

TITLE : Proposed TR10000-3 Taxonomy additions for SC22 POSIX based Profiles

SOURCE : ISO/IEC JTC1/SC22 (SC22 N2231 attachment #1)

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Scenario/relationship positioning of PSE variants:

The POSIX Application Environment Profiles are developed with application software portability at the source code level for specific environments as their objective. Source code portability requires specification of at least one computer language as well as the interfaces defined in the POSIX standards, so these profiles typically include computer languages, and potentially include API's (Application Program Interface) for other services beyond the operating system (communications, database access, graphics, etc.) All of these profiles include a normative reference to IS 9945-1, the POSIX System Interface API.

There are four major segments defined here: the Interactive Systems Environment, , two High Performance Application Environments and a set of Real Time Application Environments. The interactive system environment corresponds with the traditional multi-user operating system set of services, with language development in C (or Ada as an alternative).

The real time environments range from embedded real time applications (settop devices, guidance control systems, etc.) which might not have any "rotating media", with steps up to a full blown environment that includes all of the "interactive systems environment" and expands it to include most of the real time options as well.

Taxonomy identifier	Title of Work	Reference document
PSE 01-HIP	Interactive Systems Environment Profile	1003.18
PSE 10-HIP	Supercomputing Application Environment Profile	1003.10
PSE 14-HIP	Multiprocessor Application Environment Profile	1003.14
PSE 51-P	Minimal Realtime System Profile	1003.13
PSE 52-P	Realtime Controller System Profile	1003.13
PSE 53-P	Dedicated Realtime System Profile	1003.13
PSE 54-IP	Multipurpose Realtime System Profile	1003.13