
KeContact P30

Software release notes Package 1.8.2

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Automation by innovation.

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1. General

Purpose of this document is to inform about the changes of the latest software and firmware version. Detailed descriptions and instructions about the new features can be found in the product manuals. The content is categorized as enhancements; changes because of normative requirements; and bug fixes.

1.1. Identification:

After installation, the software version 1.8.2 can be read on the web interface (WebUI).

Release Version: 1.8.2	
Component	Version
PDC	3.9.19
CPM	4.8.0
KEEP	5.2.0
OS	1.9.0
WEBUI	1.9.0

1.2. Compatibility information

This firmware is compatible with all KeContact P30 x-series charging stations and connected KeContact P30 c-series in slave mode.

To identify your charging station, please compare your product code with the product codes table in the installation manual.

Below you will find a list of the most important implemented features and fixed bugs.

1.3. Further Documents and Information

<http://www.keba.com/en/emobility/service-support/downloads/Downloads>

- User manual
- Installation manual
- Configuration manual
- FAQ for users and commissioning

2. Version Package 1.8.2

Date of release: 16.01.2019

Notice

*The Software Package 1.8.2 can **only** be installed on devices which already have Software Package 1.7, 1.8 or 1.8.1 installed.*

2.1. Package components

The name file of the package is **P30x_SW_1_8_2.keb**

The current package contains the following components.

1.8.2	
Version	Download
P30 PDC	3.9.19
CPM	4.8.0
KEEP	5.2.0
OS	1.9.0
WebUI	1.9.0

2.1. Fixed bugs

In this paragraph there is a list and a short description of the fixed bugs.

2.1.1. On special DIP switch settings status n/A is displayed in the WebUI

On special DIP switch settings it may occur that some information are not displayed correctly in the WebUI. One of these special DIP switch settings is the DSW1.1.

2.2.2 Some cached OCPP messages are not deleted

Sometimes OCPP messages which were obsolete, are not deleted from the KeContact P30.

3. Version Package 1.8.1

Date of release: 18.12.2018

Notice

*The Software Package 1.8 can **only** be installed on devices which already have Software Package 1.7 installed.*

3.1. Package components

The name file of the package is **P30x_SW_1_8_1.keb**

The current package contains the following components.

1.8.1	
Version	Download
P30 PDC	3.9.19
CPM	4.8.0
KEEP	5.2.0
OS	1.9.0
WebUI	1.9.0

3.2. Implemented features, changes and improvements

3.2.1. Configuration changes without a restart

The P30 can perform almost all configuration changes via the WebUI or via OCPP without a restart. Changes of the operation mode, the network settings, the proxy settings and the central system address require a restart.

When changing the configuration via USB, the system still needs to reboot.

3.2.2. Certificate handling on WebUI

Certificates for secure communication over HTTPS via WebUI and OCPP can be uploaded and deleted in the WebUI.

3.2.3. APN username and password are filled automatically if left empty

The connection to the mobile network is not established when the APN username and/or password are left empty. If these values are left empty, the value "blank" is inserted to establish a connection.

3.2.4. DIP switch settings

The DIP switch setting can be read out in the WebUI for every connected P30.

3.2.5. Replace GSM and WLAN log on the WebUI

The GSM and the WLAN log are no longer visible in plain text. In the Status Menu the current state of the network connections is visible.

3.2.6. Time based log level

The log level can be turned on only for a limited time (1, 3 or 7 days) to avoid unnecessary logs and improve system stability.

3.2.7. Turn on/off Remote Service Interface

The Remote Service Interface for Keba technicians can be turned off and on via the WebUI and OCPP.

3.2.8. Improved rollback mechanism

In case of an unsuccessful update, all components are rolled back to their previous version.

3.2.9. Reboot of a single connector

It is now possible to reboot a single connector via the webUI.

3.2.10. Time synchronization tolerance

The time is now resynched with the backend if the buffer is changed to 30 seconds. Additionally the system ignores the time synchronization if the response message takes longer than 30 seconds to arrive.

3.2.11. New teaching RFID cards section

The RFID Teaching Table has been moved to a specific section in the WebUI.

2.1. Fixed bugs

In this paragraph there is a list and short description of the fixed bugs.

2.1.1. Status notification messages were not resent

Upon a reconnection to the OCPP backend, messages stored while offline were not sent from the KeContact P30 x-series. This occurred especially on connections with a bad GSM signal.

3.2.12. Display messages did not change through the use of the “Apply” button

The display messages did not change until an action was performed at the charging station.

3.2.13. Displaying the wrong wallbox state

After a reboot some slaves were displayed as suspended, although they were charging.

3.2.14. Improved RFID teaching process

It is now possible to teach RFID cards over the WebUI and directly at the charging station on the same KeContact P30 x-series.

3.2.15. Meter values were not send

In some installations the meter values were not send correctly for all types of meter values.

3.2.16. OCPP URL not complete

When updating from software version 1.7 to 1.8, the address of the OCPP backend is split into several parts - if certain parameters have not been entered beforehand, it is possible that default values are used incorrectly which prevent further communication with the backend.

4. Version Package 1.7

Date of release: 01.08.2018

Notice

*The Software Package 1.7 can **only** be installed on devices which already have installed the Software Package 1.6.1 or 1.6.3.*

4.1. Package components

The name file of the package is **P30x_SW_1_7.keb**

The current package contains the following components.

1.7.0	
Version	Download
P30 PDC	3.9.14
CPM	4.6.0
KEEP	5.2.0
OS	1.7.0
WebUI	1.7.0

4.2. Implemented features, changes and improvements

4.2.1. Stop charging with the RFID card

The charging session can now be stopped, when swiping the same RFID Tag, which was used to start the charging session.

4.2.2. Error message on the web interface, when update fails

If an error occurs during the update, then a message will be visible in the web interface.

4.2.3. Diagnostic Files saved as “*.tar.gz”-Files

To reach a higher compression rate, the Log-Files are now compressed as “*.tar.gz”-files.

4.2.4. Hubject compatibility

The compatibility with Hubject Intercharge App has been improved. When plugging the EV to the KeContact P30 x-Series, then no StatusNotification <Occupied> will be sent to the backend. This will allow to authorize the charging session via App.

4.2.5. Change Availability

The KeContact P30 x-series now supports the OCPP command Change Availability in OCPP 1.5.

4.2.6. Configurable verification of the RFID Tag

It is possible to configure the modality how to verify the RFID Tag. The Tag can be verified first locally on the wallbox (standard behavior) or an Authorize Request is always sent, when using an RFID tag in online mode.

