Minimal requirements

In order to ensure the efficiency of the development process as based on the CAD data these certain minimum standards must be met.

At Hella`s the Q-Checker is taken to execute this check. The Hella Q-Checker profile is available at the Hella supplier package. When regularly applied by the persons involved in the development process, this tool facilitates the improvement of data quality.

The modeling rules sum up all notes necessary to satisfy the quality requirements. The table provides a list of general as well as "special" rules (being of importance for *CATParts or *CATDrawings only).

General modeling rules

Rule	Automatic verification
Data quality verification via the Q-Checker to be executed at least once a day.	
The models need to be error-free in CATDUA.	X
You should never try to duplicate or move a CATIA V5 model using the Explorer (Windows) or the File Manager (UNIX).	
Always make use of the "New from"-method when creating a new model which shall be based on an already existing CATIA V5 model.	
All CATIA V5 models must include an according mass and center of gravity.	
Model name: characters not allowed --> special characters, blanks permitted characters --> A-Z a-z 0-9 _ - . additionally permitted for standards --> #	X
Start files as agreed on with the departments are to be used.	
All CATIA V5 models as well as their contents need to be updated.	X
Claering of models: delete not needed elements (e.g.identical elements).	
Layer allocation: not allowed for, "none" will be taken as the model base. (reason: layer and filter are USER dependent)	X
Remove mini elements	X
You have to make sure the reconverting of CATIA V5 data.	

Rules for *.CATParts:

Rule	Automatic verification
At completed construction the main body must be processed (Define in Work Object).	X
The Part Design ist to be preferred to the Generative Shape Design. (Using solids instead of surfaces).	X
At completed construction the *.CATPart should include one body only (FinishedBody).	X
A sketch should not compromise more than one closed curve.	X
A sketch must be fully parameterized (completely defined).	X
A closed volume must, at least, dispose of point continuity.	X
There should be no cavities in the solids.	X
There should be no folded surfaces.	X

Rules for *.CATDrawings:

Rule	Automatic verification
A view should be linked to a *.CATPart / *.CATProduct	X
Nested 2D components (details) should be avoided (detail made use of in details).	X
Empty views and detail sheets are to be averted.	X
A *.CATDrawing may not consist of more than one sheet.	X
A *.CATDrawing may not include unused details.	X
Allowed scales valid on DIN ISO 5455, examples are: 20:1, 10:1, 5:1, 2:1, 1:1, 1:10, 1:5, 1:2	X
Format and tables of changes have be in background. Tables of changes with EXPOSE 2D COMPONENT to Detail Sheet and there you have to make the changes.	
Own view for text	
File - Page Setup: Standard Hella RXX, Sheet Style e.g. A2 ISO (conditioned by the CA-Agreement)	