

| Customer Information   |  |                                |  |  |
|--|--|--------------------------------|--|--|
| R20_7_2_Information about the return of devices regarding dangerous          |  |                                |  |  |
| goods  |  |                                |  |  |
| Directive created or modified:<br>on: 03/01/2017<br>by: Frank Jünemann (UMB) | Directive checked and released:<br>on: 06/01/2017<br>by: Dr. Bunse (GGB-BfU), Andreas Bühling (GGB-QUNDIS) | Change index: 0<br>Page 1 of 7 |  |  |

#### 1 Returns to QUNDIS

#### 1.1 Returns to QUNDIS for complaint purposes

The QUNDIS return delivery note must be used:

http://qundis.com/service/downloads-and-information/transport-recycling-guidelines/

Please note that we may not accept any returns that were not transported in accordance with the applicable requirements.

PLEASE NOTE! Not all transport companies are qualified to transport dangerous goods. Ask the transport company and have this confirmed in the form of a relevant certificate.

The transport boxes or packaging for lithium batteries and all QUNDIS devices that use these batteries are always subject to a marking requirement. We expressly recommend the further use of the packaging used by QUNDIS GmbH for transport, since this fulfils all the necessary marking requirements. Care must be taken that nothing is glued over these labels. The special requirements concerning the protective function of the packaging are also satisfied by the packaging used by QUNDIS (furthermore, if the product becomes damaged as a result of the use of different packaging, warranty and guarantee claims can be rendered invalid).

If the original packaging is no longer available, you can refer to **Annex I** for the markings.

#### 1.2 Returns of old devices to QUINDIS with installed lithium batteries

PLEASE NOTE: Please observe the QUNDIS recycling instructions and use the QUNDIS return delivery note: <a href="http://qundis.com/service/downloads-and-information/transport-recycling-guidelines/">http://qundis.com/service/downloads-and-information/transport-recycling-guidelines/</a>

The transport boxes or packaging for lithium batteries and all QUNDIS devices that use these batteries are always subject to a marking requirement. We expressly recommend the further use of the packaging used by QUNDIS GmbH for transport, since this fulfils all the necessary marking requirements. Care must be taken that nothing is glued over these labels. The special requirements concerning the protective function of the packaging are also satisfied by the packaging used by QUNDIS.

Old devices according to Table 1 (lithium content less than 2 g) may be sent as bulk goods provided that the cells and batteries contained in them are safeguarded in an equivalent manner by the device. The outer packaging must have a sturdy design.

Old devices according to Table 2 (lithium content greater than 2 g) must be individually packed - preferably in the QUINDIS original packaging.

The marking and documentation requirements in accordance with ADR (road, rail) and IATA (air transport) must also be complied with for old devices.



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### Information about the transport of QUNDIS devices with lithium batteries

Lithium batteries are subject to the requirements of the dangerous goods directive GGVSEB and the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) as well as the International Air Transport Association Dangerous Goods Regulations (IATA- DGR), as the batteries are potentially hazardous. They are therefore subject to the national transport regulations depending on the mode of transport. The non-observance of the regulations for the transport of dangerous goods may result in significant fine proceedings.

The following sets of rules apply:

ADR English - European Agreement concerning the International Carriage of Dangerous Goods by Road

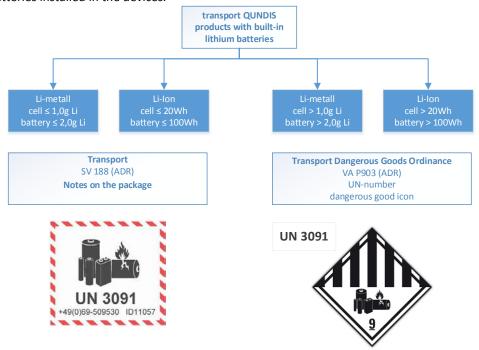
**ADR German** - Europäisches Übereinkommen über internationale Beförderung gefährlicher Güter auf der Straße

**GGVSEB** – Gefahrgutverordnung Straße, Eisenbahn, Binnenschifffahrt (Directive on the Transport of Dangerous Goods by Road, Rail and Inland Waterways)

IATA - International Air Transport Association Dangerous Goods Regulations (DGR)

**IMDG Code** – International Maritime Dangerous Goods Code

Different marking and documentation requirements result for the shipper depending on the lithium content of the cells/batteries installed in the devices.



#### Observe load securing requirements!

According to Sec. 29 (1) GGVSEB, the <u>shipper</u> and the <u>vehicle driver</u> among others must observe the regulations concerning the <u>securing of loads</u> according to Section 7.5.7 ADR. This includes the inspection of the load securing. **Fines** may be imposed in case of non-observance! Document the load securing and archive the enclosed form - see Annex III.