In offline cases it can be configured if the P30 is using its whitelist or accepts every RFID tag and tries to synchronize it when the P30 is back online.

4.2.7. Stop Transaction includes the RFID tag

The KeContact P30 x-series is now sending the RFID tag also in the Stop Transaction.

4.2.8. RFID Teaching with the WebUI

The RFID Tag can be taught with the WEBUI. It is also possible to delete or change single entries.

4.2.9. RFID Tag combined with serial number

The RFID Tag can be assigned to a specific serial number in the WebUI. The Tag is combined with the serial number of the connector in the form: "RFIDTag_SerialNumber". This information is contained both in the Authorization and in the StartTransaction.

4.2.10. Meter Values configurable via WebUI or USB

It is now possible to configure the Meter Value Sample and the ClockAligned Data Intervals via WebUI or USB. A value of "0" deactivates the meter values.

4.2.11. Status Notifications in error cases

In case an error occurs on the charging station, then the KeContact P30 x-series, reports the code and a description of the error to the OCPP Backend.

4.2.12. Disable Remote Service interface

It is now possible to deactivate the Remote Service interface via the WebUI.

4.2.13. Disable USB Updates

It is now possible to deactivate the update via USB

2.1.2. Reported Software Version to the Backend

Until now the KeContact P30 x-Series reported the Firmware Version of the CPM component. The P30 will now send the currently Installed SW package Version in the BootNotification and the getConfiguration command via OCPP.

2.1.3. Improved GSM reconnection mechanism

In case of a loss of GSM signal, the P30 tries to reconnect, also when a DNS error occurs.

2.2. Fixed bugs

In this paragraph there is a list and short description of the fixed bugs.

2.2.1. Stop Transaction with invalid ID

A lock failure does not longer cause a Stop Transaction Request with an invalid ID.

2.2.2. Unsuccessful Update freezes the WebUI

After a failed update, the rollback mechanism does not longer freeze the WebUI.

2.2.3. Wrong Results with GSM signal test

The GSM Test delivered sometimes wrong signal test results, when there was no GSM available.

2.2.4. Wrong Display Messages

The content of the display message was wrong in corner case flows.

2.2.5. Status Available before Stop Transaction

The P30 sometimes sent a Status Notification "Available" before the Stop Transaction, although it is specified in the other way round.

2.2.6. Shift of Heartbeats

By long time operation, sometimes the heartbeats slightly shifted in time.

2.2.7. Update Loop of slaves

In some occasions the KeContact P30 x-series did not recognize the firmware of the slave and tried to update the MIDLED component every time. This led to a loop of update retries.

2.2.8. Load Management calculation

In some cases the available current was not correctly distributed to the connectors. This led to the activation of the round robin load management, although it was not necessary.

2.2.9. SendLocalList did not update the Whitelist correctly

When sending a SendLocalList command via OCPP, not all the tags of the Whitelist were updated correctly.

2.2.10. Modified Display Messages are changed during the update

User modified display messages are no longer changed back while updating.

3. Version Package 1.6.3

Date of release: 18.05.2018

Notice

*The Software Package 1.6.3 can **only** be installed on devices which already have the Software Package 1.5 or 1.6.1.*

3.1. Package components

The name file of the package is **P30x_SW_1_6_3.keb**

The current package contains the following components.

Version	Download
CPM	4.4.0
KEEP	5.1.0
P30 PDC	3.9.10
OS	1.4.0
WebUI	1.4.0

3.2. Implemented features, changes and improvements

3.2.1. Reducing the amount of Logs

To improve the system stability, the amount of logs and their content are reduced.

3.2.2. Changing of Log Level

The log level has been set to the info level. It can be changed from info level to debug level in the user settings. In case of unexpected behaviour, the Log level can be switched via the WebUI to a debug level again, to log more information. This enables the KEBA technician to read out further details.

3.2.3. XPU error is reported to the backend

In case the XPU suffers from a logging error, a Status Notification is sent to the OCPP Backend with relevant data signalling that the KeContact P30 x-series is no longer working properly.

3.3. Fixed bugs

This paragraph includes a list and short description of the fixed bugs.

3.3.1. Boot Notification for errors caused by customer-specific wallboxes

The product code for customer-specific wallboxes was longer than the permitted length of the charge point model field, thus causing an error at some backends. Now all outgoing messages are proofed and trimmed, if necessary.

3.3.2. Logging consumes the capacity of the data storage

Due to the logging mechanism by huge master/slave systems, the logs consumed the capacity of the data storage. The creation of logs is now limited and the capacity of the data storage is no longer consumed.

4. Version Package 1.6.1

Date of release: 11.01.2018

Notice

*The SW package 1.6.1 is **encrypted** therefore it can **only** be installed on devices which already have installed the SW package 1.5.*

The Wi-fi feature is NOT supported for master and slaves use cases. The Wi-fi feature is supported only for stand-alone P30 x-series.

4.1. Package components

The name file of the package is **P30x_SW_1_6_1.keb**

The current package contains the following components.

Version	Download
CPM	4.4.0
KEEP	5.1.0
P30 PDC	3.9.10
OS	1.4.0
WebUI	1.4.0

4.2. Implemented features, changes and improvements

4.2.1. Text messages on the display

The KeContact P30 is able to provide additional information via its display concerning the authorization process and the charging, e.g. swipe card, card accepted, invalid card, charging suspended etc.. The display messages can be configured via web interface.

4.2.2. Proxy server

In case a proxy server is used to connect to the backend (OCPP) it can be activated via web interface.

4.2.3. Connector ID assignment

The user can assign the connector ID to a specific serial number directly via the web interface.

