



TEMPEST

Network Support and Lifecycle Solutions

DASpedia



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Agenda

- Introduction to Tempest
- Common Challenges with Legacy DAS
- Support Solutions
- Case Study



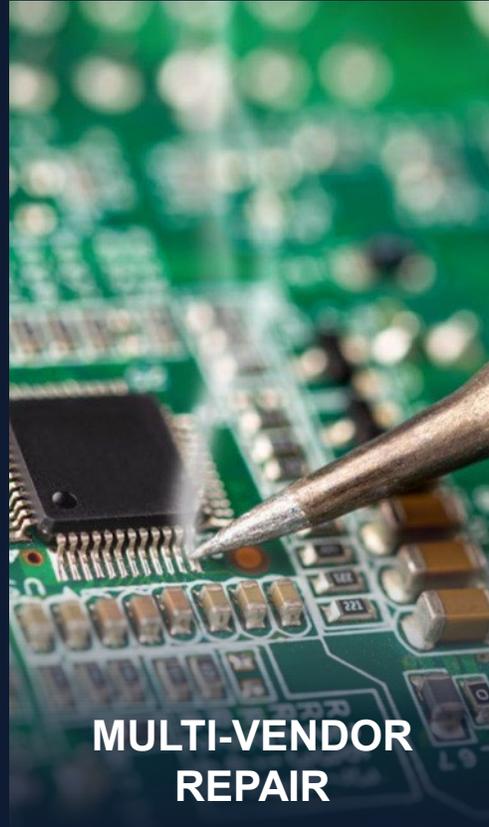
A Suite of Network Support & Solutions



**NETWORK
EQUIPMENT**



**ASSET
MANAGEMENT &
LOGISTICS**



**MULTI-VENDOR
REPAIR**



**REMOTE TECHNICAL
SERVICES**



**NETWORK TEST
& VISIBILITY**

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Customer Challenges

1. Discontinued
Equipment no
longer supported
by OEMs

2. Reverse/Reuse
Reliability

3. DAS
Integrations

Challenge #1

Managing End of Life/Legacy DAS

- High cost of upgrading systems
- Discontinued DAS equipment not supported by the OEMs
- Lack of repair and test solutions



Tempest Solution

Muti-Vendor Network Equipment Repair and Supply

- Certified supplier of reused and refurbished equipment
- Comprehensive testing and certification processes for all reused and refurbished equipment, ensuring compatibility and performance standards
- 1 year warranty on all reused and refurbished products (extended warranty programs available)

