- Workflow Matrix

Trimble Business Center v5.80 Software

Editions

Each Trimble[®] Business Center (TBC) Edition is designed to support a set of related workflows:

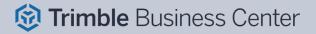
• Viewer (Unlicensed):

Import + review field data, view projects, + export to Trimble field devices + software.

- Field Data Edition: Export third-party field data, perform basic CAD functions, complete data quality control, + work with level data.
- Surface Modeling Edition: Basic point cloud management, create + edit surfaces + alignments, cut/fill maps, + earthwork reports.
- **Survey Intermediate Edition:** GNSS post-processing, network + traverse adjustments, site calibrations; work with background images, labels, + dimensions.
- Survey Advanced Edition: Work with Trimble VISION[™] data, create plan sets, process cadastral data, leverage full COGO + corridor routines.
- Site Modeling Edition: Convert + elevate 2D geometry into 3D for field operations; cleanup project data.
- Site Construction Edition:

Compute site mass haul + site takeoff computations, linear quantities, layer depths, + material volumes.

• Infrastructure Construction Edition: Parametric intersection, interchange, + ramp designs with corridor mass haul quantities + volumes.





Workflow / Feature	Viewer	Field Data	Surface Modeling	Survey Intermediate	Survey Advanced	Site Modeling	Site Construction	Infrastructure Construction
12D Import + Export	x	х	х	x	х	х	х	x
Calibrate Laser Scanners	x	х	x	x	х	х	х	х
Coordinate System Management	x	x	x	x	x	х	х	x
Create WorksOS Project	x	х	x	х	х	х	x	х
Feature Definition Manager	x	х	x	x	x	x	х	x
Feature Library Creation, Editing, + Export	x	х	x	х	х	х	x	х
GNSS Online Planning	x	x	x	x	x	x	х	x
Publish Designs to WorksManager	x	х	x	x	х	х	x	х
Publish to WorksOS	x	х	x	x	x	х	х	x
Quadri Connector	x	х	x	x	х	х	x	х
Selection Sets + Selection Explorer	x	x	x	x	x	х	х	x
Trimble Clarity Publishing	x	х	x	x	x	х	x	х
Trimble Field Data Import + Export	x	x	x	x	х	x	x	x
Trimble SiteVision Export	x	х	x	x	x	х	x	x
Trimble SketchUp Import + Export	x	x	x	x	x	x	x	x
Trimble Sync Manager	x	х	х	х	х	x	х	х
Trimble VisionLink Import + Export	x	x	x	x	x	x	x	x
View Survey + Construction Raw Data	x	х	x	х	х	х	x	х
Web Map Service	×	x	x	x	x	x	x	x
WorksManager Work Order	x	х	x	x	х	х	x	х
WorksOS	x	x	x	x	x	x	x	x
Basic CAD + COGO Tools		х	x	х	х	х	х	х
Data Spreadsheets		x	x	x	х	x	x	x
Detect Crossing Geometry		х	x	x	х	х	х	х
ESRI Shapefiles Import + Export		x	x	x	х	x	x	x
Feature Code Processing		х	x	х	х	х	х	х
Google Earth Export		x	x	x	х	x	x	x
IFC Georeference + Export		х	x	х	х	х	х	х
Level Data Import + Adjustment		х	x	x	x	х	х	x
Local Site Creation + Settings		х	x	x	х	х	x	х
Optical Data Processing		х	x	x	x	х	х	x
Site Calibration + Reporting		х	x	x	x	х	х	х
Third-Party Data Exports		х	x	x	x	x	х	x
TopoDOT Export - Terrestrial Scan Data		х	x	x	x	х	х	х
Total Station Editor		x	x	x	x	x	x	x
Alignment Creation + Editing			x	x	х	х	x	х
Earthwork Reports			x	x	x	x	x	x
Point Cloud Viewing + Sampling			x	x	х	х	x	х
Points from CAD Creation			x	x	x	x	x	x
Surface + Stored Cross-Section Reports			x	x	х	x	x	х
Surface Contour Creation			x	x	x	x	x	x
Surface Creation + Editing			x	x	х	х	x	х
Add Reference File				x	x	x	x	x

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Workflow / Feature	Viewer	Field Data	Surface Modeling	Survey Intermediate	Survey Advanced	Site Modeling	Site Construction	Infrastructure Construction
ALTA Relative Precision Report				x	x	х	х	x
Background Maps Display				x	x	х	x	x
Customized Reports				х	x	х	х	х
Dimensions + Annotations				x	x	х	x	x
Dynamic Label + Table Creation				х	x	х	х	х
Export .GVX files to NGS' OPUS Projects				x	х	x	x	х
Georeference PDFs				x	х	х	х	х
GNSS Baseline Processing				x	х	х	x	х
Grid + Ground Distance Labels				x	х	х	х	х
Image Tools				x	х	х	x	х
Network Adjustments				x	х	х	х	х
Traverse Adjustments				x	x	х	x	x
Trimble RTX GNSS PP Service				x	х	х	х	х
3D PDFs Creation					х	х	х	х
Automated Cross-Section Plots					х	х	х	х
Create Sub-Template					х	x	x	х
Create Surface From Reference File					х	х	x	х
COGO + Survey CAD Commands					х	x	x	х
Corridor Design Tools					х	х	x	х
Cutting Plane View + Plane Manager					х	х	х	х
Dynamic Scale Bars					х	х	x	х
Dynaview Links to Model Space					х	х	х	х
History Log View					х	х	x	х
Legal Description Writer					х	х	х	х
Macros Creation + Application					x	х	x	x
Manual Camera Calibration					х	х	х	х
Merge Survey Projects					х	х	x	х
Mobile Mapping Data Import					х	х	х	х
Parcel + Map Check Routines					х	х	x	х
Plan + Sheet Sets Creation					х	х	x	х
Projected, Radial, + Vertical Surfaces					х	х	x	х
Rectified Image Creation					х	х	x	х
Side Slope Creation					х	х	x	х
Single + Double Proportioning					х	х	х	х
Subplanes Along a Path Creation					х	х	x	х
Superelevation Diagrams					х	х	х	х
TopoDOT Export - Mobile Mapping Data					x	х	x	x
Trimble VISION Support					х	х	x	х
Virtual DR					x	х	x	x
Data Prep Tools						х	x	х
Elevate Contours, Pads, + Lines						х	x	x
Machine Data Tools						х	x	x
Map Layers						х	х	х

Transforming the Way the World Works

Trimble Business Center



Workflow / Feature	Viewer	Field Data	Surface Modeling	Survey Intermediate	Survey Advanced	Site Modeling	Site Construction	Infrastructure Construction
Project Cleanup Tools						х	х	х
Surface Site Improvements						х	х	х
Variable Offset Lines						х	х	х
Vertical Design Tools						х	х	х
Corridor Boring Creation							х	х
Custom Takeoff Reports							х	х
Digitize + Extract Contours, Lines, + Pads							х	х
Digitize + Extract Cross-sections							x	х
Earthwork Summary							х	х
Identify Site Regions							х	x
Site Boring Creation							х	х
Site Mass Haul Creation + Analysis							х	x
Station / Offset View							х	х
Strata + Topsoil Area Tools							х	х
Validate Site Improvements							х	х
Corridor Mass Haul Creation + Analysis								х
Corridor Mass Haul Import + Export								х
Intersection Template Creation								х
Mass Haul to TILOS Export								х
Parametric Corridor Design Tools								х

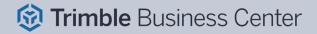
- Workflow Matrix

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Modules

Each Trimble[®] Business Center (TBC) Module is designed to support a group of workflows around a single topic. The modules are add-ons to an edition.

- Aerial Photogrammetry Module: Process + create deliverables with Trimble + third-party UAS data in TBC + UASMaster.
- **ANZ Toolbox:** Use a variety of commands that support 12d Model and Australian Asset Design and As Constructed (ADAC) workflows.
- **Drilling Piling Dynamic Compaction Module:** Create drill plans + reports for Trimble DPS900 Machine Control Systems.
- **GIS Module:** Seamlessly integrate GIS data from Trimble Access[™] + TerraSync[™] software into TBC + connect to external GIS databases.
- **Mobile Mapping Module:** Process, register, + manage MX9 Mobile Mapping data; work with MX hardware calibrations.
- **MM MX9 Laser Correction Module:** Account + adjust for multiple-time around (MTA) laser effects in the MX9 Mobile Mapping hardware.
- **Monitoring Module:** Define movement alarms, visualize displacements in 3D, and create monitoring reports from any survey data.
- **Scanning Module:** Register + colorize SX10 + X7 data; classify regions, extract features, + create deliverables from SX10, X7, + 3rd party point clouds.
- **Tunneling Module:** Create + edit tunnel models for Trimble Access Tunnels + create customized as-built + geometry reports.
- **Utility Modeling Module:** Generate + visualize gravity, pressurized, + other utility runs in parametrical constrained trenches.