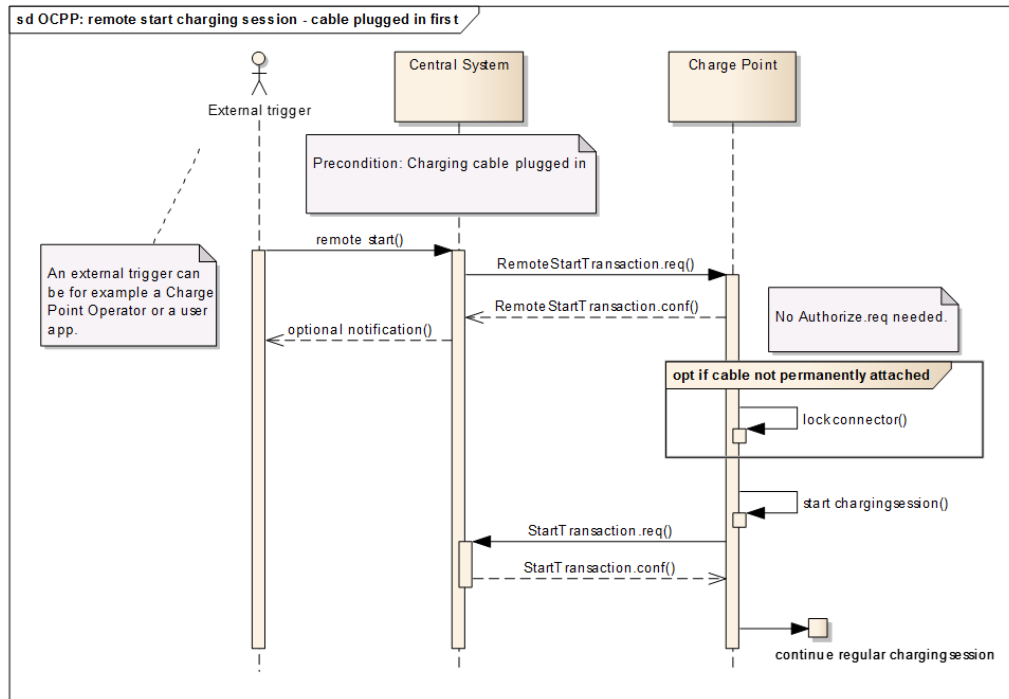
4.2.4. Phase Assignment

The user can assign if a wallbox is connected on 1 or 3 phases and on which phase the Wallbox is connected via the web interface.

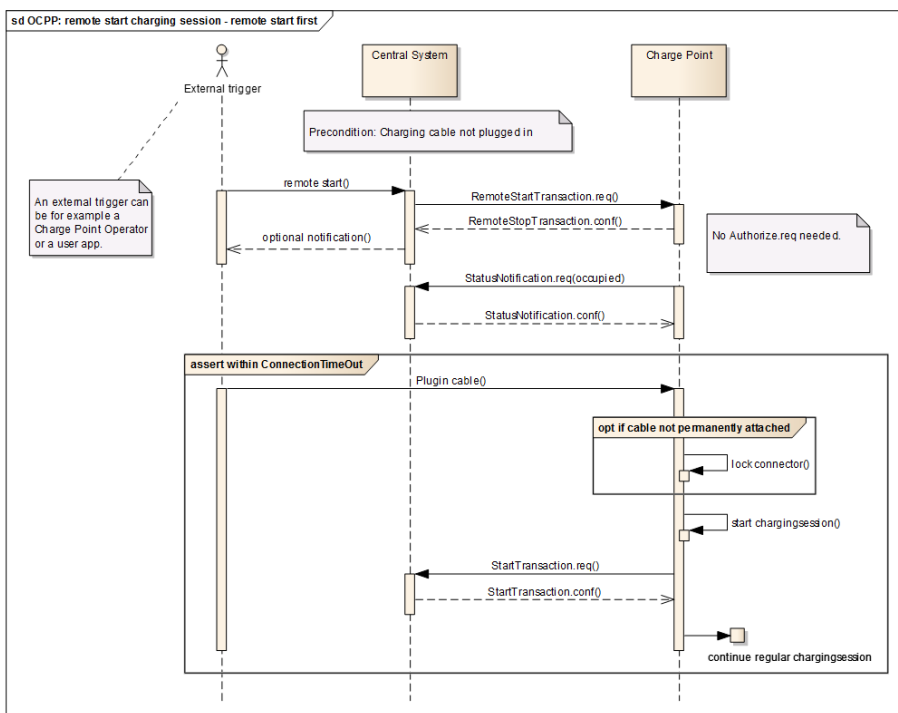
4.2.5. Remote Start Transaction sequence

The Remote Start Transaction sequence has been modified so that the P30 replies immediately after receiving the Remote Start Transaction request.

Remote start charging session – cable plugged in first



Remote start charging session – remote start first



4.2.6. Remote Stop Transaction

The Remote Stop Transaction command will also unlock the cable.

4.2.7. External meter for single chargepoint

The KeContact P30 can be connected via TCP to an external meter. The Station will adapt the charging current, depending on the measured load of a connected domestic meter. Refer to the configuration manual for more detailed information.

4.2.8. Wi-fi for single charge point

The feature Wi-fi is supported by a single KeContact P30 x-series. In case of master-Slaves configuration then the Wi-fi function will be automatically deactivated.

4.2.9. Messages during update

While updating the KeContact P30 will display the upgrade steps on the WebUI and on the display.

4.2.10. BootNotification SIM card information

The BootNotification contains additional information like ICCID and IMSI.

4.2.11. BootNotification Charge Point Model

The BootNotification contains also the product code additionally to the product name KeContact P30.

4.3. Fixed bugs

In this paragraph there is a list and short description of the fixed bugs.

4.3.1. Update via FTP not fully supported

The Kecontact P30 can now support the MLST extension.

4.3.2. Meter values reseted

The energy meter does not reset anymore after reaching the value 9999,999 kWh.

4.3.3. Missing GetDiagnostic file name

The file GetDiagnostic is again correctly uploaded with its identification name.

4.3.4. No Id Tag in Start Transaction request

The ID Tag is now contained in the Start Transaction request.

4.3.5. Forth led segment switched off

When the KeContact P30 is online then it shows always four blinking segments.

4.3.6. Wrong Connector ID

The KeContact P30 does not mix up its connector IDs automatically in case of offline modus or restart.

4.3.7. Transaction requests with same ID

The KeContact P30 does not send anymore transaction requests with the same timestamp and transaction ID.

4.3.8. No loadmanagement recalculation when P30 disconnected

In case a slave disconnects from a master, the available current is recalculated.

4.3.9. Data not copied on the USB

It was not a systematic failure. The KeContact P30 always copies the configuration file and the logs on the USB stick.

4.3.10. Configuration not applied

It was not a systematic failure. Any valid change of the configuration file is always applied by the KeContact P30.

4.3.11. Unexpected TransactionID -1

The KeContact P30 does not transmit a StopTransaction request with ID equal to -1.

4.3.12. RemoteStartTransaction rejected

The KeContact P30 x-series correctly handles a RemoteStart transaction with no connector ID if already charging.

4.3.13. Wrong current assignement

In case of restart of the KeContact P30 the current is correctly assigned.

5. Version Package 1.5

Date of release: 27.10.2017

Notice

The Software Package 1.5 can only be installed on devices which already have installed the Software Package 1.4.

