BIM in the HVAC Industry

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About us

Vision – How we see ourselves

• The ARGE sees itself as a driver of digital industry processes.

• The ARGE as an innovation leader and bearer of know-how provides services that continuously generate market benefits for its members.

• The ARGE establishes standards and creates optimized processes and systems in cooperation with its market partners.

• The ARGE makes sure that the market partners obtain top-quality data and services in a fast and easy manner, and in a timely fashion.

➤ EXPERT IN DIGITAL INDUSTRY PROCESSES IN HVACR
Our members

ABA BEUL
Ademco 1
Airfit
ait-Deutschland
Alape
Almess
Aloys F. Dornbracht
ARI-Armaturen
Armacell
BEMM
Bertrams
Bette
Biral
Bosch Thermotechnik
burgbad
BWT Wassertechnik
CALEFFI Armaturen
Citrin Solar
Dallmer
Danfoss
Dehoust
DELTAMESS
Deutsche Vortex
Dirano Badmöbel
Duravit
Duscholux
EMCO Bad
ESBE
Euraspiegel
Fermit
Fiora
Flamco
Franke Aquarotter
FRÄNKISCHE ROHRWERKE
Friedrich Gampper
Geberit
Gebr. Kemper
GROHE Deutschland
Grünbeck
Grundfos
Günter Zierath
Hans Sasserath (SYR)
Hansa
Hansgrohe
Hebad
Heinrich Leifeld
Heinrich Schulte
Henco
HEWI
HOESCH
HÜPPE
IBP
Ideal Standard
IMI Hydronic
INDA
J. van Walraven
JUDO
Jung Pumpen
Kaldewei
Kampmann
Kermi
Kessel AG
KEUCO
KLUDI
Kolektor Missel
König & Rönneberger
Koralle Sanitärprodukte
KSB
KUHFUSS DELABIE
Kunststofftechnik Schedel
KWC Franke
Laufen
Maico
Meibes
Mepa
Neoperl
NMC Deutschland
NORMA Germany
NORMBAU
Oliveira & Irmão
Oventrop
Palme
POLOPLAST
poresta systems
Reflex Winkelmann
Remeha
REMKO
RETTIG
ROTEX
Roth Werke
sam
Sanipa
Sanit
SanSwiss
SCHELL
Schlösser Armaturen
Schütz
Seppelfricke
SFA SANIBROY
Simplex
Spirotech
STIEBEL ELTRON
STS
TECE
Uponor
Vaillant
VASCO
Viega
Villeroy & Boch
VitrA
W. Schneider
Wavin
WILO
Wisa
Wolf
Zehnder
30 years of experience
Competence in digital HVACR

Product data
- Standards
- Systems
- Software
- Formats

EDI
Computerized bathroom planning
Internationalization
Systems/Technologies

Quality assurance
Management
Distribution
Consulting
Portals Co-operations

BIM
ETIM
Analysis

DATA
**BIM** is a co-operative working method by means of which information and data can be collected consistently, managed, and communicated transparently, and which serves as the basis for the representation of a building’s life cycle (source: BMVI).

**BIM capability of data** means a combination of 3-D geometries and alphanumeric information to facilitate the integration of such data in a planning process at any time.
BIM from the ARGE point of view

- Data creation
- Data validation and management
- Data distribution
- Market observation
- BIM trends also outside the HVAC industry
- Coordination within the HVAC industry with market partners

➡ Full Service Organization

**Status quo:**

- Content, range and depth of the BIM-relevant product features have yet to be formulated.
- Software- and IT-system interfaces need to be adapted.
- The digital synthesis that BIM is actually based on has not yet been put into general practice.
The objectives:

• Fast and easy generation/processing of BIM-capable data
• Operation/further development of an ARGE BIM portal
• Cost-optimized distribution
• Data provision in the formats required by the market
Services include

- Data generation and advice for ARGE members
- Software for data provision (data creation done by the industrial company)
- ARGE BIM portal for data distribution and website integration
- Acquisition of own login- and registration mechanisms
- App development
- BIM CAD plugins
- Member-specific workshops
Data import & export possibilities

Import possibilities (text attributes + geometry):

1. BMEcat + STEP
2. CSV + STEP
3. VDI 3805
   ➔ Format about to become a standard in the HVAC industry
4. Autodesk Revit data
5. Combination of BMEcat + data modelling
6. Data modelling and master data creation

Export possibilities from the portal (excerpt):

RFA (Revit)
GSM (ArchiCAD)
NDW (Allplan)
SKP (Trimble Sketchup)
3ds
DWG 2-D and 3-D (AutoCAD)
DXF 2-D (AutoCAD)
IFC (interchange format)
VWX (Vectorworks)
VDI 3805 (SB)

and many more
The ARGE BIM portal

The ARGE BIM portal embedded in the HVAC industry portal operated by the ARGE
The ARGE BIM portal

Configuration of the products and download of BIM-capable data in more than 40 formats
Conclusion and outlook

- Requirements on product data are constantly increasing.
- Uniform requirements (standardization) are an essential prerequisite for BIM.
- The industry has to be actively involved in BIM.

→ The ARGE accompanies and supports the industry. It sets the course and can respond flexibly to market situations.

CADENAS, as a partner to the ARGE, lays the technological foundations for the creation and distribution of BIM-capable data from the industry.
Thank you very much for your attention!

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Discussion round