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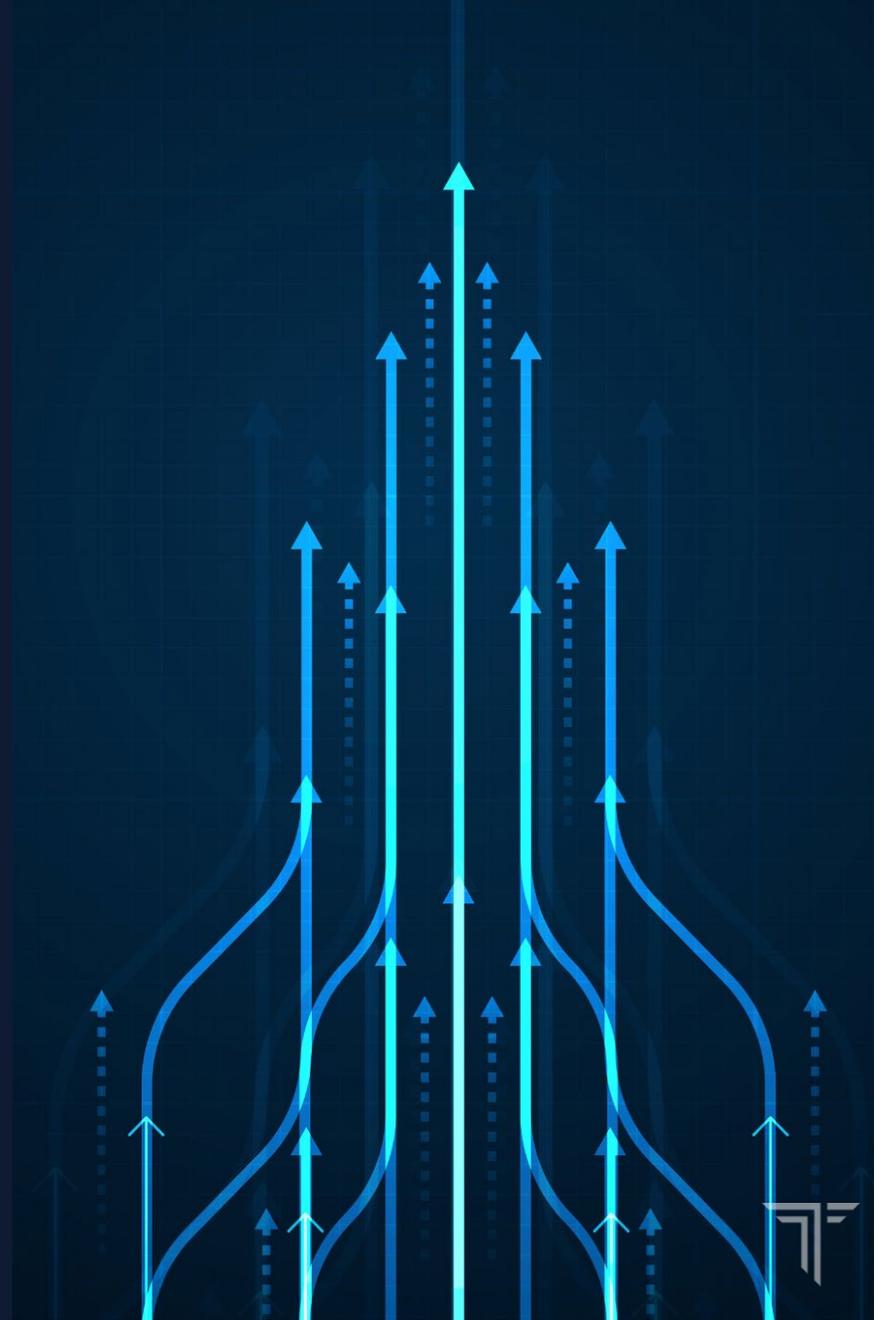
CORNING



Challenge #2

Reverse/Spares Management

- Spare parts are costly, difficult to source and repair
- Managing surplus or decommissioned gear across the network
- Lack of visibility of spares for re-use
- Ensuring reused/refurbished equipment is compatible with existing systems