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#### 2 Transport regulation for devices with Li batteries (lithium content cell < 1 g, battery < 2 g)

| QUNDIS product | Name   | Lithium per cell [g] |
|----------------|--|----------------------|
| WFx3x.*        | Qwater (Volu3)   | 0.3                  |
| WFZ.BW*        | Battery replacement packet Megatron2                     | 0.6                  |
| WFZ.PS*        | Triggering tool for radio telegrams                      | 0.3                  |
| WFZ16.DM*      | Add-on radio module Deltamess                            | 0.3                  |
| WFZ16.WG*      | Add-on radio module for water devices                    | 0.3                  |
| WFZ16.AL*      | Add-on radio module Allmess                              | 0.4                  |
| WFZ16.EL*      | Add-on radio module Elster                               | 0.4                  |
| RWM5*          | Add-on radio module Modularis                            | 0.4                  |
| WTX16.232*     | Network node, radio 868MHz network network connection    | 0.6                  |
| WTX16.MOD-1    | Gateway GSM and GPRS external antenna network connection | 0.6                  |
| AEW3*          | Impulse adapter  | 0.6                  |
| HCA5*          | Qcaloric heat cost allocator                             | 0.3                  |
| HMC5*/HMR5*    | Qheat heat meter   | 0.6                  |
| MHM5*          | M-bus module for Q heat 5 QUN                            | 0.4                  |
| WME5*          | QWATER5.5  | 0.6                  |
| WMM5*          | Mech. water meter with installed add-on radio module     | 0.4                  |
| SDT5003xxx     | Qsmoke5.5 AMR-WB-S/C Qundis                              | 2 x 0.65             |
| SDT5ZZ3xxx     | Smoke detector standalone - Hekatron Genius H-N          | 0.65                 |
| SDT5ZZ20xxx    | Smoke detector standalone - Pyrexx PX-I (V3)             | 0.6                  |
| FBCRAA/KS      | Battery -Lithium- CRAA with cable and plug               | 0.6                  |
| FBR0018        | Battery_Saft_AA_Qnode5-LS14500_QUN                       | 1                    |
| RML5Q206xxx    | Q log 5.5 (lithium-ion cell)                             | 4.9 Wh               |

# 2.1 Road and rail: Transport of devices with batteries (lithium content cell < 1 g, battery < 2 g)

Marking Restrictions



Note! The transport company must be informed that lithium metal batteries are to be transported. This must be noted on the consignment note.



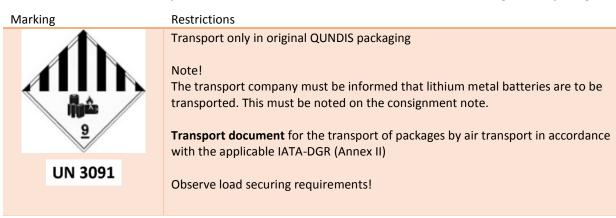
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#### 3 Transport regulation for devices with Li batteries (lithium content cell > 1 g, battery > 2 g)

Some QUNDIS devices are equipped with lithium metal batteries whose lithium content is greater than 2 g. There is no exemption for these devices.

| QUNDIS product         | Name                                 | Lithium per cell [g] |
|------------------------|--------------------------------------|----------------------|
| RNN5xxx                | Q node 5                             | 4.5                  |
| WTT16xxx               | Network node radio 868MHz battery    | 4.4                  |
| R20xxx, R21xxx, R28xxx | Calculator unit for split heat meter | 3.5                  |
| rcu4xxx                | Data collector                       | 10                   |
| RNG5xxx                | QGateway5                            | 2 x 10               |

#### 3.1 Road and rail: Transport of devices with batteries (lithium content cell > 1 g, battery > 2 g)





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# Annex I - Markings for dangerous goods

| 9   | Danger label/danger marking - Class 9 (in reduced size) black on white  Minimum dimensions: 100 x 100 mm  For cells with greater than 1 gram of lithium.   |
|---|--|
| UN 3091<br>Phone: +49(69)-509530 ID 11057 | Lithium Battery mark (in reduced size) black on white, red border with diagonal lines  Minimum dimensions: 120 x 110mm, width of hatching: 5mm  For cells with less than 1 gram of lithium.  If the size of the package requires, the dimensions and line width [approx. 3 mm] to at least 105 mm wide and 74 mm high. |
| UN3091                                    | Marking for UN3091 Lithium metal batteries in equipment letter height: minimum 12 mm   |
| UN3090                                    | Marking for UN3091 Lithium metal batteries<br>letter height: minimum 12 mm   |
| OVERPACK                                  | If an outer packaging is used and not all of the representative markings and danger labels for the dangerous goods contained within it are visible, the outer packaging with the printout OVERPACK (letter height: minimum 12 mm) must be applied to the package.  |



