

## Information

### regarding the ZENNER direct - Delivery note portal

#### Registration

1. Open the following link to open the ZENNER direct delivery note portal:  
<https://portal.zenner.com/>
2. Below the last position on your **first** (paper) delivery note with MID meters or radio devices, there are unique login credentials for first registration in the portal.

You can download the key needed to unlock the devices at any time.

Directly to the registration under: portal.zenner.com

Your customer number: **123456789**

Your password: **123456**

**ATTENTION:** Registration is only required once and is only possible for one employee or only for one e-mail address from your company. At the end of the registration process, you will receive your password which you should document accordingly in order to make it available to responsible employees in the incoming goods department. With this password and the associated e-mail address, all subsequent log-on processes take place in the portal. After the initial registration, all the following paper delivery notes only contain the general notice that the portal must be used to download delivery note data:

You can download the keys needed to decrypt the devices at any time.

To sign in: portal.zenner.com

3. Click on the button "Registration for ZENNER direct".

**ZENNER**  
*All that counts.*

**ZENNER Direct**

**Your access to ZENNER direct, the online portal**

Please insert your account data and press LOGIN. To register at ZENNER direct please use the link below.  
Please contact the support center for help .

Client's number: \*

Password: \*

**Log On**

**» Registration for ZENNER direct** » support

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4. Enter the corresponding credentials (customer number and unique password).

Customer Number:

Online Password:  

**Step 2**

5. After successful identification complete the registration form with your personal data (\* Required fields).

First name:

Last name:

E-Mail:

Confirm E-Mail:

**Step 3**

Finally, you can check and confirm your information in the summary.

After successful registration you will receive an automatic confirmation email with your personal login details.

6. Log in to the ZENNER Portal with the submitted login credentials to get to your personal dashboard (<https://portal.zenner.com/>).

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**Note:**

**The registration process is required only once.** Other electronic delivery notes are automatically assigned to your account.

## First steps

- After logging in, you will be taken to your personal user interface.  
To view your delivery note data, please click on the "Search" button.

The screenshot shows the Zenner user interface. At the top, there's a header with the Zenner logo and navigation links like 'Contact', 'Company', and 'IMPRINT'. Below this, there's a section for 'LORA - SERIALNUMBERS' with 'INFO & HELP' and 'PROFILE' 'LOG OFF' links. A 'Filter' section contains a 'Search' button (highlighted with a red box) and buttons for 'XLS', 'CSV', 'XML', and a help icon. Below the filter, there are input fields for 'printed Serial' and 'delivery note no.'. A table with columns for 'printed Serial no.', 'delivery no.', 'Item', 'material', 'short description', 'radio technol...', 'radio protocol...', 'scenario', 'command Version', and 'WAN Version' is shown, but it currently displays 'No data'.

The screenshot shows the Zenner user interface with search results. The table has columns: 'printed serial no.', 'delivery no.', 'Item', 'material', 'short description', 'radio technol...', 'radio protocol...', 'scenario', 'command Version', 'WAN Version', and 'Join'. The data rows are as follows:

printed serial no.	delivery no.	Item	material	short description	radio technol...	radio protocol...	scenario	command Version	WAN Version	Join
EZR0248015994	2320620455	10	151400	ETKDE-P 2.5-110-1/2 R80H40V C MBUS						
04B648FC80000181	2320620916	10	160831	HKVE ZRC caltosE KOMPAKT LORA MV	LoRa		1		1.0.1	04b64e
04B648FC80000182	2320620916	10	160831	HKVE ZRC caltosE KOMPAKT LORA MV	LoRa		1		1.0.1	04b64e
04B648FC80000183	2320620916	10	160831	HKVE ZRC caltosE KOMPAKT LORA MV	LoRa		1		1.0.1	04b64e
04B648FC80000184	2320620916	10	160831	HKVE ZRC caltosE KOMPAKT LORA MV	LoRa		1		1.0.1	04b64e
8ZRI0011878605	2320620922	30	143124	MTKD-N 16-300-6/4 R8 R40 R80H CU 1L						
8ZRI0011990663	2320620922	10	143123	MTKD-N 16-300-6/4 R8 R40 R80H CU 1L						
8ZRI0011912458	2320624812	30	143124	MTKD-N 25-300-2 R8 R80H40V CU 1L						
8ZRI0011990660	2320624812	10	143123	MTKD-N 16-300-6/4 R8 R40 R80H CU 1L						
8ZRI0017006623	2320625745	10	151478	WPD DN65-200 40-R100H63V PN16 T50						

**Note:** An explanation of the column headings is enclosed in the appendix

You can choose between two views: **"Overview"** and **"Details"**

The screenshot shows the Zenner user interface with the 'Overview' view selected. The table has columns: 'DeliveryNoteNo', 'Delivery date', 'ZennerM...', 'ZennerShortDescription', 'Serialnumber from', 'Serialnumber to', and 'Quantity'. The data rows are as follows:

