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Connection Protection Detection

ATOMIUS SDWAN – Brief Technical Specification

ATOMIUS SDWAN is a pure-play SD-WAN platform included in every OMNIA solution. It delivers always-on, multi-link connectivity with 0.3-second failover, a built-in stateful firewall and multi-cloud access. It can be deployed on VENA and VECTA hardware, bare-metal appliances or customer hypervisor environments.

Area	Technical specification
Platform	Pure-play SD-WAN developed by ATOMNIA for intelligent, dynamic connectivity rather than as a bolt-on feature. Delivered as standard with all OMNIA bundles and solutions, with no separate SD-WAN add-on or licence uplift.
Service levels	Available in LITE, BIZ and PRO service levels to align capabilities and commercials with site requirements and business scale.
Capacity and licensing	Up to 1 Gbps SD-WAN capacity per site. Licences are portable between sites, enabling organisations to increase or reduce connected locations without penalties.
Transport support	Uses available connectivity options simultaneously, including internet circuits, xDSL, FTTC, FTTP, MPLS, 4G, 5G, LTE, satellite and locally available access technologies.
Connection scale	The number of concurrent connections is limited only by the number of physical interfaces on the underlying hardware, such as VENA or VECTA uCPE.
Traffic steering	Packet-based dynamic traffic steering maintains application performance and helps avoid session drops during link degradation or outages.

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Failover	Automatic circuit failover in less than 0.3 seconds, preserving live sessions and maintaining real-time voice and video through seamless rerouting across available links.
Mobile and satellite access	4G, 5G and LTE can operate as a primary connection, not only as backup. Supports resilient, high-speed connectivity using Starlink and 4G simultaneously in challenging locations.
Secure overlay	Built-in stateful packet firewall on every deployment. Secure tunnels create an encrypted, IP-based overlay independent of the underlying transport.
Data assurance	Integrates with OMNIA SASE and Layers 2, 3 and 4 encryption for defence-grade data assurance when required.
Cloud connectivity	Multi-cloud ready, with seamless connectivity into multi-cloud environments. Works with ATOMIUS CLOUD and the wider OMNIA ecosystem to reach IaaS and SaaS instances and hundreds of global data-centre locations.
Cloud architecture	A single SD-WAN instance with ATOMIUS CLOUD/on-ramps can access multiple cloud providers, reducing the need to deploy separate SD-WAN instances in each cloud.
Management and policy	Integrated with OMNIA's centralised management, orchestration and policy engine for application-aware, policy-based forwarding and automation.
Deployment and support	Supports rapid installation, activation and zero-touch-style deployment. Designed, tested, installed, managed and supported 24×7×365 by ATOMNIA's specialist team.

Deployment and Commercial Flexibility

ATOMIUS SDWAN can operate as a non-disruptive hybrid overlay alongside existing MPLS or legacy networks, enabling traffic to migrate gradually as contracts expire. It is available through PAYG, Opex and Capex models, with flexible contract terms to suit different procurement strategies.

Extensibility and Use Cases

- Remote and hard-to-reach locations where 4G, satellite or local/regional access options are the only available connectivity.
- Sites requiring stable WAN connectivity to support IoT, AI, automation and robotics.
- Logistics, tracking and real-time inventory environments requiring supply-chain visibility and always-on connections.
- Organisations planning phased SD-WAN migration, hybrid WAN overlays, multi-cloud or SASE architectures.