



Mission-Critical Communications Solution

SATEL*xprs*



” SATEL XPRS

is based on private radio networking technology. 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 on public networks and availability of electricity? Will your mission-critical communications be available during these major events caused by storms or something similar? Are you sure your system is well protected and cyber secure?

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 with 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.

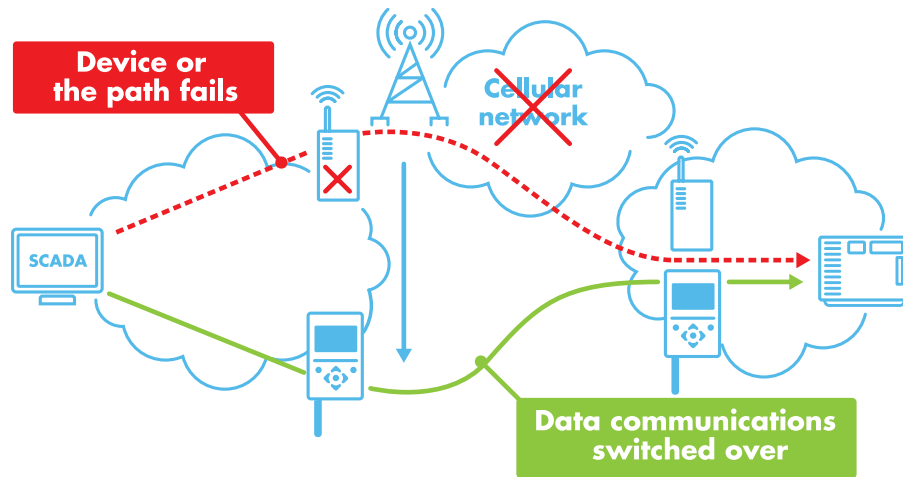
How to ensure the operation of the legacy serial components, while the new modern IP technologies are introduced?



The Solution: SATEL XPRS

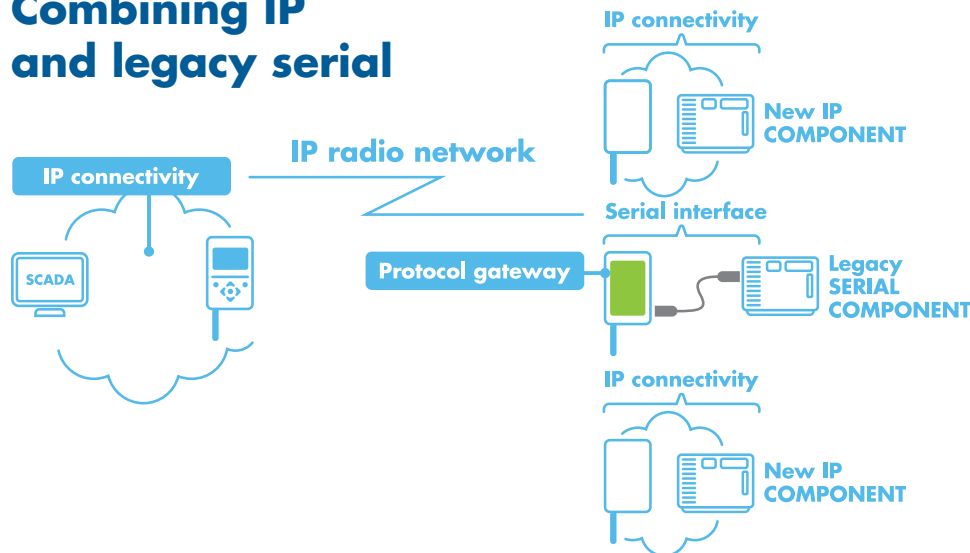
The SATEL XPRS communications solution provides **the most reliable long-range data connectivity** and **the highest availability for mission-critical applications under all circumstances**. The SATEL XPRS can be built in any location where long-range mission-critical connectivity is required, even when 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 create **your own private network**, and have the total control in your own hands with availability up to 100%.

Redundancy with cellular technologies



You can also use it **in co-operation with adjacent technologies** with integrated redundancy and routing protocols or 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.

Combining IP and legacy serial

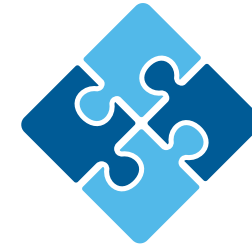


At the core of the SATEL XPRS solution is the smart IP radio router for secure private networking: SATELLAR XT 5RC.

IP RADIO ROUTER



Why to choose the SATEL XPRS?



CO-OPERATION WITH ADJACENT TECHNOLOGIES

- Adds reliability, predictability and security to your connectivity
- Fulfills the mission-critical requirements
- Easy integration of multiple technologies



PRIVATE 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.



USER-FRIENDLY CONFIGURATION TOOL: SATEL NETCO

- 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



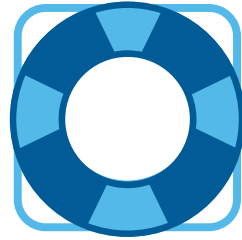
UTMOST SECURITY

- 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



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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

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SATEL

Mission-Critical Connectivity