

SIEMENS

AlgoRex EP7F-Z4

Release Notes for Tool Coordinators

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1 About this document

1.1 Purpose of the document

The document describes the differences between the AlgoRex release packages EP7F-Z3 and EP7F-Z4. It is intended for Tool Coordinators who need to know what is new and/or different in EP7F-Z4.

1.2 Modification index

Version	Date	Brief description
A6V10299686_b_en	2010-Nov	Updated version
A6V10299686_a_en	2010-May	Initial version

1.3 Related documents

Reference	Document no	Content
[1]	4768	Tool set customizing for EP7F
[2]	4081	Installation and maintenance
[3]	1260	Hardware description, modules
[4]	A6V10255903	AlgoRex EP7F-Z3, Release Notes for Tool Coordinator
[5]	10087	Data sheet, FDCW221, DOW1171, SMF6120
[6]	9865	FDCW221, technical manual, description of commissioning)

1.4 Abbreviations

Abbreviations	
PSP	Product Support Platform (https://psp.sbt.siemens.com/)

2 Introduction

2.1 Principal purpose of the EP7F-Z4

The release package AlgoRex EP7F-Z4 has been developed in order to redesign the hardware of the following parts:

Short name	Part number	Description
E3X102	6290250001	Control panel module 1MB RAM
E3X103	6290380001	Control panel module 2MB RAM
B3Q661	A5Q00020708	'International' operating terminal
K3R072	5286050001	Mimic display board for AlgoPilot (B3Q...)
B3R051	4905130001	Parallel display



The order numbers and their functionality remain the same.

Additionally the following parts have been newly developed:

Short name	Part number	Description
B3Q566	S54371-F13-A1	Operating terminal (Asia)
B3Q681	S54371-F12-A1	Operating terminal (Nordic)
B3Q686	S54371-F11-A1	Operating terminal (CH)
E3M141	S54405-A9-A1	'FD20' line plug-in module

3 Versions

3.1 AlgoWorks tool

The AlgoWorks setup version for EP7F-Z4 is V1.92.1-000.
The same version has been already published with project EP7F-Z3.

Please see also document [4] for further information.

3.2 Embedded software

The embedded software version for EP7F-Z4 is 831.
The same version has been already published with project EP7F-Z3.

Please see also document [4] for further information.

3.3 BDV version J0_1140_830_03

The BDV version for EP7F-Z4 is J0_1140_830_03.
The same version has been already published with project EP7F-Z3.

Please see also document [4] for further information.

4 FD20 Line card E3M141

4.1 Introduction / overview

The new FD20 line card E3M141 has been developed to support the degrade operation for FD20 devices. This makes it possible to have alarm devices connected on the Sinteso line as well.



The FD20 line card E3M141 is not selectable in the international BDV J0_1140_830_03. When the new E3M141 is used the line card E3M140 can be selected. The BDV does not make a difference between E3M140 and E3M141 but the field *Firmware version* tells which type of line card it is.

4.2 New Features

4.2.1 Extended short circuits detection and recovering

The Sinteso devices with Turbo isolation are supported. Therefore a recovering is done within 3 seconds.

In case of a mix up of devices with and without turbo isolation capability, only the affected line part between two turbo isolation devices will restart again.

The device locations are still valid after short circuit recovering. Therefore no additional device faults will be shown.

Additional short circuits occurring during the recovering phase are considered as well.



The corresponding line isolator message is not shown automatically. After reconfiguration the line, it will be shown.

4.2.2 Fast Sounder activation

The Cluster Command is used to send control register to the devices. With this approach, activation of all sounders in one cluster can be activation with one command and makes the activation of all sounders faster.

Clusters are based on the P2-Address and can access 32 devices together. The following predefined groups exist: 0-31, 32-63, 64-95, ..., 224-255.

For a speed optimized solution, place all sounders in one cluster group by using the line tester FDUL221 to do so.



Newly a **logical address** is used in AlgoWorks, in panel and down to the line card E3M141 as well. **The p2 address is different and no more available on AlgoWorks and on the CT panel.**



A test has shown that the fast sounder activation will activate 25 loop sounders within 11 sec.

