ppt.

2. Farmic Tools

2.6 – BCS File system Upgrade

All DeLaval body condition scoring BCS cameras connected with the UBIQUITI network equipment has to be upgraded by the File system Upgrade.



3. DelPro 5.2 Software

3.1 Installing DelPro 5.2

- The BCS Module is available for Cow:
 - Parlor
 - VMS / AMR
- Select the “With BCS Camera” option
- Remember to select other modules if they are needed / installed at the farm

Milking Systems

System*	Name*	Units*
Parallel	P2100	2X20

Peripheral Systems

<input checked="" type="checkbox"/> Activity System	<input type="checkbox"/> Herd Navigator System	<input type="checkbox"/> Weigh System
<input checked="" type="checkbox"/> BCS Camera System	<input type="checkbox"/> IDD System	<input checked="" type="checkbox"/> TAI - Timed Artificial Insemination
<input type="checkbox"/> Feed Wagon System	<input type="checkbox"/> Optimat System	<input type="checkbox"/> DelPro Mega Dairy
<input checked="" type="checkbox"/> Feeding (FS/CF) System	<input checked="" type="checkbox"/> Sort System	<input type="checkbox"/> DelPro Multi Herd

* All items marked with asterisk(*) are mandatory

Farm Data

Farm:	Data	Owner:	Data
Farm Name*	Test Farm	Owner Name*	Fms Team
Description	Delaval Bcs Test Farm	Email Address*	
Herd Size*	200	Phone*	
Animal Type*	Cow	Mobile	
Animal Breed*	Holstein Friesian		
Units*	Metric		
Upgrade From*			
Install Type*	Server		

Address:	Data
Country*	
Admin Region*	
Address1*	
Address2	
City*	
State / Province*	
Postal (Zip) C...	

* All items marked with asterisk(*) are mandatory

3. DelPro 5.2 Software

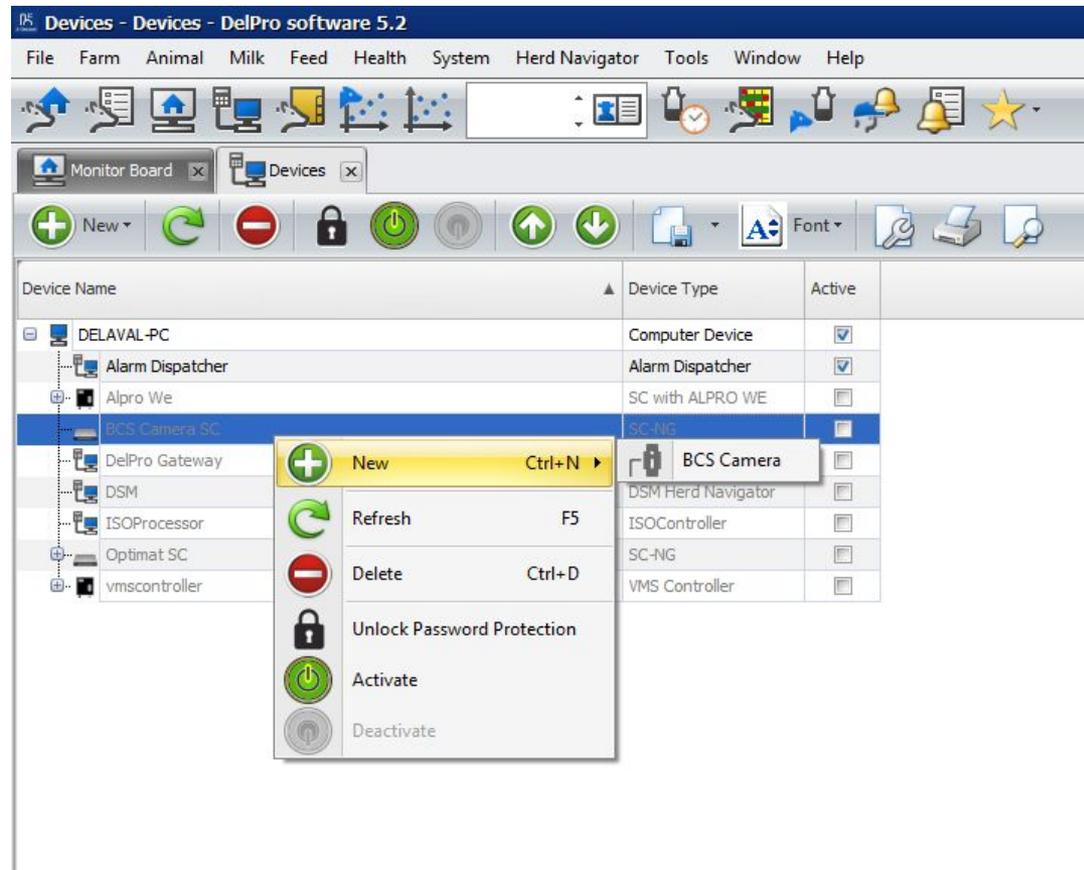
3.1 Installing DelPro 5.2

- Then the DelPro Installation will need to finish in order to proceed
- Remember to follow the instructions on the IMPORTANT READ ME file inside the DelPro Farm Management Software 5.2 and install the patches needed.

3. DelPro 5.2 Software

3.2 ID source for BCS camera

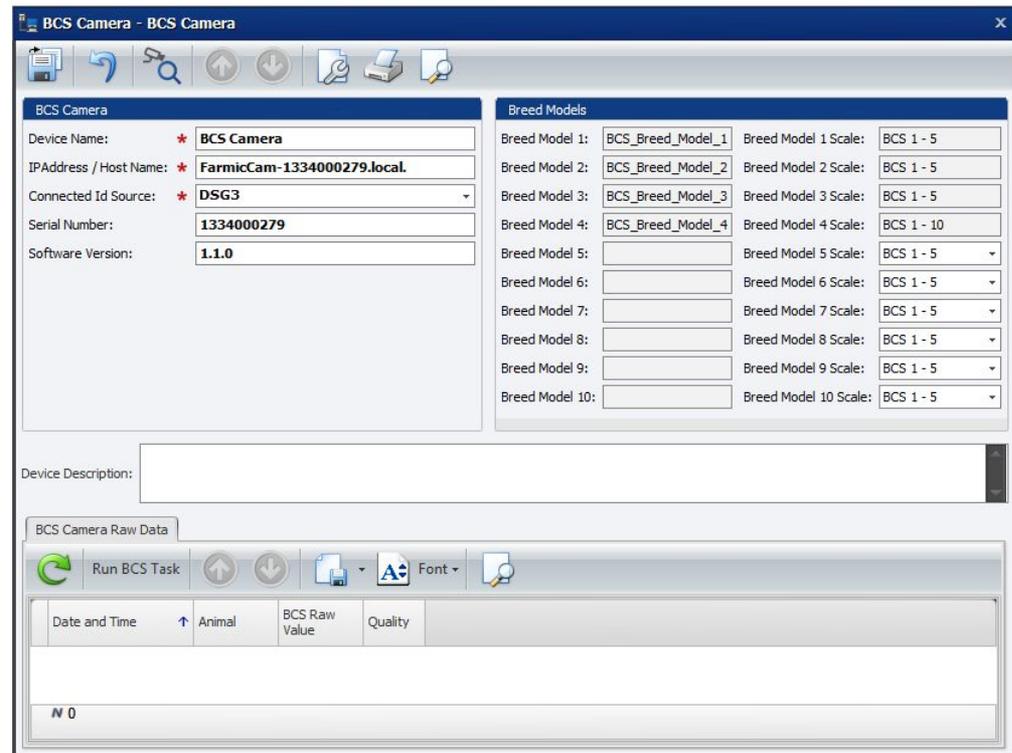
- Ensure the device where the camera is physically mounted was created:
 - VMS Device
 - MS
 - SSG
 - Parlour Device
 - DSG
- This will act as the “ID Source” when setting up the BCS configuration
- Be sure that these devices are Deactivated
 - DelPro Gateway
 - SC With AWE
 - VC
- Do right click on BCS Camera SC
- Select New
- Select BCS Camera



