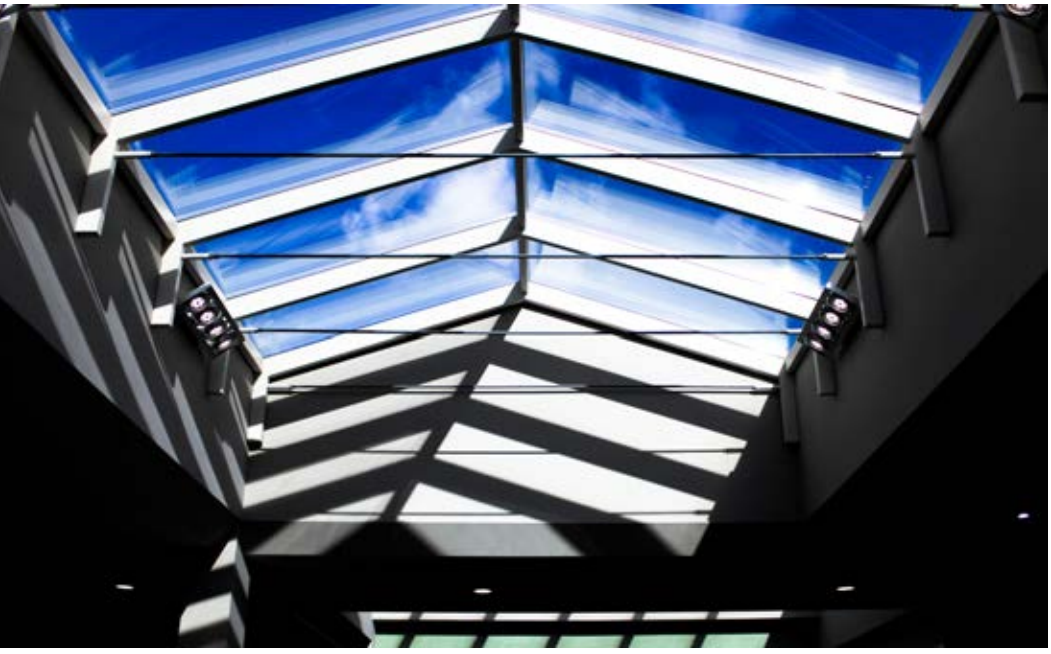
Catalogue
2025

ACCA SOFTWARE

The N°1 IFC openBIM® expert



ACCA software Headquarters

Transforming BIM into openBIM® is our mission

Guido Cianciulli
CEO ACCA software S.p.A.

"BIM can only be a success if all stakeholders in the construction sector can collaborate with each other in a simple way to create and update the information model. Everyone must be free to contribute to the BIM process with their knowledge and technologies, working on open and common data. We believe that BIM can't exist without openBIM® and transforming BIM into openBIM® is our mission. We are working to substantially change the BIM process, to focus on the use of information models and not on software as is currently the case. We want to make sure that BIM becomes more democratic with open collaboration spaces, tools that work on standard formats, ease of use and costs accessible to everyone all over the world. We are truly convinced that our membership as buildingSMART® international partners and our direct collaboration with multiple national chapters, will allow us to respond even better to the demanding needs of those like us who cannot envision the development of BIM, without openBIM®."

ACCA is the N°1 Expert IFC openBIM®

ACCA software is one of the world's leading manufacturers of software and services for the architecture, engineering and construction sectors.
A unique company providing international markets with cutting-edge software solutions that address all aspects of construction design, execution and maintenance.
Customers can find innovative answers to their needs; from architectural design, structural engineering, analysis and calculations, energy performance analysis, quantity surveys up to construction site health and safety, maintenance and BIM process management.
ACCA positions itself in the global market as the pioneer in transforming BIM into openBIM®.

ACCA is a multinational buildingSMART® member: all ACCA software BIM solutions are IFC certified by buildingSMART® International to ensure the correct use of data in an openBIM® process.
ACCA actively contributes to the technical advancements of buildingSMART® in various sectors (Rooms) and engages in the bSI Awards program, achieving recognition in multiple years. In 2021, ACCA was a finalist with the usBIM.ids project, in 2020, the company was awarded for the usIFC.server project, and in 2019, for the Structural E-Permit project.

ACCA software is also known for its BIM collaboration platform equipped with all the main tools and features to manage the BIM process (including interference detection, code checking, IFC editing, etc.) supporting all openBIM® formats (IFC, BCF, etc.).

In 2023, ACCA software confirmed its global leadership in the openBIM® field with the award of the special mention for innovation brought by usBIM.geotwin, the application that allows you to integrate openBIM® models, in the IFC format, directly into the GIS environment, opening the doors to advanced and intelligent geospatial management.

openBIM®

buildingSMART® Multinational Member

buildingSMART® Award Winner 2019 and 2020

Environmental sustainability and energy self-sufficiency

The technologies adopted during construction of the new ACCA headquarters aim at an ambitious goal: create a self-sufficient and zero-energy building, capable of guaranteeing the environmental sustainability of activities together with the energy necessary to maintain the conditions of internal well-being.
The protection of the facades facing west and east from solar radiation has been solved by studying a "double skin" for them: for almost all their development the facades are protected by a steel structure that, spaced 80 cm from the walls and at interaxes congruent with those of the primary structure, allows the support of horizontal and vertical shields.
Great attention to the comfort of the workplace. Indoor air quality control is entrusted to automatic and intelligent controlled mechanical ventilation systems with continuous indoor air renewal, heat recovery and heat loss control. Working with the natural lighting resource was of primary importance during design also for its positive implications in terms of energy efficiency and environmental sustainability. In the various workplaces, lighting is made with special continuous lanterns solved with sheds that collect natural light from the north to avoid the effects of solar radiation and offer a diffused distribution of light.

An example of a "smart factory"

The building is equipped with a sophisticated "building automation" infrastructure to maximize the comfort and safety of the occupants. The supervision and control infrastructure allows the automatic thermoregulation of individual rooms according to environmental changes, desired comfort and maximum energy savings. The quality of the lighting is also managed by electronic switches, sensors and local actuators integrated with the controls of opening or closing the sunshades for the exploitation of natural light. The system also oversees the operation of power loads, emergency power supply, communications and connections in and out of the building, the dissemination of audio-video sources and all aspects of security (security against unauthorized intrusions) and safety (global security of the building against gas leaks, fires or other harmful events).

