


### Software version history for G9 locos

Version	Changes	Date of release	Remarks
2005	1. 56 segment corrected for Energy Meter related issues	15.03.18	Tested in field and functionally ok
2006	1. DDS addition for FLG1 (115-118 added) 2. Energy meter correction in regeneration	23.03.18	Tested in field and functionally ok
2007	1. Multi Loco implementation	02.08.18	Implemented at ELS/VSKP. Feedback from field showed issues in operation
0008	Evaluation version for rectifying issues in 2007 version 1. Modification for CAB independent multi formation 2. Modification for Panto Sequencing	13.12.18	Implemented in ELS/BNDM for testing
2008	Release version based on 0008 1. General improvements for avoiding spurious messages during boot up in case of multi operation - Initialisation of variables 2. FLG1_STB1 - Software Mismatch SLG1/2, Up/Low Limit for Primary Voltage, Bogie Definition Mismatch, Removal of Multiple Shunt Mode DDS, Angle Transmitter Value and Primary Current for DDU, VCB Control 3. FLG2_STB2 - Software Mismatch SLG1/2, Up/Low Limit for Primary Voltage, Bogie Definition Mismatch, Removal of Multiple Shunt Mode DDS, Angle Transmitter Value and Primary Current for DDU, Overspeed Check Logic, Vigilance Emergency Brake Input 4. HBB1_DDA1 - Compressor Loading/Unloading, VCB Control 5. HBB2_DDA2 - Compressor Loading/Unloading	06.03.18	For SINGLE/MULTI operation

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