



Version Comparison

Not sure which AviPLAN™ version is right for you? Consult the feature comparison below!

Major Features

	AviPLAN Turn	AviPLAN Turn Pro	AviPLAN Airside	AviPLAN Airside Pro
LIBRARIES				
2D commercial, cargo and military airplanes and helicopters - top view	•	•	•	•
2D commercial, cargo and military airplanes - front and side views		•		•
3D commercial, cargo and military airplanes		•		•
2D pushback tractors and ground service equipment - top view	•	•	•	•
3D pushback tractors and ground service equipment		•		•
2D critical design airplanes for each FAA, EASA and ICAO group - top view		•		•
2D passenger boarding bridges - top view			•	•
3D passenger boarding bridges				•
CUSTOMIZATION				
Create 2D custom vehicles	•	•	•	•
Create 2D custom passenger boarding bridges			•	•
Create and store groups of airplanes, e.g. airline fleet mix		•		•
Create and store user-defined service vehicle arrangements	•	•	•	•
AIRSIDE DESIGN				
FAA, EASA or ICAO airplane classification and minimum clearance regulations	•	•	•	•
Airplane filtering and sorting options, compare and/or select critical airplane(s)	•	•	•	•
PATH CONSTRUCTION				
Simulate 2D aircraft and vehicle maneuvers on a Z=0 plane	•	•	•	•
Simulate 2D and 3D aircraft and vehicle maneuvers on a terrain or Z≠0 plane		•		•
Perform pushback or pull maneuvers with airplanes and compatible tractors	•	•	•	•
Follow nose-gear or cockpit ground markings (CAD line and arc elements)	•	•	•	•
Maneuver manually or specify direction (value or inherited from CAD element)	•	•	•	•
Alternate between arc, direct and oversteer turn types	•	•	•	•
Vary speed and (nose-gear) steering angle, even when reversing	•	•	•	•
Select from multiple construction points, e.g. airplane nose-gear or cockpit	•	•	•	•
Review heads-up display of projected path and airplane or vehicle position	•	•	•	•
Edit/modify path parameters, e.g. turn types and speed	•	•	•	•
View real-time path information, e.g. distance, duration	•	•	•	•
Design nose-gear or cockpit centerline markings		•		•
Set path start/end by clicking objects in existing simulations		•		•
Change steering angle dynamically to optimize maneuvers		•		•
PATH DISPLAY ELEMENTS				
Paths e.g. nose-gear and main-gear, engines, wing tips, pilot's eye	•	•	•	•
3D paths e.g. wing tips, engine undersides, tail tip (minimum/maximum heights)		•		•
Jet blast velocity contours and impact areas for various engine thrust levels	•	•	•	•
ICAO/FAA/EASA/User-defined nose-gear, main-gear or wing tip clearances	•	•	•	•
Service connections and vehicle arrangements	•	•	•	•
Clearance box and engine-intake danger area	•	•	•	•
Vehicle body and wheel envelope	•	•	•	•
Static airplane/vehicle at set point(s) along path	•	•	•	•
Nose-gear or cockpit centerline marking		•		•
Path sections (split into multiple sections) showing e.g. jet blast transition		•		•



Major Features

AviPLAN
Turn

AviPLAN
Turn Pro

AviPLAN
Airside

AviPLAN
Airside Pro

STAND DESIGN (CONTACT AND REMOTE) AND PARKING

Park static 2D aircraft and vehicles on a Z=0 plane	•	•	•	•
Park static 2D and 3D aircraft and vehicle maneuvers on a terrain or Z≠0 plane		•		•
Design 2D contact or remote stands on a Z=0 plane			•	•
Design 2D and 3D contact or remote stands on a terrain or Z≠0 plane				•
Specify bridge characteristics, e.g. envelope limits, cabin rotation and stairs			•	•
Specify settings for docking parameters, e.g. maximum slope			•	•
Specify a margin of error to allow for airplane misparking			•	•
Define (manually) and/or reposition stop lines, using range indicator assistant			•	•
Drag airplane(s) along lead-in line and monitor bridge slope and other results			•	•
Review heads-up display when (re)positioning bridges, lead-in or stop lines			•	•
View detailed real-time numerical results, including warning indications			•	•
Add multiple bridges and lead-in lines (MARS)				•
Define apron service installations, e.g. fuel pits, 400 Hz and conditioned air				•
Automate stop line creation process (considers all specified parameters)				•
Automate airplane positioning (considers all specified parameters)				•
Automate stop line usage (minimize number of stop lines used)				•
Automate bridge slope or length minimization				•
Clearance violation alert on a stand, e.g. between airplane(s) and/or bridge(s)				•
Clearance violation alert between stands, e.g. when (re)positioning a stand				•