BibLus

BibLus is the technical information service produced by ACCA software and provided free of charge to construction professionals.
Information, insights, publications made available on the site and in newsletters are the result of daily study, analysis and research activities carried out by ACCA experts for the development of application software.
The selection and production of "news", therefore, are particularly careful: it is not "disposable" information, but useful indications, close and responsive to the actual needs of the user and his professional activity.
At the speed and practicality guaranteed by the internet, BibLus combines quality content, developed to a high level of technical and regulatory depth.
BibLus brings the latest technical and regulatory updates on Public Works, Building Construction, Safety, Energy Performance, Renewables and Installations to the professional's attention... with a special focus on current events and new applications related to BIM and the digitalization process within the construction industry.
All content is disseminated to readers through newsletters and remains readily accessible on the blog, where you can conveniently search within the archive.
Our aim is to provide a constantly updated technical library serving as an online reference and professional knowledge hub for AECO technicians.

BibLus
www.biblus.accasoftware.com

Do you want to stay up to date on the latest news from the construction industry?
Would you like to receive advice, focus articles and technical guides?
Access the BibLus website through the QR code and subscribe to the BibLus newsletter for free!

International market partner

International partners offer access to new markets by collaborating with companies located in different parts of the world to connect with a wider and more diverse audience.
Through collaboration and exchange of expertise, ACCA has developed new methodologies and approaches that have enriched innovation capabilities and provided better solutions to customers.

Algeria
Algiers

Angola
Luanda

Argentina
Buenos Aires
Cordoba

Australia
Melbourne

Brazil
Santa Catarina
Minas Gerais
Paraná
São Paulo

Chile
Santiago del Chile
Guatemala

Colombia
Bogotà

Costa Rica
San José

Croatia
Osijek

France
Paris
Rouen

Guatemala
Guatemala City

Hong Kong

India
Karnataka
Gandhinagar

Morocco
Rabat

Mexico
San Salvador Tizatlalli

Nigeria
Ile-Ife

Portugal
Vila Nova de Famalicão

Spain
Madrid
Valladolid
Málaga

Switzerland
Lausanne

Turkey
Antakya

Venezuela
Caracas

BIM Management

usBIM

Cloud BIM integrated system

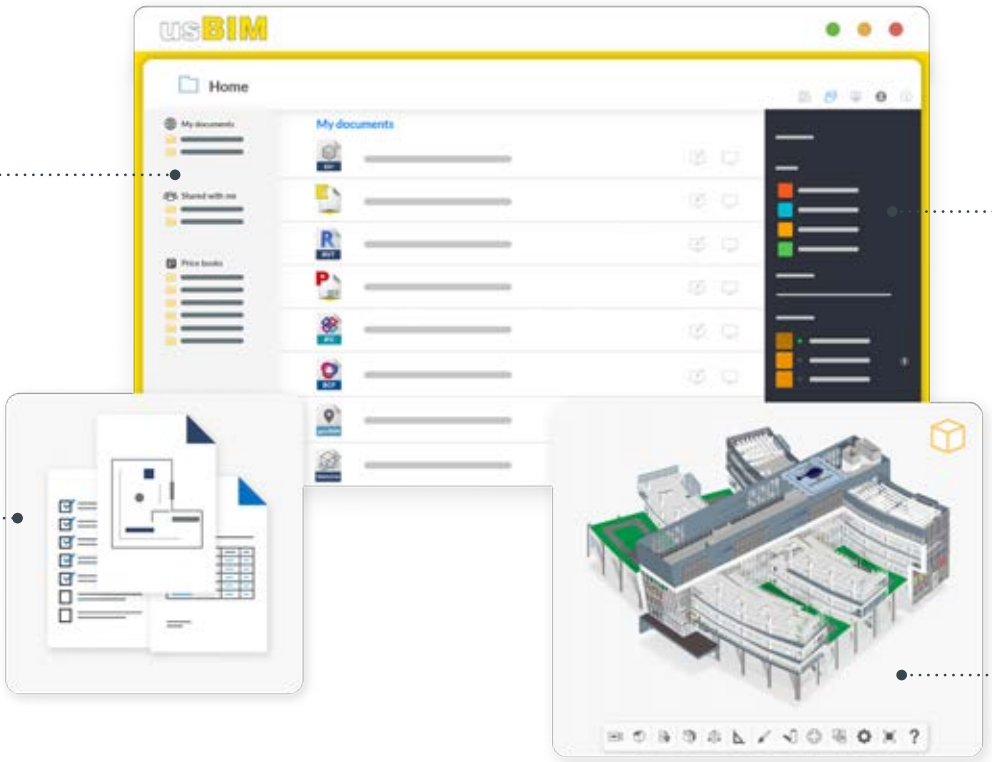
buildingSMART® certification for 2x3 import of IFC files

The BIM management system to digitalize buildings and infrastructures in an easy, secure and shared manner.

Find out how easy it is to collaborate in real-time with your colleagues, share and manage construction and large infrastructure projects working online using any device (PC, tablet, smartphone...) and from anywhere.

BIM document management system
Structure the project with 3D BIM models and integrated data

BIM collaboration
Collaborate in real-time with team members, communicate in online chat and video-conferencing



BIM coordination
Federate models, share data and coordinate project, execution and maintenance

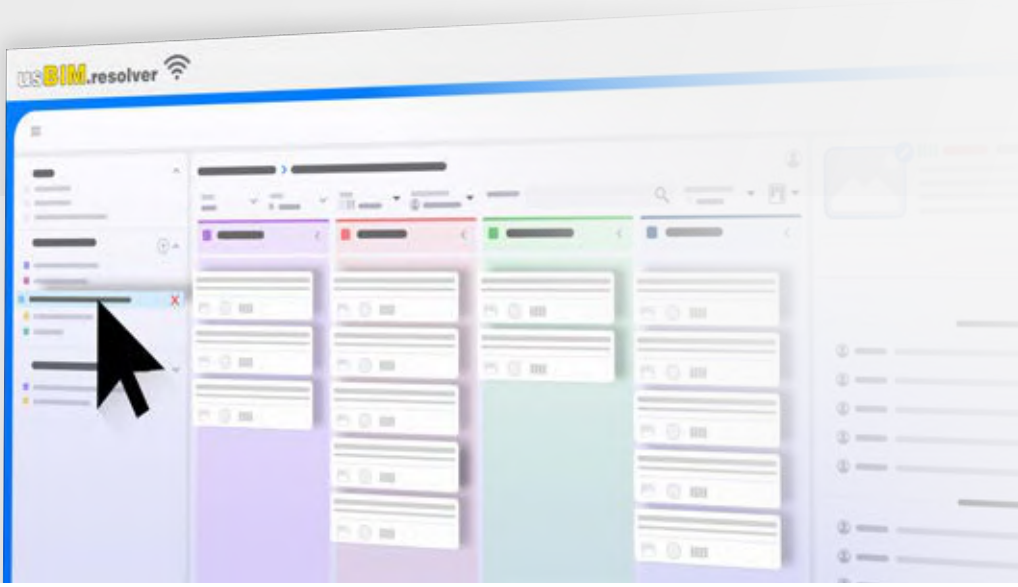
Online IFC viewer
View and manage even large 3D BIM models in various formats completely online

