



### 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
<b>LIBRARIES</b>				
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				•
<b>CUSTOMIZATION</b>				
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	•	•	•	•
<b>AIRSIDE DESIGN</b>				
FAA, EASA or ICAO airplane classification and minimum clearance regulations	•	•	•	•
Airplane filtering and sorting options, compare and/or select critical airplane(s)	•	•	•	•
<b>PATH CONSTRUCTION</b>				
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		•		•
<b>PATH DISPLAY ELEMENTS</b>				
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

	AviPLAN Turn	AviPLAN Turn Pro	AviPLAN Airside	AviPLAN Airside Pro
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)		•		•

### 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 - 2019 including verticals (except AutoCAD LT)	•	•	•	•
Autodesk Civil 3D® 2010 - 2019				
Bentley MicroStation® V8i and CONNECT Edition; PowerCivil® V8i;				
Bentley MicroStation® PowerDraft® V8i and CONNECT Edition	•	•	•	•
Bricsys BricsCAD® V14 - V18 (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)	•	•	•	•

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