

SISCO GridCore™

The CIM-Based Enterprise Grid Authority Platform

Most utilities run a dozen or more systems: EMS, DMS, OMS, market platforms, asset management, and analytics. **Each keeps its own version of the grid.** The result is integration risk, duplicate model maintenance, and data that drifts out of sync.

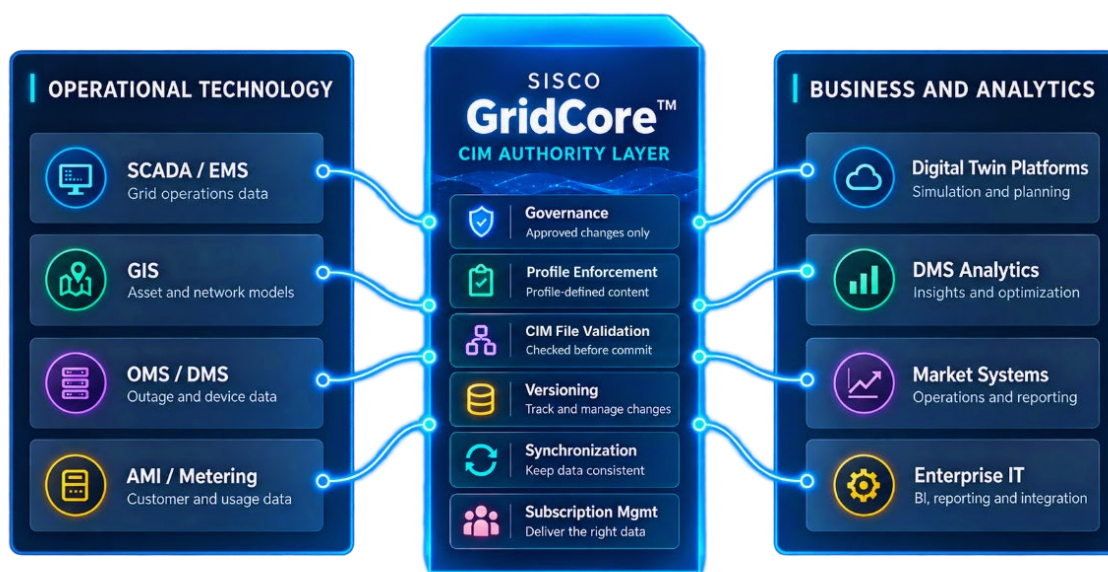
SISCO GridCore is an authority layer, not middleware. It governs the meaning of grid data, so every connected system works from one validated, CIM-based model. It is built on IEC 61970/61968 (CIM), aligned with IEC 61850 and IEC 60870-6 TASE.2 (ICCP), and secured to IEC 62351.

SISCO GridCore is designed as the foundation for **digital twin initiatives, faster system onboarding, and long-term architectural stability** without replacing what utilities already run.

The Problem It Solves

Integration Risk	Duplicate Model Maintenance	Data Divergence
Custom interfaces pile up into fragile, vendor-locked infrastructure with no single source of truth.	Each system has its own grid model. Versions drift, and drift becomes an operational hazard.	Without guardrails on naming and structure, models drift apart and quietly undermine downstream analysis.
Middleware moves data without governing its meaning. A data lake stores it without enforcing integrity across the grid topology. The missing piece is authority.		

How It Works



Key Capabilities

- **Governance.** Controls who can create, modify, or approve changes to the enterprise grid model. Only authorized changes reach the authoritative model.
- **Profile Enforcement.** Ensures every CIM Instance File and CIM Difference File conforms to the selected CIM Profile. Only the classes, attributes, and data types that the profile defines can be created, imported, exported, or synchronized.
- **CIM File Validation.** Checks structure, references, topology, semantics, and business rules in every Instance and Difference File before it is committed.
- **Versioning.** Records every model change. States are manageable and reversible, which prevents version drift across systems.
- **Synchronization.** Propagates approved changes across connected systems so every application works from the same governed grid view.
- **Subscription Management.** Delivers each application only the CIM data subset its Application Profile defines, in its own format. No data overload.

Standards Foundation

- **IEC 61970/61968 (CIM):** The semantic language SISCO GridCore governs, validates, and distributes.
- **IEC 61850:** Substation and field device data alignment, from control center to grid edge.
- **IEC 60870-6 TASE.2 (ICCP):** Control center communication alignment for real-time inter-utility data exchange.
- **IEC 62351:** Cybersecurity foundation – TLS, identity, and trust controls at the authority layer, not retrofitted.

Where It Applies

- **Digital twin foundation.** A digital twin is only as accurate as the model beneath it. SISCO GridCore supplies the governed, validated CIM base.
- **Accelerated system onboarding.** New systems subscribe to a governed Application Profile instead of a custom point-to-point interface.
- **Architectural stability.** Phased modernization on open IEC standards preserves vendor choice at every layer.

Deployment and Integration

SISCO GridCore is designed to deploy in phases alongside existing operational systems. It governs what you already run; nothing is replaced. It is vendor-neutral and built on open IEC standards, with no proprietary lock-in.

Integration targets: SCADA and control center systems, EMS, DMS, OMS, GIS, AMI and metering, asset management and work orders, analytics and historians, market and settlement platforms.

Get Started

Evaluate SISCO GridCore against your architecture. Request a demo or technical consultation with SISCO's engineering team.

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