Category

Enterprise Transformation

Edge Computing & Real-Time Digital Operations Transformation Playbook

Processing data where it's created when milliseconds matter, instead of routing everything to the cloud first

- Practitioner
- Advanced
- Template Included

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- 3 minute(s)

Overview

A framework for edge computing transformation that identifies genuine latency-sensitive or bandwidth-constrained use cases warranting edge processing, and architects accordingly, rather than defaulting to centralized cloud processing for operations where edge computing provides a real, decision-relevant advantage.

When does edge computing genuinely matter versus just adding

architectural complexity? When latency requirements are tight enough that round-tripping to a centralized cloud would compromise the operation (real-time equipment control, for instance), or when bandwidth or connectivity constraints make centralized processing

impractical — otherwise, centralized cloud processing is usually simpler and sufficient.

Isn't edge computing primarily a manufacturing or IoT concern?

It's most common there, but any operation with genuine real-time decision requirements at a distributed location — retail point-of-sale, autonomous systems, remote facilities — can face the same latency and connectivity constraints that make edge processing valuable.

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