



PANADES[®]

Procedures for Air Navigation services
-Airspace Design and Evaluation System



PANADES is an integrated software package for Flight Procedure Design that provides an innovative humanmachine-interface and a high level of automation throughout the design process.

01

Compliance
Criteria

Flight Procedure Design Function

- Conforms to ICAO PBN concept as well as PANS-OPS Criteria (ICAO Doc 8168).
- ICAO Doc 9613 PBN Manual.
- Includes functions to design RNP AR Approach Procedures based on RNP AR Procedure Design Manual (ICAO Doc 9905).
- ICAO Doc 9906 Quality Assurance Manual for Flight Procedure Design.
- ICAO Doc 9368 Instrument Flight Procedure Construction Manual.
- En-route tentative Criteria for Japan.

02

Core
Performance

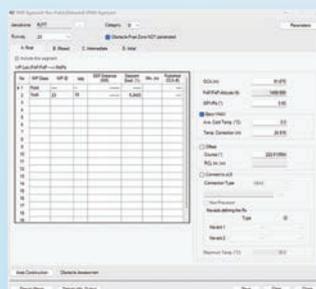
High Level of Automation

- Protection areas are drawn just by pressing one button.
- Obstacle assessment of all phases is conducted by one button.
- Redraw the areas by mouse dragging.

User Friendly HMI

- Complete a design in "one window" from initial to missed segment.
- ARINC 424 tabular type interface is applied for RNAV procedures.
- Design multiple flight procedures at once.

User Interface



↓ Assess Obstacles



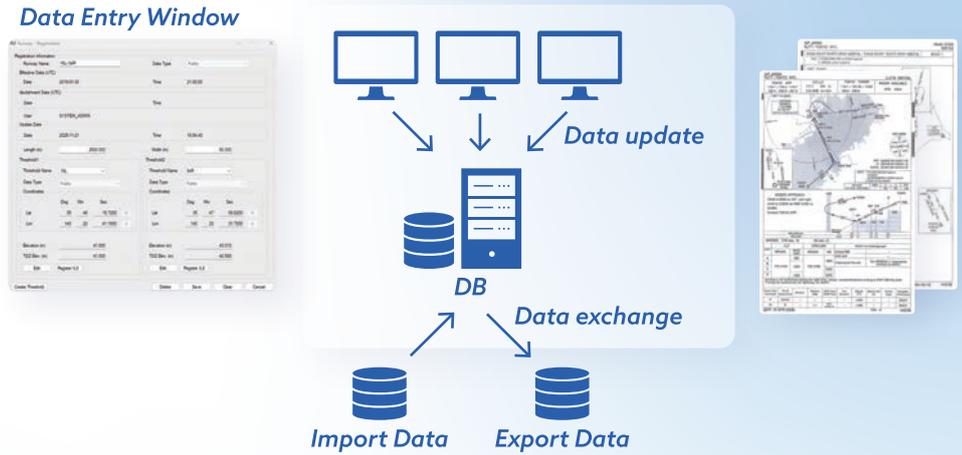
Automatically
draw Areas



03

Aeronautical Data Management

- Manages AIP data, obstacle data, terrain data and procedure design data efficiently.

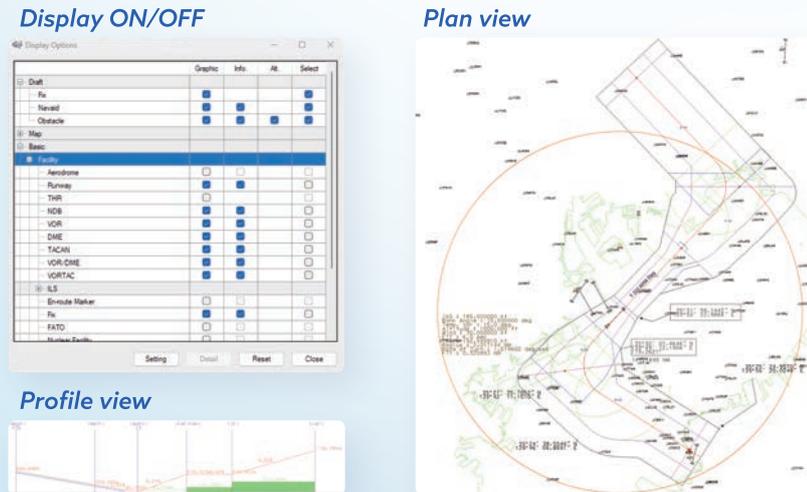


- Provides import/export functions to exchange data with other database or software applications.

04

Display Capabilities

- Customizable Visualization Results
Includes built-in view-configuration features so visualization results are easy to customize and use.
(Controls visibility of data layers on the plan/profile view.)



- Imports different types of raster maps according to the user's needs.

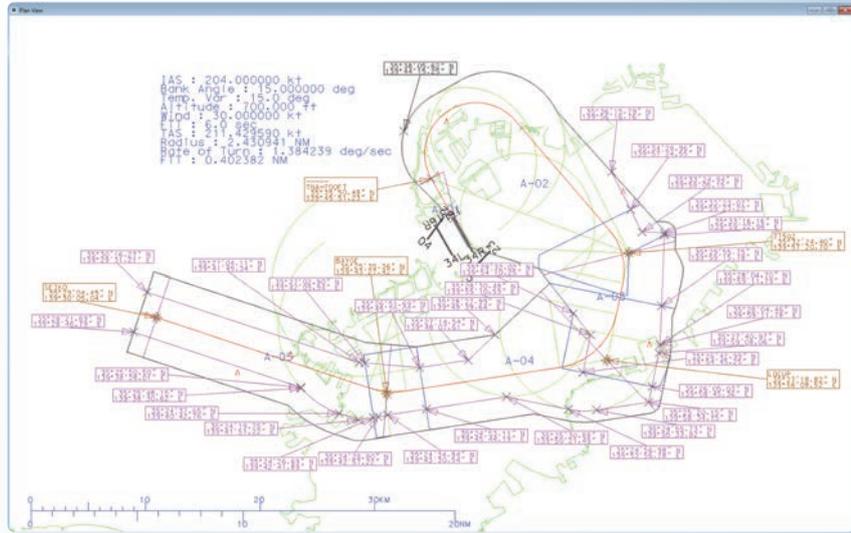


- Provides functions to change colours and line types of data and geometry.

05

Design Support Functions

- Provides a variety of tools for manual drawing and area assessment.



- Enables integrated parameter administration for procedure design.
- Adds important information to plan view or profile view.
- Horizontal/Vertical assessment with Airspace.
- Specific Objects verification function.
- Supports 3D display of flight procedure designs on Google Earth.



- Supports multiple report formats and outputs.
- We provide a full range of services from initial data preparation and training to ongoing maintenance.

[Analysis](#)

[Installation](#)

[Training](#)

[User Support](#)

[Maintenance](#)

[Upgrade](#)

NTT DATA Japan Corporation

3-9, 3-chome, Toyosu, Koto-ku,
Tokyo, 135-8671, Japan
E-mail : info@airpalette.net
www.nttdata.com



PANADES
Overview Video

