

Mission-Critical Communications Solution



SATEL*xprs*



” SATEL XPRS

is the data communications solution for mission and business-critical systems. It offers the most reliable long-range data connectivity and the highest availability for mission-critical applications under all circumstances.

Heikki Keränen

SATEL Solution Manager

..... Challenges

How to match all the mission-critical requirements?

When you have a mission-critical system, you need a mission-critical connectivity solution. You need to be able to access your system with high availability, long-range and cyber security. You know how much it costs for your application, when the connectivity is lost. Every second counts. You simply can't afford your system to be down. Mission-critical characteristics are emphasized even more during a major event, such as electricity blackout.

Does your mission-critical communications rely solely on one communications technology? Will your communications be available during major events caused by storms or something similar? Are you sure your system is well protected and cyber secure? How quickly are you able to detect, locate and fix the failures in the network?

How to combine the best features of various technologies?

The evolution of machine-to-machine communications, including mission-critical connectivity, is constantly requiring more and more throughput, or speed. Often the highest speed requirements are for less critical components, like video. The challenge is to combine speed and reliability requirements, and this often calls for combining different technologies such as cellular and radio modem technologies efficiently.

How can you make sure that the co-operation of adjacent technologies is seamless and the switchover to surviving path is done automatically, when one communications channel becomes unavailable?

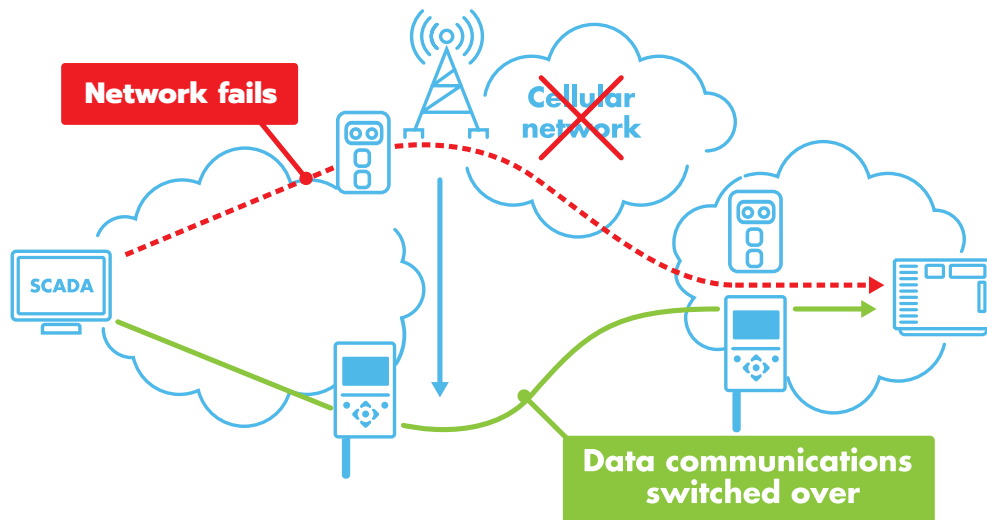
How to carry out network modernization in a smart way?

Automation systems are currently being modernized in a big extent. Smart modernization adds up to significant savings, when the lifetime of the legacy components is extended and the modernization process is executed one step at a time.

How to extend the lifetime of the legacy serial components, while the new modern IP technologies are introduced to the system?

The Solution: SATEL XPRS

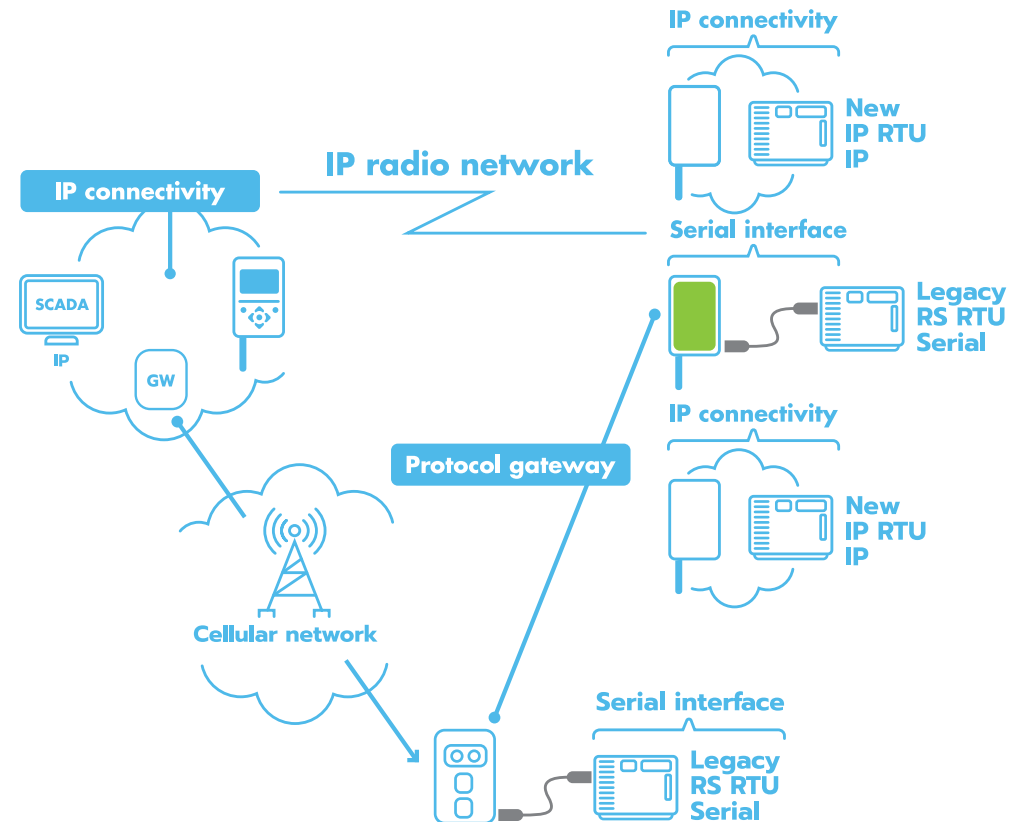
High availability by redundancy of adjacent technologies