Tempest Solution

Spare Parts Management Services

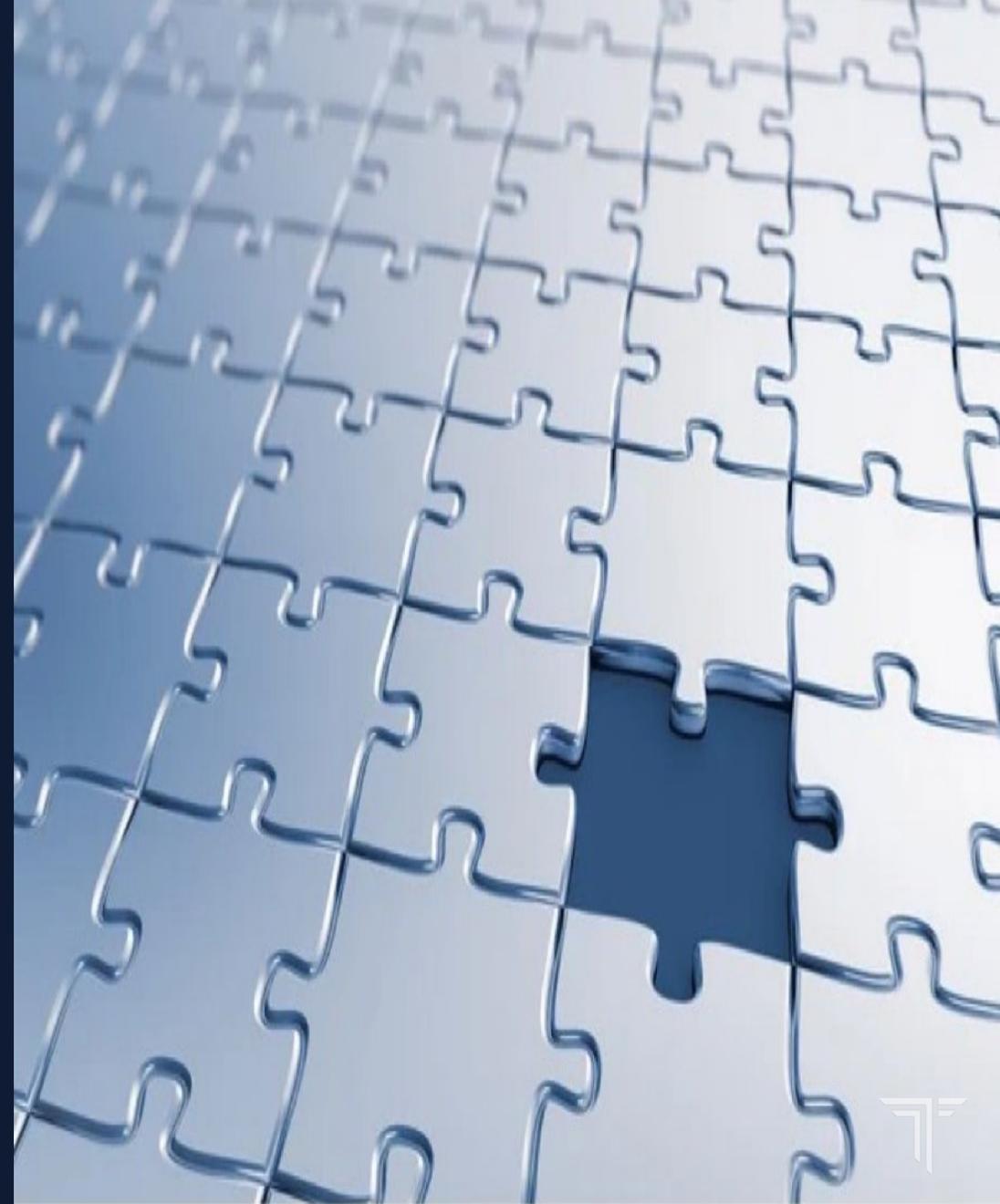
- Available repaired, tested spares
- Support collection of decommissioned assets
- Online portal for order, and inventory visibility
- Forecast planning and complete stocking and inventory strategy



Challenge #3

4G/5G Integration into legacy DAS Network Equipment (Case Study)

- Aging DAS systems and natural shifts in staff overtime, leads to information gaps of the site
- Difficulty comprehending key technical elements such as:
 - Installed OEM technology
 - Design specs
 - Power levels
 - DAS input capabilities
 - Specific DAS features
 - Areas for network upgrade



Tempest Solution

Case Study

Remote Technical Services

- Consultative approach with a cross-functional team to provide remote technical and repair services
- Performed a baseline assessment of the network equipment to ensure the power levels were within spec for the existing DAS, and verified the OEM configurations
- Commissioned the integration for the 4G network solution while having the unique ability to also install and repair DAS, guided network traffic, and prepared site for 5G integrations



4G/5G Integration Case Study Results

- The integration allowed the carrier to avoid failed calls, slow data speeds, and potential compatibility problems with 4G and 5G frequency bandwidth and bands
- Conducting the baseline assessment allowed Tempest address potential issues at the outset, and the Tier 1 carrier had a smooth transition to deliver substantial improvements to both network performance and user experience
- The carrier was able to overcome challenges related to DAS systems and the intricate interoperability issues between DAS and 4G and 5G networks



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Minutes away from here

Thank you