

# **TECH NOTE #004:: GOM Aramis integration in catman**

Version: 2020-06-24 Status: public

## Abstract

This Tech Note describes how to integrate the GOM Aramis system into a catman measurement.

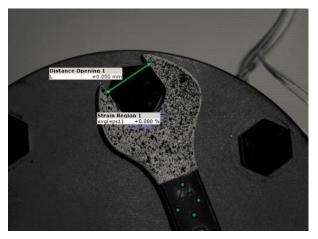
### Prerequisites

- catman AP Version >= V5.2; The support is included in catman AP only, not in catman Easy
- Aramis Version >= Aramis Professional 2017
- Before starting in catman the Aramis system must be fully configured and a measurement is running. When starting with catman no further configuration changes in Aramis are allowed, e.g. add or delete measurement points.
- The SCPI interface must be enabled for communication with catman

#### Workflow

1. Before you start with catman make sure that the Aramis system is fully configured and running. This means all measurement points have been defined and SCPI interface is enabled.

Wait for		
Measuring mode	Fixed frame rate *	5 Hz 🛟
Finish at	*	
General settings		-
mage size parti	al image HD	
Repeat measu	ring sequence	
Tracking settings	ngs	
No. of stages	150	\$
Tracking mode	3D view on (frequency op	otimized) 🔹
✓ SCPI server er	abled	



2. Start catman and create a new measurement project

3. In the HBM device manager dialog click on "Add additional devices" and select optical interrogator in the "Create new device" dialog. Enter also the device name which should be displayed for the Aramis system in the catman DAQ channel list and enter the IP address of the device.

an HBK company

Firmware .4.0
23
ort
ort

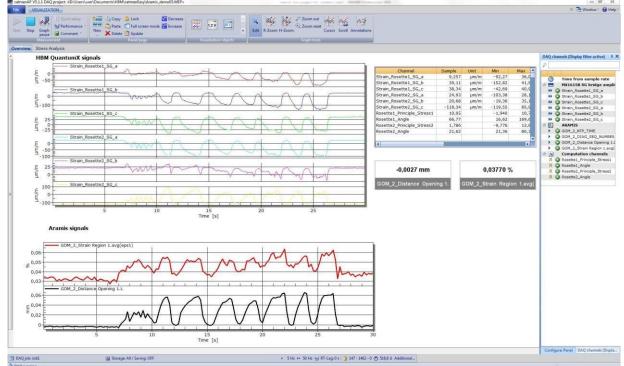
→ After click on OK catman adds the device to the available devices and tries to establish a connection. If connection was successful a green bullet is displayed next to the device, if not a red bullet is displayed. In case the connection was not successful please check if network cables are correct connected, IP address is correct and SCPI interface is enabled.

4. Now select QuantumX modules and Aramis HW in HBM device manager and click on "Connect"
 → All QuantumX and Aramis channels are displayed in the Channels table

