

## Case Study

**Challenge:** No second route available, but high availability requirements in digitized production

**SAVECALL Service:** Primary connection via fiber optics + LTE backup with automatic failover via business router

**Result:** Production reliability even in the event of a line failure, automatic fallback, no construction costs

# LTE backup instead of a second line



How a production site used Savecall to implement a fail-safe internet connection without any construction work

## Reliability without civil engineering

*How a manufacturing site maximized its maximized its internet availability*

In a digitalized production environment, a stable internet connection is business-critical—but not every location allows for the traditional approach of installing a second fiber-optic line.

A medium-sized company found a clever solution with Savecall: a professionally integrated LTE backup that automatically takes over in the event of disruptions—without any construction work.

Why many locations without route redundancy face a problem:

- Civil engineering work for a second line is often impossible or uneconomical
- Single failures immediately lead to operational downtime
- IT departments rely on fast, automated failover processes
- Mobile networks are available—but rarely professionally integrated
- Availability is a concern in many pro-

production processes were mistakenly taken for granted

- Redundancy is often put on hold due to budget constraints—until the first failure occurs

## The challenge

A medium-sized manufacturing company with a single location and approximately 150 employees operates a digitized production environment featuring cloud-based ERP, IoT-enabled manufacturing, and networked logistics processes.

The entire operation depends on a stable, always-available internet connection—even brief outages can halt processes and cost time and money. However, the location itself—in an inner-city setting—did not allow for the installation of a second physical landline. Structural limitations, the effort required to obtain permits, and high costs prevented traditional line redundancy.

A simple alternative, such as a second connection via the same cable route, was out of the question from the IT department's perspective

- risk of a single point of failure.

The goal: A fail-safe, immediately available solution—without construction work and with as little effort.

LTE backup for maximum availability. Without a second line

## The solution: Fiber optics + LTE backup with automatic failover

Savecall developed a redundancy concept based on a fixed fiber-optic connection – supplemented by an intelligent LTE backup. The entire architecture was implemented via a business router with and configured to automatically switch to the mobile network in the event of disruptions:

### Technical implementation:

- Primary connection via fiber optic, connected to a central network node (BNG)
- Business router with dual-WAN (e.g., Cisco, Lancom)
- LTE module as an independent backup line with separate routing
- Automatic failover via VRRP or the router's own logic
- VPN tunnel remains active, even during LTE fallback
- Monitoring & alerts during switchover, active fallback, and failure

## Advantages of the LTE solution:

Advantage	Description
Available immediately	No waiting time, no construction work – ready for immediate use
Network-independent	LTE uses a completely separate network – no dependence on the landline network
Automatic failover	Switching occurs automatically via the router—without any manual intervention
Cost-effective	The LTE connection is only active in the event of a failure – low ongoing costs

## Results and benefits

- Production reliability: In the event of fiber-optic outages, LTE automatically takes over
- Availability guarantee: No more downtime due to local network issues
- Cost control: LTE only generates data traffic in the event of a failure
- Future-proof: Easily expandable as the site grows

The LTE backup solution has proven itself as a cost-effective and reliable alternative to traditional route redundancy—especially at locations where construction measures are not possible or not economically viable.

## Redundancy reimagined

Automatic LTE failover, independent infrastructure, and minimal effort ensure availability—without the need for a second Management

# About SAVECALL

SAVECALL Telecommunication Consulting GmbH is your independent consultant for modern telecommunications and network solutions. For over 25 years, we have been helping companies set up their infrastructure to be future-proof, scalable, and cost-optimized. Our customers benefit from in-depth market knowledge, a direct line to over 80 leading providers, and customized solutions from a single source.

With our mySavecall portal, you can keep track of your contracts, invoices, statuses, and tickets—anytime, anywhere in the world.

Trusted Sourcing Advisor. Sourcing that inspires.

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Would you like to achieve similar results?  
Let's optimize your telecommunications together.

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