Simplified Drawing
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
Simplified Drawing
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)
## Simplified Drawing
### Consequences

<table>
<thead>
<tr>
<th>What will change?</th>
<th>What is the same as today?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Master data (are removed from drawing and shown in a separate Master Data Sheet (MDS))</td>
<td>• As today we have a document and material number for Identification</td>
</tr>
<tr>
<td>• MDS is the main sheet which shows a list of other related document(s)</td>
<td>• In case of multiple material assignments a variant table is existing (on the MDS)</td>
</tr>
<tr>
<td>• Version of MDS can be pushed forward for non-geometrical updates while version of drawing remains as it is without inducing CAD work</td>
<td>• The versioning rule for the Documents in PLM is the same as today.</td>
</tr>
<tr>
<td>Remarks:</td>
<td>• The material revision level is still the main key for Fit Form Function changes</td>
</tr>
<tr>
<td>✓ Simplified Drawings with MDS and “old” drawings are running parallel, means there is no conversion planned of “old” drawings</td>
<td>• In addition to RevLv the change index is used to identify and mark geometrical adjustments</td>
</tr>
<tr>
<td>✓ GoLive dates:</td>
<td>• Simplified Drawing is only used for document content D11.1 (Hella drawings), for other document contents is no change</td>
</tr>
<tr>
<td>- Aftermarket Dec. 2017</td>
<td></td>
</tr>
<tr>
<td>- Lighting and Electronics Feb. 2018</td>
<td></td>
</tr>
</tbody>
</table>
### Simplified Drawing

**Example – Header data & List of related documents**

<table>
<thead>
<tr>
<th>Component</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version of PLM</strong></td>
<td>Document Information Record (DIR)</td>
</tr>
<tr>
<td><strong>Version of CAD</strong></td>
<td>Document Item</td>
</tr>
</tbody>
</table>

**Both document items must be handled together as one drawing package!**
Simplified Drawing
Example – Material assignment and change documentation

Material-Number assignment with RevLv, weight etc.
BOM block with Position data related to the Material variants
Change-Index: Description [Zone on drawing]
Drawing changes from last change no.
Standard texts, if assigned, implemented later
Change description of master data changes

Both document items must be handled together as one drawing package!
1. 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.