DAQ CHANNELS VIDEO DA	Q JOBS VISUALIZATION DATAVIEWE	R SENSOR DATABASE		
t ment	y Default W Fast Sample rates/filter			
re DAQ channels Devices: 2 Hardwar Channel name	e channels: 20 Computation channels: 4 [E Reading	Sample rate/Filter	Sensor/Function	Zero value
MX1615B SG bridge amplifier				
Strain_Rosette1_SG_a	😝 10,36 μm/m	▶ 50 Hz / BE 5 Hz (Auto)	😅 SQ quarter bridge 120 Ohm, 4-wire circuit	-904,25 µm/m
Strain_Rosette1_SG_b	🤗 41,17 µm/m	>> 50 Hz / BE 5 Hz (Auto)	SG quarter bridge 120 Ohm, 3-wire circuit	-1152,7 µm/m
Strain_Rosette1_SG_c	🥘 39,99 μm/m	50 Hz / BE 5 Hz (Auto)	😅 SG quarter bridge 120 Ohm, 3-wire circuit	-2326,8 µm/m
Strain_Rosette2_SG_a	🤗 28,46 μm/m	▶ 50 Hz / BE 5 Hz (Auto)	SG quarter bridge 120 Ohm, 3-wire circuit	-1305,3 µm/m
Strain_Rosette2_SG_b	🦲 21,60 µm/m	▶ 50 Hz / BE 5 Hz (Auto)	🛒 SG quarter bridge 120 Ohm, 3-wire circuit	-1195,1 µm/m
🖬 Strain_Rosette2_SG_c	🤤 -116,7 μm/m	▶ 50 Hz / BE 5 Hz (Auto)	😅 SG quarter bridge 120 Ohm, 3-wire circuit	-1296,6 µm/m
ARAMIS [169.254.205.10]     GOM_2_NTP_TIME	😝 1506408697 (26.09.2017 06:51:37) s	▶ 5 Hz / Filter: Off	Optical camera system	0,00000 s
GOM_2_DIAG_SEQ_NUMBER	€ 438,0	5 Hz / Filter: Off	🙇 Optical camera system	0,00000
GOM_2_Distance Opening 1.L	👄 -0,00432 mm	5 Hz / Filter: Off	🙇 Optical camera system	0,00000 mm
GOM_2_Strain Region 1.avg(eps1)	0,02823 %	5 Hz / Filter: Off	🙇 Optical camera system	0,00000 %
Computation channels				
Rosette1_Principle_Stress1	€ 10,79		ROSETTE~Strain_Rosette1_SG_a~Strain_Ros	€ 0,00000
	66,60		ROSETTE~Strain_Rosette1_SG_a~Strain_Ros	s∈ 0,00000
Rosette2_Principle_Stress2	2,584		ROSETTE~Strain_Rosette2_SG_a~Strain_Ros	
Rosette2_Angle	21,50		ROSETTE-Strain Rosette2 SG a-Strain Ros	

- 5. Configure the same sample rate for Aramis like configured in the Aramis software
- 6. Configure QuantumX system and DAQ job

7. Start measurement



#### Synchronization between QuantumX and Aramis

To synchronize both systems NTP can be used. To do so you have to enable NTP in QuantumX and Aramis and configure the same NTP master.

For the Aramis system the NTP service is running on the testing controller hardware, which must be connected to the same network as the QuantumX.

GOM Testing Contr	oller Web	Interface
-------------------	-----------	-----------

Navigation	Ethernet		
> Home	Liternet		
<ul> <li>Analog In</li> <li>Analog Out</li> </ul>	Network Information		
> Power	MAC address: 00:80:21:25:10:26		
> Trigger In	IP address: 192.168.4.200		
> Trigger Out	Subnet mask. 255,255,255.0		
> Command Log			
> Ethernet	Set IP Address		
<ul> <li>Firmware update</li> <li>Status</li> </ul>	9 192.168.x.x network range: Valid IP range is 192.168.4 - 253.200. The exceptions are 192.168.39.200 and 192.168.40.200		
· Oldida	IP address: 192.168. 4 .200		
nfo	© 10.x.x.x network range: Valid IP range is 10.0 - 254.0 - 254.200		
GOM	IP address: 10. 0 👾 4 👻 200		
GOM GmbH Schmitzstraße 2 D-38122 Braunschweig	Reset to default IP: 192.168.4.200		
Telefon: +49 (0) 531 390 29 - 0 Telefax: +49 (0) 531 390 29 - 15 mail: info@gom.com ittp://www.gom.com	NTP Settings		
	NTP Server Address:		
	192.168.4.1		
	NTP Server Port:		
	123		

#### -- end

**Legal Disclaimer:** TECH NOTEs from HBK are designed to provide a quick overview to a specific topic beside the usual documentation. TECH NOTEs are continuously improved and so change frequently. HBM assumes no liability for the completeness of the descriptions. We reserve the right to make changes to the features and/or the descriptions at any time without prior notice.