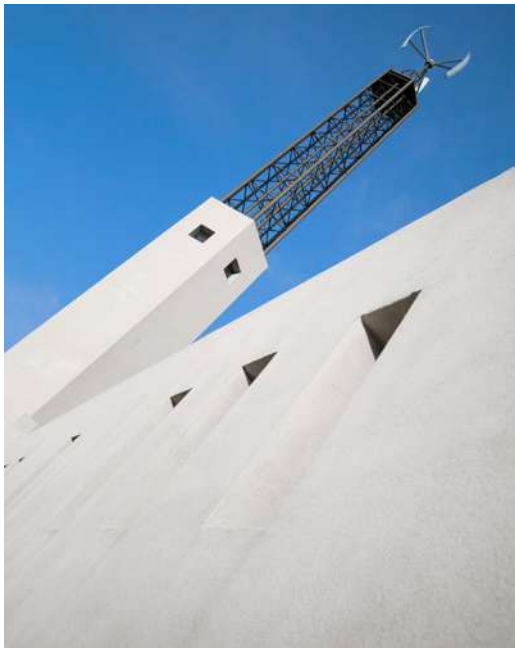
Catalogue

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 succeed when all stakeholders across the construction industry can collaborate seamlessly to create, share and continuously 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®."

The N°1 IFC openBIM® expert

ACCA software is a global leader in developing digital solutions and services for the architecture, engineering, and construction (AEC) industry.
A unique company delivering cutting-edge software solutions worldwide, covering every stage of construction — from design and execution to operation 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 implemented in the construction of the new ACCA headquarters pursue an ambitious goal: a self-sufficient, zero-energy building that ensures environmental sustainability while providing all the energy needed for optimal indoor comfort and well-being.
To protect the east and west-facing facades from direct solar radiation, we designed a custom double-skin facade system. Extending across almost the entire elevation, a secondary steel framework positioned 80 cm from the outer wall—perfectly aligned with the main structural grid—supports a dynamic network of horizontal and vertical sunshades.
Creating comfortable and inspiring work environments has been a key priority. Indoor air quality is ensured through intelligent, automated mechanical ventilation systems that provide continuous fresh-air circulation, heat recovery and minimised energy losses. Natural lighting was a key driver throughout the design process, not only enhancing the quality and comfort of indoor spaces but also contributing significantly to 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

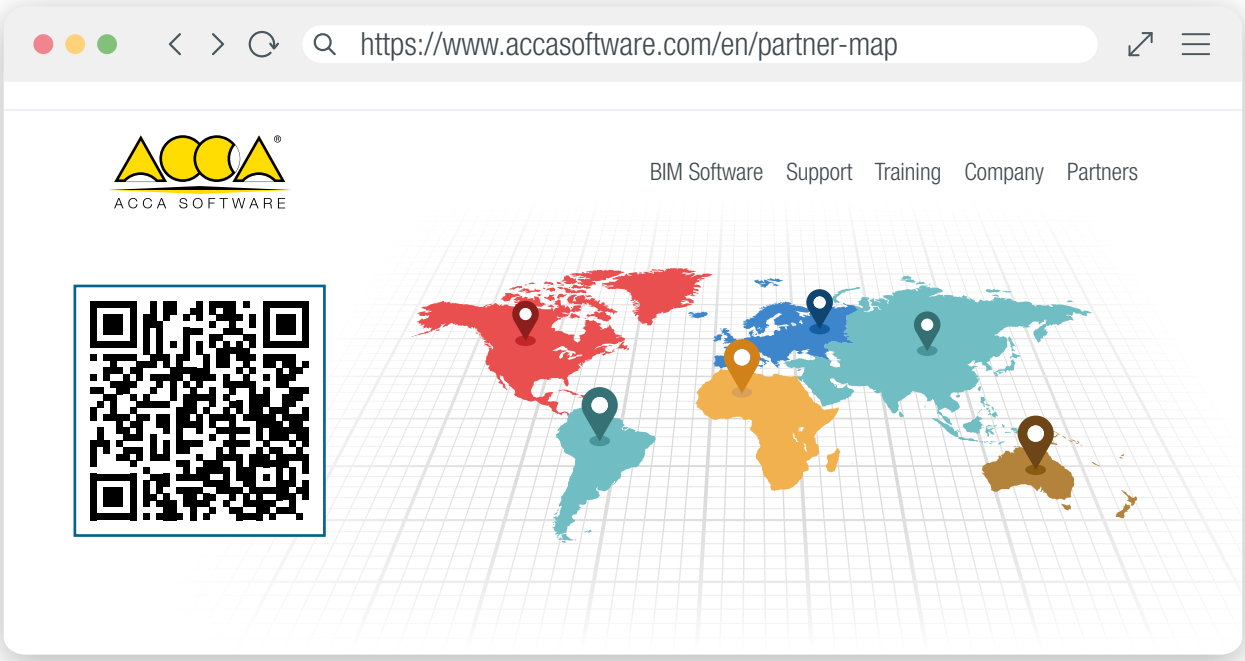
BibLus is ACCA software's free technical information service, offering construction professionals reliable insights and practical resources.
Information, insights, publications made available on the site and in newsletters are the result of daily study, analysis and research activities carried out by 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.
Combining the speed and convenience of the web with the value of high-quality content, BibLus delivers in-depth technical and regulatory insights you can rely on.
BibLus keeps professionals up to date with the latest technical and regulatory developments across public works, building construction, health and safety, energy performance, renewable energy and building systems. Particular emphasis is placed on current industry trends and emerging applications of BIM, alongside the ongoing digital transformation of the construction sector.
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
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!

