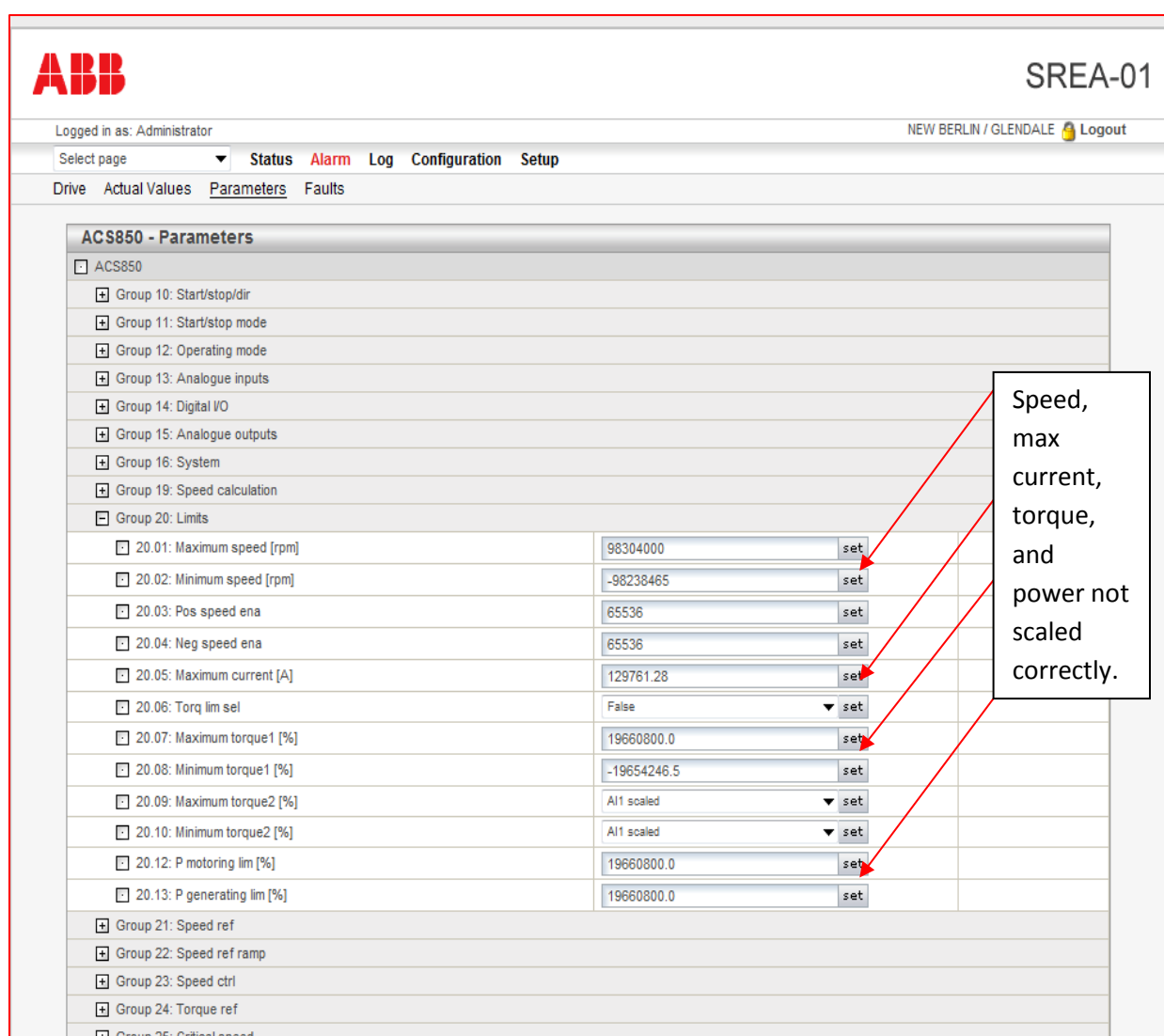


SREA MODULE: ACS850 PARAMETERS NOT DISPLAYING CORRECTLY

Description:

When using the SREA module connected to an ACS850 drive some parameters (i.e. minimum and maximum speed/torque) are not displaying correctly when viewed in the SREA web browser.



Speed, max current, torque, and power not scaled correctly.

Parameter	Value	Unit
20.01: Maximum speed	98304000	[rpm]
20.02: Minimum speed	-98238465	[rpm]
20.03: Pos speed ena	65536	
20.04: Neg speed ena	65536	
20.05: Maximum current	129761.28	[A]
20.06: Torq lim sel	False	
20.07: Maximum torque1	19660800.0	[%]
20.08: Minimum torque1	-19654246.5	[%]
20.09: Maximum torque2	All scaled	[%]
20.10: Minimum torque2	All scaled	[%]
20.12: P motoring lim	19660800.0	[%]
20.13: P generating lim	19660800.0	[%]