This software brings a new system architecture. Therefore the old database will be deleted during the update and a new database is created. Unfortunately, not all user-specific data is transferred. Therefore it could be, that the ConnectorIDs are reassigned. Also the local whitelist is deleted and RFID Tokens have to be taught again.

Furthermore the configuration parameter names might change. Please refer to the configuration manual for detail information.

Please consider this by the updating of your system, and check if any user specific data has been changed during the update.

5.1. Package components

The name file of the package is **kemove-bundle-p30-oneoff-1.5.0_40044.keb**

The current package contains the following components.

Version	Download
CPM	4.3.0
KEEP	5.0.1
P30 PDC	3.08.7
OS	1.2.0
WebUI	1.2.0

5.2. Implemented features and improvements

5.2.1. Improvement of the Housekeeping

The performance of the system has been improved by reducing the CPU usage and overall system load.

5.2.2. Reduction of the Boot time

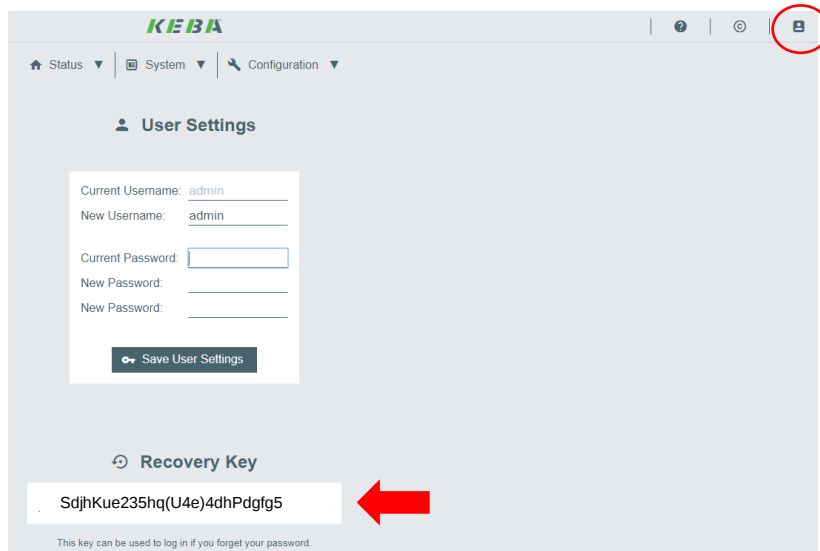
The time needed to reboot the P30 has been reduced.

5.2.3. WebUI password reset

In case you forget your password, you can use the unique recovery key of your P30 x-series to reset the password.

You can find your recovery key in the User settings.

Please check the configuration manual for detailed information.



5.2.4. Improvement NTP synchronisation

During the start-up of the wallbox the system tries to synchronise the time (UTC) via NTP. If the system has no internet access, the last available date is set as the valid time for the usage of the certificates.

5.2.5. Load management improvement: available current recalculation

On a master-slave installation, the calculation of the available current is triggered even when an EV has stopped charging but it is still plugged in.

5.2.6. Behaviour in case of power cut

After a power cut, all ongoing charging sessions are closed and new charging sessions are started if the EVs are still plugged in.

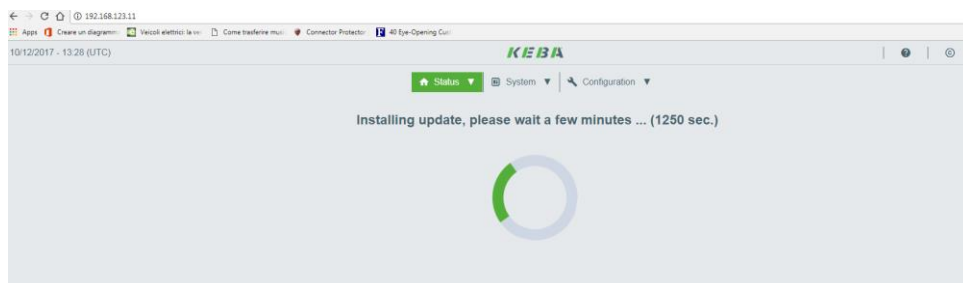
5.2.7. Security improvement

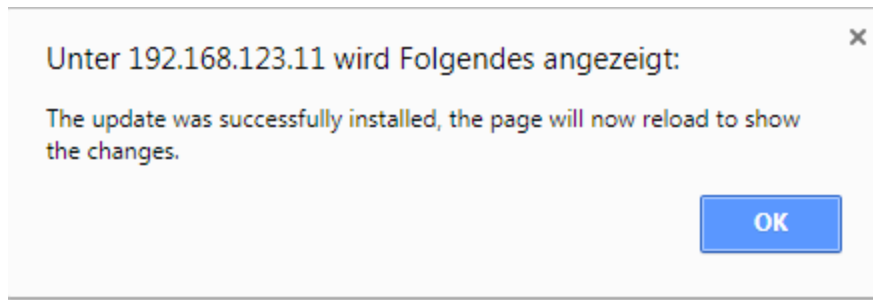
Updates are now encrypted instead of just being protected with the password.

5.2.8. Update feedback

The visual feedback during update has been improved. The WebUI shows the actual status of the update and provides feedback on whether the update has been successfully completed. During the update the 4 LED segments flash orange (breathing mode).

No charging session is possible during the update.





5.2.9. New feature: WIFI

With this new feature it is now possible to activate the already built-in WI-FI module in the electronics of the KeContact P30 x-series.

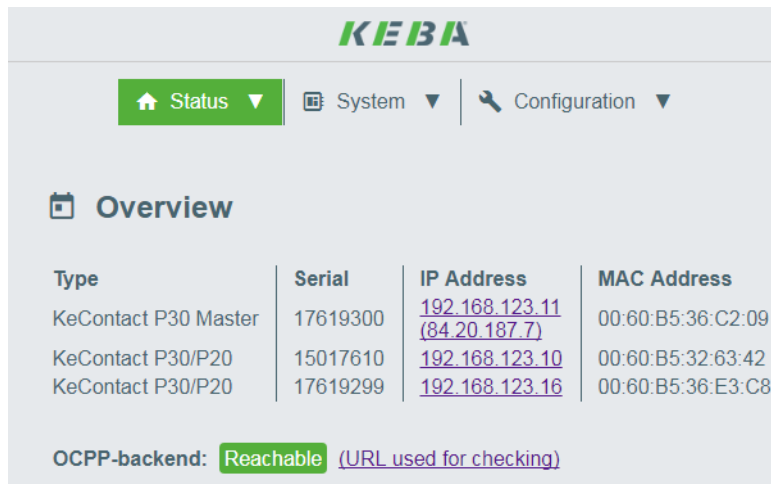
You can configure your KeContact P30 x-series to connect to an existing WI-FI network or to be used as hotspot. For more details on how to configure and use the WI-FI function please read the configuration manual.

