

## System Type: *atis* Coterminous Systems

(System type is part of the metatheory and describes configurations and properties that characterize a system of that type.)

**Coterminous systems**,  ${}_{CT}\mathfrak{S}$ , =<sub>df</sub> two or more systems that are coextensive in scope, range, time, limit, or duration.

$${}_{CT}\mathfrak{S} =_{df} \mathfrak{F} \mid \mathfrak{S}_{i=1\dots n} \in \mathfrak{F} \wedge i > 1 \wedge \exists^1 P_{\text{coextensive}} \forall \mathfrak{S}_i (P(\mathfrak{S}_i))$$

**Coterminous systems** are a family of systems; such that, there are two or more systems in the family, and there is a unique coextensive predicate that describes all systems in the family.

**Examples:** Possibly the easiest way to visualize coterminous systems is to consider the “coterminous 48 states” of the United States and the two that are not—Alaska and Hawaii. However, coterminous systems can also be such due to time; that is, all high schools within a school system are coterminous in their daily operation. Essentially, any systems that can be identified as occurring together in some respect can be considered as coterminous systems.