3. DeIPro Software

3.3 BCS Camera Settings

- Device Name
- IP Address / Hostname:
 - Click the Icon to Search and Find the BCS Camera over the network
- Connected ID Source:
 - Select the device where the camera is mounted. This will be the ID device for the BCS Camera System
- Serial Number:
 - Copy it from the Host Name field and paste it here (see image on the right)
- Software Version:
 - From BCS Maintenance Software, highlight the camera and copy the Software Version from the “current version” field.
- Save and Close

The screenshot shows the 'BCS Camera - BCS Camera' configuration window. It is divided into several sections:

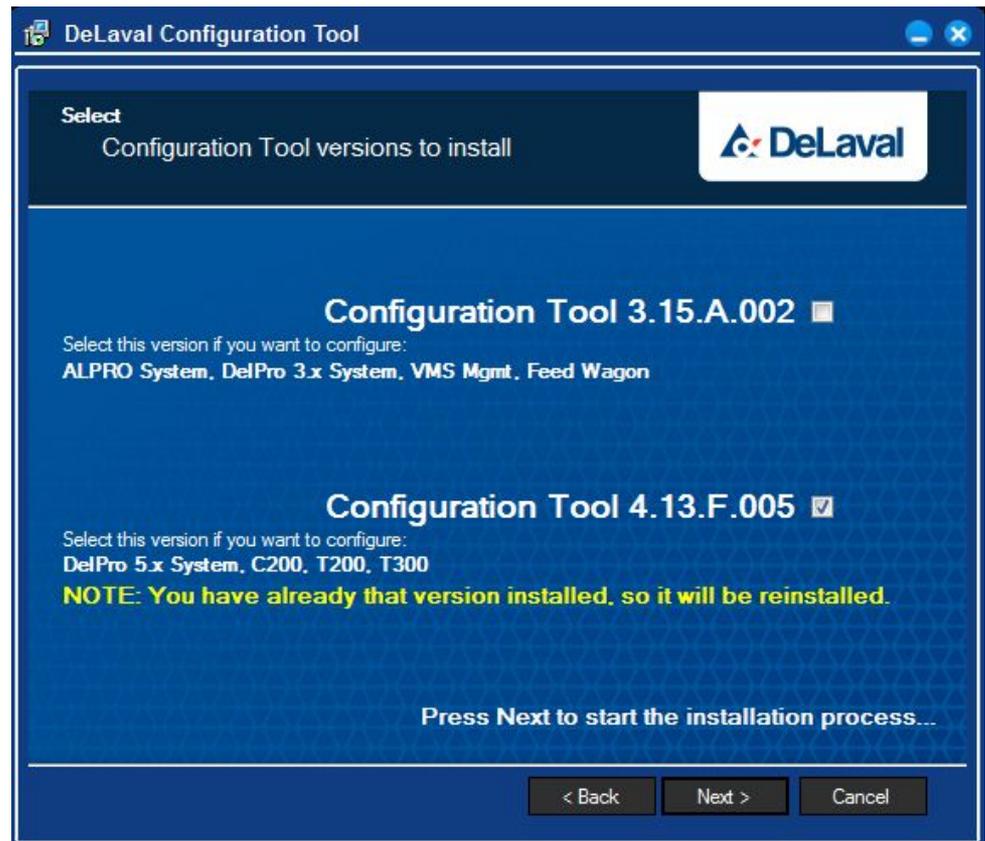
- BCS Camera:** Contains fields for Device Name (BCS Camera), IP Address / Host Name (FarmicCam-1334000279.local), Connected Id Source (DSG3), Serial Number (1334000279), and Software Version (1.1.0).
- Breed Models:** A table with 10 rows, each containing a Breed Model name and its corresponding Scale.

Breed Model	Scale
BCS_Breed_Model_1	BCS 1 - 5
BCS_Breed_Model_2	BCS 1 - 5
BCS_Breed_Model_3	BCS 1 - 5
BCS_Breed_Model_4	BCS 1 - 10
BCS_Breed_Model_5	BCS 1 - 5
BCS_Breed_Model_6	BCS 1 - 5
BCS_Breed_Model_7	BCS 1 - 5
BCS_Breed_Model_8	BCS 1 - 5
BCS_Breed_Model_9	BCS 1 - 5
BCS_Breed_Model_10	BCS 1 - 5
- Device Description:** An empty text field.
- BCS Camera Raw Data:** A table with columns for Date and Time, Animal, BCS Raw Value, and Quality. The table is currently empty.

