DSiP software

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DSiP - Distributed Systems intercommunication Protocol ®

Secure and Continuous Connectivity

DSiP is used in many applications:

- VPN Secure IP-traffic
- IoT applications
- Power Grid
- Smart Grid
- SCADA applications
- Public Safety
- Vehicle applications
- Industrial applications
- Mobile applications
- Many more

DSiP supports:

- Multichannel IP-traffic
- Multichannel VPN
- Link Aggregation
- Mobile Devices
- 5G, 4G, 3G modems
- Mobile data
- Secure WLAN
- LAN and WAN
- Satellite
- TETRA
- Serial Communication
- VHF/HF-radio
- Secure tunneling of DNP3, IEC 60870-5-101/104, MODBUS, NMEA, IP-traffic etc.

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The advanced DSiP solution ensures safe, secure and always available communication

"The best and most secure communications solution - the Diamond"

DSiP equals secure and continuous communication

DSiP uses several physical communication channels in parallel. Applications, equipment and software believe they communicate over a single continuously working data channel. Mobile Data, LAN and Satellite for example, can be used as communication channels simultaneously and in parallel. There's no need to modify applications or equipment using DSiP - it's fully transparent. DSiP is suitable for a vast range of applications. Secure multichannel IP-traffic, Power Grid Control, SCADA and Public Safety communication are only a few examples. DSiP reduces Cyber Warfare threats in a unique way not found in any other solution. Its mesh-structure has no single-point of failure. DSiP incorporates a multitude of industry standard RFC's:

- VPN Virtual Private Network
- MobileIP Dynamic IP address resolving
- MPTCP Multipath TCP connectivity
- OSPF Open Shortest Path First routing
- MPLS Multiprotocol Label Switching
- QoS Quality-of-Service & Priority ctrl
- OTA / FOTA Over the Air updates
- M2M Machine to Machine comm.
- Session Control and Common Information Sharing Environment architecture
- No single point of failure in the solution

The DSiP Traffic Engineering solution brings several benefits:

- Better Data Security, Integrity & Priority
- Continuous communication and uptime
- Handles DDoS and MITM (Man-in-the-Middle) network attacks
- Transparent solution for applications
- Single maintainable system solution
- Load balancing and link aggregation for increased speed
- Authenticated connections
- Reporting, alarming and monitoring
- Network Congestion Control
- Strong encryption, TLS1.3, peer-to-peer verification & Diffie-Hellman keyexchanges

DSiP is a patented versatile software solution ranging from microcontrollers to mainframes. The very small footprint solution is modular and scalable from sensor networks to enterprise level routing solutions, including mobile devices, pads and laptops.