Market Partner International

Locate your nearest ACCA partner and connect with local experts



Join the ACCA network. Become a partner today! What kind of partner are you?

- BIM Consultant
- Training Institution
- Software House
- System Integrator

BIM Management



usBIM

Integrated Cloud BIM system

Certified software
buildingSMART International®

The BIM management system for easy, secure, and collaborative digitalization of buildings and infrastructure.

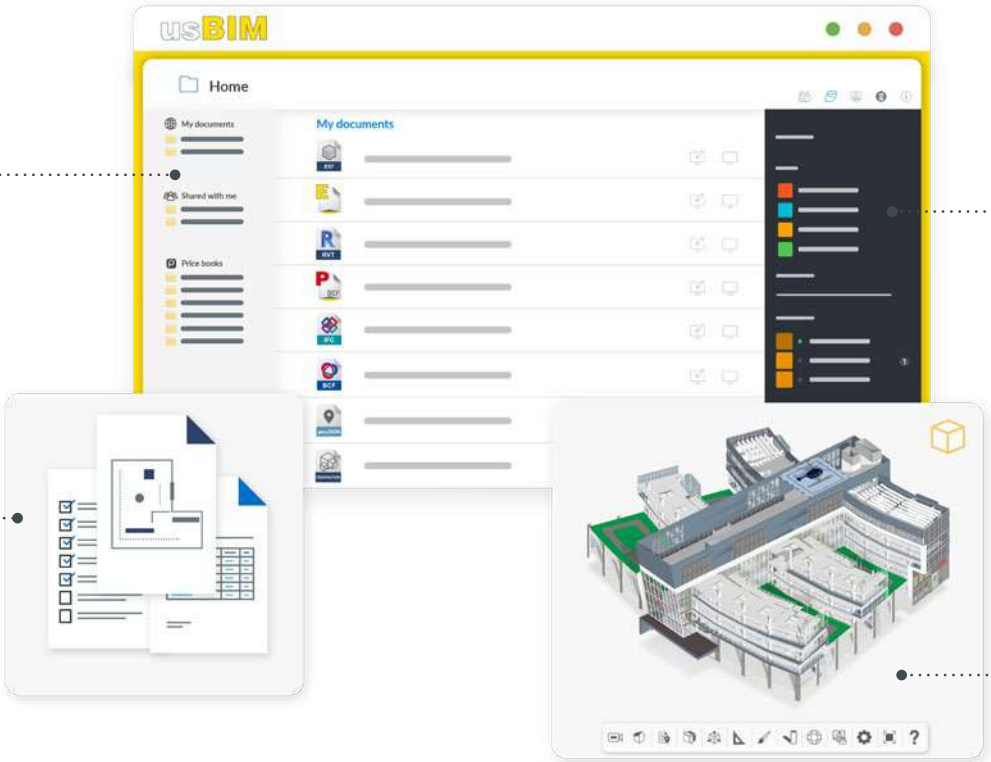
Experience seamless real-time collaboration. Manage and share large-scale construction and infrastructure projects from any device, anywhere in the world

