

Degraded Communication Condition

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Discussion

Distributed-system behavior may change when communication differs adversely from its nominal or configured operating condition.

A Degraded Communication Condition represents such a condition without prescribing the mechanism that causes the degradation.

The degradation may affect one or more [Communication Characteristics](#).

The term intentionally does not assume that degradation consists of packet loss, increased latency, reduced bandwidth, jitter, disconnection, or another particular impairment. Those conditions may be modeled when explicitly required by a [Test Definition](#), [Configuration](#), or governing requirement.

Definition

a communication condition in which one or more Communication Characteristics differ adversely from their defined nominal conditions

Source

Derived from DIDO-TE source material addressing operation and testing under degraded communications conditions.

Note

A Degraded Communication Condition describes the resulting communication condition rather than the cause of the degradation.

The particular Communication Characteristics and their degraded values or constraints should be specified separately.

Example

A Test Definition may establish a nominal communication latency and then specify a Degraded Communication Condition in which the configured latency exceeds that nominal condition.

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