The Terminal Area Route Generation and Traffic Simulation (TARGETS) tool offers a unique combination of capabilities for the design, analysis, and operational assessment of procedures and airspace. Developed by The MITRE Corporation’s Center for Advanced Aviation System Development (MITRE/CAASD) under sponsorship of the Federal Aviation Administration (FAA), the tool is being used by a variety of FAA and non-government users supporting the implementation of area navigation (RNAV) and required navigation performance (RNP) operations within the United States and internationally.

Benefits of TARGETS
TARGETS incorporates data visualization capabilities with readily accessible design elements to enable analysts and designers to rapidly and easily develop procedures. The integrated capabilities of TARGETS enable quick assessment of alternative design concepts, leading to robust solutions that satisfy operational needs and comply with design constraints. Using TARGETS significantly reduces the time to capture requirements and expedites the overall design process. TARGETS integrates with standard office applications making it easy to prepare presentations or document procedure design and the data output is formatted to support operational, certification, and charting needs. Information that took weeks to generate can now be done in hours!

Features of TARGETS
- Integration of essential capabilities into a single desktop application, featuring multi-platform compatibility.
- An easy-to-learn user-tested interface utilizing a comprehensive geographic information system (GIS) to display information that expedites procedure development.
- Easy capture of route/procedure design information in project files and distribution packages, for dissemination to dispersed stakeholders.
- Automated evaluation of key procedure areas to ensure compliance with FAA, noise and operational requirements.
- Data export capabilities that include seamless exchange with standard office applications, auto-population of regulatory forms, electronic data exchange using web services, and flat files.

- Java-based software with object oriented design that runs on a variety of platforms, including most desktop personal computer (PC) systems. Platform requirements that are within the normal range of office automation systems and no Computer-aided design (CAD) engine is required.
- Plug-in architecture, which provides user controlled modularity and extensibility.

Integrated Capabilities of TARGETS
Procedure stakeholders need a way of merging geographic airspace and airport information (waypoints, navigation aids [NAVAIDS], routes, etc.) with flight procedure and path information based upon aircraft performance. TARGETS provides a GIS tailored to support procedure design, flyability assessment, airspace/procedure surface generation, obstacle assessment, noise assessment, seamless data exchange with centralized databases or other applications, and simulation of the operational environment.

TARGETS combines layers of information relevant to procedure development and airspace analysis. Fundamental data sources are navigation and airspace data.

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