

Synchronization Parameter

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Discussion

A Synchronization Parameter specifies a characteristic used to govern synchronization among representations, states, events, or activities.

Synchronization Parameters establish the conditions under which corresponding information is aligned across participating entities.

Such parameters may address timing, update intervals, ordering, tolerances, timestamps, synchronization triggers, allowable lag, or other characteristics relevant to maintaining correspondence.

Within a [Twin Relationship](#), Synchronization Parameters govern the conditions used to align applicable state or behavior among participating [Twin Realizations](#).

Definition

a parameter that specifies a characteristic governing synchronization among representations, states, events, or activities

Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), virtual and physical Twin Node concepts and comparison of Twin Node behavior
- [\[DTE2\] Non-Traditional BAA Submission](#), Digital Twin concepts
- DIDO-TE normalization of the source concepts

Note

Synchronization does not require participating entities to have identical internal state or implementation.

The applicable Synchronization Parameters determine which characteristics require alignment and the conditions under which that alignment is assessed.

Example

A Twin Relationship specifies that a virtual Twin Realization updates its represented position from a real-world Data Source every 100 milliseconds with an allowable timestamp difference of 20 milliseconds.

The update interval and allowable timestamp difference are Synchronization Parameters.

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