CEN/TC 442 ‘Building Information Modelling’

Øivind ROOTH, CEN/TC 442 Chairman

2016-02-29
The new CEN/TC 442

- The new CEN/TC 442 on BIM (Building Information Modeling) was recently created by CEN/BT decision with Standards Norway secretariat

- CEN/TC 442 web page - Scope

- CEN/TC 442 Business Plan
CEN/TC 442 meetings

- First meeting took place on 2015-09-16 in Brussels
- The second meeting was held in Oslo last February
CEN/TC 442 meetings

• The next meetings:
  – 2016-04-27/28 WG meetings, Paris
  – 2016-06-20/21 TC 442 Plenary, lunch-to-lunch, Lisbon
  – 2016-09-12/13 WG meetings, Berlin
  – 2016-10-26 TC 442 Plenary, one day, Madrid
  – 2016-12-12/13 WG meetings, Vienna
  – 2017-02-14/15 TC 442 Plenary, France (place to be determined)
  – 2017-03-29/30 WG meetings, Stockholm (to be confirmed)
  – 2017-06-19/20 TC 442 Plenary, Zürich
CEN/TC 442 Work Programme

• During the first meeting, the TC decided to start the approval process on the adoption of:
  - ISO 16739:2013 - Industry Foundation Classes;

• The three Work Items have been created and expected to be voted shortly (CEN/TC 442 Work Programme)
CEN/TC 442 Structure

• The TC decided to create 4 working groups for the development of the future work (CEN/TC 442 structure):
  o Working Group 1 - Strategy and Planning – BSI secretariat;
  o Working Group 2 - Exchange information – DIN secretariat;
  o Working Group 3 - Information Delivery Specification – ASI secretariat;
  o Working Group 4 - Support Data Dictionaries – AFNOR secretariat.

• And a Chair Advisory Group a permanent group created with the aim to coordinate and advise on generic issues across the CEN/TC 442 working groups
CEN/TC 442 Liaison Organizations

• The concept of Partnership with European Organizations and other stakeholders – CEN-CENELEC Guide 25
  – CERAME-UNIE – The European Ceramic Industry Association
  – European Federation of Engineering Constancy Associations
  – FIEC – European Construction Industry Federation
  – building Smart International
  – European Commission – DG Grow – Unit C1 - Clean Technologies and Products – Category 4 (European Counsellor)

• Annex III Organization (Reg. 1025/2012)
  – SBS – Small Business Standards
CEN/TC442 - Structure

CEN/TC 442 – Building Information Modelling Plenary

WG 01
Strategy and Planning
UK

WG 02
Exchange Information
Germany

WG 03
Information Delivery Specification
Austria

WG 04
Support Data Dictionaries
France

Chairman’s Advisory Group

Gonçalo Ascensão, Alexandre Beltrão
Convener: Richard Waterhouse

Secretary: Danny Peacock

• provide guidance to CEN/TC 442 related to the development of the Business Plan and Work Program

• monitor worldwide and European current and planned activities regarding Building Information Modelling (BIM)

• provide strategic advice to CEN/TC 442 on matters and issues related to CEN/TC 442 and focus on developing the European strategy for BIM standardization

• to actively collaborate with ISO/TC59/SC13/TF02 - Business Planning and Strategy
WG2 - Exchange information
Secretariat: DIN (Germany)

Convenor: Thomas Liebich

Secretary: Andrea Schilde (replaced by Britta Grotewold)

- development of electronic formats for information exchanges (such as ISO 16739 (IFC))

- development of subsets of such electronic formats for specific information exchanges (such as MVD)

- specification of data content to be exchanged using such specific information exchanges (such as data drops)

DECISION 047 taken by CEN/TC 442 on 2016-02-16:

Scope for WG2 and WG 3 will be further developed once the WGs have had time to develop their areas of activity; “just start working”.
Convenor: Peter Kompolschek
Secretary: Stefan Wagmeister

Germany’s proposed scope for WG 3:

- development of an overall process definition for communication in the construction industry (such as process maps, as defined in ISO 29481 (IDM))
- identification of roles within such process definitions
- identification of input/output relations between such processes

DECISION 047 taken by CEN/TC 442 on 2016-02-16:

Scope for WG2 and WG 3 will be further developed once the WGs have had time to develop their areas of activity; “just start working”.

CEN/TC 442 'Building Information Modelling'
WG4 - Support Data Dictionaries
AFNOR (France)

Convenor: Roland Dominici
Secretary: Etienne Cailleau

• From the Business Plan:
  • Establish a common Data Dictionary framework and Application Programming Interfaces
  • Harmonisation of construction product properties
  • Harmonisation of European classification tables
  • Dictionaries and Object Libraries
Approved NWI:

- ISO 16739:2013 - Industry Foundation Classes;

NWIP to be further developed by the WG’s

- High level Information Delivery Manual (France)
- Data Dictionaries-Method of definition (France)
- Implementing a phase model for Building Information Modelling (Austria)
- Implementing a European properties server based on bsDD (Austria)
## Work programme

<table>
<thead>
<tr>
<th>Sections</th>
<th>Items</th>
<th>Deliverable</th>
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<tbody>
<tr>
<td>Understand the current position</td>
<td>Terminology</td>
<td>TR</td>
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<td>Identification of stakeholder expectations (roles, phases...)</td>
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<td>Common base of construction procurement methodology within Europe</td>
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<td>BIM Implementation wedges</td>
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<td>Available standards in the market (status and usage)</td>
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<td>Definition of construction exchange processes</td>
<td>TR</td>
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<td>Develop Exchange Information - IFC standards</td>
<td>ISO 18739 Industry Foundation Classes for data sharing in the construction and facility management industries</td>
<td>CEN ISO EN</td>
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<td>Extend and develop standards for industrial facilities and infrastructure</td>
<td>To define</td>
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<td>Record management</td>
<td>To define</td>
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<tr>
<td>Develop Information Delivery Specifications</td>
<td>ISO 29481-1 Building information modelling – Information delivery manual – Part 1: Methodology and format</td>
<td>CEN ISO EN</td>
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<td>ISO/TS 12311:2012 Framework for building information modelling (BIM) guidance</td>
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<td>Framework for BIM Guidelines</td>
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<td>Energy Assessment (EN 15603)</td>
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<td>Lifecycle Cost estimation and Assessment (CEN / TC 350)</td>
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<td>Facility Management and Operation,</td>
<td>To define</td>
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<td>Building Applications (Planning and Regulatory Authorities)</td>
<td>To define</td>
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<td>Support Data Dictionaries</td>
<td>ISO 12006 Building construction -- Organisation of information about construction works -- Part 2: Classification</td>
<td>To define (CEN ISO/EN or TS)</td>
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<td></td>
<td>ISO 12006 Building construction -- Organisation of information about construction works -- Part 3: Framework for object-oriented information</td>
<td>To define (CEN ISO/EN or TS)</td>
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<td>Common Data Dictionary framework and Application Programming Interfaces</td>
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<td>Dictionaries and Object Libraries</td>
<td>To define</td>
</tr>
<tr>
<td>Sustainability</td>
<td>Representing European sustainability standards in BIM</td>
<td>To define</td>
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Thank you for your attention!

Questions?

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