



▶ WIRELESS NETWORK
COVERAGE
OF PRODUCTION
AND STORAGE
FACILITIES

DEPLOYED SOLUTION:
DELL

Kateřina, marketing, DNS

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Distributor Profile

DNS a.s.
www.dns.cz

Focus: ICT

During its many years on the Czech market, DNS has evolved to become a highly successful, confident and financially stable value added distributor.

At DNS we focus on superior customer services and individual approach to every project. Our services cover the entire lifecycle of IT projects from planning to execution. We will help you to take your project from design through pre-sales support to its final deployment. You can also rely on our expertise in after-sales support, financing, marketing and education services.

CUSTOMER PROFILE

CIE UNITOOLS PRESS, a.s.
www.cieautomotive.cz

Hranická 328, 757 01 Valašské Meziříčí
www.cieautomotive.cz

Focus: Automotive

CIE UNITOOLS PRESS, a.s. is a group that specializes in high value-added process control. A supplier of components and sub-assemblies for the global automotive industry, it works with complementary technologies and a range of various related processes. CIE Automotive Group was founded in 2002 by the merger of Egaña Group and Aforasa. Since then, CIE Automotive has grown to become a concern with global presence.



PARTNER PROFILE

HCV group a.s.
www.hcvit.cz

Focus: ICT

HCV group a.s. is a Czech privately held company that has been delivering information technology products, services and solutions since 1992. Through systematic long-term expertise development and careful observation of customer needs it has built stable customer and supplier partnerships with a number of major companies. With its four branch offices, HCV group a.s. covers the territory of the Czech Republic and Slovak Republic. Its creed is to fulfill the expectations of its clients with highly professional services.



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INITIAL SITUATION

CIE UNITOOLS PRESS, a.s. previously had no wireless network coverage in its material delivery, production, storage and dispatch areas. The customer required the implementation of handheld terminals with barcode reader to facilitate data transfers into SAP.

The design of the new wireless network must have taken into account the layout of the machines, the changing layout of storage racks as well as poorly radio-permeable fire walls.

At the same time it was necessary to consider the clients that would connect to the wireless network. These include handheld and mobile barcode scanners on forklifts.

Furthermore, the customer requested a dedicated wireless network for its service organizations and a comprehensive security of wireless data transfers.

MAIN DRAWBACKS OF THE ORIGINAL SOLUTION

- Process inefficiencies
- Multiple modes of manual data entry
- