

# ARCHICAD 20 and STAR(T) Edition® New Features Comparison Chart

	ARCHICAD 20	SE 2017	SE 2016	SE 2015	SE 2014	SE 2013
<b>Modeling</b>						
Complex, Multi-story Elements	+	+	+	+	+	+
Floor-plan Display Options for Construction Elements	+	+	+	+	+	+
Multi-Plane Roof	+	+	+	+	+	+
Priority Based Connections	+	+	+	+	+	+
Profiled, Slanted Walls, Columns, Beams via the Profile Manager	+	+	+	+	+	+
Doors/Windows Fit to Slanted and Complex Wall Surfaces	+	+	+	+	+	+
Curved Profiled Walls and Complex Elements	+	+	+	+	+	+
Shell Tool	+	+	+	+	+	+
Morph Tool	+	+	+	+	+	+
Core-Based Reference Line for Component Structures	+	+	+	+	+	
Automatic Model-Based Junctions	+	+	+	+	+	
Air Gaps in Composite Structures: Correct Display & Handling	+	+	+	+		
Building Materials: Expanded Properties & Tags	+	+	+	+		
Edit Multiple Elements Simultaneously	+	+	+	+		
Composites Without Cores	+	+	+	+		
NURBS Definition in GDL	+	+				
Sketchup v2016 Support	+	+				
3DM (Rhino File) Import-Export	+					
Link Element Heights to Stories	+					
Curtain Wall Tool	+					
<b>Visualization / 3D Exploration</b>						
Internal Rendering Engine	+	+	+	+	+	+
Virtual Tracing - Reference Layer among all Views, Layouts	+	+	+	+	+	+
3D Zones Geometry Fit to Complex Elements	+	+	+	+	+	+
Partial Structure Display	+	+	+	+	+	+
3D Feedback with Working Plane, 3D Guidelines	+	+	+	+	+	+
3D Editing Plane	+	+	+	+	+	+
Snap to Surface in 3D Window; Move & Elevate in One Step	+	+	+	+	+	+
Real-Time Editable 3D Cutting Planes	+	+	+	+	+	
Two-point Perspective	+	+				
Sketch Rendering	+					
CineRender Engine R16	+					
<b>Documentation</b>						
3D Document: Dimensioned and Annotated 3D Views	+	+	+	+	+	+
Interactive, Annotated Door/Window Schedules	+	+	+	+	+	+
Scale Dependant Detailing	+	+	+	+	+	+
Interactive Schedule Data Export to Excel	+	+	+	+	+	+
External Drawings (PDF/DWG/Image from/to SE)	+	+	+	+	+	+
Import Site Survey Geometry as Morphs	+	+	+	+	+	+
Floor-plan Based 3D Document	+	+	+	+	+	
Interior Elevation Improvements	+	+	+	+		
BIMx Hyper-model Publishing	+	+				
Element Previews in Schedules	+	+				
Revision Management	+					
Publish Layers to PDF from Layout	+					
Publish Element Information for BIMx hyper-models	+					
Renovation Feature with Element-level Statusing	+					

### Workflow-Productivity-Project Management-Performance

Integrated Layouting, Layout Book	+	+	+	+	+	+
Markup Tools	+	+	+	+	+	+
Supersafe Autosave	+	+	+	+	+	+
Single, Unified Undo Queue for the Entire Project	+	+	+	+	+	+
Easy Creation of Custom Library Parts with Modifiable Attributes	+	+	+	+	+	+
Graphical Project North Definition	+	+	+	+	+	+
Building Materials, Smarter Attribute Management	+	+	+	+	+	
Conceptual Design with Morph Scheduling	+	+	+	+	+	
Duplicate Elements in Section and Elevation View	+	+	+	+	+	
Background Processing Support for Faster Performance	+	+	+	+	+	
Flexible Editing of Placed PDF Drawings	+	+	+	+		
PDF-Based Data Exchange – Optimized Export, with Layers	+	+	+	+		
Easier Attribute Management/Handling	+	+	+	+		
Snap Points and Guide Lines	+	+	+			
Tab Bar on Windows and Mac	+	+	+			
Mac Interface: Unified Window Mode with Docking Palettes	+	+	+			
List Skin/Component Area in Interactive Schedule	+	+	+			
Schedule of Finishes	+	+	+			
Appearance and Speed Improvements for Dimensions and Labels	+	+	+			
MEP Improvements in Collision Detection, Classification	+	+	+			
Predictive Background Processing for Nearly Instant Model Views	+	+	+			
Optimized OpenGL Engine for Smoother, Faster Navigation	+	+	+			
Surface Painter	+	+	+			
Multithreading Available on Unlimited Number of Cores	+					
Project Publisher	+					
(Multi-story) Hotlinked Modules	+					
License Borrowing, NET License	+					
Integrated Building Energy Evaluation	+					
Flat User Interface	+	+				
Vectorial Icons	+	+				
Graphical Favorites	+	+				
Retina Display Fully Supported on Mac	+	+				
User-Defined Element Properties	+	+				
Mass Import of Element Property Data	+					

### Communication; I/O; Interoperability - PLN, PLA, TPL, MOD File Import

AutoCAD DWG/DXF Import/Export	+	+	+	+	+	+
Convert Surveyor's Data into ARCHICAD Mesh	+	+	+	+	+	+
Integrated IFC Import/Export Engine, Property Management	+	+	+	+	+	+
Building Element Classification for MEP & Structural Engineering	+	+	+	+	+	+
Data Exchange with Structural Software	+	+	+	+	+	+
Save Elements to Common DWG Blocks	+	+	+	+	+	
Google Earth and SketchUp Connection	+	+	+	+	+	
IFC Support for Multiple Standards	+	+	+	+	+	
PDF/A Export	+	+	+	+	+	
Enhanced Mark-Up; 3D Screenshots	+	+	+	+		
BIM Collaboration Format (BCF)-Based Data Exchange	+	+	+	+		
Scheme-Driven IFC Data Management and Export	+	+	+	+		
ARCHICAD BIM Parameters & Quantity Mappings to IFC Data	+	+	+	+		
Certified Import and Export of IFC 2x3 Coordination View v2.0	+	+	+	+		

Complex and Composite Geometry Export/Import Enhancements	+	+	+	+		
Exact IFC Geometry Import; Attribute Handling/Overrides	+	+	+			
ID Management of IFC Spatial Elements	+	+	+			
Better Import of MEP Models w/ Automatic Detection/Conversion	+	+	+			
Streamlined IFC data mapping of Library Part Parameters	+	+	+			
IFC Publishing	+					
Export Multiple Layouts into Single DWG	+					
Save Exploded DWG Drawings to a Single Layer	+					
DXF/DWG External Reference Support (Xref)	+					
Point Cloud Display	+					
EDU / Trial File Format Support	+					
PMK File Format Support	+					
Export Model to STL Format	+					
Criteria-based Graphic Overrides for Design Communications	+					
IFC4 Import-Export	+	+				
Survey Point Definition	+	+				
Export to gbXML	+					
Export to PHPP	+					
ARCHICAD 20 File Open   Save	+ +	- -	- -	- -	- -	- -
EDU File Open   Save	+ -	- -	- -	- -	- -	- -
SE 2014 File Open   Save	+ -	+ -	+ -	+ -	+ +	- -
SE 2015 File Open   Save	+ -	+ -	+ -	+ +	- -	- -
SE 2016 File Open   Save	+ -	+ -	+ +	- -	- -	- -
SE 2017 File Open   Save	+ -	+ +	- -	- -	- -	- -
<b>Library</b>						
Model View Options for Library Parts	+	+	+	+	+	+
Embed Only Necessary Library Objects in the Project	+	+	+	+	+	+
Library Migration, Library Management	+	+	+	+	+	+
Keyword Based Search Function Finds Library Parts	+	+	+	+	+	+
Double-Quick Library Loading Times, Faster 3D Handling	+	+	+	+	+	
Simplified Door/Window UI	+	+	+			
New and Improved Label Types	+	+	+			
No Character Number Limit in Lib Part Names	+	+				
Embedded Libraries Extracted into Virtual File System	+	+				
OpenGL Previews in Object Settings	+	+				
<b>Teamwork &amp; BIM Server</b>						
Teamwork Extended to Documentation Process - Layouts	+					
BIM Server - Model Based Team Collaboration	+					
Reservation Methods	+					
Instant Team Communication	+					
Remote Project Management, Portability and Remote Access	+					
Delta-Server for Fast and Safe Data Exchange in Teamwork	+					
Control Over Client-Server Technology	+					
BIM Server Optimized: Autosave Backup, Faster Performance	+					
BIMcloud Control Icon: Single Entry Point for Server Management	+					
Network Diagnostic Tool for all BIMcloud/BIM Server components	+					
Easy Management of Teamwork Libraries	+					