

CAPE-OPEN

Delivering the power of component software
and open standard interfaces
in Computer-Aided Process Engineering

**Errata and clarifications for
Thermodynamic Standard specification 1.1**



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SUMMARY

The errata and clarifications have been discussed and developed by the CO-LaN Special Interest Group dedicated to CAPE-OPEN Thermodynamic interfaces. Only the approved interface specification document version 1.1 (update 311) is to be followed when implementing CAPE-OPEN interfaces.

1.1 Errata

1.1.1 GetPropertyPackage

For new instances of property packages, the Thermo System expects the name of a property package that is defined on the system to be passed to `GetPropertyPackage`. These names are returned by `GetPropertyPackageList`.

In case Property Packages can be persisted, the situation is somewhat more complex. The Property Package may have been created at a different computer, or the list of available property packages may have changed since the property package was first created. In this case, `GetPropertyPackage` returns an uninitialized Property Package, that keeps track of the name that was specified. In case the Property Package had been persisted, a call to `Load` will follow, and the Property Package receives its configuration data. In case `Load` is not called, the Property Package still need to receive its configuration data during `Initialize`. An invalid name passed to `GetPropertyPackage` leads to an error in `Initialize`.

So passing an invalid name to `GetPropertyPackage` may lead to an error immediately for Thermo Systems of which the Property Packages cannot be persisted, or may lead to an error during `Initialize` if the Property Package if persistence is supported but the Property Package was not loaded from persistence.

In either case, the PME has the responsibility to expose to the user any textual error message provided by the Property Package.