



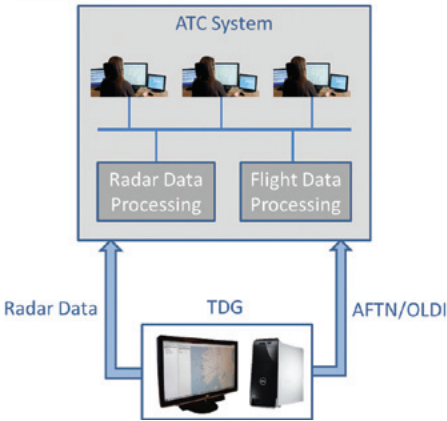
eCoach TDG

The **eCoach Test Data Generator (TDG)** is a tool for ATC system testing and evaluation by generating simulated radar- and AFTN data to an external system. As the ATC systems requirements get increasingly advanced and complex, testing becomes essential to verify and prove system behavior. With the eCoach TDG, testers can create complex scenarios and test their ATC system to assure expected performance.

This enables a thorough, repeatable and automated verification of the ATC system. In addition, different situations can be investigated in detail (e.g. load, safety nets, special situations, etc.). This significantly reduces the need for manual testing.



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The **eCoach TDG** (Test Data Generator):

- Contains advanced simulation capabilities
- Uses BADA aircraft performance data
- ICAO flight plans as a basis for creating simulated flights
- Graphical presentation of aircraft profile and trajectory
- Automatic generation of flight plan messages (FPL, EST etc.)
- Contains a script tool and work flow programming which can be used to:
 - Automate aircraft behavior and response.
 - Automate setup of simulator exercises.
 - Create responses to external messages.
 - Create special responses to simulator events.
 - Create ATS or other messages by help of a message wizard. Macros can be used to generalize messages.
- Windows based HMI which is intuitive and easy to use.
- eCoach Exercise Designer is used to create and modify exercises and can be used to pilot flights.
- Special test flights can perform maneuvers beyond real aircraft capabilities.