

Transitioning an Asis Application: Option1 to Ada95 2.0

Type of Submission: Experience_Report

Submitter Background: Industry

Keywords:

Language Issues
ASIS
Ada Language

Abstract:

Porting an ASIS application from a "1.0-like" ASIS implementation to a "2.0 Ada95" ASIS implementation is not a trivial task. Major abstraction changes were made to the ASIS interface when proceeding from the 1.0 to the 2.0 specification. Some of these changes were due to the introduction of Ada95 constructs while others were of a more general "architectural" nature.

In order to be able to migrate such an application, an understanding of the abstraction as represented in the 2.0 interface is critical.

This paper describes a general process for proceeding when converting from a 1.0 ASIS application to its 2.0 counterpart. Although this paper is not meant to be an "ASIS tutorial", the major abstraction changes will be discussed that been manifested in the 2.0 interface. Included will be a "function mapping table" that will layout a road map to help in the conversion process.

Finally, a discussion of the some of the more common stumbling blocks in such a migration will be discussed including areas where interpretation and implementation is left to the vendor which may result in unanticipated problems with the application.

The 1.0 implementation that will be referenced will be that as delivered by OCSystems. The 2.0 implementation that will be discussed will be that as supplied by ACT/Asis-for-GNAT.