Synoptic table

APPS AND FEATURES INCLUDED WITH usBIM (INCLUDED AND FREE)			
usBIM.browser	View and manage 2D/3D files, documents, and models online	**usBIM.calendar**	Online agenda
usBIM.federation	Online federation of IFC, DWG, DXF files, point clouds, RVT files, etc.	**PriMus online**	Bills of Quantities & Price Books (light)
usBIM.writer	Built-in word processor	**usBIM.library**	Cloud management of BIM object libraries
usBIM.office	Viewing and Editing Microsoft Office® documents	**usBIM.bcf**	BCF (BIM Collaboration Format) management
usBIM.pointcloud	Online management of point clouds and textured meshes	**usBIM.IDSeditor**	Creation and management of files of an IFC model in the standard IDs (Information Delivery Specification) format for defining Exchange Information Requirements (EIRs).
usBIM.gis	Geolocation of BIM models and documents on GIS thematic maps	**usBIM.bSDDeditor**	Creating dictionaries and object libraries for the buildingSMART Data Dictionary
usBIM.chat	Chat online		
usBIM.meet	Video Meeting		
usBIM.media	Media Player		

BUILT-IN (ADDITIONAL) PLATFORMS, APPS AND FEATURES	
usBIM.platform	Common Data Environment in line with the UNI EN ISO 19650 standard and with the openBIM®
usBIM.resolver	Construction management and issue tracking (tracking of site and project problems, coordination of BIM projects)
usBIM.dossier	Document management (work file, digital file and document management for the construction site, engineering orders, transmittals)
usBIM.maint	Facility management
usBIM.firemaint	Management of the maintenance of fire-fighting systems
usBIM.iot	Integration of the BIM model with IoT sensors
usBIM.render	Photorealistic renderings of BIM models with Artificial Intelligence
usBIM.reality	Real-Time Rendering and immersive virtual reality of BIM models
usBIM.blockchain	Recording the BIM process data on the Blockchain
usBIM.clash	Clash detection between federated models in IFC format or other BIM formats
usBIM.checker	BIM validation and verification of model properties in IFC format
usBIM.editor	Editing the properties, classifications and attributes of objects in the format.
usBIM.compare	Comparison of revisions of a BIM model
usBIM.refactor	IFC file merge & refactoring
usBIM.bSDD	Classification of the elements of an IFC file according to the buildingSMART Data Dictionary
usBIM.facility	Facility management integrated with the structure's BIM model
usBIM.land	Terrain modeling from Google Maps
usBIM.blueprint	Floor plans, sections and elevations views and graphical tables from BIM models in the IFC format
usBIM.BI	Data analysis of BIM models, documents and processes with advanced BI functions
usBIM.IDS	Validation of Exchange Information Requirements (EIRs) (or LOINs) of an IFC file according to the Information Delivery Specification (IDS) standard
usBIM.planAI	Creating BIM models in IFC format from scanned drawings and PDFs with the help of Artificial Intelligence
PriMus online	Software cost estimating and construction cost management
usBIM.geotwin	Creation and management of Geospatial Digital Twins through the intelligent integration of openBIM® and GIS
usBIM.bridge	Bridge maintenance management
usBIM.gantt	BIM project planning (4D BIM project management)
usBIM.revolution	Plugin for Autodesk Revit for creating and managing classes and properties of IFC files

Project Management



usBIM.resolver

Construction Management

The online platform to manage and solve all the problems relating to each phase of the construction project.

The multidevice application that offers a powerful project monitoring and BIM coordination system. The most innovative solution to control ongoing activities at the construction site, respect deadlines, budget requirements, regulations and quality standards.

Define problems and assign tasks for issue management and resolution

- Creation of tasks with identification of responsibilities and definition of the state of emergency, deadline, tasks to be carried out, resources to be committed and documents necessary to solve the problem.

Identification and visual reporting of critical issues directly on the project

- Direct annotation of problems and non-conformities on 2D drawings and BIM models.

Recording and annotation of problems through photos

- Tasks and non-conformities created directly from the mobile device, with the possibility of including detailed photos.

Tracking of activities until closure

- Planning and visual control of activities and their progress through "grid" or "kanban" views.

Communication and sharing of data between the various actors

- Integrated instant chat for live communication from directly within the platform with all people involved in the process
- Share files, documents, photos, projects, etc. within a single cloud-storage space.

BIM issues tracking

- Identification of BIM issues directly from BIM model federations, from clash detection operations or during any other phase of the BIM process
- Viewing, storing and file sharing in many technical formats (IFC, BCF, RVT, SKP, EDF, DWG, PDF, etc.) from directly within the application.
- BIM issues management in the BCF format (BIM Collaboration Format).

Areas and activities that can be managed with usBIM.resolver

Designers

Project Supervisors

Construction site teams

BIM Managers and BIM Coordinators

Facility Management

usBIM.maint

Facility Management

Facility management software that allows you to see assets and maintenance interventions in 2D and 3D/BIM maps and models automatically.

An integrated cloud platform for maintenance planning, activity tracking and problem management. The versatile, flexible solution suitable for multiple needs.

Cloud-based facility management

- Access to information from any mobile device.
- Online data sheets with detailed data on buildings, plants and any other assets.
- QRCODE for quick access to information and dynamic data refresh.

Geolocation of assets, properties and plants

- Visualization of activities and places of intervention directly on DWG, DXF, PDF, point clouds or IFC BIM models.

Document management and interventions planning

- Cloud storage of documents related to each asset and sharing among the different stakeholders
- Alerts and notifications in case of expiry or lack of the required documents.
- Real-time monitoring of activities with scheduled maintenance activities and extraordinary maintenance requests.
- Ticket management for extraordinary interventions integrated with ordinary maintenance to optimize the use of resources and reduce interference.

