AVIPLAN®, with renowned market-leading technology at its core, delivers a unique feature-set tailored to meet the specific challenges faced by today's airside planning, design and operations professionals. Analyze aircraft and support vehicle movements on airport aprons and taxiways, plan complex docking scenarios with multiple passenger boarding bridge -lead-in-line- airplane combinations, assess jet blast impacts and safety clearances, simulate complex pushback maneuvers and more.

EFFICIENTLY COMPLETE AIRSIDE STUDIES

INTELLIGENT STAND PLANNING
AviPLAN provides airport planning professionals with the tools required to plan and optimize 2D and 3D airplane parking stands, including Multiple Aircraft Ramp System (MARS) stands, in an unrivalled level of detail. Factor in parameters such as the underlying terrain, passenger boarding bridge model, fixed apron services and airplane misparking margins. Leverage built-in software capabilities to optimize airplane parking positions, minimize bridge slope or tunnel extension or even the number of stop bars required.

AIRSIDE DESIGN STANDARDS
AviPLAN incorporates International Civil Aviation Organization (ICAO), Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) aircraft groups and associated minimum safety clearance distances to provide operators with the essential tools required to efficiently complete airside studies.

SAFE AIRCRAFT MANEUVERING
AviPLAN's powerful 2D and 3D maneuver simulation tools allow users to define and adjust parameters such as aircraft/vehicle type, turn types and angles, construction points and offsets, speeds and much more. Analyze jet blast impacts, assess taxiway fillets or control clearance compliance, either by following existing CAD geometry or by generating new marking designs.
ACCURATE PUSHBACK MANEUVERS

AviPLAN's dependable path simulation algorithm allows users to accurately simulate complex airplane-towbar/towbarless tractor pushback maneuvers in 2D and 3D. Ensure that minimum safety clearances are respected and that no undue strain is placed on equipment when executing maneuvers on the tarmac.

Leverage advanced optimization functionality to plan contact and non-contact stands in an unrivaled level of detail.

SIMULATE COMPLEX DOCKING SCENARIOS IN 2D AND 3D

Create dynamic movie presentations to communicate technical output to stakeholders in style

REPORTING & VISUALIZATION

Fully integrated within AviPLAN comes a tool-set for converting technical maneuver and docking simulation analysis into professional movies in 2D and 3D, ideal for succinctly visualizing complex technical results. Further, AviPLAN includes tools to produce detailed Microsoft Word® and Excel® reports with text and graphic details.

EXTENSIVE OBJECT LIBRARY

Accurate airside planning is only possible with accurate equipment specifications. AviPLAN's extensive 2D and 3D object library, which includes more than 500 passenger, cargo, military and special purpose airplanes, has been developed in close collaboration with major manufacturers and objects are put through thorough quality-control checks to ensure the utmost accuracy, both visually and technically.

FOUR TAILORED VERSIONS AVAILABLE

AVIPLAN AIRSIDE PRO

Advanced aircraft maneuver and parking stand simulation and visualization

AVIPLAN AIRSIDE

Aircraft maneuver and parking stand simulation essentials

AVIPLAN TURN PRO

Advanced aircraft maneuver simulation and visualization

AVIPLAN TURN

Aircraft maneuver simulation essentials

DEVELOPED BY AIRPORT PLANNERS, FOR AIRPORT PLANNERS
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