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

IFC online viewer

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

Synoptic table

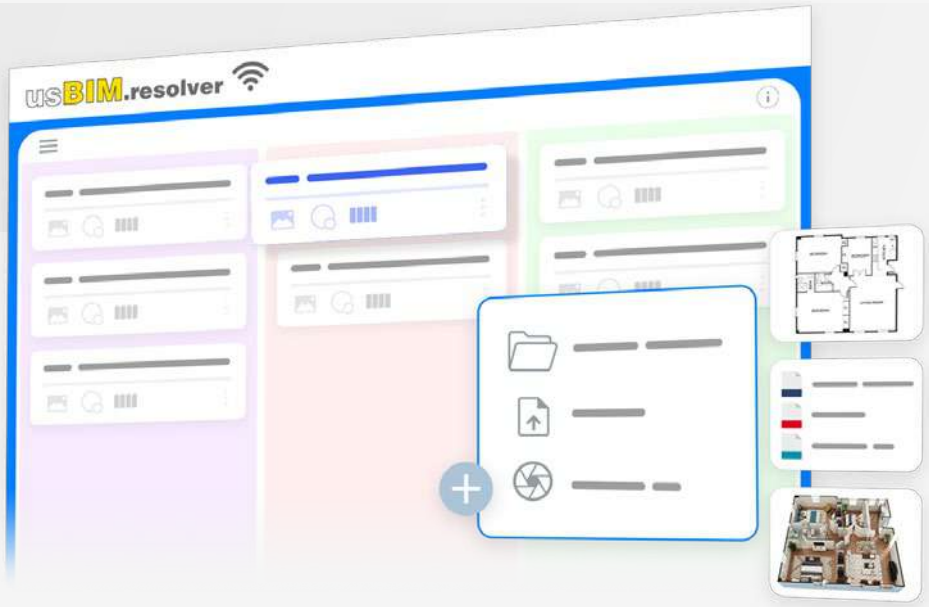
APPS AND FEATURES INCLUDED WITH usBIM (INCLUDED AND FREE)

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.revolution	Autodesk Revit plugin for streamlined creation and management of IFC classes and properties.	**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.chat	Online chat	**usBIM.bSDDeditor**	Creating dictionaries and object libraries for the buildingSMART Data Dictionary
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.maint	Facility management
usBIM.firemaint	Maintenance management for fire-fighting systems
usBIM.iot	BIM meets IoT: The Living Digital Twin
usBIM.reality	Real-Time Rendering and immersive virtual reality of BIM models
usBIM.blockchain	BIM processes & Blockchain security
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	Edit geometry, metadata, classifications, and attributes for IFC model objects.
usBIM.compare	Comparison of revisions of a BIM model
usBIM.refactor	IFC file merge & refactoring
usBIM.bSDD	IFC classification via buildingSMART Data Dictionary (bSDD).
usBIM.facility	Facility management integrated with the structure's BIM model
usBIM.land	Terrain modeling from Google Maps
usBIM.blueprint	Generate floor plans, sections, elevations, and graphical tables directly from IFC BIM models.
usBIM.BI	Data analysis of BIM models, documents, and processes with advanced business intelligence (BI) functions.
usBIM.IDS	Validation of Exchange Information Requirements (EIRs) or Level of Information Need (LOIN) in IFC files according to the Information Delivery Specification (IDS) standard.
PriMus online	Cost estimates and construction cost management
usBIM.geotwin	Create and manage Geospatial Digital Twins via smart openBIM® and GIS integration.
usBIM.bridge	Bridge maintenance management
usBIM.gantt	BIM project planning (4D BIM project management)
usBIM.codesign AI	Transform your concepts, photos, sketches, and 3D models, into photorealistic renderings that bring your design ideas to life.
usBIM.gdl	Governance of Daily Logs
usBIM.tunnel	Tunnel inspection

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-compliancies 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 roles and stakeholders

- 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 issue 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 MEP systems

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

Document management and interventions planning

- Cloud-based storage of all asset-related documentation, enabling seamless access and information sharing among the various 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.
- Integrated ticket management: Aligning reactive and scheduled maintenance to optimize resources and reduce downtime.