4.2.3 Support Wireless Step 1 system

The new FD20 line card E3M141 supports the wireless Step 1 system, which includes the following devices:

- Gateway FDCW221
- Detector DOW1171
- Manual Call Point SFM6120

The new devices can be read-in with AlgoWorks. The line separator FDCL221 is always read in together with the FDCW221, the detectors FDOW1171 and the Manual Call Point SFM6120 are configured on a sub stub.

8 / FU FD20 / E3M140	E3M140	13
1 / FU FD20 line	Line 1	[1]
1 / DE FD20 mod. / FDCL221	FDCL221	1
2 / DE FD20 det. / FDOW1171		3
3 / DE FD20 det. / FDOW1171		4
4 / DE FD20 mod. / FDCW221	FDCW221	2

Installed/Detected				
	Ord.	Device ID	Type	AI
	1	42BCEAE	FDCL221	
	2	154403F	FDOW1171	
	3	154400F	FDOW1171	
	4	42BCEAD	FDCW221	



Please see document [5] and [6] for further information about the wireless devices.

4.2.4 Extended Degrade operation

Communication failure and I-Bus NB Signal is considered additionally for a faster switch to the degrade operation.



A degrade alarm from a device on the line card E3M141 will activate all FD20 Loop Sounder (FDS221), FD20 Base Sounder (FDSB291/292), FD20 Sounder Beacon (FDS229) and other horns which are connected on a FD20 Transponder line (FDCIO223) which are connected to its own E3M141. In addition the NA signal on the I-Bus is activated.



An external alarm over the I-Bus (NA signal is set to ON longer than 10 seconds) will activate all FD20 Loop Sounder (FDS221), FD20 Base Sounder (FDSB291/292), FD20 Sounder Beacon (FDS229) and other horns which are connected on a FD20 Transponder line (FDCIO223), E3X103 or E3G060 within the hole station.



The Horn silence signal (HS) is not supported on the CT panel types B3Q661/681/686/566 therefore it is no possibility to switch off the sounders at the CT/CI panel as long as the line card remains in degrades operation.

4.2.5 New address handling

A new address handling has been implemented on the E3M141. The device address is split into a logical address and a P2-Address.

The P2-Address is used in E3M141(P2-Core) internally to guarantee unique addressing of each device on the bus. It will be set or reset if:

- there is another device with the same address
- it has to be placed first time; that means in case that address value is 0
- it may temporary placed to the shuffle address 253
- it may have to be placed out of the regular address space and therefore is set to parking address 254. This is the case if an additional unknown device occurred online or too much devices are placed on the bus

The logical address is used as a reference in the communication between the line card E3M141 (the Adaptionlayer) and the CT panel.

- It is created and assigned by E3M141 (the AdaptionLayer).
- It allows unique access. This is needed in case of a device replacement, where we get a different serial number.
- It is used as a reference for the CSX database in CT panel.
- 253 is the end of loop address line 1
- 255 is the end of loop address line 2

The link between the logical address and the P2 address is done in E3M141 (in the Adaptionlayer) together with the link of the configured topology and the installed topology

- Informations coming up from the device are handled based on the P2-Address up to the point, where they will be sent to the CS11 over the I-Bus
- Informations coming down from the CS11 over the I-Bus are handled based on the logical address down to the point, where they will be sent to the device (to be more exactly : P2-Core)
- Logical addresses and p2 addresses are named clearly in debug logs on E3M141 debug port.
- The match between the logical address, P2-Address and the serial number is done together with the link between the configured and the installed topology (in Module TopologyLink).
- Command 'dnt0' in debug port of E3M141 shows the match between the logical address and the P2 address

4.3 Behaviour Changes

4.3.1 Starting up procedure

The start up procedure is done more robust and faster.

Each line is read-in once only. This is independent from the situation, if the CS11 was able to communicate and download the configuration or not.

There is no additional device location included for collective devices. The locations of the devices are known already.

No Re-addressing of the devices is made. Refer to chapter 4.2.5.