Monitoring and performance analysis

- Automatic and customizable reports for viewing the technical data and monitoring ordinary and extraordinary maintenance activities.
- Setting specific SLAs and KPIs (with charts for each class of SLAs that highlight the number of interventions carried out as scheduled, late, out of SLA.)
- Evaluation of the indexes for equipment, MTBF (mean time between failure) and MTTR (Mean time to repair) for the programming of targeted interventions to prolong the life cycle of each component.

ENERGY MANAGEMENT

- Dashboard for real-time management of energy consumption.
- Remote control and remote connection with reading systems

Integration into a Common Data Environment for dynamic management of BIM models

- Dynamic updating of assets, properties and plants to the activities of designers, technicians, maintenance technicians, managers, etc.
- Dynamic update of the BIM model in relation to facility management activities.

Geospatial Digital Twin

usBIM.geotwin

Geospatial Digital Twin

openBIM® and GIS finally integrated to create extraordinary geospatial Digital Twins and Smart Cities.

From the dynamic connection between ACCA's usBIM.platform and Esri's ArcGIS® technology, usBIM.geotwin is born, the application for the digitization and geospatial management of buildings and infrastructures, without limits on the complexity, number and continuous updating of data.

Geospatial management and interrogation of IFC openBIM® digital models

- BIM information always available to GIS for geospatial queries
- Viewing of 2D and 3D shapes of the overall dimensions of the construction BIM model and of the model itself

Real-time updating of building and infrastructure data on GIS and integrated workflows throughout the life-cycle of the IFC models asset

- Information sharing, coordination of activities among different stakeholders and unlimited access throughout time to data thanks to the use of openBIM® formats

Detailed views of architectural, structural, building or infrastructure model federations directly from the geospatial view

Monitoring with IoT systems of the status of specific works and complex infrastructure systems

- Access directly from the GIS view and through IoT systems to the design information and data of Asset management, Facility Management, Risk Management.
- Experience models in Immersive or Augmented Virtual Reality.

openBIM GIS TECHNOLOGY®

esri

Common Data Environment

usBIM.platform

Common Data Environment

buildingSMART® certification for 2x3 import of IFC files

The secure, efficient and collaborative digital platform fully compliant with EN ISO 19650 and openBIM® standards.

usBIM.platform is the CDE solution for companies involved in the growing challenge of the digital transformation towards BIM. The best solution to share data with the highest security standards.

Online management and sharing of BIM files of any format and size

- view and manage online files of any size and different formats (IFC, DWG, DXF, PDF, OBJ, SKP, 3DS, RVT, etc.) that reside in the CDE;
- add and organize digital model data and metadata using #TagBIM keywords;
- manage point clouds and textured meshes to integrate digitally relevant processes into the BIM process for design, execution or construction maintenance;
- Navigate through models using Real-Time Rendering technology

Collaboration and coordination of the BIM project

- Live chat and document sharing for real-time revisions with collaborators;
- Revisions with Issue and Markups using graphical and textual tools to highlight problems directly on the document and send notifications across to collaborators calling up attention to critical issues that need to be addressed and resolved;
- Information Synchronization with feedback on document updates.

Assign roles and responsibilities to individual users, companies and teams

- Data Security and protection of information assets and fraud and errors prevention

Tracking of event history on behalf of other users

- Use the advanced gate and workflow management features
- Project activities, process and workflows definition with advanced task management functions
- Communication and collaboration across all team members

Automatic data backup system

- Guarantee of data recovery in case of their partial or total loss due to exceptional events (DisasterRecovery)

Health and safety plans, cost estimates management with online collaborative working tools

Design Construction

Edificius

Building design

Certified by buildingSMART® for IFC 2x3 file format import and export

The 3D/BIM building design software with highly advanced tools integrated in a single solution to bringing extra speed and higher productivity at your finger tips!

Architectural Design workflows with demolition and reconstruction interventions

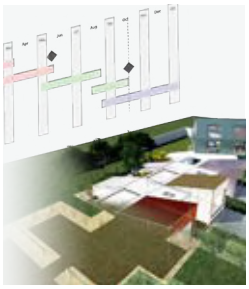
Interior Design

Interventions for the recovery of existing Heritage assets (HBIM)

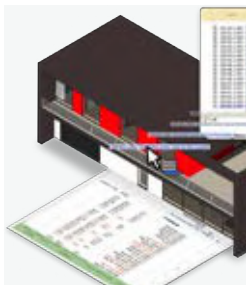
Landscape design and outdoor spaces design

MEP Plant systems modelling and sizing

Point Cloud (Point Cloud to BIM)



Project phasing, activities planning and timing



Cost analysis and evaluations

Rendering and Real-time rendering

Immersive Virtual Reality

2D/3D Modeling

- 3D input with parametric objects
- Online Objects Library
- Integrated 2D/3D CAD
- Google Maps® importer
- IFC file import/export
- Integration with Blender®, Rhino-Grasshopper® and SketchUp®

Project documentation

- Documents (reports, schedules, tables)
- Construction drawings (floor plans, sections, elevation views, isometric views)
- Comparison drawings (Demolish and Build)

Architectural visualization

- Real-Time Rendering
- Photorealistic Renders
- Scene photomontages
- Video editing
- Online model viewing

Comparison table	Basic configuration	Advanced configurations
DESIGN		
Architectural design	•	•
Interior design	•	•
Demolitions and Remodellings	•	•
Import of surveys and 3D modeling from Point Cloud (POINTCLOUD)*	•	•
Modelling of existing and historical building heritage (HBIM)*	•	•
Terrain modelling (LAND) *	•	•
Gardens and public spaces design	•	•
Electrical and mechanical plant modeling (MEP) *	•	•
Construction project time management	•	•
Automatic cost estimates from the project	•	•
CONSTRUCTION DOCUMENTS		
Architectural Reports	•	•
Tables and Schedules	•	•
Area plans	•	•
Floor Plans	•	•
Section Views	•	•
Elevation Views	•	•
Axonometric views and cutaway drawings	•	•
Isometric views	•	•
Comparison Tables (Demolish and Build)	•	•
INTEGRATIONS		
BIM object libraries	•	•
Edificius-CAD (Native 2D/3D CAD DWG)	•	•
Structural Calculations with EdiLus	•	•
BIM 5D - Construction Cost Estimating with PriMus	•	•
SketchUp®	•	•
Revit®	•	•
Blender®	•	•
Rhino-Grasshopper®	•	•
Google Maps®	•	•
ARCHITECTURAL VISUALIZATION		
Scene photomontages	•	•
Videos and Animations	•	•
BIM Model viewing in a simple Browser	•	•
Artificial Intelligence Rendering (with the AIrBIMpro2 module)*	•	•
Real Time Rendering (with the optional RTBIM module)**		•
BIM Video Studio (with the optional RTBIM module)**		•
Immersive Virtual Reality (with the optional VRiBIM module)**		•

* LAND, MEP, HBIM, Point Cloud and AIrBIM environments are integrated in Edificius free of charge
** RTBIM and VRiBIM environments are optional and can be added to basic configurations.

