



Simplified Drawing at Hella

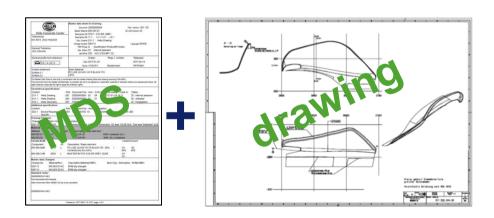
Realization of VDA 4953-1

Lippstadt, July 2018

Why a simplified drawing project?

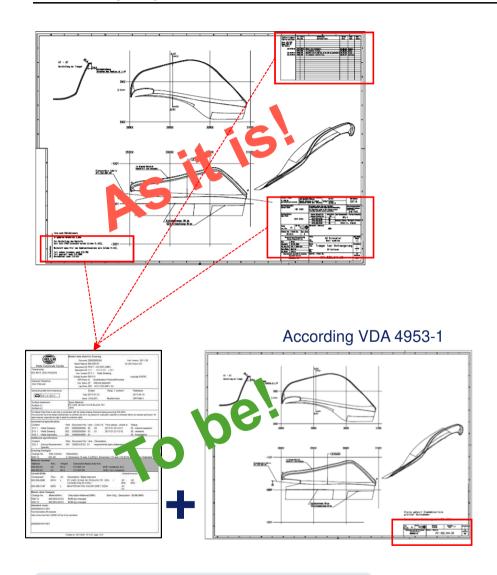
The consequent way to avoid redundant data, to improve data quality & to gain efficiency for product definition process.

=> It's the basis for a future 3D Master





Aim of project



As it is:

- Drawing reflects PLM managed data redundantly!
- Risk of inconsistencies, caused by manual maintenance!
- No trustable PLM information for further processes! (ERP, Data-Warehouse, Teamcenter, IQS [ePPAP], etc.)
- Huge effort to keep information manually in synchronization!

To be:

- Reduced amount of update cycles for Hella Drawings! (25% reduced change cycles)
- Increased efficiency in change management process (ECM)!
- Improved master data quality
- Organization prepared for "3D-Master" (drawing-free process acc. VDA 4953-2)

HELLF

Consequences

What will change?

- Master data (are removed from drawing and shown in a separate Master Data Sheet (MDS)
- MDS is the main sheet which shows a list of other related document(s)
- Version of MDS can be pushed forward for nongeometrical updates while version of drawing remains as it is without inducing CAD work

Remarks:

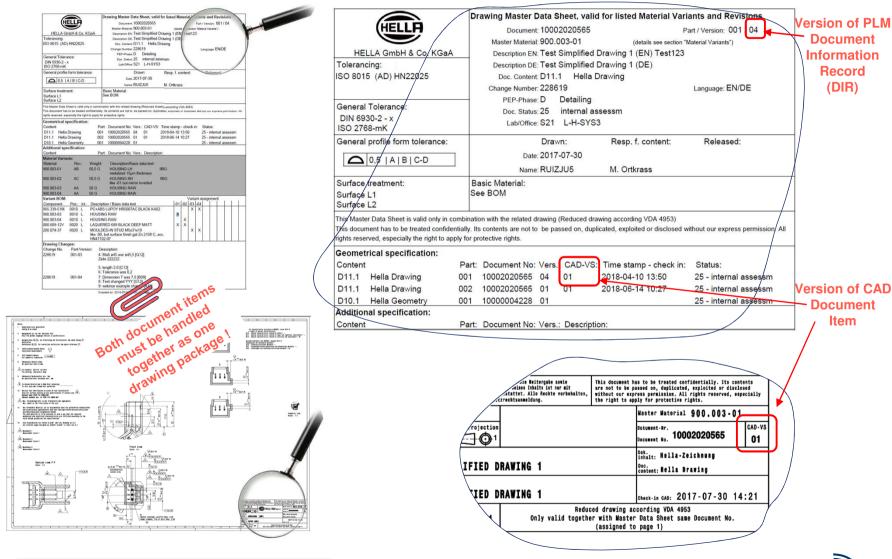
- ✓ Simplified Drawings with MDS and "old" drawings are running parallel, means there is no conversion planned of "old" drawings
- ✓ GoLive dates:
 - Aftermarket Dec. 2017
 - Lighting and Electronics Feb. 2018

What is the same as today?

- As today we have a document and material number for Identification
- In case of multiple material assignments a variant table is existing (on the MDS)
- The versioning rule for the Documents in PLM is the same as today.
- The material revision level is still the main key for Fit Form Function changes
- In addition to RevLv the change index is used to identify and mark geometrical adjustments
- Simplified Drawing is only used for document content D11.1 (Hella drawings), for other document contents is no change

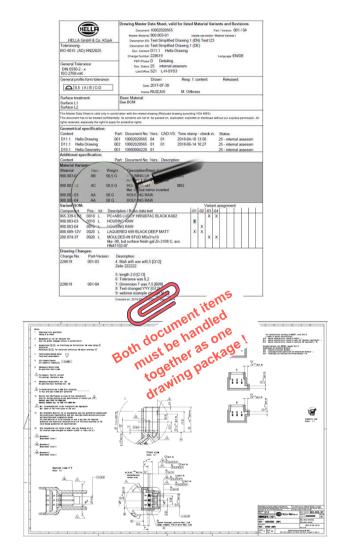


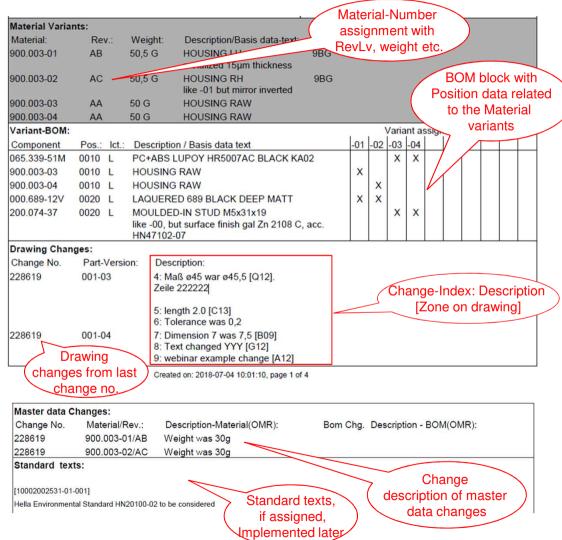
Example - Header data & List of related documents





Example - Material assignment and change documentation







Simplified Drawing ePPAP related info (IQS-Portal)

- In the IQS portal you find min. 2 pages, one for the MDS and one for the drawing.
 The page selection can be done in the red marked area.
- 2. The characteristics in the middle area are shown only for the selected page
- 3. A printing is still possible via the Administration menu point