4. Configuration Tool

4.1 Installing Configuration Tool

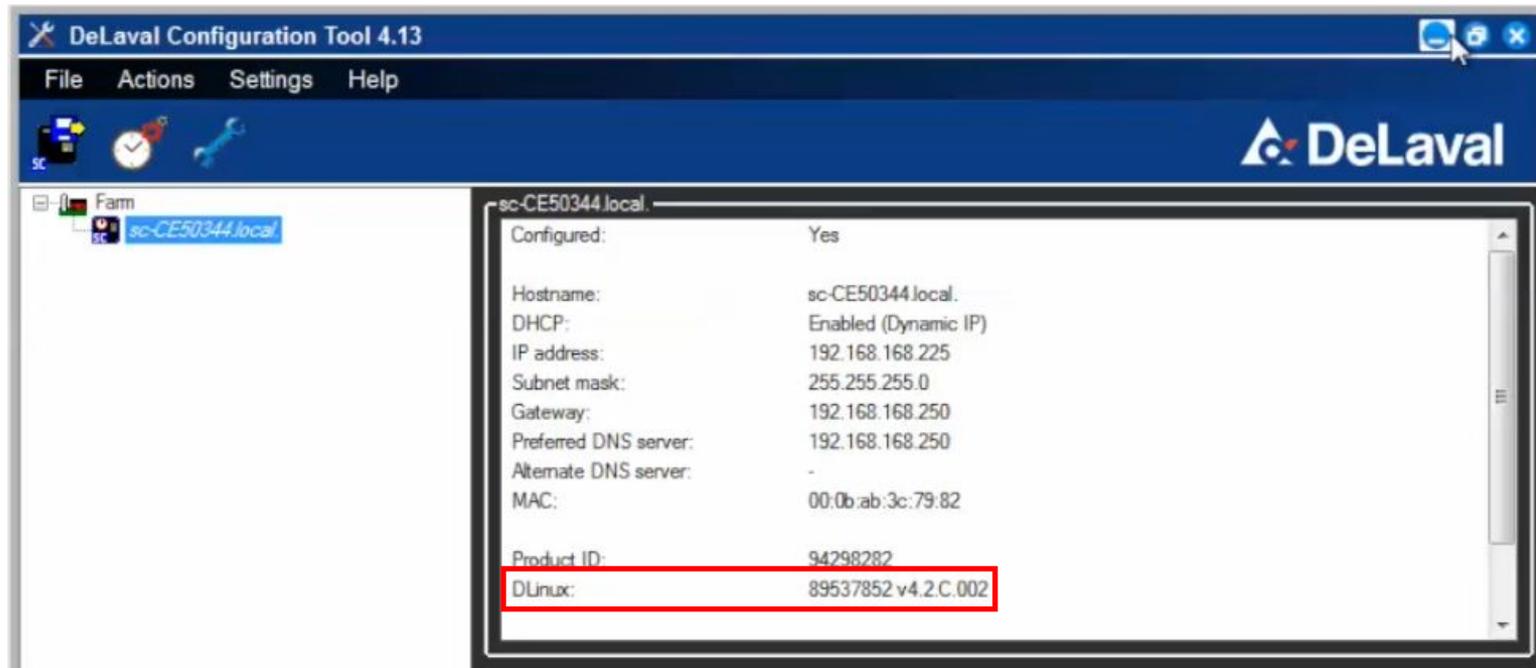
- Make sure to install the correct version according to the Baseline



4. Configuration Tool

4.2 Installing BCS Software in the SC

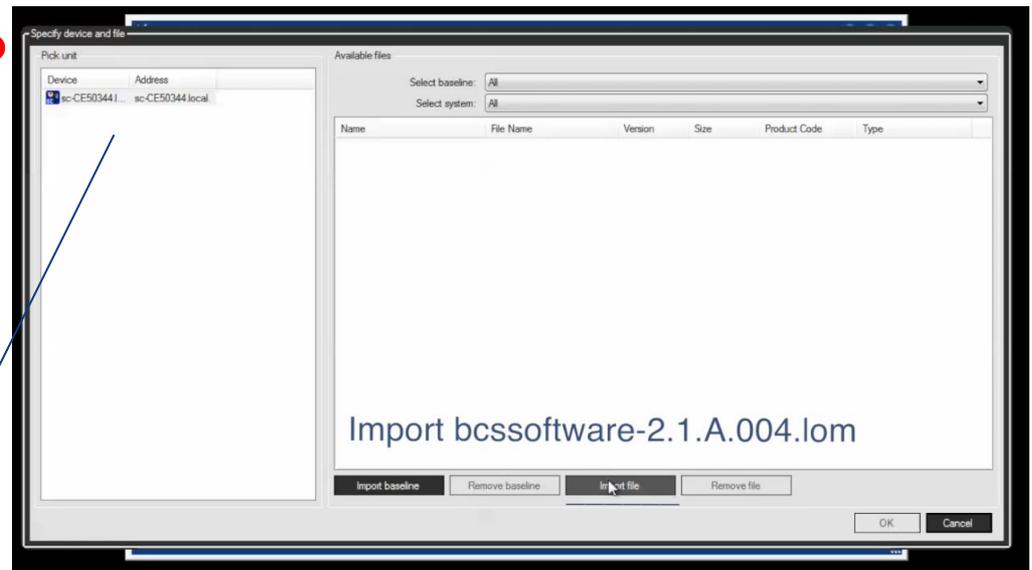
- Before loading the BCS software (.lom file) ensure the d-linux installed is the latest one (4.2.C.002) and install it first. D-linux installation will white up all the installed components like Alpro WE, VC or BCS.



4. Configuration Tool

4.2 Installing BCS Software in the SC

- **Before Loading the BCS Software make sure DelPro Gateway, SC with AWE, BCS camera SC and VC Devices in DelPro are De-Activated during the complete Loading / Installation**
- Search and Select the “System Controller” where the BCS Software will be Installed
- Select the BCS Software according to the version required by the Baseline
- **BCS Software 2.1.A.004**

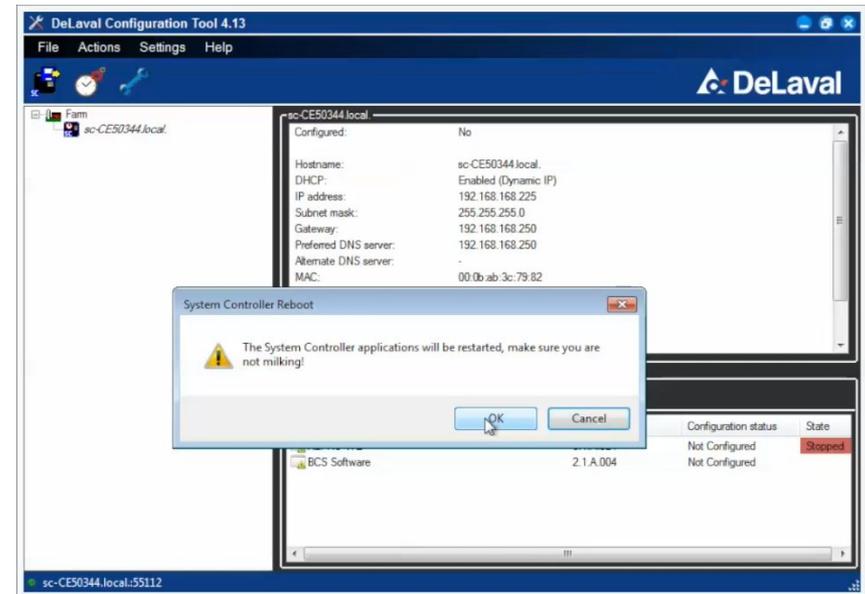
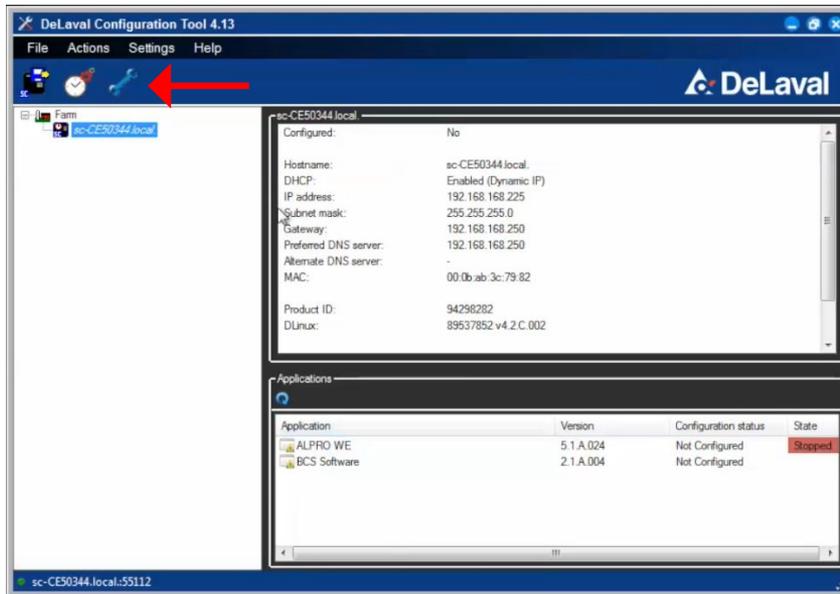


