

Connectivity

Reliable connectivity
across offices, data
centers, and cloud
environments.

abacusgroup.io



Solution Brief

Connectivity

Connectivity is the **Abacus platform** designed to connect corporate offices, users, data centers, and cloud environments through high-performance network infrastructures.

The solution integrates IP backbone networks, fiber and wireless connectivity, and multi-site architectures to support distributed IT infrastructures and digital platforms requiring stable and reliable performance.

Infrastructure Challenge

Organizations must ensure continuous connectivity between offices, applications, and digital platforms.

The growth of cloud workloads and distributed applications requires network infrastructures designed for complex digital environments.

The Abacus Platform

The Abacus platform integrates access infrastructures and network backbone architectures designed to support multi-site environments.

Core Components:

- Fiber and wireless connectivity
- MPLS and private networks
- High-performance IP backbone
- Internet Exchange interconnections

Core Capabilities

- High-performance multi-site connectivity
- Integration between corporate offices, data centers, and cloud environments
- Scalable network architectures for distributed environments
- Direct access to Internet Exchange infrastructures
- Design and implementation of private networks and IP backbone infrastructures

Service Model

Abacus supports organizations in the design and implementation of connectivity infrastructures through a structured service model.

Key activities include:

- Connectivity requirements analysis and network architecture design
- Deployment of connectivity between corporate locations
- Integration with data centers and cloud environments
- Network infrastructure management and technical support

Business Impact

- More stable application performance
- Reliable connectivity across offices and digital platforms
- Greater scalability of network infrastructures
- Simplified integration with cloud and data center environments



Case Study

Customer Context

An enterprise retail organization with distributed offices required reliable connectivity between branches, central systems, and cloud platforms.

The Challenge

The existing network infrastructure was not designed to support increasing data traffic and integration with cloud services.

The Solution

Implementation of a multi-site connectivity architecture based on the **Abacus network**.

Results

Configuration and activation of the architecture, including integration between offices, data centers, and cloud environments, with performance validation before production rollout.

- Improved application performance
- Greater network reliability
- Scalable connectivity between offices and cloud platforms

Industry

Enterprise – Retail





Architecture

Architecture Overview

The Connectivity platform connects offices, users, and digital platforms through a distributed network infrastructure designed for multi-site environments.

Core Layers

Access Layer

Connection of offices and devices.

Edge Connectivity Layer

Access to the **Abacus network**.

Core Network Layer

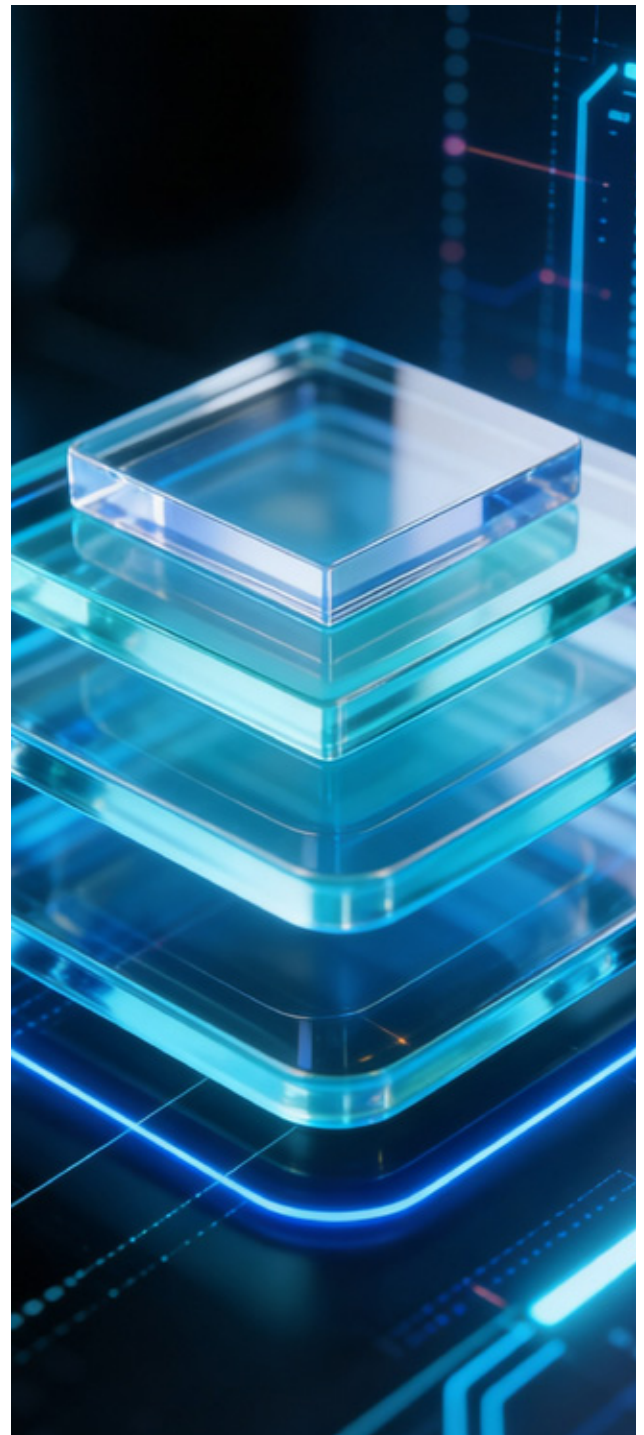
High-performance IP backbone.

Internet Exchange Layer

Interconnection with providers and digital platforms.

Core Components

- Asset Discovery
- Vulnerability Scanning
- Policy Review
- Compliance Mapping
- Risk Prioritization



One Abacus. Many Minds. One Vision.

Contact Abacus to evaluate the connectivity architecture best suited to your organization and support the evolution of your digital infrastructures.

The service will be delivered by one of the Group's Legal Entities.



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