Performance tracking, monitoring, and analytics.

- Automatic and customizable reports for viewing the technical data and monitoring ordinary and extraordinary maintenance activities.
- Definition of specific SLAs and KPIs (with charts for each SLA class showing the number of interventions completed on time, overdue, and outside SLA).
- Assessment of equipment performance indicators, including MTBF (Mean Time Between Failures) and MTTR (Mean Time to Repair), to plan targeted interventions aimed at extending the service life 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.

Born from the seamless integration of ACCA's usBIM.platform and Esri ArcGIS® technology, usBIM.geotwin is a powerful application for the digitalization and geospatial management of buildings and infrastructure. It enables the handling of highly complex datasets at any scale, ensuring continuous updates and full control over information throughout the asset lifecycle.

Geospatial management and interrogation of IFC openBIM® digital models.

- BIM information always available to GIS for geospatial queries
- View BIM models in 2D and 3D, including overall construction dimensions and detailed model geometry.

Support real-time data updates for building and infrastructure information within GIS environments and integrated workflows across the entire IFC asset model lifecycle

- 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

Certified software
buildingSMART International®

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

usBIM.platform is the Common Data Environment (CDE) designed to support companies in addressing the growing challenges of digital transformation in BIM workflows, enabling efficient collaboration, data sharing, and information management across the entire project lifecycle. The ideal solution for secure data sharing, built to meet the highest security standards.

Manage and share BIM files online, regardless of format or size.

- View and manage files online—of any size and in multiple formats (IFC, DWG, DXF, PDF, OBJ, SKP, 3DS, RVT, etc.)—directly within the CDE.
- Easily add and organize model data and metadata using #TagBIM keywords for faster search and structured information management.
- Manage point clouds and textured meshes to integrate digitally relevant processes into BIM workflows for design, construction, and 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;
- Manage revisions with issues and markups using graphical and textual tools to highlight problems directly on the document and notify collaborators, ensuring critical issues are promptly addressed and resolved.
- Information synchronization with feedback on document updates, ensuring all stakeholders stay aligned with the latest revisions.

Assign roles and responsibilities to individual users, companies and teams

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

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 (Disaster Recovery)

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

Design Construction



Edificius

Certified software
buildingSMART International®

Building design

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)



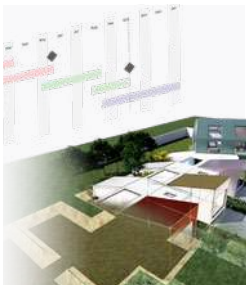
Landscape design and outdoor spaces design



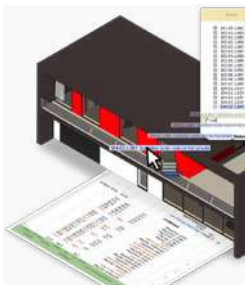
MEP Plant systems modelling and sizing



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 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	•	•
Sections	•	•
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)**		•

MEP SYSTEMS SIZING AND CALCULATIONS***
Efficiently design, size, and calculate hydronic and aeraulic thermal systems using usMEP.HVAC, the professional tool for MEP engineers
Design, size, and calculate fire-fighting systems with usMEP.fireprotection.

* LAND, MEP, HBIM, Point Cloud and AIrBIMpro environments are included in Edificius free of charge
** RTBIM and VRiBIM environments are optional and can be added to basic configurations.
*** The usMEP MEP tools are optional and can be added to basic configurations.

Cost estimates and Construction Cost Management



PriMus is also on the **WEB**

PriMus

Construction Cost Management

Certified software buildingSMART International®

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

Meeting the new demands of the construction sector: the smart solution for Designers, Contractors and Construction Professionals.