The following sequence of commissioning is recommended:

1. Read in the devices on line 1
 2. Read in the devices on line 2
 3. Link of the configuration with installation
 - a. In case CS11 delivered the configuration data the configuration will be re-linked with current installation;
 - b. Otherwise an empty topology is linked with the current installation and all device are handled collectively
 4. The device settings are downloaded for each configured device if available.
 5. The control register are sent to each configured device.
-

4.3.2 Alarming in different modes

Control unit	Line Interface E3M141	P2-Device	Behaviour
Normal mode	Normal mode	<ul style="list-style-type: none"> • Device configured properly • No faults 	<ul style="list-style-type: none"> • Alarm message with customer text appears • Alarm indicator is activated • Horns are activated • Acknowledge and Reset on the CT panel works
Normal mode	Normal mode	Device not configured properly <ul style="list-style-type: none"> • Not in configuration • Foreign or unknown 	<ul style="list-style-type: none"> • Collective line alarm • internal AI-Activation
Normal mode	Normal mode	Device on Address 254 <ul style="list-style-type: none"> • More than 252 Devices • New Device added online 	<ul style="list-style-type: none"> • Line alarm on all activated lines • intern AI-Activation of all devices on address 254
Normal mode	<ul style="list-style-type: none"> • Main CPU and MSP (P2-UART) fault • Firmware-Problem • No communication via I-Bus 	<ul style="list-style-type: none"> • Device configured properly • No faults 	<ul style="list-style-type: none"> • Fault message shows, that the interface failed • No Alarm message
Normal mode	<ul style="list-style-type: none"> • Main CPU fault, MSP runs 	<ul style="list-style-type: none"> • Device configured properly • No faults 	<ul style="list-style-type: none"> • Fault message shows, that the interface failed • No Alarm message
Normal mode	<ul style="list-style-type: none"> • No communication via I-Bus. • Main CPU and MSP runs 	<ul style="list-style-type: none"> • Device configured properly • No faults 	<ul style="list-style-type: none"> • Fault message shows, that the interface failed. • No alarm message. Degrade mode alarm, which contains collective sounder activation on the P2-Bus and Alarm Notification on the SYNOPTIK ports for the attached line.
Normal mode	<ul style="list-style-type: none"> • Line is starting up, normal mode 	Device has power and is able to send messages	<ul style="list-style-type: none"> • Line alarm • internal AI-Activation
<ul style="list-style-type: none"> • Defect CPU on panel • Deleted Database • Downloading of configuration data • I-Bus signal NB is set • No communication to line card 	Degrade mode	<ul style="list-style-type: none"> • Device configured properly • No faults 	<ul style="list-style-type: none"> • Degrade mode alarm(LED + central horn signals) • internal AI-Activation Possibility to switch off panel sounders. Devices which are linked to EL Horn are activated collectively and with its possibility to switch them off by activating the horn silence signal. External AI are not activated
<ul style="list-style-type: none"> • Defective CPU • Deleted Database • Downloading of configuration data • I-Bus signal NB is set • No communication to line card 	Line is starting up, Degrade mode	Device has power and is able to send messages	<u>Degrade mode alarm</u>
<ul style="list-style-type: none"> • Defective CPU • Deleted Database • Downloading of configuration data • I-Bus signal NB is set • No communication to line card 	Degrade mode	Device not configured properly <ul style="list-style-type: none"> • Not in configuration • Foreign or unknown 	<u>Degrade mode alarm</u>
<ul style="list-style-type: none"> • Defective CPU • Deleted Database • Downloading of configuration data • I-Bus signal NB is set • No communication to line card 	Degrade mode	Device on Address 254 <ul style="list-style-type: none"> • More than 252 Devices • New Device added online 	<u>Degrade mode alarm</u>
Defective panel, NB-Signal is set on I-Bus (signal NB is set or no communication)	Degrade mode	Device from other line card sets signal NA on I-Bus	Devices which are linked to EL Horn are activated collectively and with its possibility to switch them off by activating the horn silence signal. External AI are not activated

4.3.3 Commissioning

4.3.3.1 Commissioning Procedure

To avoid unpredicted results it is important to follow exactly the commissioning procedure described below:

1. Read-in the line 1
2. Re-configure, link and download line 1
3. Read-in the line 2
4. Re-configure, link and download line 2



To speed up commissioning it is possible to read-in all Line 1 on each line card first, Re-configure, link and download. After this do the same for all Line 2 on each line card. This procedure saves time because not so many downloads has to be carried out.

