VDA Verband der Automobilindustrie

VDA-Recommendation

Transfer of battery data

VDA 5013

Version 1.0, 2022-11



This recommendation describes how information on batteries, modules and cells can be requested and transmitted electronically in a structured manner for documentation in the vehicle file / vehicle documentation. It is not a substitute for electronic shipping notifications (e.g. 4987) or shipping or transport documents.

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1 Introduction

The identification of vehicle batteries or individual components is necessary for various reasons. Some of these reasons are listed below as examples:

- Tracking in the supply chain
- Vehicle documentation
- CO2 footprint
- Recycling
- Legal requirements

This results in the necessity of documenting which batteries/components with which properties have been installed in which vehicle and the need to uniquely identify each battery/component worldwide. A frequently used identifier for this purpose is the REESS code, according to UN ECE Regulation 10 - Rechargeable Energy Storage System (REESS).

Batteries consist of cells and/or cell blocks. Cell blocks consist of cells.

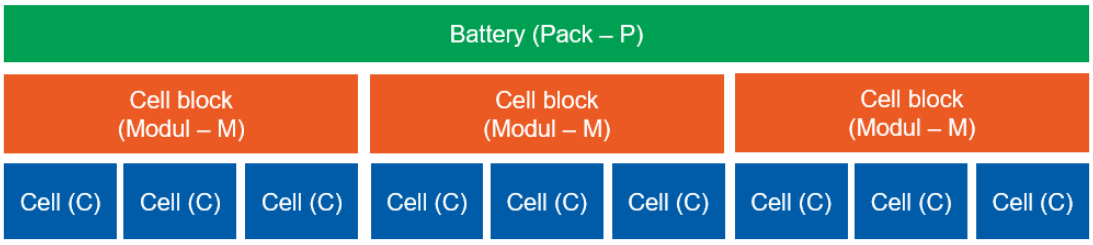


Figure 1: Schematic structure of a battery with three cell blocks and three cells each

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2 Process Description

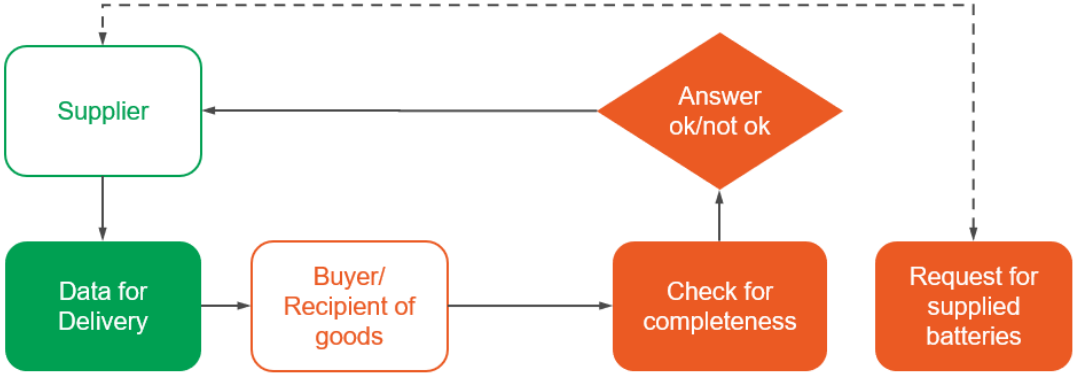


Figure 2: Process description

Parallel to the actual physical delivery, messages are exchanged between the supplier and the customer or goods recepient. The data sent for delivery are checked at the customer's/ goods recipient's premises. Particular attention must be paid to the correctness of the REESS codes and the completeness of the data. The result of the check is reported back to the supplier.p

In the event that battery data is missing, the customer/consignee can request this from the supplier. The supplier responds to this request with the delivery data. If the request message from the customer/goods recipient is incorrect, the supplier can also report this to the customer/goods recipient. A new request for delivered batteries or components may then be necessary.

2.1 Delivery Data

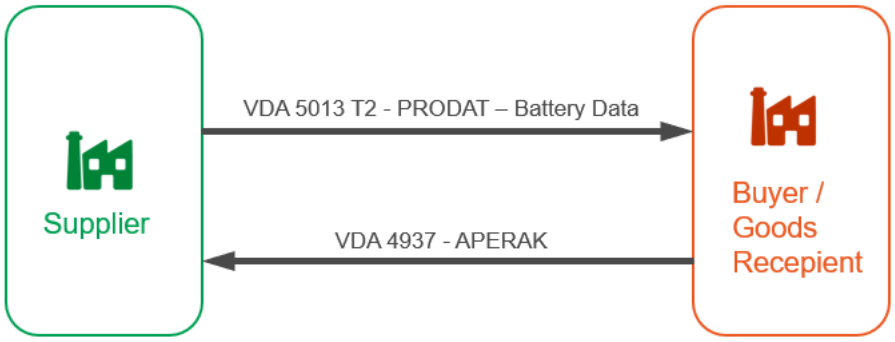


Figure 3: Delivery Data

Parallel to the physical delivery or in response to an enquiry about delivered batteries or components, the supplier sends a VDA 5013 P2 - PRODAT message.

After validation (plausibility of REESS code, number of cells, number of codes, etc.), the customer sends an APERAK according to VDA 4937 P2 as a response (Ok / Not Ok).

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2.2 Request for information on batteries/components already delivered

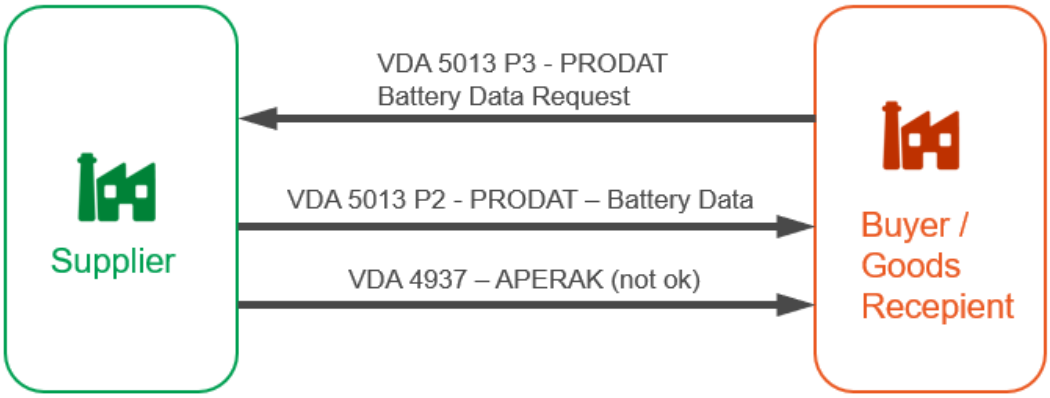


Figure 4: Request for information on batteries/components already delivered

The buyer sends a VDA 5013 P3 - PRODAT - message to the supplier. In response, either a VDA 5013 P2 - PRODAT - message with the requested data or an APERAK according to VDA 4937 P2 (not ok) is sent from the supplier to the customer.

2.3 Completeness check

The completeness check regarding battery and component data should at least check for transmitted duplicates and the number of transmitted REESS codes.

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If you notice any errors, omissions or ambiguities in these recommendations, please contact VDA without delay so that these errors can be rectified.

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