■ Fundamental rules for the exchange of DXF data

It is best to conceive each DXF file as an independent, cleaned document. Therefore, everyone who generates DXF data should ensure that references to other plans, databases or other documents external to the plans are deleted. Likewise, care must be taken that no empty layer or text layer is transferred with it.

Many systems offer help lines (virtual lines, building lines), which are usually handled very specifically and can lead to problems when transmitting. Such help lines must therefore by placed in a separate layer or deleted before the conversion.

The transmission of fonts over DXF is not possible. The only things that can be transmitted are the name of the font, the width, height and the angle of inclination. So that the plan layout is to some extent correct, vector-orientated standard fonts should be used. Intelligent fonts such as PostScript or True-Type fonts are not transmittable. Therefore such fonts should be omitted from the start.

Likewise, umlauts and special characters should not be used if possible, since their transmission between different systems does not always work perfectly.

When creating a DXF file there is a possibility to create a log file.

AutoCAD Version						
12	13	14	2000	2004	2007	2010
possible versions of DXF data LUX ELEMENTS → customer						
			possible versions of DXF data customer → LUX ELEMENTS			

■ Fundamental rules for the exchange of 3D model data

It is best if data exchange takes place in the file formats:
– ACIS documents (*.sat)
– STEP documents (*.step; *.stp)

A model (subassembly) should consist of as many individual parts as possible, providing it is not an individual part itself.

Outlines should consist only of lines and radii, not of spline(s).