4.3.3.2 Read in Line

1. Open read in dialog box in AlgoWorks over Localization/installed and configured devices.
2. Press the update button start the read in and upload data procedure



From now on the line remains in the read in mode :

- Alarms from any device are handled as collective line alarms and
- No device specific alarms are supported

The Read-in mode is canceled with the next Reconfigure D-Bus command.

3. Press the button  to accept the new topology



There is no check if the topology structure is valid. So take care about **sub stubs on a stub** and **several stubs between the same two devices**.

There is no feedback until you try to run this new downloaded configuration.

4. Follow the commissioning procedure

4.3.3.3 Reconfigure, link and download line

1. After closing the dialog box "Installed and configured FD20 devices" press **YES** button in the next dialog box to
 - a. Reconfigure the D-bus to run the current line with the previous configuration and
 - b. to allow specific alarms from any configured device.
2. Link the additional devices



The bus address is the logical address which is used as a reference between embedded software and the line card E3M141. But this address is different to the p2-address stored in the devices. Refer to the FD20 Device ID (serial number) to get the link.

3. Download data to station to get the valid configured line.



It is important to download the new data set for this line specifically

- Before starting a new line Read-in of the other line.
- Otherwise the same bus addresses (logical addresses) are assigned to the devices as used in the previous line and will end up in a corrupt database

The cause is, with the command Re-configure D-Bus, the line cards loses the knowledge of already used (logical) addresses and reassigns the same (logical) addresses again.

4. Follow the commissioning procedure

4.3.4 New strategy to link the configuration with the installation

4.3.4.1 Summary

With (re-) start up the following cases are to consider:

1. Topology structure of a line is equal but some device types are different
 - In this case the position in the topology structure is taken as a reference for a link as above.
 - The devices with different type are NOT linked.
 - Different serial numbers, but same type are linked together which means a device replacement
2. Topology structure of a line is equal and all device types are equal.
 - In this case all devices are linked automatically
 - Different serial numbers are linked together, which means a device replacement
3. Topology structure, device types and serial numbers are equal. All devices are linked.
4. Topology Structure of a line or stub is different.
 - In this case the serial number is taken as a reference for a link
 - New | not configured devices are handled as collective devices and are filtered before fix of the device locations
 - Missing devices at stub end (i.e. open line or short circuit) are registered as missing. The locations of all others on stub are still accepted and will not generate faults.
 - Missing devices on a loop will generate faults for all devices on the loop
 - Missing devices or somewhere on a stub, but not at stub end, generates faults for all device on the stub
5. Topology structure of a line is equal but some device types are different.
 - In this case the position in the topology structure is taken as a reference for a link as above.
 - The devices with different type are NOT linked.
 - Different serial numbers, but same type are linked together which means a device replacement
6. Topology structure of a line is equal and all device types are equal.
 - In this case all devices are linked automatically.
 - Different serial numbers are linked together, which means a device replacement.
7. Topology structure, device types and serial numbers are equal. All devices are linked.

During normal operation the following cases are to consider:

1. **Device disappears. The link of the specific device will be removed**
2. **Device reappears.** The device will be **relinked if the position is verified**
3. **New device appears as a replacement** of another one. If new device has the **same type it will be accepted as a replacement** of the old one. **If not** the new gets a regular p2 address and is **handled collectively** and the **old one remains missing**
4. **New device appears.** This Device gets the **parking address 254** will be handled collectively.
5. **Device disappears. The link of the specific device will be removed**
6. **Device reappears.** The device will be **relinked if the position is verified**
7. **New device appears as a replacement** of another one. If new device has the **same type it will be accepted as a replacement** of the old one. **If not** the new gets a regular p2 address and is **handled collectively** and the **old one remains missing**
8. **New device appears.** This Device gets the **parking address 254** will be handled collectively.