DISPLAY ELEMENTS FOR STAND DESIGN AND PARKING

Service connections and vehicles, clearance box(es), engine-intake area(s)	•	•	•	•
Bridge envelope(s), parked and docked bridges, airplanes and vehicles			•	•
Lead-in line(s) with stop lines, (custom) labels and limits (front and rear)			•	•
Airplane cloud and merged clearance box (all airplanes on a lead-in line)			•	•
Fuel pit(s) and other installations, with safety and/or operational radius				•

FILLET DESIGN

Define taxiway intersection routes/entries		•		•
Calculate taxiway and shoulder edges in accordance with ICAO/FAA/EASA		•		•
View results indicating the most demanding airplanes by route		•		•

DISPLAY ELEMENTS FOR FILLET DESIGN

Entries and route centerlines		•		•
Calculated taxiway and shoulder edges		•		•
Main gear clearances for intersection, route and airplane		•		•
Engine paths, inner and outer for intersection, route and airplane		•		•

REPORTING

Create Microsoft Word® (.odt) and/or CAD text path reports	•	•	•	•
Create Microsoft Word® (.odt), Excel® (.csv) and/or CAD text stand reports			•	•
Create Microsoft Word® (.odt), Excel® (.csv) and/or CAD text fillet reports		•		•

ANIMATION AND VISUALIZATION

Animate 2D aircraft and vehicle maneuvers in CAD drawing	•	•	•	•
Animate 2D and 3D aircraft and vehicle maneuvers in CAD drawing		•		•
Create 2D and 3D presentations with multiple simulations		•		•
Sequence/Set start and stop times for each simulation session		•		•
Follow a moving object or pan between fixed camera positions		•		•



Major Features

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Display static objects and path elements before and after animation		•		•
Set properties for simulation sessions in presentation, e.g. fill color, line types		•		•
Select playback speed and display elapsed time in presentation		•		•
Set frames per second and video codec type to reduce AVI file size		•		•
Record presentations to AVI for playback using any compatible movie player		•		•

DATA MANAGEMENT

Set colors, line type, layer/level and other properties for display elements	•	•	•	•
Create and store property templates, independent from drawing	•	•	•	•
Export/Share custom objects	•	•	•	•
Store simulations with unique names and manage using folders	•	•	•	•
Duplicate simulations within a drawing and place on desired location	•	•	•	•
Import simulations from the user database and place in a (new) drawing		•		•
Store presentations with unique names and manage using folders		•		•
Export/Share simulations for use in other drawing(s) and/or CAD platform(s)		•		•
'Run as...' to launch software as any AviPLAN version				•

COMPATIBILITY AND TECHNOLOGY

Workstation: Windows® Vista SP2, 7 SP1, 8/8.1 and 10	•	•	•	•
Network server: Microsoft® Server 2008, 2008 R2, 2012, 2012 R2 and 2016	•	•	•	•
Autodesk AutoCAD® 2010 - 2020 including verticals (except AutoCAD LT)	•	•	•	•
Autodesk Civil 3D® 2010 - 2020				
Bentley® MicroStation® V8i, CONNECT Edition				
Bentley® MicroStation PowerDraft® V8i, CONNECT Edition				
Bentley® OpenRoads Designer® CONNECT Edition	•	•	•	•
Bentley® PowerCivil® V8i				
Bentley® Power GEOPAK® V8i				
Bricsys BricsCAD® V14 - V19 (Pro and Platinum versions only)	•	•	•	•
License server with user permissions and license checkout (borrow)	•	•	•	•
Automatic license updates (e.g. for MAP extensions)	•	•	•	•
Software notifications when software or library updates are available	•	•	•	•
Silent Install / Windows® Installer (MSI)	•	•	•	•