BoQs/project cost estimates Accounting

PriMus is also on the **WEB**

PriMus

Construction cost estimating

buildingSMART® certification for 2x3 import of IFC files

The complete BIM solution for estimating, planning and controlling construction costs

The software can provide adequate answers to the growing needs of the construction world, in particular for Planners, Construction Sites, Building Companies.

Construction cost management

- Construction cost estimates
- Construction site material requirements analyses
- Construction site costs management
- Access constantly updated price lists with articles, materials and prices for building and plant works.
- Free price list conversion service
- Printing, customization and export of documents in RTF, WORD, PDF, HTML, ASCII and CSV

PriMus

Online cost estimation

- perform cost estimating and job accounting tasks directly online and from any device such as a PC, smartphone or tablet
- collaborate in real time with other colleagues all at the same time on the same estimate or BoQ
- Data always available and in full data security in the cloud

PriMus online

Prepare your cost estimates and quantity takeoffs directly from BIM models in the IFC format.

- Identification of entities directly on the BIM model
- Automatic calculation of all project entities
- Visualization of the accounted entities directly on the 3D model
- Real-time calculation updates with every project modification.
- Apply measurement templates to similar entities used in new projects

PriMus IFC

Cost estimates directly from CAD project files:

- Drawing with an integrated 2D and 3D CAD
- Bills of quantities from AutoCAD®, DWG or DXF, Adobe® PDF, bmp and JPG files

PriMus TAKE OFF

Construction scheduling

- Work planning starting from the project cost estimate document
- Financial plan for the control of implementation times, advances, payments, etc.
- Reports and summary charts to be exported to Word® and Excel®.

PriMus KRONO

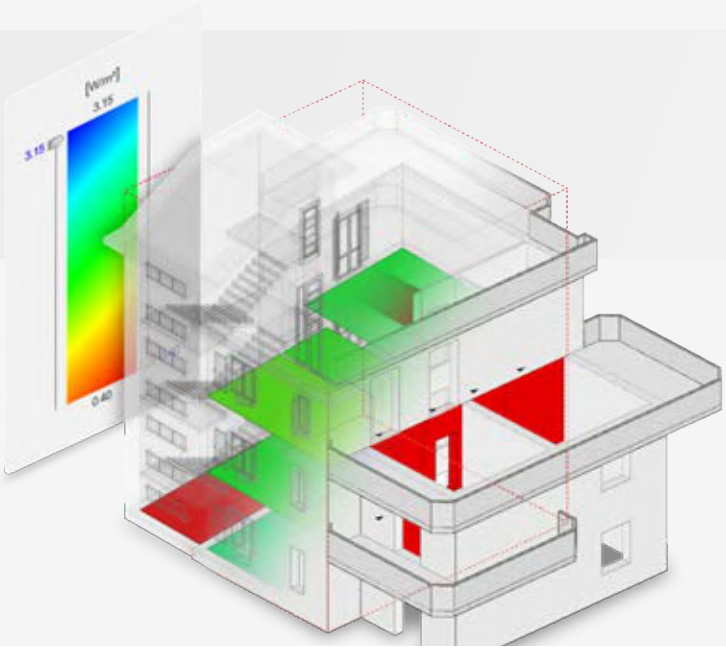
Comparison table	PriMus	PriMus IFC	PriMus PLUS	PriMus FULL
COST ESTIMATES, BOQS AND QUOTES				
BoQ and work estimates	•		•	•
Bids and proposals	•		•	•
Analysis of construction site requirements	•		•	•
Accounting	•		•	•
Importing and exporting to standard formats (XLS, DOC, etc.)	•		•	•
Import of databases, price lists and price books	•		•	•
QUANTITY TAKE OFFS FROM IFC FILES				
Access to IFC standard formats of BIM or 3D CAD models		•		•
View and navigate 3D BIM or CAD models directly in the integrated viewer		•		•
Assignment of Price List items to BIM or 3D CAD objects		•		•
Automatic measurements with artificial intelligence from 3D BIM or CAD model		•		•
Constantly updated cost estimate when editing the 3D BIM or CAD model		•		•
Exporting data in Word®, Excel® format		•		•
QUANTITY TAKE OFF FROM CAD DRAWINGS OR RASTER FILES				
Opening of standard DXF/DWG CAD DRAWING FILES			•	•
Raster (PDF, BMP, JPG, etc.) management			•	•
Associate Price list items to graphical entities			•	•
Quantity Takeoff from CAD files			•	•
Quantity Takeoff from PDF files			•	•
Take off from image files			•	•
Dynamic BoQ updating when editing drawing models			•	•
Connection with your CAD or your CAD environment in PriMus TAKEOFF			•	•
CONSTRUCTION SCHEDULING				
Analytical and graphical management of project timing and sequencing			•	•
Integration with other Project time Schedules or construction cost estimates			•	•
Works financial plan analysis and control			•	•
Works resources analysis integrated with the construction cost estimate			•	•
Work resources analysis integrated within the BoQ document			•	•
Activity scheduling, resources analysis between the design and construction phases			•	•
Data export in Excel and PDF			•	•
GANTT, charts, and reports printout management			•	•

usBIM.planAI

AI-powered Cost Estimates

Automated cost estimates extracted from PDF files using Artificial Intelligence.