Attention: During the installation you will loose the communication with the SC for 15-20min. Do not Reboot or Disconnect the SC and the PC from the Power or Network

4. Configuration Tool

4.2 Installing BCS Software in the SC

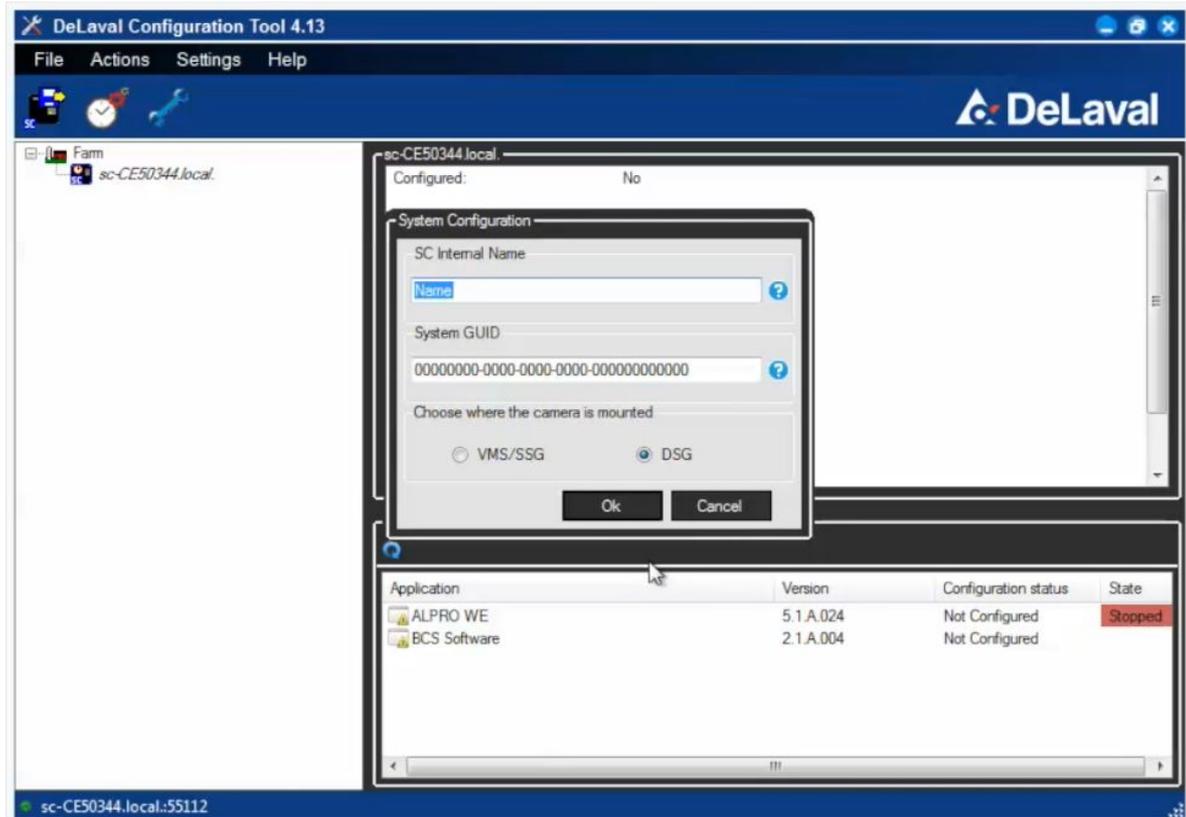
- Once the BCS Software is loaded, on the Applications section will appear AWE and BCS as Not Configured
 - click the Configure Icon



4. Configuration Tool

4.2 Installing BCS Software in the SC

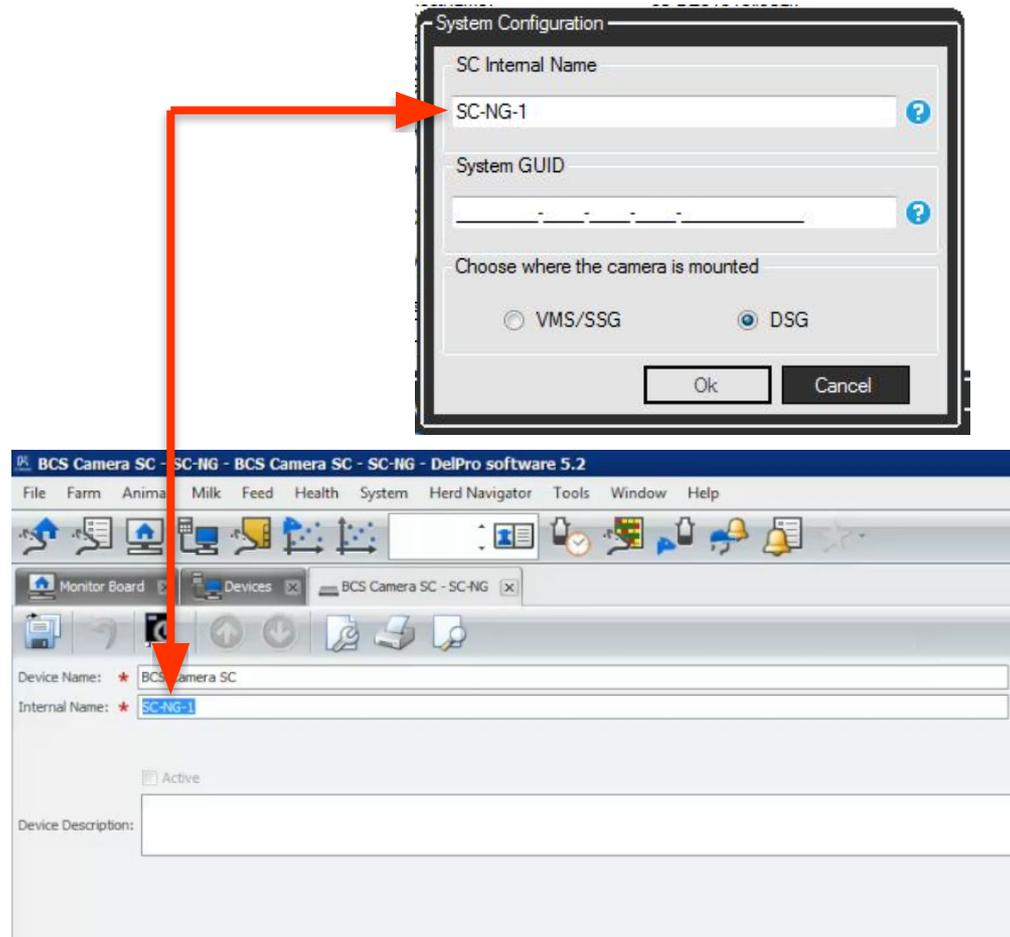
- The system configuration window will pop up and ask for:
 - SC Internal Name
 - System GUID
 - Where the camera is mounted
- Check the following slides.



