

Workshops at CLIMA 2019

Workshop n. 3

Third-party confidence for building projects: Eurovent tools to deliver value

How to to derisk projects

XXXXXXX, 27 May, 10:30 - 13:00,

Meeting Room XXXXXX

Workshop organizer(s)

EUROVENT CERTITA CERTIFICATION



Additional information at:

<http://www.eurovent-certification.com>

Presenters

Chair(s)

Erick MELQUIOND

EUROVENT CERTITA CERTIFICATION

Speakers

Erick MELQUIOND

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Cormac RYAN

COPILOT BUILDING

Vincent HENAULT

PRODBIM

Scope

Third-party confidence for building projects: Eurovent tools to deliver value - How to de-risk projects

Construction projects of performant buildings have always been a risky business.

Uncontrolled risk assessment could cost a lot of money to the investors especially since risks can arise at any stage of the project, from the pre-design to occupation.

This is why Prodbim, Eurovent Certita Certification, & COPILOT combine their expertise to offer a De-

Risk solution regarding Heating, Ventilation, Air Conditioning and Refrigeration (HVAC&R) that guarantees:

- Building risks management all along its life cycle
- Building performance management & building digitalised data management according to commissioning process

Focus on Prodbim Database service

With the new digital usage of the Building Information Modelling (BIM), and the multi-standards and countries codes, there is a need to deliver proper multi-formats of correct product data to the market. Prodbim, as part of the Eurovent group, provides a new service to HVAC&R manufacturers for the management of their product information (PIM).

The new BIM standard for the information exchange (standard file IFC format under ISO 16739) redefines the catalogue and custom product data to send to software.

As each European country has worked nationally in parallel until today, the first issue is to match the European HVAC&R **object and product dictionaries**, and their properties. Idea is to create a common usage, so each national dictionary can be linked to it as a kind of translation tool.

Moreover, precision of data necessary for a project is different depending of the stage of the project. Reference default objects need to be **commonly defined**. At the second stage of a project, only limited data are necessary: the list of minimum properties will be commonly accepted. At last stages of the project, complete list of attributes is a must: **completeness and correctness** of the product fiche will be an available information of the end-user.

Prodbim proposes to organise the **European work** through BIM HVAC&R manufacturers committees by products (Air Handling Units, Heat Pumps, Air Conditioners...).

Finally, the quality of product data, i.e. the coherence of data, the source of data, the values, and the certification of data is key to the users to select the relevant product according to its performance in the building and BIM project requirement. Prodbim will use its expertise to **check and improve quality** of the data provided by their source. Data will be offered on a dedicated platform.

To summarize, Prodbim data base service ensures:

- Harmonisation expertise
- PIM services
- Multi-countries & formats
- Security
- Updating
- Data Consistency
- Trustworthy 3rd party

This focus on Prodbim activity will highlight and explain status of the European work on data and its contribution to a harmonised database of products and properties.

Focus on Eurovent Certita Certification service

Eurovent Certita Certification (ECC) is a major European certification body providing voluntary 3rd party certification in the field of HVAC&R.

ECC relies on four pillars for a strong, simple, transparent and fair certification:

- **strong**: a large brand recognition of the certification brand, first of all locally, but also on European and even 'emergent' markets, supported by manufacturers;
- **simple**: a one-stop-shop certification body, able to take advantage of the same test or audit report through smart sampling based on datamining for certification of multiple models or ranges, and even mutual recognition of schemes;

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- **transparent:** a functioning based on Committees dedicated to each products, with a strong implication of manufacturers and laboratories for participative and consensual rules; and a Commission in charge of harmonisation and treatment of eventual appeals;
 - **fair:** constantly evolving reference documents, annually reviewed by skilful programme managers, committed to write documents based on more recent practices thanks to their involvement in standardisation and findings during testing campaigns.

The Certification Mark guarantees specifiers, installers and end users that the products and/or systems have been submitted to independent checking and that they have been accurately rated by an accredited and independent third party and that they conform to standards and will perform as advertised.

So, at last, it does not only give guidance but also confidence in the products.

The focus on Eurovent Certita Certification will go over every step of the certification process highlighting the impact on Indoor air quality. In particular, a specific programme is under development regarding ventilation systems, based on a simulation of reaction of equipment in regard to numerous cases of building configurations, would they be residential or commercial.

Focus on COPILOT Building service

Eurovent Certita, certifier of HVAC&R products, joined forces with REHVA to establish COPILOT Building Commissioning Solutions. The goal is to de-risk the entire HVAC&R ecosystem - from product manufacture to system operation.

COPILOT's mission is to certify HVAC&R commissioning. This provides third party reassurance that systems are designed, installed, tested and documented in accordance with client requirements.

COPILOT de-risks HVAC&R projects by:

- Planning projects to client **objectives**
- Reviewing system **design**
- Verifying and testing system installation
- Testing system **performance**
- Documenting and **certifying** the entire HVAC&R commissioning life cycle

COPILOT accredits commissioning experts to verify quality and performance on site in real-time:

- **QUALITY** via standardised protocols developed with international experts (cf REHVA)
- **PERFORMANCE** via client objectives which drive every step of the commissioning process

COPILOT's process can be applied to new and existing buildings. Energy savings alone generate payback of 1 to 4 years depending on project profile.

If you want to use COPILOT Certified Commissioning, please contact Cormac RYAN at c.ryan@copilot-building.com.

Conclusion:

Coherence of a project is determined by consistency on its design and implementation. Good quality equipment, nowadays well numerically defined, need to be properly installed and maintained. Thanks to Eurovent tools, quality in buildings increases for investments to be safer, and comfort in buildings to be increased.

Audience

All : Academics, technical experts, HVAC-R professionals...

Expected results

Good understanding of Eurovent tools and its ability to de-risk building project and drastically increase the quality & comfort in buildings for investments.

Programme

20'	Workshop introduction Erick MELQUIOND, EUROVENT CERTITA CERTIFICATION
25'	Focus on Quality of data in Building Information Modelling Vincent HENAULT, PRODBIM
25'	Focus on Certification of Ventilation equipment and Indoor air quality Sandrine MARINHAS, EUROVENT CERTITA CERTIFICATION
25'	Focus on Commissioning Cormac RYAN COPILOT BUILDING
5'	Conclusion of the Workshop Erick MELQUIOND, EUROVENT CERTITA CERTIFICATION
10'	Open discussion