Energy Performance



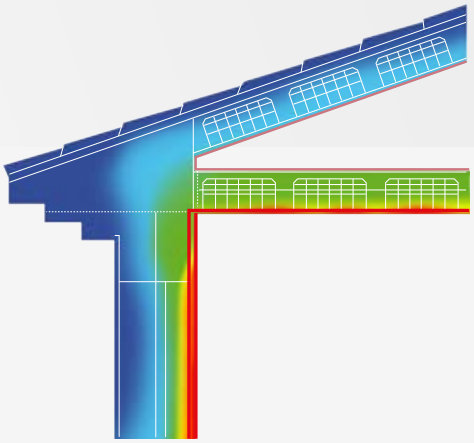
TerMusPLUS

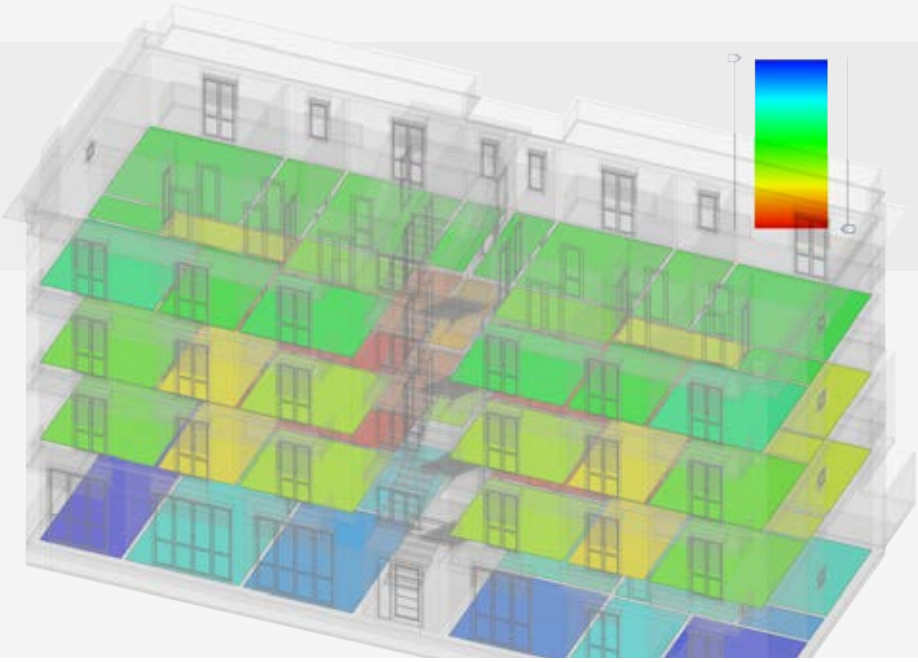
Dynamic Energy Performance Calculations

The power of BIM technology for dynamic energy simulations of buildings

All the power of the EnergyPlus™ calculation engine and the simplicity of BIM modelling in a single software

- **3D modeling from DXF/DWG files and IFC models with BIM object library and automatic calculation of thermal bridges**
- **METEONORM® climate archive and data import from EnergyPlus™**
- **Guided definition of setpoints, plants and generators.**
- **Usage profiles and scheduling with predefined models and customized solutions.**
- **Real-time diagnostics of project data.**
- **High performance dynamic calculations, simulations and energy analysis with the EnergyPlus™ solver**
- **Calculation results in reports, tables, graphs, views and 3D animations.**
- **Estimates and BoQs dynamically integrated with the building's BIM model.**
- **Dynamic comparison of different design solutions.**





TerMusBRIDGE

Thermal Bridges

The software for calculating thermal bridges with any type of material and of any shape or form!

The solution with an integrated FEM solver, wizard for standard cases, import construction details in DXF/DWG file format, mould growth risk assessments.

Parametric object modelling for structure definition

Import construction details in DXF/DWG CAD file formats

Thermal Bridge creation wizard for typical cases

Numerical calculations with an integrated TheBriNA solver

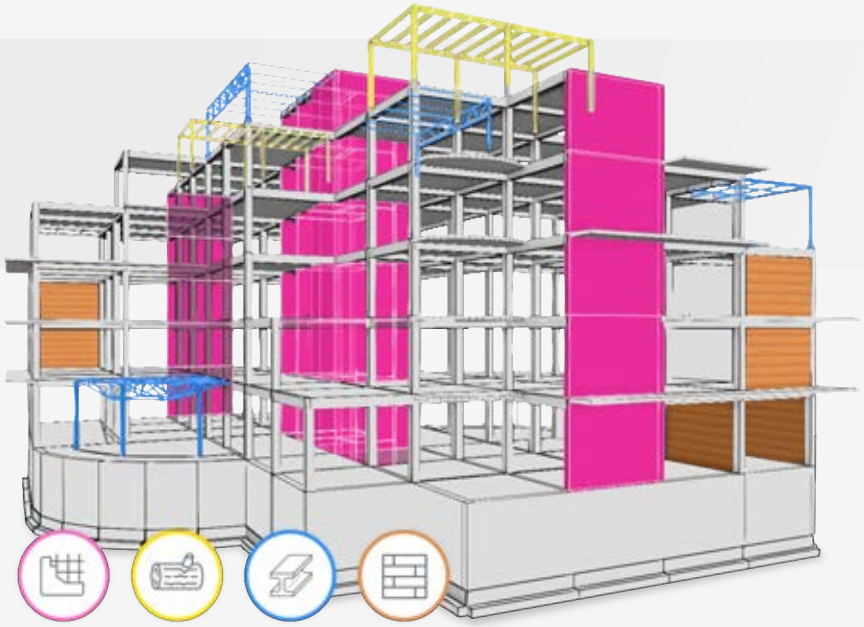
- Linear thermal transmittance of thermal bridges.
- Heat flow evaluation
- Thermal coupling coefficient evaluation
- Evaluation of thermal bridges towards soil boundaries or any other temperature zone
- Correct configuration of thermal bridges and relating checks
- Chromatic contour line representation for further detailing including critical isotherm curves

Graphical results and automatic generation of calculation reports

Mould growth risk assessments

- Mould formation risk evaluations according to the EN ISO 13788 technical standard
- fRsi critical temperature factor
- Minimum temperature risk for mould growth

Calculation Structural



EdiLus

Structural Calculations Design

Certified by buildingSMART® for IFC 2x3 file format import and export

The BIM software for structural calculations with an integrated finite element solver

The modular solution for the structural design of new and existing buildings in reinforced concrete, masonry and steel (also with wooden elements).

