

## TRW

NORDX/CDT and its certified system vendor, COMPEL Corporation, have "teamed for success" by designing, assembling and installing a high performance solution for TRW's network cabling system.



### *NORDX/CDT*

*Provides a Network Cabling Solution to TRW*

Since 1984, TRW Space and Electronics, located in Redondo Beach, California, has relied on an early version of a NORDX/CDT IBDN BIX Cross-Connect system (with Category 3 cable) to provide them with a highly functional and secure network infrastructure. But TRW needed to expand their facilities and significantly increase their network performance, and felt it could greatly benefit from a complete revamp of their communications (voice & data) system. For the upgrade, TRW called on COMPEL Corporation, of Santa Fe Springs, California, to provide design and installation expertise. NORDX/CDT was the supplier of choice for the cabling system. Both NORDX/CDT and COMPEL are TRW suppliers that provide innovative solutions and products to meet future network demands.

### *About TRW*

TRW, a Fortune 500 company, provides advanced technology systems and services to customers in 35 countries and more than 250 locations around the world. TRW designs and manufactures products for the automotive, aerospace and information technology markets. It has a workforce of well over 100,000 and sales of over \$17 billion.

Space & Electronics, an operating unit of TRW, develops and manufactures communications, scientific products, and spacecrafts for military, civil and commercial customers. TRW provides key components for communications, surveillance, remote sensing and space science missions.

# IBDN *Success Stories*

*NORDX/CDT provided  
the perfect high performance struc-  
tured cabling solution.*

## *High Tech Solution*

TRW Space and Electronics needed a high performing network to meet the demands of its growth environment and chose NORDX/CDT's IBDN System. The NORDX/COMPEL team installed the IBDN System 1200 and a GigaBIX Cross-Connect system. This end-to-end structured cabling system easily provides a bandwidth of 160 MHz (1.2Gbps) and exceeds all other Category 5e standards solutions. The enhanced cabling technology will support future ultra-high-speed multi-gigabit protocols. The high data throughput and stronger signal power will enhance TRW's communications capabilities.

## *TRW's Selection Process*

TRW Space & Electronics occupies a campus complex with office structures, laboratories, and manufacturing and spacecraft assembly buildings. It was clear that incremental improvements would not bring the desired results. COMPEL/NORDX/CDT's Category 5e system was chosen.

The decision process included two key considerations. The first was to select a system that provides support for Gigabit Ethernet and works with emerging technologies. The IBDN System 1200 provides Category 5e standards, a must for all new data cabling installations, and supports emerging requirements for "gigabit" data rates. The other consideration was the system's price to performance ratio. This is an extensive project, and the new system had to stay within budgetary guidelines.

*High  
Tech  
performance*



# IBDN *Success Stories*

## *The Solution*

A detailed action plan was put into place. The existing buildings would be retrofitted to Category 5e standards using IBDN 1213 cabling. The new buildings would be equipped with the new GigaBIX Cross-Connect components, installed to support the IBDN 1200 system. This newly launched and complete end-to-end structured cabling system exceeds today's standards, and provides TRW with the freedom to add, reconfigure and upgrade its network on demand.

COMPEL Corporation, a cabling system provider with over 20 years of experience, has a long history of accomplishments. It successfully implemented more than 2,500 data center installations and many thousands of communications projects, and is staffed with the largest number of BICSI certified RCDD's, COMPEL is well positioned to deliver excellent cabling solutions.



*...the freedom  
to add, reconfigure and upgrade  
its network on demand.*

# IBDN *Success Stories*



## *The Installation*

The plan to supply 800 to 3500 drops of IBDN 1213 cable into each existing building will provide Space and Electronics' new network with sufficient headroom capacity for years of high performance. In all buildings, NORDX/CDT will install the recently announced NORDX/CDT GigaBIX Cross-Connect system. This high performance, state-of-the-art product was selected because the mount for the GigaBIX Cross-Connect system is much deeper, providing additional space between the seated connector and the rear of the mount, allowing a much easier, much more efficient installation process.

The GigaBIX Cross-Connect Wires used for the data systems allow TRW Space and Electronics to benefit from the many features the cross-connect wires provide in a network infrastructure. Used in conjunction with the 1213 cable, the GigaBIX Cross-Connect Wire is by far the most cost-effective configuration available for data. The jumper wire allowed the company to save on the cost of materials and have more terminations per square foot in the telecommunications room. In fact, it will allow TRW the ability to terminate 60 ports per square foot (1 pair per 1.1 square inch) on the GigaBIX connector.

The use of these advanced cabling products also provides a cleaner installation. The deeper mounts allow the cables to pass neatly behind the connectors. Furthermore, the cross connect wires can be cut to length, eliminating the need for slack management.

With the installation scheduled to be completed in 2004, Space & Electronics can begin to benefit from NORDX/CDT's complete end-to-end structured cabling system.

## *Additional benefits*

*include:* **Ultra-Reliability**

All components are manufactured and tested by NORDX/CDT. They are produced under the most stringent standards and surpass industry benchmarks. Users are assured of a range of components that function together in a complete system environment.

## **IBDN's Solid Performance Guarantee**

The total cabling project is solidly backed by an extensive guarantee.

# IBDN *Success Stories*

## 25-year product warranty

The 25-year product warranty and lifetime application assurance guarantee that the new system will support present and future applications for which it was originally designed, eliminate any potential future costs for component replacement and ensure sustained peak performance.



**Organization**  
TRW

**Location**  
Redondo Beach, California

**Vertical Market**  
Aerospace & Information Technologies

**Number of Sites/Buildings**  
1

**Cabling Systems**  
IBDN System 1200  
GigaBIX Cross-Connect System

For more information about  
NORDX/CDT Structured Cabling Systems  
visit us on the web at [www.nordx.com](http://www.nordx.com) or  
contact the NORDX/CDT office in your area.