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| Sender (acc. to  |  | Recipient    |                    |                |         |           |              |  |
|--|--|--------------|--------------------|----------------|---------|-----------|--------------|--|
|  |  |              |                    |                |         |           |              |  |
| Documents  | carried  |              |                    |                |         |           |              |  |
| [x] Delivery   | note []C   | ustoms dod   | cuments            | [ ] IMO c      | declara | tion [ ]  | Written inst | ruction                                  |
| Information  | n about dangerou   | ıs goods     |                    |                |         |           |              |  |
| Packages   | <del>-</del>   |              |                    |                |         |           |              |  |
| Package<br>Code/<br>package<br>number  | UN number, official description (with necessary supplements) | Danger label | Packaging<br>group | Tunnel<br>code | Catego  | ry Number | Description  | Total quantity<br>(kg or I<br>[litres])* |
| 999994711  | UN3091 Lithium   | 9            | II                 | (E)            | 2       | 3         | Cardboard    | 6.5                                      |
|  | metal batteries  |              |                    |                |         |           | box          |  |
|  | in equipment   |              |                    |                |         |           |              |  |
| blue = example   |  |              |                    |                |         |           |              |  |
| Place/date:  Visual inspection of the vehicle and equipment, documents and tie-downs checked  Visual inspection of the vehicle and department (in print, stamp)  |  |              |                    |                |         |           |              |  |
|  |  |              |                    |                |         |           |              |  |
| Signature of sender/creator;Signature of the loaderForwarding agent, transposename, company and department (in print, stamp)sender/creator; name, company and department (in print, stamp)sender/creator; name, company and department (in print, stamp) |  |              | r; name, company   |                |         |           |              |  |

Transport in a supply chain that includes a carriage by sea or air)

#### [] The following exceptions are used:

#### [X] Transport without exceeding the exemption levels defined in 1.1.3.6

| Total quantity transport category 1 |     | Of these x 20 for (UN 1005 and UN 1017)         |      |
|-------------------------------------|-----|---|------|
|                                     |     | Of these x 50 for remaining substances:         |      |
| Total quantity transport category 2 | 6.5 | x 3   | 20** |
| Total quantity transport category 3 |     | x1  |      |
| Total quantity transport category 4 |     | Remains unconsidered for summation              |      |
|                                     |     | Sum according to 1.1.3.6.4 (less equal to 1000) | 20   |

<sup>\*</sup> For objects with gross mass in kg (for dangerous goods in devices and equipment that are unspecified in the dangerous goods list, the total quantity of the dangerous goods contained in kg or litres);

<sup>\*\*</sup> the calculated value must be rounded up 19.5 => 20



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# 5 Annex III - Load securing for dangerous goods transport in accordance with 7.5.1. ADR

| Date:  |  | Carrier:   |                      |                      |
|--|--|--|----------------------|----------------------|
| Vehicle registration:  |  | Name of the driver:                              |                      |                      |
| <u> </u>   |  | Delivery note number/                            |                      |                      |
| Dangerous goods delivered/to be shipped  |  | associated waste dispatch<br>note/transfer note  |                      |                      |
| delivered/to be shipped  |  | note/transfer note                               | yes/                 | no/                  |
|  |  |  | OK                   | not OK               |
| Check of documents Comparison of information i information acc. to ADR Remarks:  | in delivery note / waste dispatch or   | waste transfer note with load, check of          |                      |                      |
| ADR certificate available?   |  |  |                      |                      |
| Alcohol ban complied with?   | ,  |  |                      |                      |
| · ·  |  |  |                      |                      |
| Visual inspection of vehicle - Tyre damage - General vehicle of  |  |  |                      |                      |
| Visual inspection of equipm for obvious defects (e.g. cra  |  | e.g. hoses, couplings, lift trucks, etc.)        |                      |                      |
| Load securing  - Auxiliary materia - Load securing acc  Non-p - Positiv  - Lashing points su - Stacking of packa - Loading / unload Remarks: | ages allowed?<br>ing / securing of packages possible v                       | without damage?                                  |                      |                      |
|  | one of the points listed above is no<br>ne vehicle may not exit the premises | t OK, the superior to take further actions<br>5. | must be informed imr | nediately. Until the |
| Place:   |  | Signature of checker:                            |                      |                      |