DESIGN SOLUTION FOR NEW BUILDINGS

BIM Modelling

- IFC file import/export
- Parametric objects for structures and loads
- Integrated design of steel connections
- LOD with 3D reinforcements
- Integration of structural design into the BIM process

Structural analysis

- Linear and non-linear calculations
- Pushover analysis on Shell and Fiber models (Nonlinear Pushover analysis with the EdiLus-CONCRETE Pushover module)

Verifications and results

- Interactive diagnostics
- Graphic and color map representation
- Structural and geotechnical analysis

Reinforcements design

- Reinforcements customization
- Capacity design methodology

Reports, tables and construction documents

- Reports
- Result tables and detailed project working drawings
- Construction Cost Estimates

MODEL INTERVENTIONS ON EXISTING BUILDINGS

Step by step guidance for determining the ante-operam situation

- Structure's "Level of Knowledge" evaluations
- Material resistances calculation from destructive and non-destructive tests
- Graphic input of existing reinforcements

Structural analysis

- Linear and non-linear calculations
- Local mechanisms for masonry buildings

Results

- PGA colour mapping
- Graphical analysis of results

Interventions definition

- Reinforcement interventions for reinforced concrete and masonry
- Jacket Linings, FRP wrappings, Platings

Reports, tables and construction documents

- Reports, Result Tables with working drawings
- Comparison sheet between surveyed and design stages
- Seismic vulnerability analysis
- Seismic Risk Classifications (conventional method)
- Structural static compliance cerificate for II level checks

Comparison table	**EdiLus CONCRETE** Calculation of Reinforced Concrete Structures	**EdiLus STEEL** Calculation of Steel Structures	**EdiLus MASONRY** Calculation of Masonry Structures
STRUCTURAL ELEMENTS			
REINFORCED CONCRETE			
Column, Slanted column, Partition wall	•	50 elements	10 elements
Beam, Wall beam	•	80 elements	10 elements
Wall	•	280m² (*)(*)	2 elements
Slab	•	280m² (*)	2 elements
Access ladder	•	•	•
Slab calculation section	•	•	•
REINFORCED CONCRETE (FOUNDATION)			
Winkler Beam	•	•	•
Plinth, Plinth on plies, foundation sockets	•	•	
Foundation Slab	•	280m² (*)	•
Poles	•	•	
STEEL			
Steel columns		•	
Steel beams		•	
Steel trusses		•	
Bracing		•	
MASONRY			
Masonry columns			•
Reinforced masonry			•
Wall			•
Patching, reinforcement, ties			•
Prestressing cables			•
Masonry foundations			•
TIMBER			
Laminated wood columns	•		•
Laminated wood beams	•		•
Laminated wood trusses	•		•
TECHNICAL STANDARDS			
CEN-EN Eurocode (EC)	•	•	•
Eurocodes UNE-EN (EC)	•	•	•
NF EN Eurocodes (EC)	•	•	•
Eurocodes BS EN (EC)	•	•	•
Eurocodes NP EN (EC)	•	•	•
Eurocodes SS EN	•	•	•
Brazilian Association of Technical Standards (NBR)	•	•	

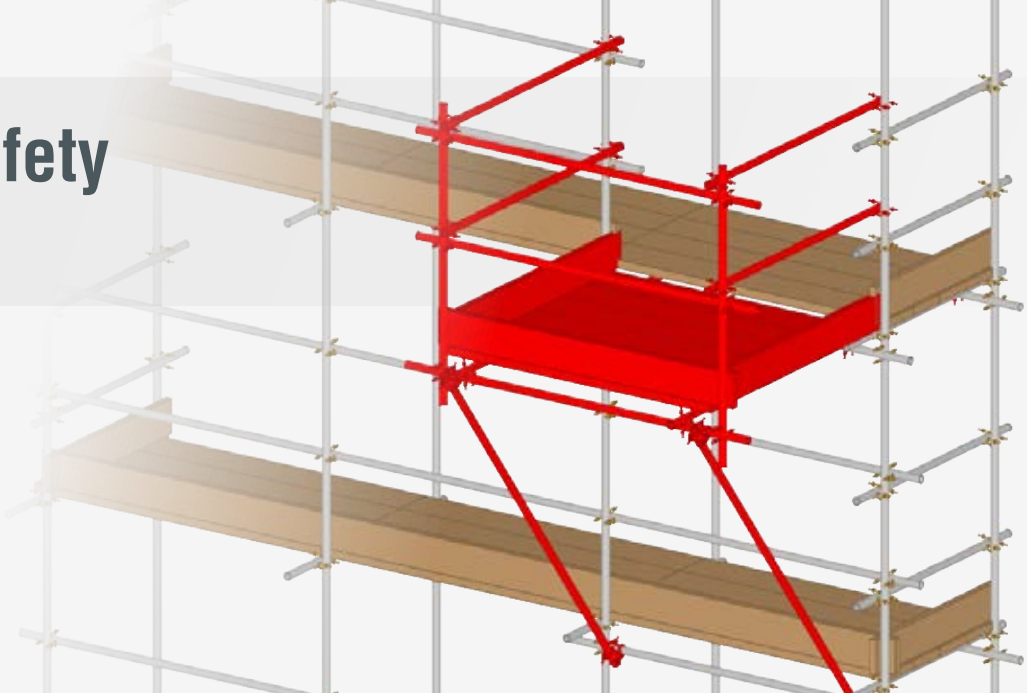
NOTE: (*) Valid for modelling up to 280m² of walls, foundations structures and floor slabs.

NeXus

Verification of steel nodes

3D/BIM parametric software for designing steel connections with integrated FEM analysis.

Health and Safety Scaffolding



CerTus SCAFFOLDING

Scaffolding Design and Safety

Certified by buildingSMART® for IFC 2x3 file format import

Looking for a scaffolding design software suitable for all structure types and for all kinds of specific needs? Choose the solution that offers you more freedom and flexibility!

CerTus SCAFFOLDING is the BIM authoring software for scaffolding design and for drafting the scaffolding assembly, use and dismantling plan together with bracing checks, hang harness risk and atmospheric discharge assessments.