PriMus
Construction cost management

- Construction cost estimates
- construction site material requirements analyses
- Construction site cost management
- Access constantly updated price lists for articles, materials, and pricing 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
Online Cost Estimates

- Perform cost estimating and job accounting tasks online from any device, including PC, smartphone, or tablet.
- Collaborate in real time with colleagues on the same estimate or bill of quantities (BoQ).
- Always have direct access to your data in the cloud and in complete safety

PriMus IFC
Generate cost estimates and quantity take-offs directly from IFC BIM models

- Identification of entities directly on the BIM model
- Automatic computation of all project entities
- Visualization on the 3D model of the computed entities
- Real-time calculation updates with every project modification.
- Application of previously adopted cost estimation models to new projects

PriMus KRONO
Construction scheduling

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

PriMus TAKE OFF
Cost Estimates Directly from CAD Project Files:

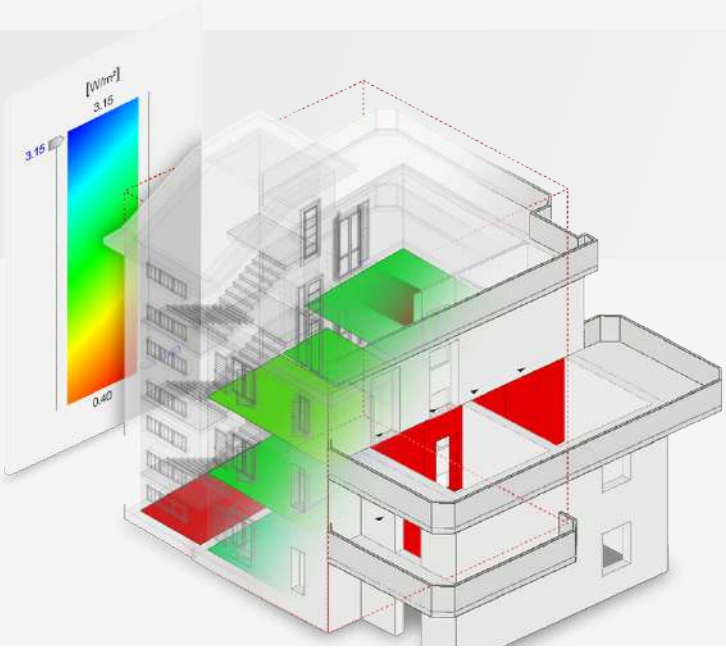
- Drawing with an integrated 2D and 3D CAD
- Bills of quantities from AutoCAD®, DWG or DXF, Adobe® PDF, bmp and JPG files

Comparison table	PriMus	PriMus IFC	PriMus PLUS	PriMus FULL
COST ESTIMATES AND QUOTES				
BoQ and work Estimates	•		•	•
Bids and Proposals	•		•	•
Analysis of construction site requirements	•		•	•
Construction Cost Management	•		•	•
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			•	•
Updating of the calculation with each design modification.			•	•
Connection with your CAD or directly in the CAD environment present in PriMus TAKEOFF			•	•
SCHEDULING OF WORKS				
Analytical and Graphic Works Schedule Management			•	•
Integration with other chronoprograms or computations			•	•
Analysis and control of the financial plan of the work			•	•
Analysis of the resources of the work integrated with the calculation			•	•
Resource needs analysis			•	•
Comparison of execution phase schedules and resources versus the design phase			•	•
Exporting data to Excel and PDF			•	•
GANTT charts and reports printout management			•	•

usBIM.gdl
(Governance of Daily Logs) - Site Diary

usBIM.gdl records each day's site activities directly from the field, using smartphones and tablets: tasks, workforce, weather and photos in a single digital site diary. Thanks to the cloud, the design office and the construction site communicate in real time: companies, project managers and public and private clients can always see the latest status, wherever they are. Each entry is dated and signed and linked to project documents and attachments, providing clear evidence of progress, delays and disputes.