5.2.10. More information in the logs

The logs and diagnostics downloads have been enhanced to deliver more information on the wallbox. The WebUI includes all logs to download.

5.2.11. More information in the WebUI

In the overview section of the WebUI the IP Addresses and MAC Addresses of the master and slave wallboxes are shown.



Type	Serial	IP Address	MAC Address
KeContact P30 Master	17619300	192.168.123.11 (84.20.187.7)	00:60:B5:36:C2:09
KeContact P30/P20	15017610	192.168.123.10	00:60:B5:32:63:42
KeContact P30/P20	17619299	192.168.123.16	00:60:B5:36:E3:C8

OCPP-backend: Reachable [\(URL used for checking\)](#)

5.2.12. RFID whitelist

The master broadcasts its RFID whitelist to the slaves. Each Slave can only store the first 20 RFID tags. Should any slaves go offline, they will only be able to use their local whitelist based on a maximum of 20 RFID tags. Please read the configuration manual for more details.

5.2.13. Authorization Disabled

When the Authorization in the WebUI is set to OFF, the LEDs of the P30 Master and Slaves will flash green.

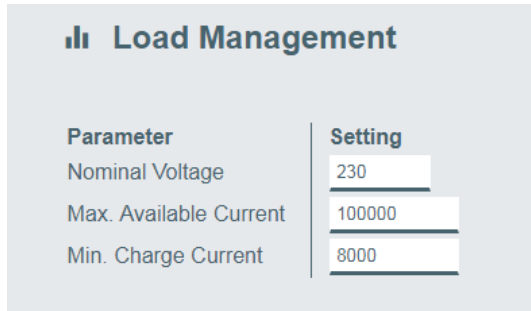
5.2.14. RFID Teaching

The teaching process has been changed. Please read the configuration manual where you can find detailed information about this process.

5.3. Fixed bugs

5.3.1. Keyboard inputs

It is now possible to select the value of the maximum or minimum current and input a new value.



Parameter	Setting
Nominal Voltage	230
Max. Available Current	100000
Min. Charge Current	8000

5.3.2. Load management recalculation

In the past, if a Master-Slave installation had no backend connection and the backend connection was established again during the charging session, it was possible for the load management to execute an incorrect calculation. The KeContact P30 is now able to manage the case of disconnection to the backend and execute correct calculations.

5.3.3. OCPP GetDiagnostic

GetDiagnostic upload now works with all FTP servers. Error on FTP Code 150 is fixed.

5.3.4. OCPP ResetRequest

A bug is fixed where the Reset command could randomly stall.

5.3.5. OCPP UnlockConnector

The UnlockConnector command no longer stalls.

5.3.6. Configuration of the serial numbers of slaves via WebUI

Now the configuration of more than 10 slaves serial numbers via the webUI does not stall the system.

5.3.7. GSM communication

GSM stability and reconnection capabilities has been improved.

5.3.8. Load management recalculation

In a master/slave installation, if an EV stops the charge because it is fully loaded, the load management will now correctly recalculate the available current for the other still charging EVs.

5.3.9. RFID authorization

It is not possible to restart a charging session with the RFID card on an EV that has been temporarily suspended by the load management function.

5.3.10. Load management charge rotation

The charge rotation of the load management now rotates correctly between all EVs.

5.3.11. OCPP communication: GetConfiguration

GetConfiguration returns the serial numbers of the connected connectors. In the past only the serial numbers of the first 2 connectors were acknowledged.

5.3.12. OCPP: Missing Transaction ID

In the past, the ID tag was sometimes missing in offline Start Transaction request. The KeContact P30 is now able to recover the ID Tag.

6. Version Package 1.4

Date of release: 24.03.2017

6.1. Package components

The current package contains the following components.

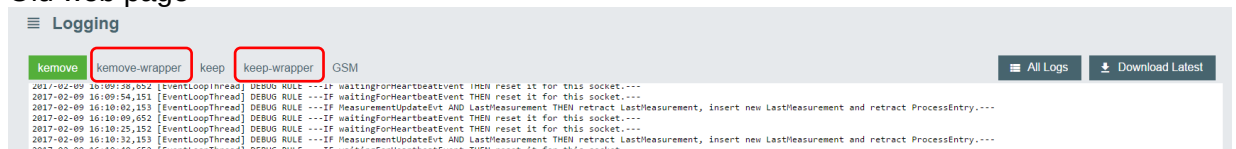
Version	Download
CPM	4.0.72
KEEP	4.0.23
P30 PDC	3.08.1
P20 PDC	2.5a4
MID-LED	2.3.6
OS	1.1.0

6.2. Implemented features

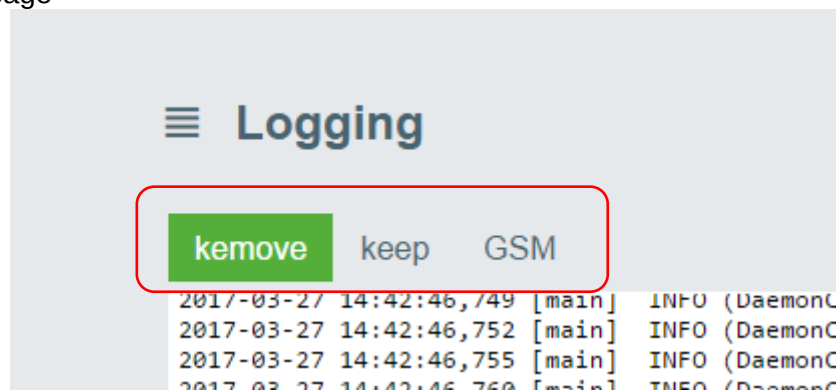
6.2.1. Unused logs have been removed

Unused tabs like "kremove-wrapper" and "keep-wrapper" have been removed from the logging web page.

Old web page



New web page



6.3. Fixed bugs

6.3.1. Update process interrupted by Master with no P20 slaves

During the update process of a standalone master (no slaves connected), the master tried to update broadcast the firmware of the P20 even though no P20 was in the system and as consequence the whole update process was interrupted because the master did not receive any response of P20.