DeliveryNoteNo	Delivery date	ZennerM...	ZennerShortDescription	Serialnumber from	Serialnumber to	Quantity
<input type="checkbox"/> 2320628723	03.07.2018	160831	HKVE ZRC caltosE KOMPAKT LORA MV	04B648FC80000223	04B648FC80000236	14
<input type="checkbox"/> 2320628723	03.07.2018	160835	HKVE ZRC caltosE KOMPAKT wMB C1A RK	4ZRIFC80020948	4ZRIFC80020955	8
<input type="checkbox"/> 2320628723	03.07.2018	160835	HKVE ZRC caltosE KOMPAKT wMB C1A RK	4ZRIFC80020943	4ZRIFC80020946	4
<input type="checkbox"/> 2320628723	03.07.2018	160835	HKVE ZRC caltosE KOMPAKT wMB C1A RK	4ZRIFC80020957	4ZRIFC80020960	4
<input type="checkbox"/> 2320628723	03.07.2018	160831	HKVE ZRC caltosE KOMPAKT LORA MV	04B648FC80000238	04B648FC80000240	3
<input type="checkbox"/> 2320628723	03.07.2018	160835	HKVE ZRC caltosE KOMPAKT wMB C1A RK	4ZRIFC80020976	4ZRIFC80020978	3

The **"Overview"** view is especially helpful if a delivery of devices does NOT have consecutive serial numbers. This means that you can immediately see how many partial lots your delivery consists of and which serial numbers are included in which quantity.

The "Overview" view offers an initial overview of the delivery note number, date of material, serial numbers and number of items. By clicking on "Details" you can see further information on the delivery selected.

Clicking on column headings enables sorting e.g. by date or number of pieces.

2. Button **“Details”**: If required, you can download your delivery note data in an XLS, CSV or XML file. Click on the corresponding button.

The screenshot shows the ZENNER LORA SERIALNUMMERN portal. At the top, there are links for Contact, Company, and IMPRINT. Below the header, there are links for LORA - SERIALNUMMERN, INFO & HELP, PROFILE, and LOG OFF. A search bar is present with a 'Search' button and three download options: XLS, CSV, and XML. Below the search bar, there are input fields for 'printed Serial ...' and 'delivery note no.' with 'to' indicators. A table with various columns is shown below, but it is empty, displaying 'No data'.

e.g.: Structure XLS file:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Serialnummer	delivery note	item	material	short description	radio technology	radio protocol mode	scenario	command Version	WAN Version	JoinEUI	DevEUI	AppKey		
EZRI0248015994	2320620455	10	151400	ETKDE-P 2.5-110-1/2 R80H40V										
04B648FC80000181	2320620916	10	160831	HKVE ZRC caltoSE KOMPAKT LoRa	LoRa		1		1.0.1	04b648f800000000	04b648f800000181	91303084701AA4566		
04B648FC80000182	2320620916	10	160831	HKVE ZRC caltoSE KOMPAKT LoRa	LoRa		1		1.0.1	04b648f800000000	04b648f800000182	06A0B6CC2570665		
04B648FC80000183	2320620916	10	160831	HKVE ZRC caltoSE KOMPAKT LoRa	LoRa		1		1.0.1	04b648f800000000	04b648f800000183	76054123AFB748881		
04B648FC80000184	2320620916	10	160831	HKVE ZRC caltoSE KOMPAKT LoRa	LoRa		1		1.0.1	04b648f800000000	04b648f800000184	11EC462703461B7DE		
8ZRI0011878605	2320620922	30	143124	MTKD-N 25-300-2 R8 R80H40V										
8ZRI0011990663	2320620922	10	143123	MTKD-N 16-300-6/4 R8 R40 R										
8ZRI0011912458	2320624812	30	143124	MTKD-N 25-300-2 R8 R80H40V										
8ZRI0011990660	2320624812	10	143123	MTKD-N 16-300-6/4 R8 R40 R										
8ZRI0017006623	2320625745	10	151478	WPD DN65-200 40-R100H63V										
8ZRI001188453	2320625745	20	152095	EDC-C MB F. WP DN50-125 II										
8ZRI0011780496	2320626674	10	144073	RTKD-P-M 4-190-3/4 R80 CU										
8ZRI0011884532	2320626674	50	147285	RTKD-L-M 4-190-3/4 R80										
8ZRI0011899447	2320626674	50	140351	RTKD-M 4-190-3/4 R80										
4ZRI00180021008	2320627904	10	160835	HKVE ZRC caltoSE KOMPAKT wMBus										
4ZRI00180021009	2320627904	10	160835	HKVE ZRC caltoSE KOMPAKT wMBus										
7ZRI00000122256	2320627904	20	160927	RWM EASY PROTECT RADIO I				1.0.1		0000000000000000	0000000000000000	0000000000000000		
7ZRI00000122259	2320627904	20	160927	RWM EASY PROTECT RADIO I				1.0.1		0000000000000000	0000000000000000	0000000000000000		

3. If there are several delivery notes in your portal, you can set appropriate filters if required:

- Serial number (eg: printed serial no. X to Y)
- Delivery note number (eg: delivery note no. 1233455 to 1233455)

The screenshot shows the ZENNER LORA SERIALNUMMERN portal. At the top, there are links for Kontakt, Unternehmen, and Impressum. Below the header, there are links for LORA - SERIALNUMMERN, INFO & HILFE, PROFIL, and ABMELDEN. A search bar is present with a 'Search' button and an 'XLS' button. Below the search bar, there are input fields for 'printed serial no.' and 'delivery note no.' with 'to' indicators. The 'delivery note no.' field is filled with '1233455'. A table with various columns is shown below, displaying data for the filtered delivery note.

