

SRN-E406223C01

Rev. 00 - en

Software Release Notes

MM8000

Project-No.	0110CR1A
Customer	Metro Madrid / CAF
Project-Part	
System	RLC-e2

Created:	12.12.2018	Checked:	13.12.2018
	Date		Date

M. Penzendorfer	M. Kremser
Name	Name

ESC	ESC
Department	Department
Signature	Signature

Released:	Translated:
Date	Date

Name	Name
------	------

Department	Signature	Department	Signature
------------	-----------	------------	-----------

Contact Address

Knorr-Bremse GmbH
Division IFE Automatic Door Systems
33.a Straße 1
3331 Kematen/Ybbs, Austria
Phone: + 43 7448 9000
Fax: + 43 7448 9000 65110
www.ife-doors.com

Revision History

Rev	Date	Name	Para	Description of change
00	12.12.2018	M. Penzendorfer	-	Initial Version

The original document was issued in English language.

Table of Contents

1	Overview	4
2	Definitions	4
2.1	Abbreviations	4
3	Current Software	5
3.1	Software version information	5
3.2	Status of Software:	5
3.3	Restrictions / Known Issues	5
4	Description of modification	6
4.1	Opening when PB open is already pressed	6
5	Download information	7
5.1	Download procedure	7
5.2	Tests to be done after download	7
5.3	Door cycles for self-learning motor control	7
6	License Information	8

1 Overview

The purpose of this Software Release Notes (SRN) is to identify the software version and the corresponding documentation. In addition it gives a short description of the modifications since the last released software and states possible hardware and software dependencies. Furthermore it includes information about the software update procedure.

2 Definitions

2.1 Abbreviations

AWA	Änderungs- und Auswirkungsanalyse
CRC	Cyclic Redundancy Check
DCU	Door Control Unit
MDC	Modular Door Control Unit
DFD	Door Function Description
DDD	Door Diagnostic Description
ICD	Interface Control Document
COTS	Commercial off-the-shelf
ESC	Electronic System Center
SAR	Software Assessment Report
SMIA	Software Modification and Impact Analysis
SRN	Software Release Notes

3 Current Software

3.1 Software version information

Project	MM8000
Customer	Metro Madrid / CAF
Car Type	<input type="checkbox"/> Tram <input checked="" type="checkbox"/> Metro <input type="checkbox"/> Regio <input type="checkbox"/> High Speed
Current Software	E406223.C01
CRC checksum (shown at IFE-Update)	0x9E84
Build date of the software	12.12.2018
DCU type and number	MDC-110RS4, ED01922R23
Documentation Door Function Description Door Diagnostic Description Door Network Description	T411115E03 "11" T411115E13 "05" T411115E23 "03"
Service Tool Configuration	E40772621_Metro_Madrid_V00

3.2 Status of Software:

- ☐ Released for laboratory tests
- ☒ Released for test on train without passenger service
- ☐ Released for passenger service

3.3 Restrictions / Known Issues

No restrictions and no open items

4 Description of modification

The modifications are based on software version E406220.G01.

4.1 Opening when PB open is already pressed

A new open command is added: When the open pushbutton is already pressed, and the door enable signal gets active or central close gets inactive, the door will open, if the release conditions are active.

5 Download information



NOTE

Before the update process is started it has to be ensured that no person is in the door area.

5.1 Download procedure

The software can be downloaded from PC to the DCU by using IFE-Service software UPDATE V6.x, using the service interface.

The CRC checksum (stated in chapter 3) is shown at IFE-UPDATE software, as soon as software is loaded to UPDATE software. This CRC checksum is calculated while the DCU software is compiled and stored within the DCU software file. At every power up of the DCU this checksum is calculated over the whole software included in the EPROM. This calculated checksum is compared to the stored checksum (which is content of the software file). If the calculated checksum is identical to the stored one, the DCU software starts to operate and fulfils the specified functionality.

If the calculated checksum is not identical to the stored one, the DCU software does not start to operate and no functionality is given. The red Error-LED at the DCU is steady illuminated.

After updating the software of the DCU the corresponding version number must be marked at the type plate of the DCU.

5.2 Tests to be done after download

After download of the software it must be checked if the red Error-LED is switched on and off again. This test makes sure that the software is not corrupted and is running on the DCU. This ensures that DCU software will start and fulfil the specified functionality, which was tested at the vehicle.

5.3 Door cycles for self-learning motor control

On electrical doors the motor control is based on a self-learning algorithm, which requires an initialisation phase. After software download a minimum of 10 open/close cycles without interruption should be performed before squeezing forces and open/close times are tested.

6 License Information

The software provided with this release note is Copyright © Knorr-Bremse AG. All rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as copying and transferring.

Portions of the software provided with this release are Copyright (c) 2000-2008 Marc Alexander Lehmann <schmorp@schmorp.de>.