4. Configuration Tool

4.2 Installing BCS Software in the SC

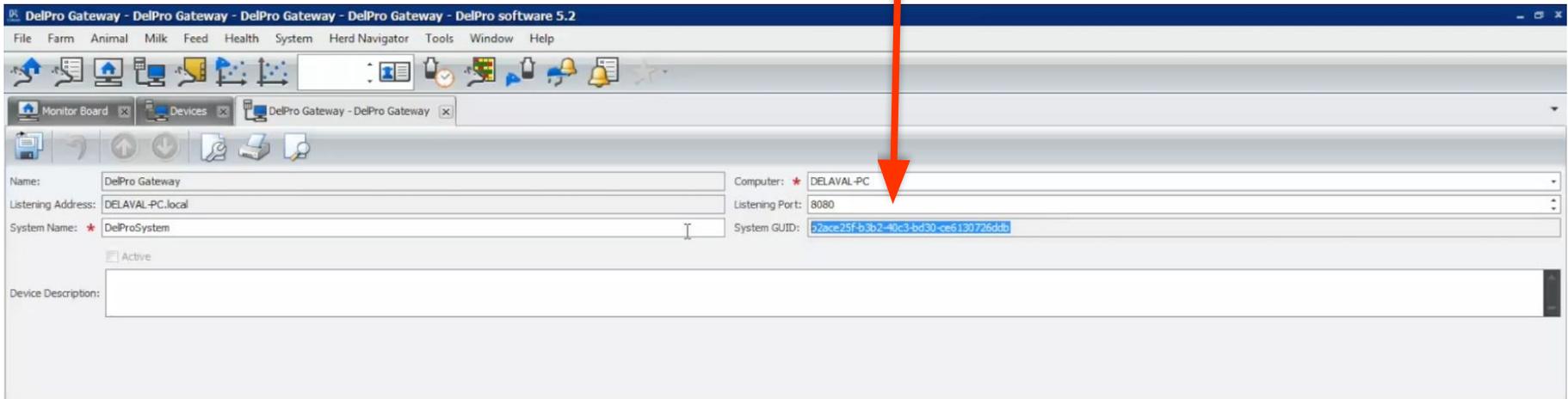
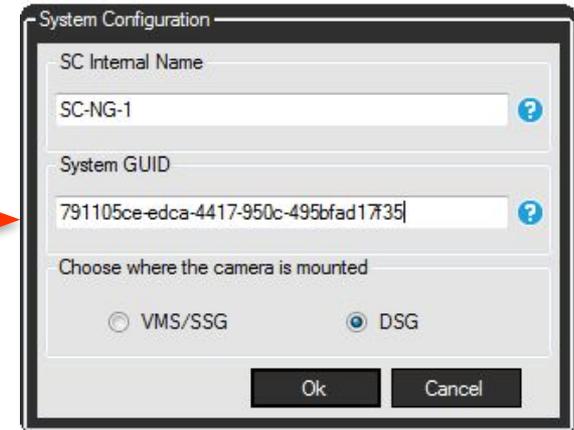
- SC Internal Name.
- You need to copy this name from BCS camera SC on DelPro Device Tree (see slide 19)
- Usually It is SC-NG-1



4. Configuration Tool

4.2 Installing BCS Software in the SC

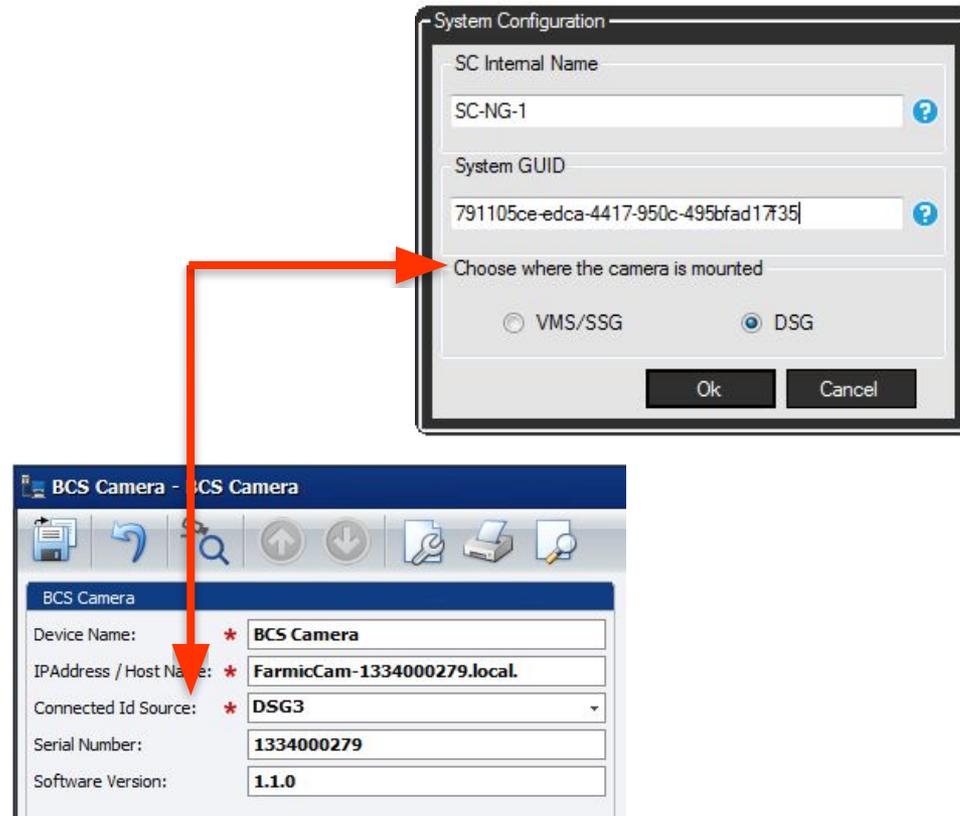
- System GUID:
- You need to copy this name from the Gateway on DelPro Device Tree.
- It shall be exactly the same name as it is in DelPro Gateway Device