4.3.4.2 Empty line

An empty line is always handled as a loop. If there is no connection between forward and backward terminals an open line fault appears.
All connected devices are handled collectively.

4.3.4.3 Missing devices

The following behaviour is given after a device is missing

After (Re-)startup of the line:

- Device fault of the missed device
- Faults of all device in loop if missed device should be placed there
- Faults all devices in stub if missed device should be placed at the beginning or in middle of thr stub
- Fault of the missed device only if placed at the stub end

During normal operation:

- Fault of the missed device only

4.3.4.4 Collective devices

After (Re-) start up of the line :

- All collective, not configured devices gets a regular P2 address. The link to the line is done.
- If more than 252 device on the line card, the device gets a the park address 254.
- Device appearance and disappearance are not visualized on panel.

During normal operation

- New collective devices get a park address. The link to the line remains unknown. An alarm will generate collective alarm on all possible lines

4.3.4.5 Consideration of short circuit and open line

After (Re-) start up of the line:

- Missed devices on a loop give device faults
- Missed devices behind a short circuit or a line break give device faults

During normal operation:

- Missed devices give a device fault

4.3.4.6 Topology configuration check

After (Re-) start up of the line:

- Several stubs on same segment give faults off all affected devices
- Stub on stub give faults of all affected devices

During normal operation:

- A configuration change during normal operation will end up the same result as after a start up of the line

4.3.5 Device replacements

After (Re-) start up of the line:

- A precondition for a device replacement is that the configured topology structure matches with the installation exactly
- The device to replace must have the same type

During normal operation:

- If there is no restart between the removal of the old device and the new one the replacement will be accepted if the device has the same type and the topology structure from configuration matches with the installation
- If there is restart between the removal of the old device and the new one, on line replacement is not accepted. A restart of the line is required

4.3.6 Device re-appearances

After (Re-) start up of the line:

- If a previously missed device reappears after start-up it will be considered in the topology link procedure

During normal operation:

- If a previously missed device reappears during normal operation the topology position will be verified and will be relinked if successful

4.3.7 T-Taps

The line card E3M141 has been tested with 40 T-Taps on a loop.

4.3.8 Bug fixes

The following bugs have been fixed during the improvements of E3M141.

Bug description	Tracking no.	FSP00012075 BTQ00021426
	Hotline call	None
After accept a line, every device gets black in the dialog exactly as it should. But the devices are not deleted in the physical structure.		
Correction		
The bug is fixed if you use the necessary workflow.		

Bug description	Tracking no.	FSP00019397 BTQ00021504
	Hotline call	44859
There is strange fault on a E3M140, all devices on this particular line shows Faults. Even no Open line, Short line or Short to earth fault is present.		
Correction		
The bug is fixed with E3M141.		

Bug description	Tracking no.	FSP00021681 BTQ00021533
	Hotline call	61846
Line card E3M140 problems after start up. A lot of elements and loop faults even nothing has been changed.		
Correction		
The bug is fixed with E3M141.		

Bug description	Tracking no.	FSP00024267 BTQ00021573
	Hotline call	41935
Line card E3M140 problems. If one detector is defective, all elements of the loop are in fault.		
Correction		
The bug is fixed with E3M141.		

Bug description	Tracking no.	FSP00059369 BTQ00022047 FSP00073256 BTQ00023325
	Hotline call	None
Line card E3M140 problems with turbo isolator devices.		
Correction		
The bug is fixed with E3M141 and supports turbo isolator functionality completely.		

Bug description	Tracking no.	FSP00059371 BTQ00022048
	Hotline call	None
Loop sounder should be activated / deactivated faster.		
Correction		
The bug is fixed with E3M141 and supports cluster command functionality.		

Bug description	Tracking no.	FSP00072141 BTQ00023208 FSP00072174 BTQ00023212
	Hotline call	None
Behaviour after recovering of short circuit condition, still some devices in fault condition.		
Correction		
The bug is fixed with E3M141.		

Bug description	Tracking no.	FSP00074242 BTQ00023491
	Hotline call	None
Line card E3M140 problem: The status 'Device configuration IN PROCESS' remains until command 'Re-configure D-Bus' is carried out.		
Correction		
The bug is fixed with E3M141.		