Energy Performance



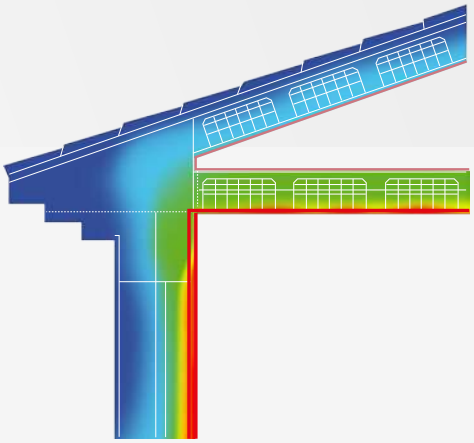
TerMus PLUS

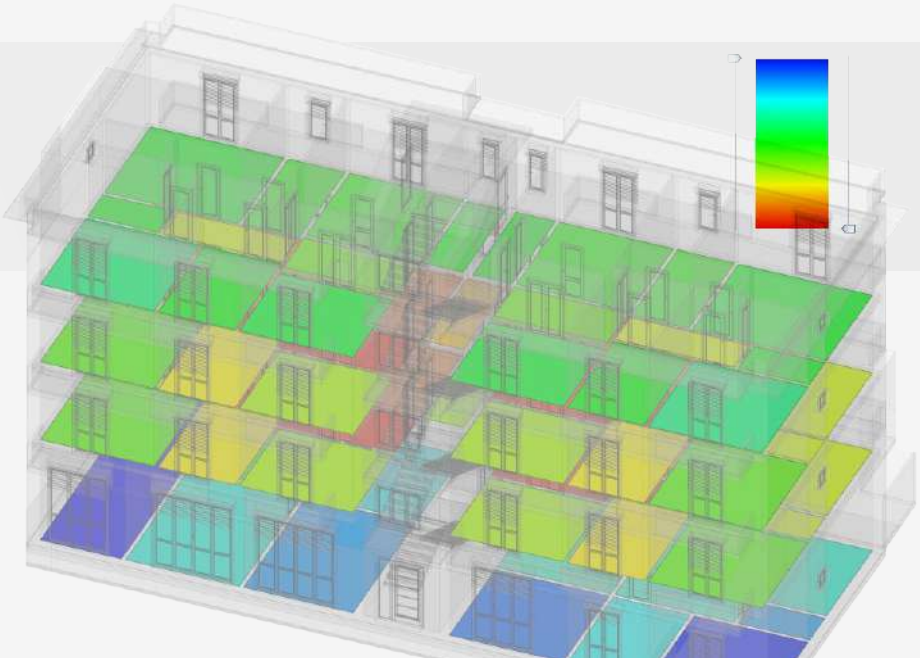
Real-time dynamic calculation of building energy performance

The power of BIM technology for dynamic energy simulations of buildings

All the power of the EnergyPlus™ calculation engine and the simplicity of BIM/3D modeling 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.**
- **Estimated bill of quantities dynamically integrated with the BIM model of the building.**
- **Dynamic comparison of different design solutions.**





TerMus BRIDGE

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 from DXF/DWG CAD files

Thermal Bridge creation wizard for typical cases

Numerical calculations with an integrated TheBriNA solver

- Linear thermal transmittance of thermal bridges (Psi).
- Evaluation of heat flow
- Evaluation of the thermal coupling coefficient
- Evaluation of the thermal bridge also towards soils or areas with other temperatures
- Verification of the correct thermal bridge
- Chromatic contour line representation for further detailing including critical isotherm curves

Graphical results and automatic generation of calculation reports

Mould growth risk assessments

- Risk of mould formation according to EN ISO 13788
- Critical temperature factor fRSi
- Minimum temperature risk for mould growth

Structural Analysis



EdiLus

Structural Analysis

Certified software
buildingSMART International®

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

A modular solution for the structural design of new and existing buildings in reinforced concrete, masonry, and steel, including wooden elements.

