Case Study

Site Connectivity:

How a manufacturing company connected two plants with 100% fail-safe redundancy using the Platinum solution

Challenge: Two separate plants without redundancy, high risk due to centralized cloud systems and shift operations

SAVECALL Service: “Platinum” redundancy solution with path-disjoint connection, VRRP failover, and scalable architecture

Result: 100% availability, centralized management, secure cloud connectivity at both locations

Digital transformation across hundreds of locations

Two plants, one goal: maximum reliability.

When core applications, production, and logistics rely on cloud services, site connectivity becomes a business-critical factor.
A manufacturing company with two plants was looking for a solution that combined uninterrupted availability, technical redundancy, and centralized control—without compromising on security or scalability.
The challenge was to network two independent sites in such a way that together they could enable stable, future-proof digital operations
—even in the event of transmission line failures or network node disruptions.

The focus was on:

- Cross-site reliability without single points of failure
- Uniform architecture for centralized IT management
- Flexible scalability for future expansions

The Challenge

A manufacturing company with two German plant locations operates its central ERP and MES system landscape entirely in the cloud. Both plants operate on a shift basis—even brief interruptions in the internet connection immediately lead to production downtime, delivery delays, and financial losses.

The previous connectivity was simply structured: each site had a single internet connection without redundancy. This architecture was no longer viable for a modern production environment.

Company objectives:

- Full redundancy of the lines and network connection per location
- No single points of failure—even in the backbone
- Unified architecture for centralized management
- Optional scalability to additional plants or headquarters

The Solution: “Platin” Redundancy Solution at Both Locations

Savecall planned and implemented a fully redundant architecture based on the proven Platin solution—implemented identically at both plants. Thanks to failover via VRRP and the path-disjoint connection, the connection is maintained without interruption even in the event of a line failure or backbone
, the connection is maintained without interruption.

Technical implementation per location:

- Two physically separate routes (e.g., north and south feeds)
- Two building sides with separate building connections
- Two remote devices (A & B) with local redundancy
- Two network nodes (BNG A & B) for node-disconnected connectivity
- Automatic failover via VRRP on the LAN
- Monitoring solution with alerts for path failures
- Optional integration of a central uplink cluster (e.g., HQ/cloud gateway) for all locations

Both sites were configured identically to enable centralized and uniform control and maintenance.

Results and Benefits

- Redundancy per location: No downtime in the event of trunk or backbone failures
- Automatic failover: 100% availability without manual intervention
- Uniform architecture: Centralized management, reduced effort, clear operational processes
- Scalability: Additional locations can be easily integrated

The attached architectural visualization illustrates the dual-path routing as well as the solution’s scalability up to 64 connection points.

With the Platinum redundancy solution, a highly available Internet connection was implemented at both locations.

The implementation ensures the continuous availability of all business-critical cloud systems, enables centralized contract and infrastructure management, and lays the foundation for future-proof IT networking in the production environment.

Critical systems, reliably connected

Redundant connections, automatic failover, and centrally managed infrastructure ensure access to all cloud systems
– at any time, at any location. No downtime, no compromises.

Case Study

Case in brief

Challenge: Decentralized IT infrastructure, high complexity, no centralized control across all locations

SAVECALL Service: SD-WAN networking, centralized network management, AI-enabled infrastructure

Result: +40% network availability, –25% IT overhead, digital & scalable for new services & automation.

Inquiries

CALL

About SAVECALL

SAVECALL is your independent consultant for telecommunications and network solutions. For 25 years, we have been optimizing infrastructures—scalable, efficient, and future-proof.

mySavecall provides a complete overview of contracts, invoices, and tickets—worldwide.

Trusted Sourcing Advisor. Sourcing that inspires.