

ATAC SIMMOD Activities

North American Simmod Users Group

Arlington, VA

27 September 2007



Simmod *PLUS!* / *PRO!* Maintenance

Simmod *PLUS!* version 7.3 released

Database Changes

- Accommodate new engine features
- New parent tables for fields that may hold a fixed set of values. For example, `DIRECTION_USED` in the `GND_LINK` table.

General look-and-feel improvements throughout

Improvement of underlying mechanism of Animator data handling

SIMMOD Engine Maintenance

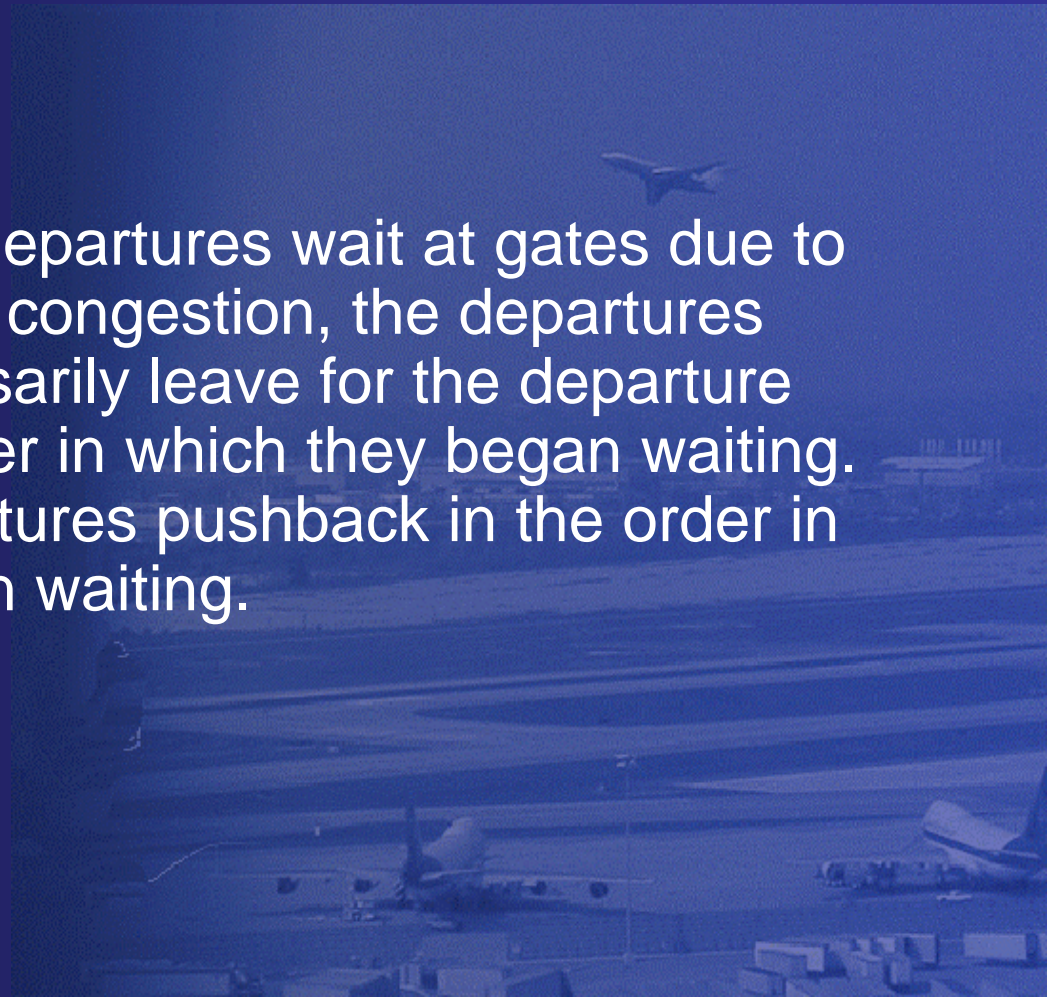
Gate logic changes:

1. A new entry has been added to the SETGATE event, that allows the analyst to change the gate capacity.
2. In cases where the optional ADistNo or DDistNo is missing, the following event in the SIMU09 would not be read properly.

SIMMOD Engine Maintenance

Gate logic changes:

3. In cases where departures wait at gates due to departure queue congestion, the departures would not necessarily leave for the departure queue in the order in which they began waiting. Now, such departures pushback in the order in which they began waiting.



SIMMOD Engine Maintenance

Runway logic changes:

4. Two new fields have been added to the runway inputs — TaxiFlagP and TaxiFlagO — to indicate if taxiing is allowed on the runway when it is active. These replace the global dat entries of taxi_on_runway and taxi_on_all_runways.
5. Taxiing aircraft whose taxiplan crosses both end nodes of a runway crossing would automatically be subjected to delays imposed on that runway crossing even if the taxiplan does not actually use that crossing. Fixed.

SIMMOD Engine Maintenance

Runway logic changes:

6. A new entry has been added to the SETRWY event, that allows the analyst to change the taxi flag.
7. Internal variables associated with the runway crossing logic were not re-initialized with each iteration. This could cause departures in subsequent iterations to hold indefinitely. Fixed.

SIMMOD Engine Maintenance

Taxi logic changes:

8. Taxiing aircraft whose taxiplan crosses both end nodes of a runway crossing would automatically be subjected to delays imposed on that runway crossing even if the taxiplan does not actually use that crossing. Fixed.
9. Taxipaths were not properly selected in cases where a plan change is in effect and GATERWY inputs are also defined. Fixed.

ATAC SIMMOD User Base

209 users (including 75 Simmod *PLUS//PRO!* customers) have obtained the ATAC Simmod engine since the release of version 2.5 in October 2001. These users are from the following 37 countries:

Argentina	Denmark	Kazakhstan	South Korea
Australia	Estonia	Malaysia	Spain
Austria	France	Mexico	Sweden
Belgium	Germany	Netherlands	Taiwan
Bosnia and Herzegovina	Greece	Poland	Thailand
Brazil	India	Russia	Turkey
Canada	Indonesia	Serbia	United Kingdom
Chile	Italy	Singapore	United States
China	Japan	South Africa	Vietnam
Croatia			