## Contact

**ZENNER International GmbH & Co. KG**

Support: [https://www.zenner.com/contact\\_form.html](https://www.zenner.com/contact_form.html)

## Attachment

Überschriften SAP Downloadportal / Header in SAP Downloadportal	DE		EN	
	Erklärung	Beispiel	Meaning	Example
PrintedSerialNo	Auf dem Gerät/Label abgedruckte Seriennummer	8ZRI0011995969 or 04B6480450001780 [14-stellige herstellerübergreifende Nummer nach DIN oder 16-stellige LoRa Device Nummer]	serial no. printed on the device/label	8ZRI0011995969 or 04B6480450001780 [14-digit no. acc. DIN or 16-digit LoRa dev.no.]
DeliveryNoteNo	Lieferscheinnummer	2320457173	delivery note no.	2320457173
Item	Lieferscheinposition	10	position in the delivery note	10
ZennerMaterialNo	ZENNER-Material-Bestellnummer	160874	ZENNER material order no.	160874
ZennerShortDescription	ZENNER Materialkurzbeschreibung	MTKDE 10-260-1 R40 R80H CU C L868 DV	ZENNER material short text	MTKDE 10-260-1 R40 R80H CU C L868 DV
CustomerMaterialNo	Kundenmaterialnummer des AG	12345	Customer material no.	12345
RadioTechnology	Funktechnologie	LoRa oder wM-Bus, sigfox, NB-IoT, ...	radio technology	LoRa or wM-Bus, sigfox, NB-IoT, ...
RadioProtocolMode	Funktelegramm Modus	S1, T1, C1 [wM-Bus Modi]	radio protocol mode	S1, T1, C1 [wM-Bus Modi]
Scenario	Szenario	1, 2 oder 3 oder 10 [siehe separate Telegrammübersicht]	scenario	1, 2 or 3 or 10 [see separate telegram description]
CommandVersion	Version der IR-Befehle	1.0	Version of IR command	1.0
LoRaWAN_Version	LoRaWAN Version	1.0.1 [Version der LoRa Spezifikation]	LoRaWAN Version	1.0.1 [Version of LoRa Spezifikation]
JoinEUI	JoinEUI	04B6480000000000	JoinEUI	04B6480000000000
DevEUI	DevEUI	04B6480450002174	DevEUI	04B6480450002174
AppKey	AppKey	9E24D464BEA957B8D12DC3FD2D4DA192	AppKey	9E24D464BEA957B8D12DC3FD2D4DA192
DeviceActivationMode	Methode zur Aktivierung des Gerätes im LoRaWAN-Netz	OTAA oder ABP	device activation mode	OTAA or ABP
NetworkKey	NetworkKey	für LoRaWAN 1.1 vorgesehen	NetworkKey	reserved for LoRaWAN 1.1
NwkSKey	NwkSKey (network session key)	nur bei ABP erforderlich	NwkSKey (network session key)	only necessary for ABP
AppSKey	AppSKey (application session key)	nur bei ABP erforderlich	AppSKey (application session key)	only necessary for ABP
DeviceAddr	DeviceAddr	nur bei ABP erforderlich	DeviceAddr	only necessary for ABP
MAC_Address	MAC-Adresse des LoRa Gateways	0008004A5EFE	MAC-Address LoRa gateway	0008004A5EFE
LoRaDeviceClass	LoRa-Gerätekategorie	A, B oder C	LoRa Device class	A, B or C
AES_Key	AES Schlüssel (wireless M-Bus)	5A8470C4806F4A87CEF4D5F2D9855566; RANDOM_KEY, NO_KEY, FACTORY_KEY [gerätespezifisch, ohne , Werksschlüssel]	AES Key (wM-Bus)	5A8470C4806F4A87CEF4D5F2D9855566; RANDOM_KEY, NO_KEY, FACTORY_KEY [device specific, without, factory key]
Frequency	Frequenzband	868_MHz, 470 MHz, ...	frequency band	868_MHz, 470 MHz, ...
RadioTelegramType	Funktelegrammtyp	--	radio telegram type	--
Cycle	Zyklus	--	cycle	--
SerialNoFull	Seriennummer des Wasserzählers (bei Zählern mit Funkaufsatzmodul)	8ZRI0011995969 or 04B6480450002299 [14-stellige herstellerübergreifende Nummer nach DIN oder 16-stellige LoRa Device Nummer]	serial no full of the meter (valid if meter with clip on radio module)	8ZRI0011995969 or 04B6480450002299 [14-digit no. acc. DIN or 16-digit LoRa dev.no.]