CONNECTIVITY

LINKVERSE Digital Twin

Cross-medium communications digital twin with capacity/latency/BER/energy/availability/thermal modeling, routing, admission, N-1 resilience and risk analysis

IP-4322 · Engineering software · CLI / local API

Function and architecture

• Cross-medium communications digital twin with capacity/latency/BER/energy/availability/thermal modeling, routing, admission, N-1 resilience and risk analysis

• Separately packaged release

• No mandatory sibling-product runtime

Integration summary

LINKVERSE Digital Twin: Separately runnable cross-medium communications digital twin modeling bandwidth, latency, BER, energy, availability, thermal throttling, path selection, admission, failure exclusion, resilience and Monte-Carlo behavior. Delivered as CLI / local API. Integrate the selected version at its documented input/output boundary; retain source and configuration identity with each result. The exact callable API, dependencies and runtime environment are supplied with the controlled release; this public description is not a substitute for that release contract.

Technical record

Canonical identity	IP-4322
Responsibility	Separately runnable cross-medium communications digital twin modeling bandwidth, latency, BER, energy, availability, thermal throttling, path selection, admission, failure exclusion, resilience and Monte-Carlo behavior.
Delivery boundary	CLI / local API
Evidence scope	Engineering software
Engineering boundary	Separately runnable cross-medium communications digital twin modeling bandwidth, latency, BER, energy, availability, thermal throttling, path selection, admission, failure exclusion, resilience and Monte-Carlo behavior.
Deployment	CLI / local API; 0.9.0
Operational scope	Simulation/model product; real channel calibration, standards compliance and measured link performance are external evidence.

Delivery and release binding

- Versioned package and dependency lock
- Deployment environment and access controls
- Input/output schemas and integration examples
- Evaluation scope, support and update policy

Confirm for the selected release: Environment and dependencies, Version / build hash, API compatibility, License and support scope.

Evidence and qualification

250 randomized network topologies; 5,000 route queries; core + advanced clean-room PASS

Simulation/model product; real channel calibration, standards compliance and measured link performance are external evidence.

Canonical status: P2 / EXECUTABLE SIMULATOR PRODUCT; REAL CHANNEL CALIBRATION/COMPLIANCE/MEASURED LINK PERFORMANCE OPEN

Evaluation and licensing

Evaluation: Evaluate the named software release. Production: Team or enterprise deployment. Custom work: Workflow and API integration. Rights, pricing, support and acceptance criteria are agreed for the exact scope.

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