Bug description	Tracking no.	FSP00074763 BTQ00023617
	Hotline call	None
Line card E3M140 problem: Replacement of device on stub line. All devices on this stub line are in fault condition.		
Correction		
The bug is fixed with E3M141.		

5 Hardware replacement, compatibility

5.1 B3Q661 (international)

The redesigned terminal B3Q661 is backwards compatible.
Please check the necessary embedded software version, because the redesigned board has a new RTC-Chip (Real Time Clock) implemented.

5.2 B3Q566 (Asia)

The new panel type B3Q566 is the successor of B3Q565. Different scenarios are given for a replacement.

5.2.1 B3Q566 is a replacement for B3Q565, no updating

If the B3Q566 is a 1:1 replacement without any updating of embedded software and customer data, the following steps must be done:

1. Check which embedded software version and customer data was present on the old B3Q565.
2. Disconnect the B3Q565 and replace it with the B3Q566.
3. Download the same embedded software version to B3Q566 again.
4. Download the same customer data to the B3Q566 again.



The customer data has still the B3Q565 panel selected and therefore the new CT panel B3Q566 acts exactly in the same way as B3Q565 did. The additional button **Buzzer OFF** does not work, so the button must not be labelled on B3Q566.

This is the case if the embedded software is older than 831, the customer data remains the same and it is based on the BDV version which is older than 830.



If more than one CT panel is used in the same customer site you might have a mix of CT panel types.

5.2.2 B3Q566 is a replacement for B3Q565, with updating

If the B3Q566 is a replacement with updating of embedded software and customer data, the following steps must be done:

1. Check which embedded software version and customer data was present on the old B3Q565.
2. Check which embedded software version is the latest.
3. Convert the customer data to the latest BDV version.
(Additional station might be converted as well.)
4. Disconnect the B3Q565 and replace it with the B3Q566.
5. Download the latest embedded software version B3Q566.
(Additional station might be downloaded as well.)
6. Modify the customer data by replacing the panel type to B3Q566.

7. Download the modified customer data to the B3Q566.
(Additional station might be downloaded as well.)



In the updated customer data the new CT panel B3Q566 is selected and therefore it acts exactly as it should. The additional button **Buzzer OFF** works fine and should be labelled. The customer site has been updated to the latest version.
This is the case if the new embedded software is 831 or newer and the customer data is based on the BDV version 830 or newer.



If more than one CT panel is used in the same customer site, you might have a mix of CT panel types. In this case all CT panels must be updated to the corresponding software and BDV version. This makes it possible to replace the older B3Q565 types easier later on.

5.2.3 B3Q566 is used in new sites

In new sites only the B3Q566 should be used, follow up the commissioning workflow in the same way as you did it for B3Q565.



In new site only the latest embedded software and the latest BDV version must be used.

5.3 B3Q681 (Nordic), B3Q686 (Swiss)

5.3.1 B3Q681/686 is a replacement for B3Q680/685, no updating

The B3Q681/686 **can not** be a 1:1 replacement without any updating of embedded software and customer data, because we deleted the button **Alarm delay off** and reused it as button **Buzzer OFF**.

It is mandatory to update the embedded software and customer data.
See chapter 5.3.2 how to proceed.

5.3.2 B3Q681/686 is a replacement for B3Q680/685, with updating



The customer site has to be updated at least to embedded software 831 and the customer data has to be updated to the BDV version which is based on 830.



If more than one CT panel is used in the same customer site, you might have a mix of CT panel types. In this case all CT panels must be updated to the corresponding software and BDV version. This makes it possible to replace the older B3Q680/685 types easier later on.

5.3.3 B3Q681/686 is used in new sites

In new sites only the B3Q681/686 should be used, follow up the commissioning workflow in the same way as you did it for B3Q680/685.



In new site only the latest embedded software and the latest BDV version must be used.

5.4 E3M141

5.4.1 E3M141 is a replacement for E3M140

The line card E3M141 is a full 1:1 replacement of the E3M140. Only the new degrade mode functionality is in addition. Please see chapter 4.2.4 for more details.



