



Eco-friendly radio communication: green and clean

Five ways your TETRA system is designed for the environment

The TETRA system from Cassidian is designed to help secure people's safety. One way to achieve this is to design for a safer environment.

Ecodesign is an approach that considers the product's effect on the environment at each stage of its life cycle:

- **Materials.** This includes conserving scarce resources and using low-impact materials.
- **Manufacturing.** Design for cleaner production.
- **Distribution.** Design for efficient delivery.
- **Use.** Design for service and repair. This includes energy efficiency, conserving water, minimal consumption, low-impact use and durability.
- **End of life.** Design for re-use, disassembly, recycling and safe disposal.

Here are five ways Cassidian uses ecodesign to improve the TETRA system:

1. RoHS-compliant TETRA equipment

Electronic products are notorious for containing harmful substances. But not the DXT3™ one-cabinet switch from Cassidian:

- **DXT3 complies with the RoHS**, the European Union's Restriction of Hazardous Substances Directive. The directive restricts in electrical and electronic equipment the use of such hazardous substances as:
 - Lead
 - Mercury
 - Cadmium
 - Hexavalent chromium
 - Flame retardants
- **DXT3 packs more performance into a much smaller frame.** This saves floor space, cooling and energy consumption.

2. Software upgrades

Software upgrades are easier on the ecosystem than hardware upgrades. Cassidian has developed TETRA high-speed data as a software feature, upgradeable over a remote connection to TB3 series base stations.

Plus: Software upgrades are easier on the wallet, too.

3. Energy-efficient radio terminals

TETRA radios from Cassidian are energy efficient. When operated in a Cassidian network, they can assume a special operating mode that prolongs battery life. With this feature, the terminal checks at prescribed intervals to see whether the system has something to send. If it doesn't, the terminal "sleeps," saving power.

4. Maximum coverage with minimal base stations

The TB3 series TETRA base stations from Cassidian are extremely sensitive. That means you can achieve maximum network coverage with fewer base stations. And that saves transmission, energy consumption and building masts.

5. Mobile workforce support

Mobile technology like TETRA's integrated voice and data system means that people can do their jobs without visiting an office. As workers fill out intelligent, electronic forms in the field, organizations save paper, reduce transportation resources and get the job done more efficiently.

That's good for business as well as good for the environment.

Embracing ecodesign

Call it a convenient truth: From RoHS-compliant TETRA equipment to TETRA system ecodesign, Cassidian brings eco-friendly radio communication to your organisation.

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