BIM modelling tools for metallic frame scaffolding structures

- IFC file import
- 3D input with parametric objects
- BIM Objects Library
- Integration of scaffolding design into the BIM process

Technical checks

- Bracing checks
- Hang harness trauma checks
- Atmospheric discharge checks

Project drawings

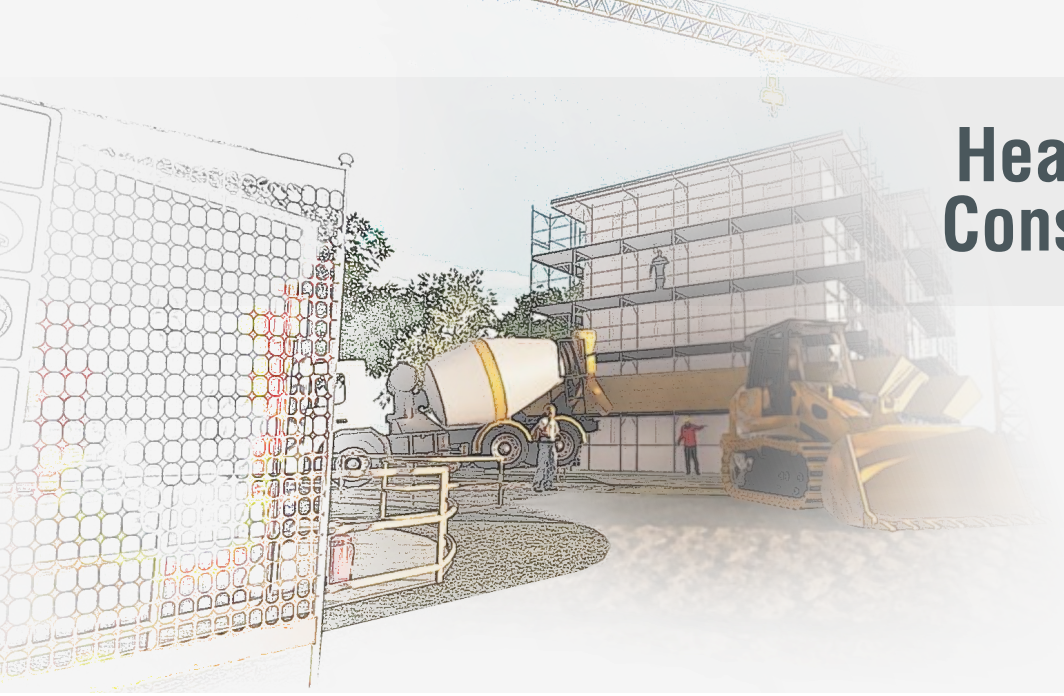
- Project drawings (working drawings)
- Export to IFC, DXF, DWG, SVG, OBJ, SketchUp, Collada, STL, PLY formats

Scaffolding assembly plan

- Assembly procedure
- Detailed 3D graphic layouts

Cost evaluations

- Construction cost estimates
- Detailed bill of materials



Health and Safety Construction Sites

CerTus HSBIM

Construction Site Management (Health & Safety)

Certified by buildingSMART® for IFC 2x3 file format import

The most advanced design technologies and site safety management in a single software: 3D modeling, 4D Planning, Real Time Viewing and Site tours with Virtual Reality!

Design your construction site in an integrated manner, simulate its evolution over time and create virtual and interactive environments for health and safety prevention and training...

3D modeling of the construction site safety

- IFC file import
- 3D input with parametric objects
- BIM Objects Library

4D simulation

- Analysis of the construction site evolution at various stages
- Interference and overlap control

Safety plan model drawings

- Floor Plans
- Section Views
- Elevation Views
- Area plans
- Working Drawings
- Altimetric profile
- Cut & Fill data summary tables

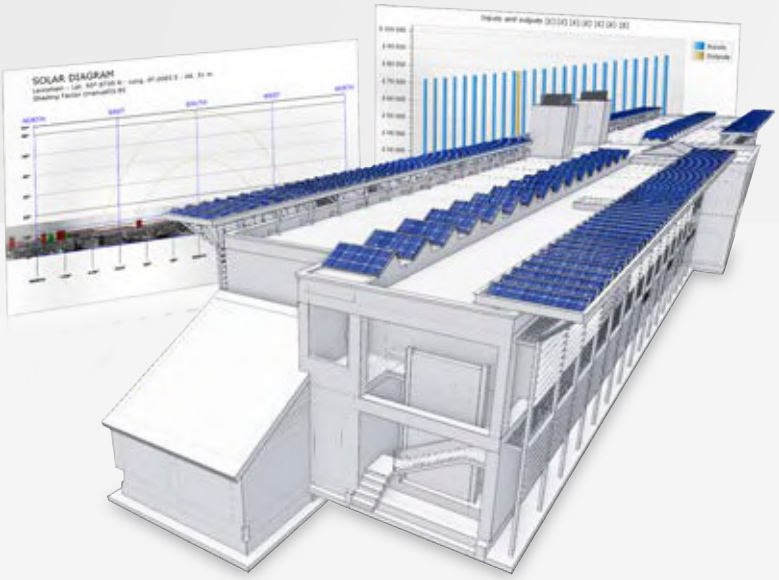
Construction site Real Time Rendering

- Rendered Model in Real Time
- 3D model online navigation from browser

Construction site Virtual tours

- Prescriptions control
- Simulation of risk scenarios useful for employee training courses

Renewable energy solutions design



Solarius PV

Solar PV systems design

Certified by buildingSMART® for IFC 2x3 file format import

The BIM software for the professional design of photovoltaic systems of any type and any size

Sizing of the PV system, financial analysis and single-line diagram all in a single software already used by thousands of Solar-PV professionals all over the world!

BIM Modelling

- 3D objects input
- Automatic recognition of orientation and tilt data
- Definition of PV field installation surfaces
- IFC file import
- Integration with the architectural project and in the BIM process (usBIM.platform)

Solar radiance and shading coefficient calculation

- Climate Data Archive
- Import from PVGIS database
- User location archive

System configuration

- Single/multi MPPT inverter
- Low and medium voltage
- Storage system in AC and DC

Assisted generator design

- Auto-selection of photovoltaic fields compatible with inverter types
- Modules Positioning
- Electrical checks

Electrical single-line diagrams

- Single-line diagrams of the AC and DC switch-panels

Financial analysis

- Cost Estimates and BoQs
- Energy consumption
- Profitability
- Annual budget
- NPV
- IRR

Technical-Financial Report and Connection diagrams, etc.

- System diagram
- Single-line diagram
- Elevations views, floor plans, cross-sections, cutaway drawings, etc.
- Project exportable in IFC, OBJ, SketchUp formats, etc.

Complete financial report

- Technical report
- Financial report
- Construction Cost Estimates

BIM VS openBIM®

Antonio Cianciulli | Marketing Director

Transforming BIM to openBIM®

The N°1 IFC openBIM® expert

ACCA is the company with the largest number of buildingSMART® international IFC certified software in the world

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usBIM is the first free IFC viewer with BIM model editing functions

usBIM.platform is the first collaborative BIM platform and Common Data Environment IFC certified by buildingSMART® international

usBIM is the first integrated system to manage the digitization of buildings and infrastructures in openBIM®

We are the N°1 IFC openBIM® Experts

buildingSMART Multinational Member