Because of the new degrade functionality; the E3M141 has now a new behaviour during degrade mode operation. All FD20 Loop Sounder (FDS221), FD20 Base Sounders (FDSB291/292), FD20 Sounder Beacons (FDS229) and other horns which are connected on a FD20 Transponder line (FDCIO223) will be activated, which is not the case if a E3M140 is used.

Please take care if a degrade mode is tested with E3M141.



In case of using the line card E3M141 you have to select the E3M140 in the physical tree, because the BDV version J0_140_830_03 does only has the E3M140 included.

5.4.2 E3M141 is used in new sites

In new sites only the line card E3M141 should be used, follow up the commissioning workflow, see chapter 4.3.3.1. for more details.



In case of using the line card E3M141 you have to select the E3M140 in the physical tree, because the BDV version J0_140_830_03 does only has the E3M140 included.

5.5 E3X102/103

The redesigned modules E3X102 and E3X103 are backwards compatible. Please check the necessary embedded software version, because the redesigned boards have a new RTC-Chip (Real Time Clock) implemented.

In Addition please check the jumper X30 descript in document [3].

5.6 K3R072 and B3R051

The redesigned mimic display board K3R072 and parallel display B3R051 are fully backwards compatible.

6 Miscellaneous

Due to vibration test according to EN54-2 the corresponding marine set must be used.

7 Commissioning workflow

It is strongly recommended to follow up the following work flow:

1. Work only on one line per line card at the same time.
2. Switch off the line via the CT panel.
3. Make all necessary changes.
4. Switch on the line via the CT panel.
5. Use AlgoWorks to update the new topology. (FD20 Dialog box).
6. Accept the new topology.
7. If an E3M140 is used, re-configure the D-Bus; if E3M141 not necessary.
8. Delete the devices which are still in physical tree but no longer valid.
9. Download the data to station.
10. If necessary do the same for other lines cards.

8 Update procedures



For detailed information about the update procedure, please see document [1] and [2].



Back up

Please save the data (C:\Program Files\Siemens\AlgoWorks) before starting with update procedure.

8.1 Update to AlgoWorks configuration

Because AlgoWorks setup for EP7F-Z4 is still the same as for EP7F-Z3, there are no adaptations necessary.

Please see also document [4] for further information.

8.2 Update to BDV Configuration

Because BDV setup for EP7F-Z4 is still the same as for EP7F-Z3, there are no adaptations necessary.

Please see also document [4] for further information.



Because of the new line card E3M141 you should update the country BDV version. The only thing you have to do is changing the FU type from E3M140 to **E3M14x** in the ADD file. Please see also document [1] for further information.

8.3 Update to Embedded Software

Because BDV setup for EP7F-Z4 is still the same as for EP7F-Z3, there are no adaptations necessary.

Please see also document [4] for further information.

9 Documentation

The following documents have been updated.

Document number	Document name	Description / restriction
A6V10225450_a_de_--	Bedienungsanleitung B3Q661 / 681 / 686	New document
A6V10225450_a_en_--	Operating instructions B3Q661 / 681 / 686	
001099_r_de_--	Baugruppenübersicht	Updated document versions
001099_p_en_--	Overview of components	
001260_q_de_--	Beschreibung Hardware, Einschübe	Updated document versions
001260_p_en_--	Hardware description, modules	
001971_c_de_--	Montageanleitung H37-Gehäuse	Updated document versions
001971_c_en_--	Installation instructions H37 housing	
006516_f_en_--	Inscription strip templates for indication and operation equipment	Updated document versions
008725_h_de_--	Planen und Projektieren	Updated document versions
008725_g_en_--	Planning	
008726_d_de_--	Inbetriebsetzung Hardware	Updated document versions
008726_d_en_--	Commissioning of hardware	
007645_j_--_--	CS11.1, Inhalt des Handbuchs CS11.1, Content of manual	Updated document versions
007643_j_--_--	CS11.2, Inhalt des Handbuchs CS11.2, Content of manual	Updated document versions



The latest AlgoRex documentations are available on Siemens Intranet (STEP).

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Section 9