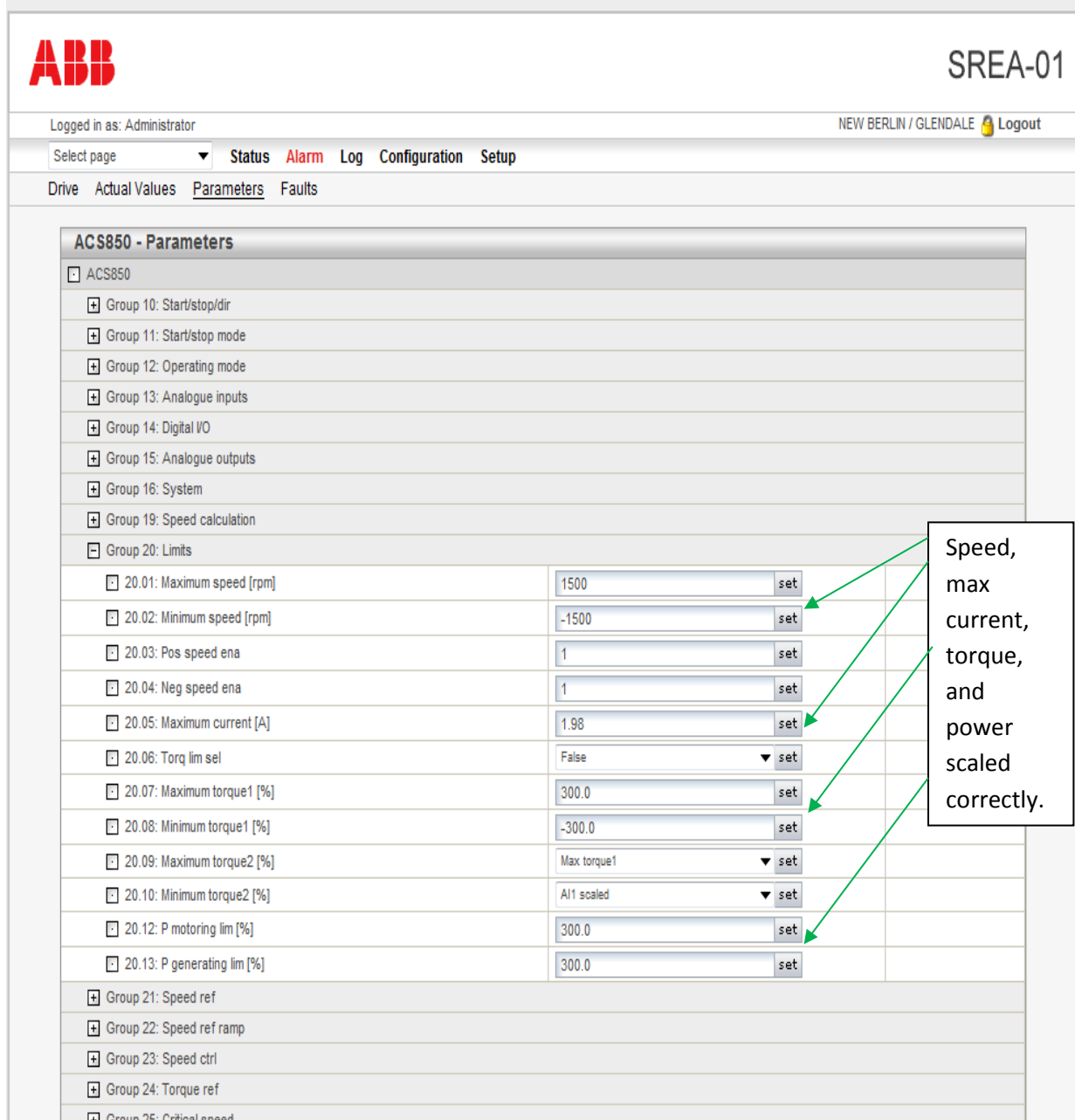
Figure 1

Author: Jeff Fell, Rick Akey, Louis Chatfield – Application Eng.		Date: May 31, 2013
External http://www.abb.us/drives .	Industry – Industrial or PLC	Document #: LVD-EOTN38U-EN
		Revision: A
Product Categories: ACS850		

Answer:

By default in the ACS850, the data word order is set to Least Significant Word first (LSW MSW), then Most Significant Word in parameter 58.32. This data word configuration causes the displaying of the parameters to be incorrect as shown above in Figure 1. To correct this problem, set parameter 58.32 to Most Significant Word first, then Least Significant word. Then, set parameter 58.10 to refresh to allow the parameter change to update. Now, the parameters seen via the web browser will be scaled correctly as shown in Figure 2 below.

Note: If the above parameter changes do not make a difference, change parameter 58.32 and 58.10 by the control panel on the drive.



ACS850 - Parameters

ACS850

- Group 10: Start/stop/dir
- Group 11: Start/stop mode
- Group 12: Operating mode
- Group 13: Analogue inputs
- Group 14: Digital I/O
- Group 15: Analogue outputs
- Group 16: System
- Group 19: Speed calculation
- Group 20: Limits
- Group 21: Speed ref
- Group 22: Speed ref ramp
- Group 23: Speed ctrl
- Group 24: Torque ref
- Group 25: Critical speed

Parameter	Value	Action
20.01: Maximum speed [rpm]	1500	set
20.02: Minimum speed [rpm]	-1500	set
20.03: Pos speed ena	1	set
20.04: Neg speed ena	1	set
20.05: Maximum current [A]	1.98	set
20.06: Torq lim sel	False	set
20.07: Maximum torque1 [%]	300.0	set
20.08: Minimum torque1 [%]	-300.0	set
20.09: Maximum torque2 [%]	Max torque1	set
20.10: Minimum torque2 [%]	AI1 scaled	set
20.12: P motoring lim [%]	300.0	set
20.13: P generating lim [%]	300.0	set

Speed, max current, torque, and power scaled correctly.

Figure 2

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Documents or other reference material:

None

Corrective Actions:

None

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