4. Configuration Tool

4.2 Installing BCS Software in the SC

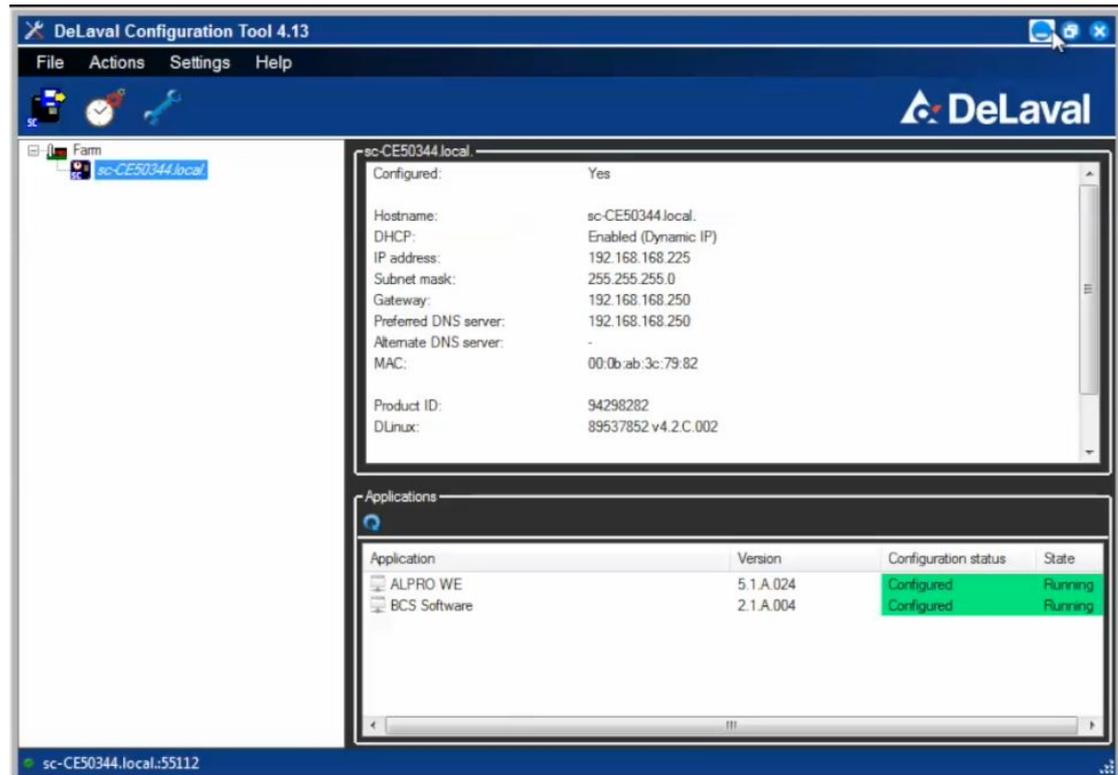
- Choose where the Camera Is mounted:
 - This must match with the ID Source for the BCS Camera under the Device Tree on DelPro
- AMS Installation:
 - Select VMS / SSG
- CMS Installation:
 - Select DSG
- Click OK and wait for the system to finish the configuration



4. Configuration Tool

4.2 Installing BCS Software in the SC

- Once Configuration Tool finish the Process of Configuration (approximately will take 5 minutes)
- The AWE and BCS Software will change to:
 - Configured and Running

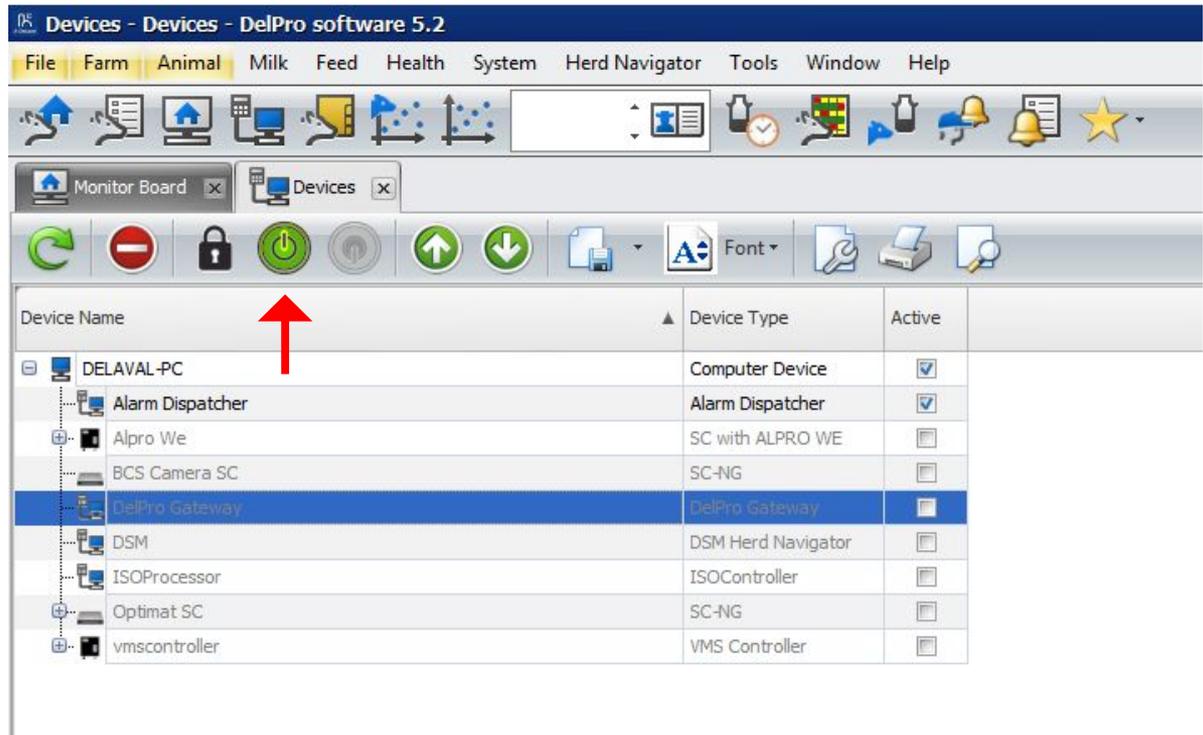


5. Configuration Tool and DelPro Software Synchronizing DelPro and BCS Software

To do the First Synchronization it is needed to do the following steps in this specific order:

