

ISO/ TC 59/ SC 13
- ORGANIZATION OF
INFORMATION ABOUT
CONSTRUCTION WORKS



“The home of BIM standards”

Presentation: IFD Library group workshop

Case: VDI 3805 goes BIM

2010-02-11

www.standard.no/SC13



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VDI 3805 goes BIM



VDI 3805 describes an EDP data format for product catalogue data of manufacturers of Building Services equipment to be used in software applications for layout, calculation, CAD, design, planning and management. Manufacturers can administrate their data bases centrally. Commercial, technical and geometrical data can be handled together and updated in real time. This reduces costs and avoids redundant data! VDI 3805 provides a common data base for any EDP system.

The use of standardised product properties from the DIN Properties Dictionary enables international use. The transfer of VDI 3805 to ISO standard is imminent.



VDI 3805 goes ISO

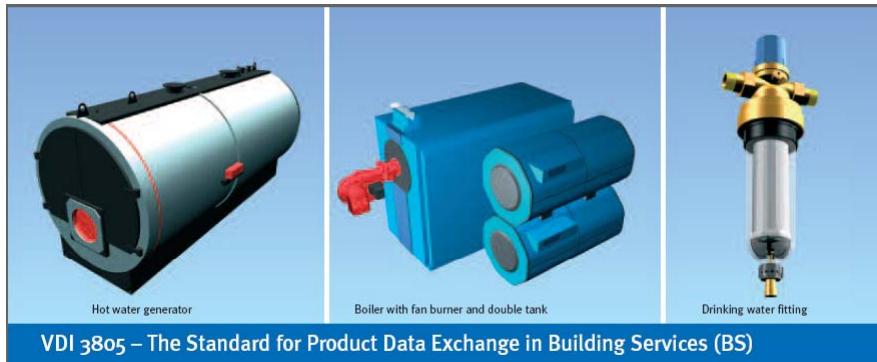
Prof. Dr.-Ing. Rainer Hirschberg

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VDI 3805 going BIM



1 guideline and 35 IFD's



VDI 3805 Standard Pages

1 Fundamentals	13 Air humidifiers	25 Ceilings Floor
2 Heating value assemblies	14 HVAC silencers (passive)	26 Channel radiators
3 Heat generators	15 Heat recovery devices	27 Induction devices
4 Pumps	16 Fire damper	28 Ceiling radiation plates
5 Air openings	17 Drinking water fittings	29 Pipes, moulded parts and insulation
6 Radiators	18 Surface heating/cooling	30 Measuring devices for heating cost billing
7 Fans	19 Solar collectors	31 Heat exchangers fluid/water-water
8 Burners	20 Storage tanks and instantaneous water heater	32 Distributor/collector liquid media
9 Modular ventilation equipment	21 Compact air conditioning appliances	33 Control
10 Air filter	22 Heat pumps	34 Distribution boxes
11 Heat exchanger fluid/steam – air	23 Ventilation devices for flats	35 Dampers, blinds and volume flow control units
12 Expansion vessels	24 Split systems Cooling	99 General components

- Development of the IFD specification reports (IFD's) can be done in parallell



MANUFACTURERS supplying VDI 3805 files:

Arbonia, ARI Armaturen, Belimo, Bemm, Brötje, Buderus, Danfoss, DiaNorm, Ebro, Elco, Frese, Gampper, Hagan, Heimeier, Herz, Honeywell, Hora, Gunzenhauser, Junkers, Kemper, Kermi, KaMo, KSB, Meibes, Möhlenhoff, Oreg, Oventrop, ProLux, Purmo, Roßweiner, Sauter-Cumulus, Siemens Building Technologies, Stiebel Eltron, Sunline, Taconova, Trox, Uponor, Vaillant, Victaulic, Viessmann, Watts, Westaflex, Wolf, Zehnder, Zewotherm

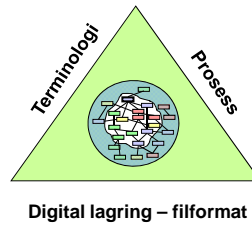
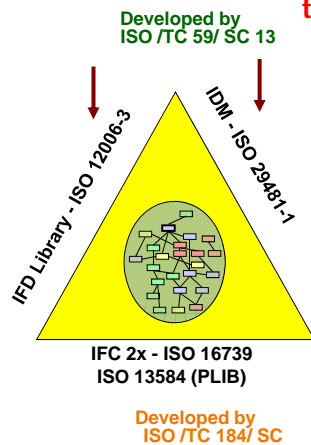
Compatible with all reputable software applications

SOFTWARE HOUSES supporting a VDI 3805 interface:

C.A.T.S., ConSoft, Data Design, Dendrit, ETU-Software, G.O.L.D., Hottgenroth-Software, liNear, mh-software, pit-cup, Plancal, Rehau Akademie, RoCAD, Rubicon, SOLAR-COMPUTER, TACOS, Wilms

Standards enabling interoperability

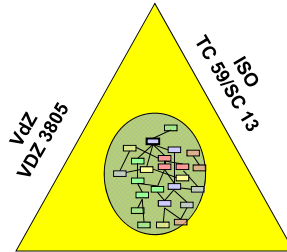
Standards for the AEC industry



Interoperability of understanding



Vereinigung der
deutschen
Zentralheizungs-
wirtschaft e.V.



buildingSMART
IFD Library Group



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Please remember....



- BIM => building information MODELLING
- Modelling => A process for developing knowledge
- Common understanding is important
- Content is King!
- Sustainable development
 - High degree of re-use is important
- Show benefit for the different users groups!
- Get support from the industry
- Process
 - Use right people to do the right thing at the right level
- ***Start easy – start with IFD***



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E-trade for contractors



- IDF is enabling E-trade
- Procurement is the most critical single factor for ROI
- Average ROI is about 5% for contractors
- About 50 - 70% cost is related to procurement of material and transport
- Cost of ordering wrong products: **DELAY++++**
- and it is not environmental friendly!
- If 1% improvement of procurement could be enabled through implementation for IFD → **Go for it...**
- Complete implementation take time and include change of procedures (culture), not only technology.
- Start preparing now!
 - Do the low cost, and time demanding issues now - IFD specification reports.



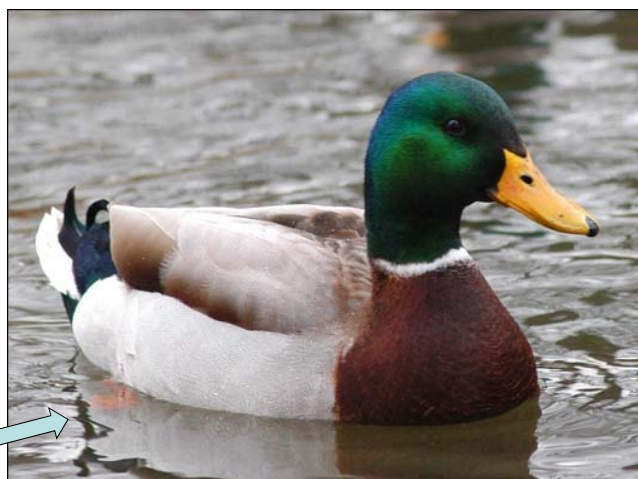
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Show the (b)right side of IFD!



When you have content (cake) it comes to you!

*Stop discussing order:
hen or egg
Do you have construction
Relevant content
- you will get contractors*



- High technology!
Works in water and on land.



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Questions?



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- *Make is a simple as possible, but not simpler
Einstein*