6.3.2. Heartbeats were sent but no transaction possible

The Wallbox seemed to be offline because showed 3 leds flashing blue, but even though was sending regularly HeartbeatRequest to the backend and HeartbeatRequest were received successfully.

No OCPP messages like authorizeRequests, startTransactionRequests or meterValuesRequests could be sent except HeartbeatRequests.

6.3.3. GSM connection dropped every hour

Every hour the connection with the backend dropped due to the synchronisation with the NTP server and not always recovered in few minutes as expected.

6.3.4. Updates via HTTP not stable

Updates via HTTP could not be resumed due to no timeouts.

6.3.5. Housekeeping causes a disconnection to backend

Every day circa ten minutes after start of the Housekeeping (00:00 UTC), the connection to the backend was interrupted and the P30 was not able to recover and stayed offline.

6.3.6. Wrong logging of the P30

After copying kremove.log to backup files at least one process still was writing in the old file. This resulted in log entries missing in the current storage file.

6.3.7. Wrong version of WebUI

In the software update page of the WebUI it was displayed the wrong version of the WebUI, 1.0.6 instead of 1.0.8.

7. Version Package 1.3

Date of release: 09.02.2017

7.1. Package components

The current package contains the following components.

	Version
OSSCRIPT	1.0.8
WebUI	1.0.6
P20 PDC	2.5a4
P30 PDC	3.07.1a1
CPM	4.0.71
KEEP	4.0.22
MID-LED	2.3.6

7.2. Compatibility information

This firmware is compatible with all KeContact P30 x-Serie charging stations and connected KeContact P30 c-series in slave mode.

To identify your charging station, please compare your product code with the product codes table in the installation manual.

Follows a list of most important implemented features and fixed bugs.

All the features and fixed bugs related to the FW 3.07.1a1 included in this software package are reported in the release notes of the firmware 3.07.1a1.

7.3. Implemented features

7.3.1. Added firewall ports

The ports as PortCP and portHost are now taken into account in the firewall.

7.3.2. Save charging sessions

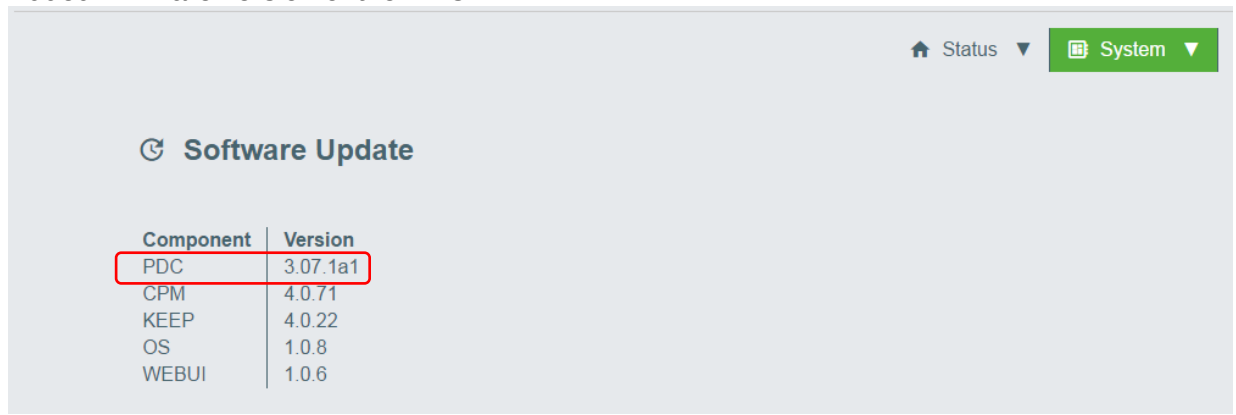
When the P30 is powered off during the charge, the date of the charging sessions are saved.

7.3.3. Logging - Outbound message

The P30 log all communication between master and slaves.

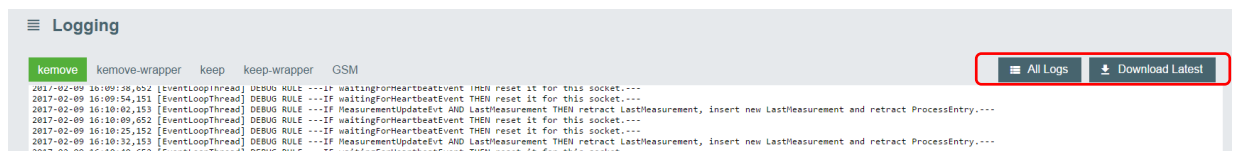
7.3.4. WebUI – visualisation of firmware

Added firmware version of the PDC.

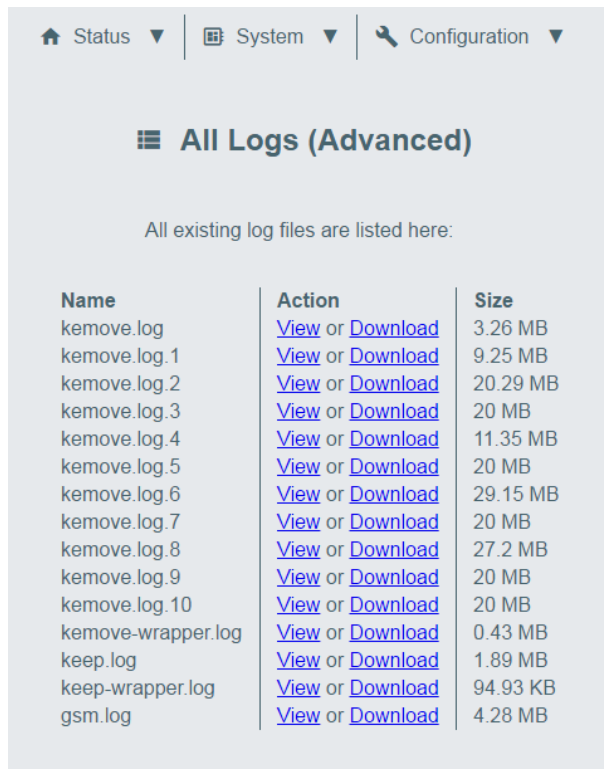


7.3.5. WebUI – Logging

Added "All Logs" button to "Logging" tab, allows individually viewing and downloading every single log file.



Here is shown a screen shot of what the user can see if clicking on “ All Logs”.