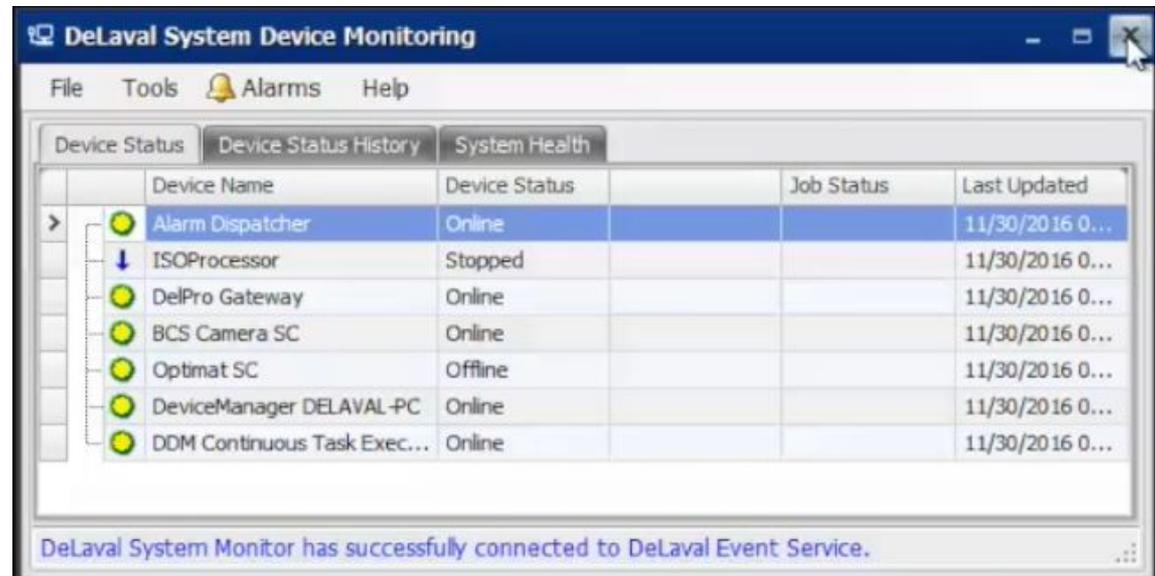
1. In DelPro:

1. **Activate “BCS Camera SC”**
2. **Activate “DelPro Gateway”**
3. **Activate “Alpro WE or/and VC devices”**



5. Configuration Tool and DelPro Software Synchronizing DelPro and BCS Software

2. **Wait until DelPro Gateway and BCS Camera SC have 100% synchrony on System Monitor.**



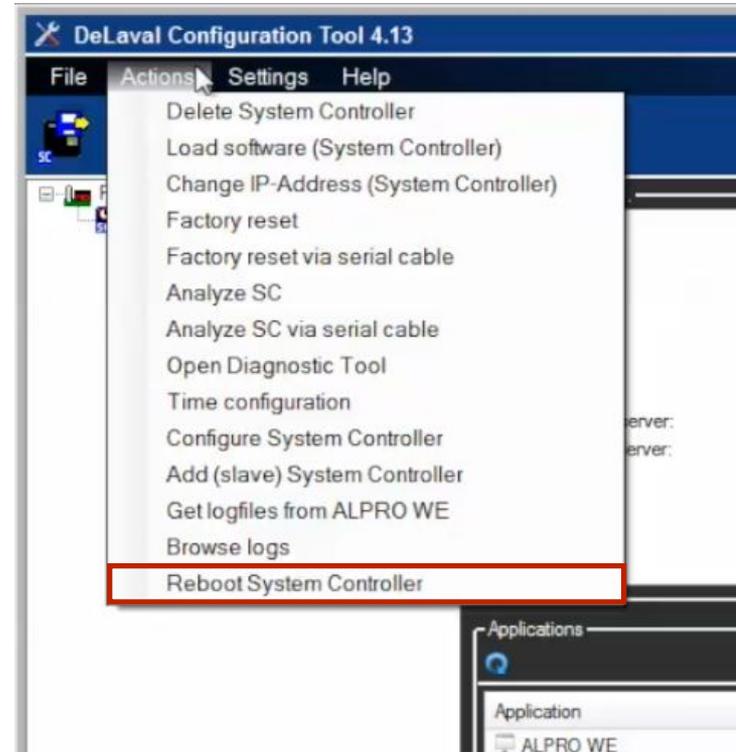
5. Configuration Tool and DelPro Software Synchronizing DelPro and BCS Software

2. Go to Configuration Tool:

1. Reboot the System Controller

3. Wait until all Devices are Synchronized 100% and Online under DelPro System Monitor again

4. DONE



Attention: DelPro System Monitor will generate an alarm of disconnection during this process since we manually reboot the SC. This is expected and normal on this situation.

6. DelPro Xtra Installation for license

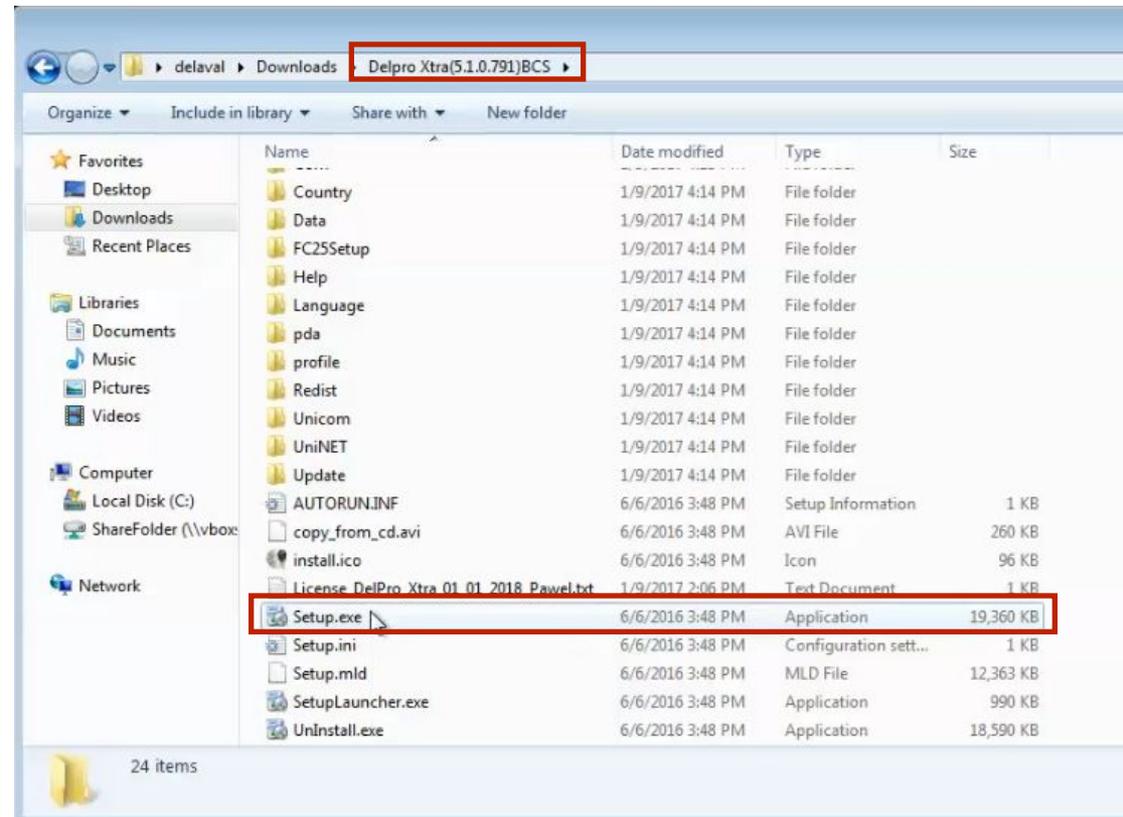
If you have the Delpro Xtra license already
(for ISO Link for instance)

After ordering the new subscription in SAP for BCS inform the Farm Support DeLaval International AB. Include the old license number and the new one in the ticket.