The SATEL XPRS features **co-operation of adjacent technologies** with integrated redundancy and routing protocols. You can also benefit from it in a **step-by-step modernization process** by combining the IP solution to the existing legacy serial components with integrated protocol gateway functionality.

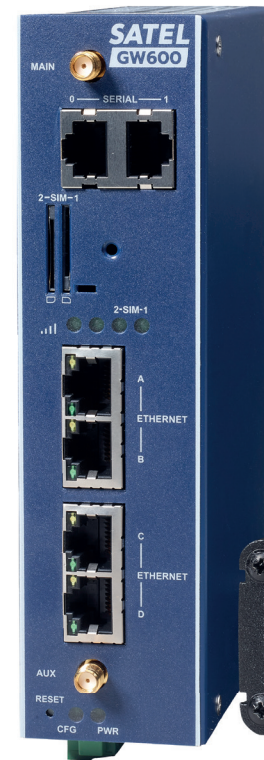
The SATEL XPRS communications solution provides **the most reliable data connectivity** and **the highest availability for mission-critical applications under all circumstances**. The SATEL XPRS can be built in any location where mission-critical connectivity is required, even when there is no public network availability at all. With back-up power, it also works in total electricity blackout scenarios. With the SATEL XPRS you can have the total control in your own hands with availability up to 100%.

Savings by combining IP and legacy serial



At the core of the SATEL XPRS solution is the smart IP radio router for secure private networking: SATELLAR XT 5RC.

IP RADIO ROUTER



SATEL-GW600
2G/3G/LTE router

SATEL-GW120
2G/3G/LTE router with WiFi



SATEL-GW family of cellular routers complete the SATEL XPRS solution by providing easy deployment, secure connectivity and robust operation over 2G/3G or LTE.

CELLULAR ROUTERS

Why to choose the SATEL XPRS?



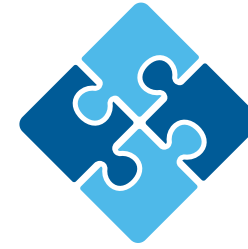
SATEL RADIO NETWORK

- Predictable costs and significant savings in operational expenditures.
- For example 60% TCO savings in 10 years in comparison to satellite subscription
- Savings by minimum maintenance requirements
- You do not need data plans
- Static performance, easy dimensioning
- Built-in security



COMBINED LEGACY SERIAL AND IP

- Protect the previous investment by prolonging the lifetime of legacy system components while extending the network with new modern components
- Reduce cost and possible points of failure by avoiding investments in additional devices
- The whole system can be run with one IP-based protocol: reduces costs in control center infrastructure and licensing.



CO-OPERATION OF ADJACENT TECHNOLOGIES

- Adds reliability, predictability and security to your connectivity
- Fulfills the varying mission-critical requirements: investment profile, performance and availability
- Easy integration of multiple technologies



USER-FRIENDLY CONFIGURATION TOOL

- Error-free network deployment
- Easy and centralized configuration
- Up to 80% savings by reduced deployment time
- Avoid human configuration errors, that may skyrocket the deployment costs



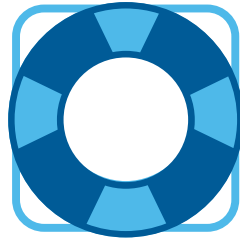
UTMOST SECURITY

- Ensure data integrity
- Ensure data confidentiality
- Avoid downtimes and excess work caused by malicious access
- Avoid loss of revenue



HIGH AVAILABILITY

- Significant cost savings by avoiding downtime
- Rule out loss of service leading to loss of revenue
- Rule out delays in fault localization, isolation and restoration
- Rule out possible penalties or fines
- Savings in workforce costs



PROFESSIONAL SERVICES AND SUPPORT

- SATEL Network Design Center helps you in creating a professional network design with optimized radio and antenna parameters and guaranteed connectivity
- Carefree connectivity ownership: install-and-forget
- SATEL professional support provided by collaborative engineering: fast reaction times, minimized system disturbance, minimized need for workforce
- Savings by avoiding the need to use 3rd party radio planning or technical support services
- Wide distribution network that serves in local languages



Visit also:
satel.com/xprs

Visit: www.satel.com

SATEL is one of the world's leading experts and innovators of radio modems for wireless data communications. Our solutions are used in wide range of industrial applications. We are known for our high quality, expertise, service and support.

Contact us

You can contact us directly or get in touch with your local distributor.

SATEL, Meriniitynkatu 17 P.O.Box 142,
FI-24101 Salo, FINLAND
Tel. +358 2 777 7800 | Fax +358 2 777 7810
info@satel.com

SATEL

Mission-Critical Connectivity