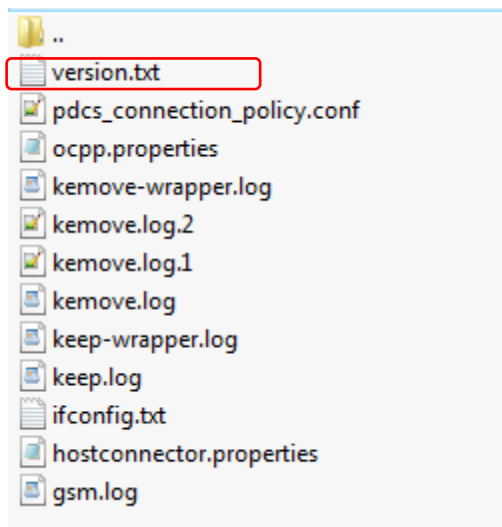
Name	Action	Size
kemove.log	View or Download	3.26 MB
kemove.log.1	View or Download	9.25 MB
kemove.log.2	View or Download	20.29 MB
kemove.log.3	View or Download	20 MB
kemove.log.4	View or Download	11.35 MB
kemove.log.5	View or Download	20 MB
kemove.log.6	View or Download	29.15 MB
kemove.log.7	View or Download	20 MB
kemove.log.8	View or Download	27.2 MB
kemove.log.9	View or Download	20 MB
kemove.log.10	View or Download	20 MB
kemove-wrapper.log	View or Download	0.43 MB
keep.log	View or Download	1.89 MB
keep-wrapper.log	View or Download	94.93 KB
gsm.log	View or Download	4.28 MB

7.3.6. WebUI - Wording

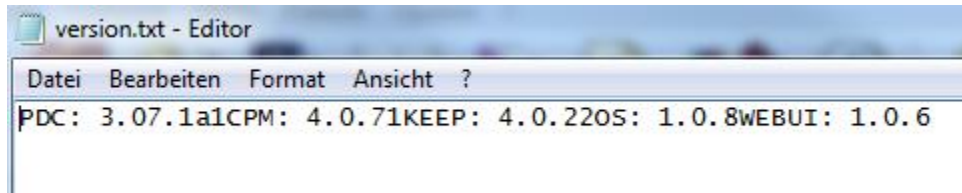
Renamed "Download All" to "Download Latest" in "Logging" tab (see 2.3.5).

7.3.7. WebUI – component version

Added the text file “version.txt” in zip file accessible by clicking on "Download Latest".



In this file are enclosed the information related to the versions of the software component.



7.3.8. WebUI - Browser responsiveness

Improved responsiveness on outdated versions of Microsoft Internet Explorer.

7.4. Fixed bugs

7.4.1. Update via GSM failed

While updating the P30 with a FirmwareUpdateRequest via GSM the download failed because the FTP server timed out.

Improvements have been implemented in this software package to reduce the possible time outs of the FTP server.

7.4.2. FileKeyStore Failure

Sometimes the Keystore was corrupted and could not be opened. Improvements have been done to reduce the probability of corruption of the Keystore.

7.4.3. House keeping

After a long running installation, in case the host communication was down, a lot of host communication session objects were created. The Housekeeping function did not clean up all the host communication sessions causing an overload of data.

7.4.4. OCPP - Improve reconnection after failure

In case the connection is bad, then the GSM connection could fail, or transmitting data could be slow causing a timeout. A reconnection function has been implemented to restore the connection.

7.4.5. OCPP –ResetRequest

The ResetRequest did not work as expected. The P30 did not restart.

7.4.6. OCPP – Bootnotification not compliant

The Bootnotification was not compliant because the field ChargeBoxSerialNumber had more than 25 characters, maximum prescribed in the ocpp specifications. The BootNotification will now contain only the charge point serial number.

7.4.7. Connector ID mismatch

The P30 did assign the same connector ID to two different sockets. This mismatch has been fixed in this release.

7.4.8. OCPP –StatusNotification errorCode field

When the P30 had an error and status=failed in the StatusNotification, then the errorCode was missing. Now the field errorCode is included in the Statusnotification.

7.4.9. OCPP – ChargePointService

When the GSM connection was restarted by the P30 because of a connection problem, the ChargePointService was not republished and the P30 did not respond to remote commands through the new ip address. A solution has been implemented so that the ChargepointService will be republished with its new ip address.

7.4.10. Update rollback

In case of an update failure the rollback did not work properly.

7.4.11. Firmware Updates of slave P20s

The P30 master was not able to update the connected P20.

7.4.12. GSM – Connection Timeout

In case of bad connection, timeouts occurred and the P30 did not handle them properly. This is improved in this release.

7.4.13. Load management

The P30 did not recalculate the current after a vehicle unplugged or did a wrong recalculation. This is fixed in this release.

7.4.14. Logging - files size

The log files had no size limitation causing a data overload. This is improved in this release.

8. Version Package 1.2

Date of release: 17.11.2016

8.1. Package components

The current package contains the following components.

	Version
OSSCRIPT	1.0.8
WebUI	1.0.2
P20 PDC	2.5a4
P30 PDC	3.04.2a1
CPM	4.0.68
KEEP	4.0.18

8.2. Compatibility information

This firmware is compatible with all KeContact P30 x-Serie charging stations.
To identify your charging station, please compare your product code with the product codes table in the installation manual.

8.3. Implemented features

8.3.1. The security of the updates has been improved

All SW Version starting from 1.2 will be encrypted. This imply that future updates from version 1.0 or 1.1 to version 1.3 won't be possible

8.3.2. The usability of the WebUI has been improved.

8.3.3. The use of the USB-stick can be deactivated

It is possible to disable the USB functions via the web-user interface. This means that it will be possible to avoid that non authorised personal could copy data of the P30 into a usb stick or that the P30 could be updated. With this new feature of the wallbox higher safety standards are guaranteed.

⚙️ Device		
Parameter	Value	Description
Authorization	☐	Enable/Disable the authorization on the wallbox. If authorization is enabled, the local whitelist is used if available (if no token is found in the list then the authorization request is forwarded to the OCPP-backend)
Number of Slaves	0	Defines the number of connected KeContact P30/P20 charging stations
SerialNo. Master	16802940	
Time Sync. Method	OCPP	How this KeContact P30 should set its local clock
Allow USB init	☒	If an empty USB stick is plugged in, should the complete current configuration and log files be written to it?
Allow USB config	☒	Should the configuration be changeable by plugging in a USB stick containing a CFG folder and a corresponding config file?

8.3.4. Increased timeouts of FTP downloads for weak network connections.

With this feature the download of updates is more stable.

