Introduction

This application note describes how to update firmware in a Concens icon actuator. Please be sure always to use the latest version of Concens Actuator Studio (CAS). It is not possible to "downgrade" an icon to an older version of the firmware, which is already installed.

Step 1

Start the CAS software. If this the first time CAS is started on a PC, the drivers will automatically be downloaded from the internet.

Scan Addres	ses				
Sconcens Actuator Stu	dio				– 🗆 X
File Config Factory Sp	ecial WWW				
Overview Actuator Se	ervice Graph Factory Setti	ng			
Scan Addresses	No. of actuators:				
Address: 200	● 1 TestTest	Prd: 0x2214E300	Uptime: 0:00:03:39.22	icon50, 24 V, Velocity, F/MDO	
Address: 0	O2 ?	?	?	?, ?, ?, ?	
Address: 0	O3 ?	?	?	?, ?, ?, ?	
Address: 0	O4 ?	?	?	?, ?, ?, ?	
MBA: 200 Uptime: 0:0	0:03:39.222 IDLE	HW \	/er: 1, SW Ver: 4.14		

Press the "Scan Adresses" button

The current firmware-version in the actuator is shown: HW Ver: 1, SW Ver: 4.14



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Step 2

so to the Actuator	tab		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
🎯 Concens Actuator Studio			– 🗆 X
File Config Factory Special WWW			
Overview Actuator Service Graph	Factory Setting		
Pos: 150	Run State: IDLE	Current: 0 mA	
☑ Read and Update	Stop Reason: BUS ERROR	Distance: 150	
Parameters Run Run Parallel E	Extra		
Speed [%]	Current Cutoff [mA], Inwards	H/L Min Speed [% of H/L speed]	Ramp acceleration [ms]
100	6000	50	1333
Home Offset [steps]	Current Cutoff [mA], Outwards	H/L Max Current [mA]	Ramp deceleration [ms]
50	6000	1000	1333
Ramp Down before Target [steps]	Voltage Cutoff [mV], Low	H/L Check Time Limit [ms]	Ramp quick deceleration [ms]
0	9000	1000	666
Safe Zone OUT [steps]	Voltage Cutoff [mV], High	H/L Timeout [s]	
0	29000	240	
Safe Zone IN [steps]	Max. Stroke Length [steps]		Maximum speed [ticks/s]
0	44790		450
			Deadband speed [ticks/s]
			10
			Check Delay, Current, Velocity change [ms]
			250
			Max Current Time Limit [ms]
			250
			Current offset calibration [mA]
		Save/Update	200
MBA: 200 Uptime: 0:00:12:57.485	IDLE H	IW Ver: 1, SW Ver: 4.14	

Note: When performing a "full update", i.e. going from one major firmware number to another, some parameters will be set to default. Please remember to save the data by taking a screenshot or write down the parameters.





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Step 3

JO TO SERVICE TAD	
Soncens Actuator Studio	- 🗆 ×
File Config Factory Special WWW	
Overview Actuator Service Graph Factory Setting	
□ Read and Update	
Config Motor Parameters Export/Import Event Log DFU	
File Transfer:	
Executing:	
Browse File Cancel Send update to Actuator	
DELL File Name: C:\Users\mts\Deskton\cac 511\cac 50 511 dfu	
/IBA: 200 Uptime: 0:00:15:51.111 IDLE HW Ver: 1, SW Ver: 4.14	It.

Press the "Browse File"-button

Browse File

Find the relevant DFU-file for updating the icon.

Note: If selecting the wrong icon DFU file, the actuator may need to go to service.

Now click "Send update to Actuator"

Send update to Actuator





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When booth bars are green, the update is completed.

🎯 Concens Actuator Studio				_	×
File Config Factory Special WWW					
Overview Actuator Service Graph	Factory Setting				
☑ Read and Update					
Config Motor Parameters Export/Im	port Event Log DFU				
File Transfer:					
Executing:					
Browse File	Cancel	Send ur	date to Actuator		
browserne	Cuncer	Send up			
DFU File Name: C:\Users\mts\	Desktop\cac 511\cac_50_5	511.dfu			
MBA: 200 Uptime: 0:00:00:04.051	IDLE HV	W Ver: 1, SW Ver: 5.11			

Verify the update by checking the version number in the bottom of the window

HW Ver: 1, SW Ver: 5.11

The actuator is now upgraded and ready to use!

Please contact <u>support@concens.com</u> for further information.

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