

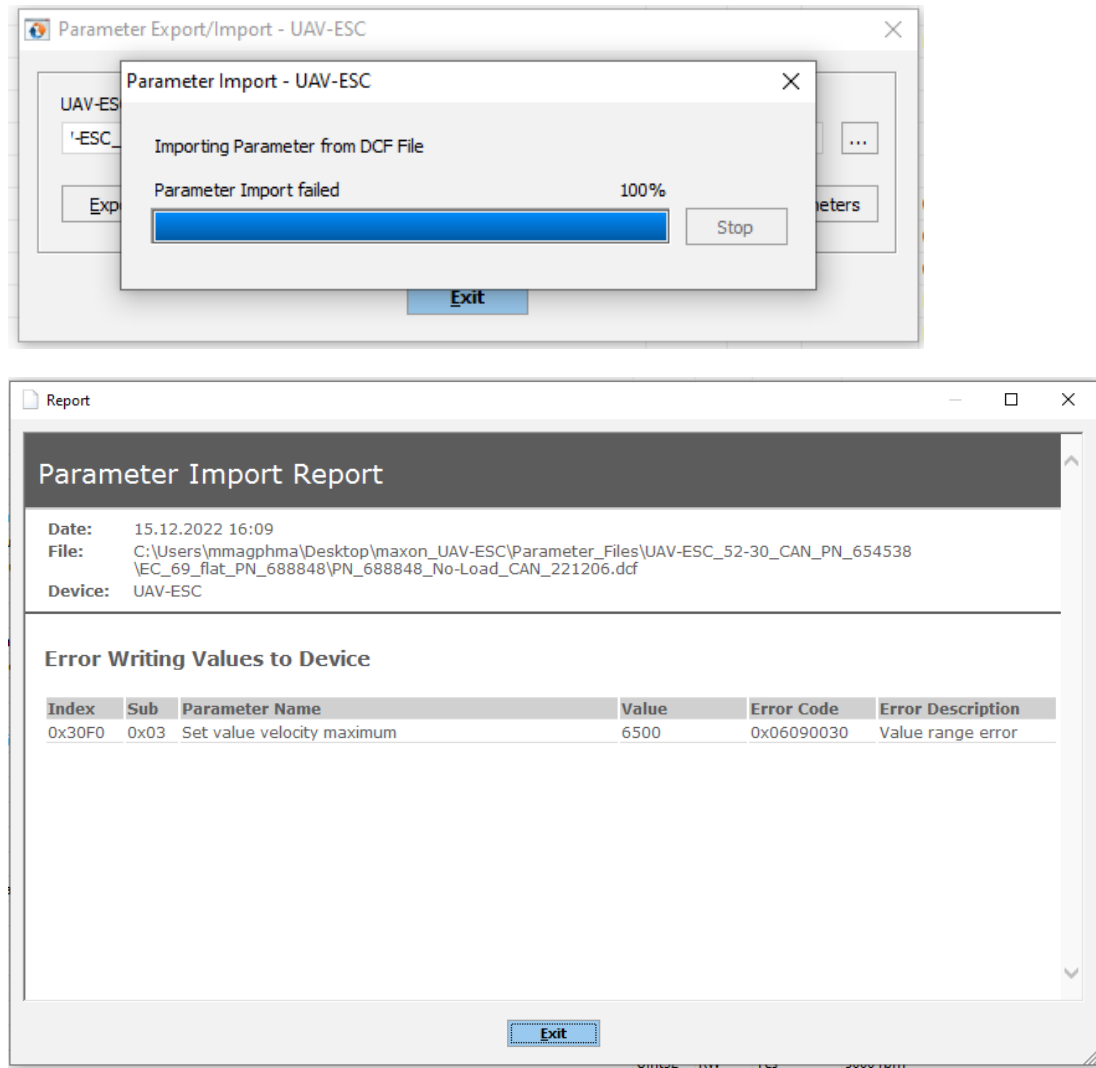
READ THIS FIRST

Important Note

The following document contains additional information regarding **parameter import and parameter calculation for non-maxon products**.

Parameter Import:

Initial parameter import for the UAV-ESC CAN Version P/N: 654538 can lead to the following error message being displayed:



Root cause:

Writing the parameter **[30F0sub03] Set value velocity maximum** failed, because the range of this parameter is limited by parameter **[6080] Max motor speed**.

As the **Set value velocity maximum** parameter will be written before **Max motor speed**, the range might not have been initialized correctly yet.

Solution:

Repeat the parameter import again.

The error should no longer be displayed as the range is now setup correctly.

This problem will be solved with the next firmware release

Parameter calculation for non-maxon products:

Control parameter for non-maxon products can be calculated in the provided Excel calculation sheet.

The units, that are displayed in the Excel File for parameter **[3002sub04] Input parameter (b)** and **[30A0sub02] Current controller I gain** are correct. However, the units displayed in the EPOS Studio are not correct.

Parameters for EPOS Studio			
Index	SubIndex	Name	
0x3002		Electrical system parameters	
0x3002	0x03	Transition parameter (a)	0.757
0x3002	0x04	Input parameter (b)	1.566
0x30A0		Current control parameter set	
0x30A0	0x01	Current controller P gain	177.544
0x30A0	0x02	Current controller I gain	1077.354

0x3002		Electrical system parameters					
0x3002	0x03	Transition parameter (a)		UInt32	RW	Yes	0.757
0x3002	0x04	Input parameter (b)		UInt32	RW	Yes	1.566 V/A
0x30A0		Current control parameter set					
0x30A0	0x01	Current controller P gain		UInt32	RW	Yes	177.544 mV/A
0x30A0	0x02	Current controller I gain		UInt32	RW	Yes	1077.000 mV/(A*s)

Solution:

Just copy across the values from the Excel calculation sheet regardless of its units.

This problem will be solved with the next firmware release

If you should encounter any problems or if you have any questions, feel free to contact the maxon Support Center:

→ <https://support.maxongroup.com>