8.3.5. More logs are attached to the log-download via the WebUI.

8.3.6. Improvement of the GSM reconnection functionality.

The P30 monitors the GSM connection and in case the GSM connection goes down the P30 will restart the connection procedure. This feature is available already in the previous version and has been improved in the present version.

8.3.7. On the WebUI is available a GSM signal test function to test the GSM signal strength for the current installation.

8.3.8. Timing of “Remove USB” improved

The message "Remove USB" on the display of the wallbox was shown only one time by the use of a USB-stick. Now the message is shown endless until the USB-stick is removed.

8.3.9. Time synchronisation improved

The wallbox tries to synchronise the system time via a NTP time server during the boot of the system. If the synchronisation is successful then a further synchronisation via the OCPP backend is not necessary and the second reboot of the application is not needed.

8.3.10. Load management improvement

On Master/Slave installations the recalculation of the charging plans for all EVs was adapted in the case a vehicle is getting unplugged.

8.3.11. Security improvement in the commissioning mode

Power will be turned off if a EV is plugged during commissioning mode.

8.3.12. Security improvement

Security improvement in the case of a contactor fault during power on. Charging will be prohibited right after the start up and an error code is shown by the HMI Leds.



8.3.13. Unlock command

Via smart-home it is possible to send a UDP command "unlock" to unlock the cable

UDP command:	unlock
Reply:	"TCH-OK :done"
Description:	For this command you have to stop the charging process first. For this, please use the command „ena 0“. Afterwards you can unlock the socket.

8.3.14. Unlock procedure improved

If an unlock is executed but the charging cable is not plugged off from the socket, the unlock is executed again twice.

8.3.15. Improvement on Logging

More information will be provided on the WebUI concerning of the start-up of the system.

8.3.16. Improvement of the PWM signal

Short spikes that used to appear before PWM starts have been removed

8.3.17. China norms and standards compatibility

The P30 firmware includes parameters for current monitoring that if activated bring the P30 compatible to Chinese norms and standards.

8.3.18. Authorisation with KEY switch implemented

8.3.19. “output” UDP command settings

Settings of number of pulse are now limited to a maximum of 150.

8.4. Fixed bugs

8.4.1. WebUI occp status

Although the connection to a HTTPS OCPP backend was established, the visualisation on the WebUI showed the status as "Unreachable".

8.4.2. WebUI – special signs in ocpp URL

Configuring the OCPP backend URL via the WebUI didn't work if the URL contained a "=" character.

8.4.3. OCPP – encrypted connection

Importing a zip file via USB-stick containing certificates for setting up an encrypted OCPP connection caused a NullPointerException.

8.4.4. Diagnostics – Download of large log files

The download of large log files (>14MB) via WebUI took longer than the default maximum execution time of 30 seconds. The download of large files was then interrupted. The timeout has been adapted and the download of large log-files is now possible.

8.4.5. WebUI – SIM card PIN visualisation

Even though the wallbox was configured with a PIN of the SIM, the “GSM SIM PIN” was shown as an empty field in the WebUI. This does not allow to verify if a PIN was configured or not. Now if a SIM-PIN is configured it is also shown on the WebUI.

8.4.6. Charging in offline mode

Misbehaviour of the wallbox in the case of starting a charging session in offline mode. As soon as the Wallbox was online again, the backend rejected the charging session but the wallbox continued to charge.

8.4.7. Update of P20 via master

P20 c-series slave firmware update via a P30 x-series Master did not work. Now is possible to update a P20 c-series slaves via the P30 x-series master.

8.4.8. Wrong Metervalues

On some Master/Slave installations happened that meterValues of the slave and master were mixed and wrongly registered by the OCPP backend

8.4.9. Configuration of serial numbers of slaves

On a MASTER/SLAVE installations there was only the possibility to configure the serial number of two SLAVES. Additional serial numbers were ignored by the system. Now is possible to configure up to 15 SLAVE serial numbers.

8.4.10. Single phase charging with a Zoe

The P30 checks the phases only with contactor off, not during charging.

8.4.11. iMiev - Delay time

It has been removed a delay time of 3 seconds ahead of charging to solve a compatibility problem with the i-Miev

8.4.12. OCPP – Unlock command

Under certain circumstances the OCPP unlock command did not work as expected because right after the unlock command the P30 locked again the cable.

8.4.13. Problem with Loxone

Automatically turn enable ON (ena 1) when connection to CPM is established (3 blue leds blinking) for FAILSAFE logic in case of on PDC without XPU.

8.4.14. Tesla charging switching from single phase to three phase

This feature has been implemented to avoid that the P30 detects an overcurrent failure in case of switching the supply line from single phase to three phase while charging a Tesla.

With this release is now possible to switch from single phase to three phase without a failure being detected.

9. Version Package 1.1

Date of release: 01.09.2016

9.1. Package components

The current package contains of the following components.

	Version
CPM	4.0.67-RC
KEEP	4.0.15-SNAPSHOT
OS	1.0.7
WebUI	1.0.1
PDC	3.02.4

9.2. Compatibility information

This firmware is compatible with all KeContact P30 charging stations of the type KC-P30-xxxxxxx-x0x-xx.

9.3. Implemented features

Description
WebUI - Added GSM Signal Test for testing the signal strength
WebUI - Extended log file download to receive more logs
WebUI - Improvement of the update procedure
WebUI - new symbols, adapting naming and descriptions
LED - to notification "Remove USB" on the .Matrix is shown longer

9.4. Fixed bugs

Description
GSM - Reconnecting procedure of a GSM connection which is down had timing problems
WebUI - OCPP Availability Check didn't work when a "=" was included in the OCPP backend URL
WebUI - timeout occurred when downloading large log-files.

10. Version Package 1.0

Date of release: 07.04.2016

10.1.Package components

The current package contains of the following components.

	Version
CPM	4.0.67-RC (05.04.2016)
KEEP	4.0.14
OS	1.0.6
WebUI	1.0.0
PDC	3.02.4

10.2.Compatibility information

This firmware is compatible with all KeContact P30 charging stations of the type KC-P30-xxxxxxxx-x0x-xx.

10.3.Resolved issues

This is the first version for the customer

11. Glossary

CPM

Charge Point Manager is the application running on the XPU which

Keep

This is the software component

OSSCRIPT

PDC

Power Distribution Controller is the hardware which controls the power circuits of the KeContact P30.

WebUI/WebHI

This is the web based user interface which allows the user to interact with the KeContact P30 by identifying the system, configuring, updating and debugging.

EV

Electric drive vehicle.

NTP

Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks. NTP is intended to synchronize all participating computers to within a few milliseconds of Coordinated Universal Time (UTC).