Workflow / Feature	Aerial Photogrammetry	ANZ Toolbox	Drilling Piling Dynamic Compaction	GIS	Mobile Mapping	MM MX9 Laser Correction	Monitoring	Scanning	Tunneling	Utility Modeling
Advanced UAS Adjustment	x									
Aerial Photo Station Adjustment	x									
Delair UX11 Support	x									
Extract Ground	x									
Hardware Agnostic Support in UASMaster	x									
Import UAS Data	x									
Orthomosaic, Point Cloud, + DSM Creation	x									
Point Cloud Ground Extraction	x									
senseFly eBee SODA Support	x									
UASMaster v9.x	x									
ADAC Import & Export		x								
ANZ Conformance Reports		x								
ANZ Surface Tools		x								
ANZ Data Investigation & Editing Tools		x								
12da File Import & Export		x								
ADAC Exporter		х								
ADAC Settings v5.01		x								
Export 12da File (Advanced)		х								
Import 12da File (Advanced)		х								
Import ADAC File		х								
Utility Node To BIM Object		х								
Compaction Plan + Report Creation			x							
DPS900 Import + Export			х							
Drill Plan + Report Creation			x							
Pile Plan + Report with Custom Pile Creation			х							
COR + SSF Data Suport + Post-processing				x						
File Geodatabase Import + Export				х						L
GIS Data Source Upload				х						
Map Metadata to Geodatabase				х						
Read GIS Data from Data Sources				х						
Schema into Feature Library Extraction				х						L
Extract Classified Point Cloud Regions					x			x		
Generate PFIX					x					
Hardware Calibration Export					х					
LAS Export with Colorized Timestamp					х					
Mobile Mapping Point Clouds Creation					х					
MX50 Mobile Mapping Data Import and Registration					x					
MX9 Mobile Mapping Data Import and Registration					x					
POSPas SBET GNSS Trajectories Support					х					
Process Raw Trajectory Data					х					
Report on MX9 Mission + Registration					x					
Split MX9 Run					x					
Adjust MTA for MX9 Laser						x				
Assign Monitoring Project							х			

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Workflow / Feature	Aerial Photogrammetry	ANZ Toolbox	Drilling Piling Dynamic Compaction	GIS	Mobile Mapping	MM MX9 Laser Correction	Monitoring	Scanning	Tunneling	Utility Modeling
Create Monitoring Points							x			
Import + Manage Monitoring Epochs							x			
Monitoring Points Spreadsheet							x			
Show Monitoring Chart							x			
Show Monitoring Report							x			
Sync Monitoring Project							x			
CAD Points from Scan Points Creation								x		
Extract Cross-sections From Point Cloud								х		
Extract Geometry								x		
Extract Point + Line Features From Point Cloud								х		
FARO Scan Data Import								х		
Filter Point Cloud								x		
Georeference Scan Data								x		
Orthophoto Images Creation								x		
Point Cloud Region Classification								х		
Point Features Extraction								х		
Scan Inspection								x		
TZF (Trimble TX6 + TX8) Data Import								х		
Assign Tunnel Convergence Points									х	
Create CAD Tunnel Cross-Sections									x	
Create Tunnel Inspection Map									х	
Create Tunnel Inspection Points									x	
Custom As-Built Tunnel Reports									x	
Design + As-Built Tunnel Mesh Creation									x	
Extract Classified Tunnel Regions									x	
Plan Sets with Tunnel Geometry Drafting									x	
Point Cloud to Tunnel As-Built Assignment									x	
Rebuild As-Built Tunnel Mesh									x	
Select Tunnel Points									x	
Setout Point Creation									x	
Trimble Access Tunnels Import + Export									x	
Tunnel As-Built Report (best-fit circle)									х	
Tunnel Convergence Report									х	
Tunnel Corridors Creation + Editing									х	
Tunnel Geometry Reports									х	
Tunnel Inspection Report									x	
Tunnel Inspection View									x	
Tunnel Set Outs As-Built Report									x	
Pipe + Utility Network Creation										х
Trench Templates + Surfaces Creation										х
Trench Template Manager										х
Utility Node Creation										х
Utility Shapes Customization										x
Utility Takeoff Reports										x

Disclaimer: Trimble reserves the right to change the licensing or make corrections to the program at any time through an update to Trimble Business Center and or a correction to this list.

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