COMPREHENSIVE DESIGN SOLUTIONS 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 in the BIM process

Structural analysis

- Linear and non-linear calculations
- Pushover analysis on Shell and Fibre models (Non-linear pushover analysis with the EdiLus-CONCRETE Pushover module)

Checks and results

- Interactive diagnostics
- Color-coded graphical representation
- Structural and geotechnical analysis

Reinforcements design

- Fully customizable reinforcement design
- Capacity Design methodology

Reports, tables and construction documents

- Reports
- Reports, Schedules and Tables with construction drawings
- Construction cost estimates

INTERVENTIONS FOR THE IMPROVEMENT OR SEISMIC ADAPTATION OF EXISTING BUILDINGS

Guided definition of the as-built condition

- Assessment of the level of knowledge
- Calculation of material strength based on destructive and non-destructive testing
- Graphical input of existing reinforcements

Structural analysis

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

Results

- PGA colour mapping
- Clear visual representation of results

Definition of interventions

- Reinforcement interventions for reinforced concrete and masonry structures
- Structural strengthening using jacketing, FRP wraps and plate reinforcements

Reports, tables and construction documents

- Reports, Schedules and Tables with construction drawings
- Comparison sheet between the as-built condition and the design condition
- Seismic vulnerability analysis
- Seismic Risk Classification (Conventional Method)
- Structural adequacy certificate for Level II structural checks

Comparison table	**EdiLus CONCRETE** Calculation of Reinforced Concrete Structures	**EdiLus STEEL** Calculation of Steel Structures	**EdiLus MASONRY** Structural Analysis for Masonry Structures
STRUCTURAL ELEMENTS			
REINFORCED CONCRETE			
Collumns, Slanted columns, Shear walls	•	50 items	10 elements
Beam, Deep beams	•	80 items	10 elements
Wall	•	280 m² (*)	2 elements
Slab	•	280 m² (*)	2 elements
Stairs	•	•	•
Floor calculation section	•	•	•
REINFORCED CONCRETE (FOUNDATION)			
Winkler Beam	•	•	•
Plinth, Plinth on poles, Plinth on socket	•	•	
Foundation Slab	•	280 m² (*)	•
Poles	•	•	
STEEL			
Steel pillar		•	
Steel Beam		•	
Steel trusses		•	
Bracing		•	
MASONRY			
Masonry column			•
Reinforced masonry			•
Wall			•
Masonry Reinforcement interventions, Ties			•
Pre-tensioned cables			•
Masonry foundation			•
TIMBER			
Timber columns/laminated wood	•		•
Timber beams/laminated wood	•		•
Timber trusses/laminated wood	•		•
TECHNICAL STANDARDS			
CEN-EN Eurocode (EC)	•	•	•
Eurocodes UNE-EN Eurocódigo (EC)	•	•	•
NF EN Eurocodes (EC)	•	•	•
Eurocodes BS EN Eurocode (EC)	•	•	•
Eurocodes NP EN Eurocódigo (EC)	•	•	•
Eurocodes SS EN Eurocode (EC)	•	•	•
Associação Brasileira de Normas Técnicas (NBR)	•	•	

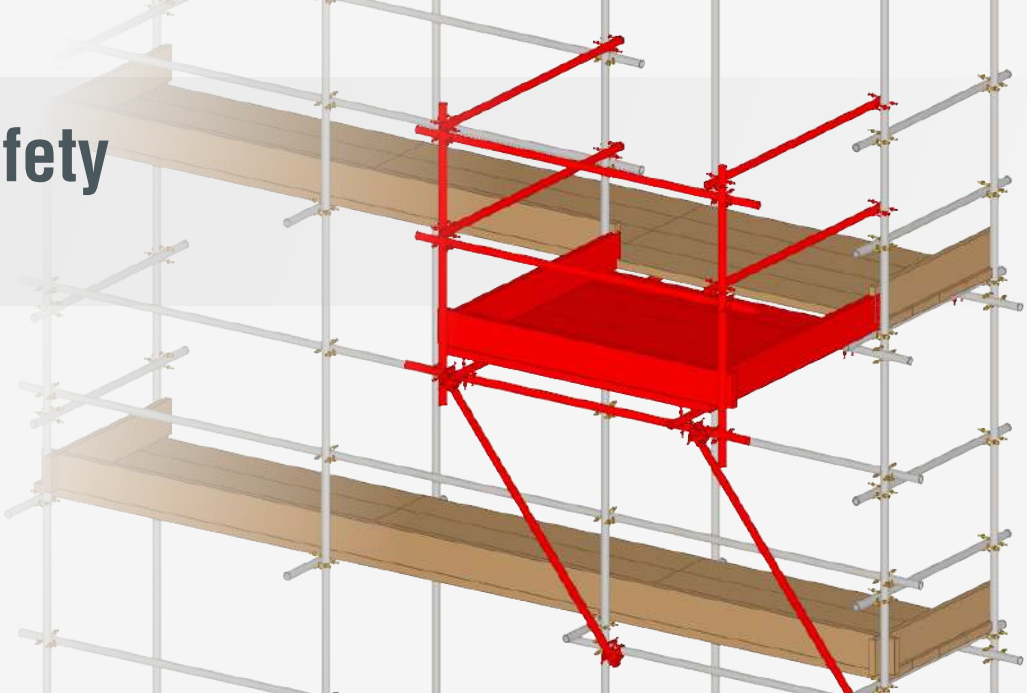
NOTE: (*) Valid for modelling up to 280m² of walls, foundations structures and floor slabs.

