**CD++ Model Data Form**

Title: Aircraft Transponder with DEVS in Cadmium v2

Type: Cell-DEVS Model

Acronym/Short name: Transponder in DEVS

Purpose for which Developed: SYSC 5104 Assignment 1

Other Applications for which it is Suitable:

Date Developed/Implemented: February 2025

Domain: Analysis

Current Version 1.0

URL: https://github.com/murf85/aircraft\_transponder

Description: Models the interrogation of an aircraft transponder by a secondary search radar (SSR). The radar sends interrogation pulses at specific time intervals, the transponder responds to the interrogations with either Mode A transponder code or Mode C aircraft altitude.

Links to Related Documents:

Short Title:

URL:

Description:

Keywords: DEVS, Air Traffic Control (ATC), Transponder

Developer:

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