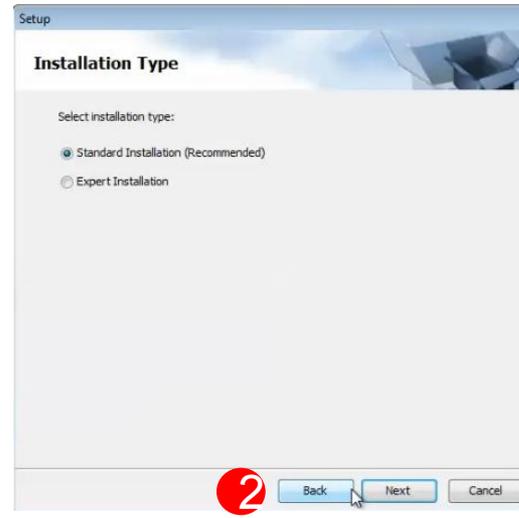
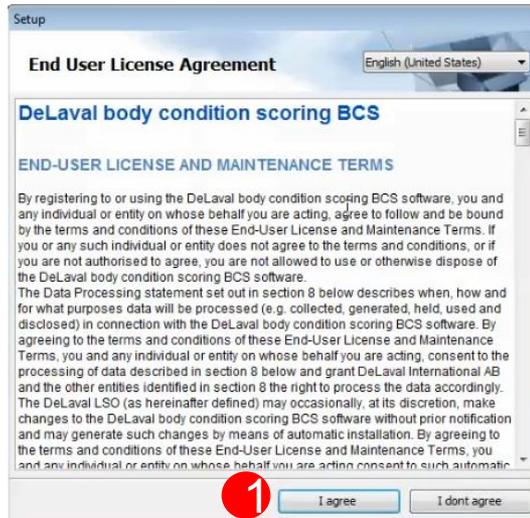
We will contact the Unirom Agri and extend the old license for new functionality

6. DelPro Xtra Installation for license

- Order DelPro Xtra software subscription in SAP
- Uniform Agri will send an e-mail with the license key to the e-mail address entered in the order.
- Run the setup as Administrator

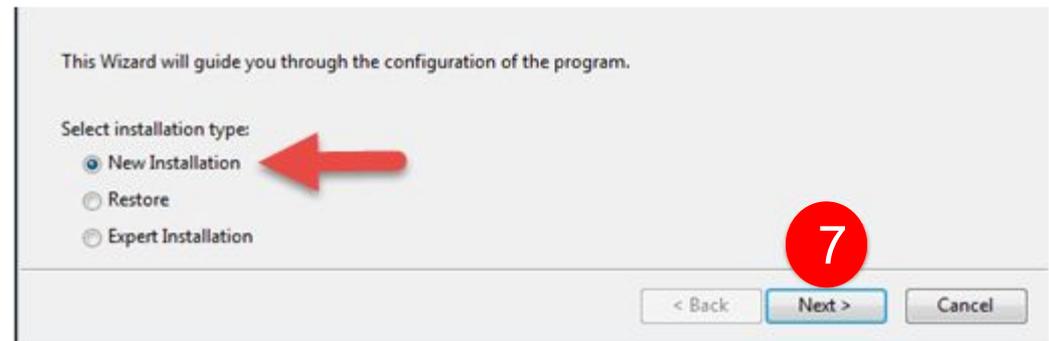


6. DeIPro Xtra Installation for license



6. DelPro Xtra Installation for license

- It will Prompt to Restart the PC: click YES
- Once Restarted:
 - Open DelPro Xtra
 - The License will be updated
 - Click Finish when done.
- Select New installation and click Next



6. DelPro Xtra Installation for license

- Fill Up the Required Data
- Herd Number:
 - UBN (Unique Herd Number)

Please enter herd information in order to create a new database:

Herd Name

Herd Number



< Back **Next >** Cancel

Name :

Address :

Zipcode:

Town :

Country :

Telephone :

Fax :

eMail :

I do not have an email address



< Back **Next >** Cancel

6. DelPro Xtra Installation for license

- Do Not Check:
 - UniNET DataSafe
 - International Farm Comparison
- Select the Country where is installed
- DONE

International Farm Comparison

The International Farm Comparison system is a revolutionary tool which allows you to compare and analyse your results and figures with other farms in your region, country and even world-wide!

Country: Netherlands
Region:
Feeding System:
Feed Supplier:
ParLOUR Type:
ParLOUR Brand:
Milkings per day:
Milk Buyer:
Soil type:
Breed Type:
Stable Type:
Farm Type:
 Grazing

Sensors:
 Conductivity
 Activity
 Temperature

Process Computers:
 Feed station
 Milkmeter Recordings

< Back **Next >** Cancel

UniNET DataSafe

The UniNET DataSafe feature allows you to automatically create a safety-backup of your valuable data online. When your data gets damaged, or your system crashes, you can easily get your recent backup back.

< Back **Next >** Cancel

Herd Number: 1
Country: Netherlands

< Back **Next >** Cancel

After installation run the Delpro Xtra to enable automatic license activation

Congratulations

You have installed the BCS Camera System

Navn på enhet: * FarmicBCSCam

IPAddress/vertsnavn: * FarmicCam-1450000843.local

Tilkoblet Id-kilde: * 21

Serienummer: 1450000843

Programvareversjon: 1.1.0

Utstysbeskrivelse:

BCS-kameraets rå-data

Dato og tid	Dyr	BCS rå-verdi	Kvalitet
> 07.07.2016 15:08:10	1080	3,56	0,98
07.07.2016 14:55:15	1080	3,54	0,98
07.07.2016 14:49:27	1068	3,42	0,98
07.07.2016 14:49:05	1046	3,05	0,98
07.07.2016 14:48:30	1065	3,54	0,98
07.07.2016 14:48:08	1080	3,49	0,98

The first data can be seen in DelPro after a while in the Device Tree BCS Camera

BCS data will assign to the cow and appeared in the cow card after the DateShift (midnight)

Thank you