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 software
buildingSMART International®

Design scaffolding for any structure and project requirement with a single software solution. Choose the BIM solution that gives you greater freedom and flexibility.

CerTus SCAFFOLDING is the first BIM authoring software for scaffolding design and for preparing the scaffolding assembly, use, and dismantling plan, including bracing verifications, fall-arrest harness risk analysis, and atmospheric discharge (lightning) risk assessments.

BIM modelling of fixed metal scaffolding

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

Technical checks

- Anchor checks
- Harness hang risk assessment
- Verification of atmospheric discharges

Technical drawings

- Construction drawings (working drawings)
- Project Export in IFC, DXF, DWG, SVG, OBJ, SketchUp, COLLADA, STL, and PLY Formats

Assembly plan

- Assembly procedure
- 3D design diagrams

Costs assessments

- Detailed Quantity Takeoff
- Detailed bills of materials



Health and Safety Construction sites

CerTus HSBIM

Site Management (Health & Safety)

Certified software
buildingSMART International®

In a single software solution, the most advanced technologies for construction site safety design and management: 3D modelling, 4D planning, real–time navigation, and Virtual Reality site walkthroughs!

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

3D Modeling of construction site safety

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

4D simulation

- Analysis of the construction site's evolution in different phases
- Control of interferences and overlaps

Detailed drawings of the Health and Safety layout

- Floor Plans
- Sections
- Elevation Views
- Area plans
- Working Drawings
- Altimetric profile
- Earthworks Technical tables

Real-Time rendering of the construction site

- Model rendered in real time
- Online navigation of the 3D model via browser

Virtual tours of the construction site

- Prescription checks
- Simulation of risk scenarios useful for employee training courses

Renewable energy solutions design



Solarius PV

Solar PV systems design

Certified software
buildingSMART International®

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 laying surface, orientation and inclination
- Photovoltaic field definition
- IFC file import
- Integration into the architectural project and the BIM process (usBIM.platform)

Solar irradiance and shading coefficient analysis

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

System configuration

- Single/Multi MPPT inverters
- Low voltage, Medium voltage
- AC and DC storage system

Assisted generator design

- Inverter Selection for the photovoltaic array
- Modules positioning
- Electrical checks

Single-line electrical diagrams

- Detailed single-line diagrams of DC and AC panels

Budgeting and economic analysis

- Cost Estimates and BoQs
- Reduced
- Profitability
- Annual budget
- NPV
- IRR

Technical-Financial Report and Connection diagrams, etc.

- System diagram
- Single-wire electrical diagram
- Views, floor plans, sections, slices, etc.
- Project Export in IFC, OBJ, SketchUp Formats, etc.

Comprehensive economic report

- Technical report
- Financial analysis
- Construction cost estimates

BIM VS openBIM®





Antonio Cianciulli | Marketing Director

Transforming BIM to openBIM®

ACCA, the Leading IFC openBIM® Expert

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

Online & Social Media Channels

accasoftware.com

Headquarters

Contrada Rosole, 13
BAGNOLI IRPINO (AV)
Italy - 83043

Contact us



ed.11/2026 – EN

Transforming BIM to openBIM®



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



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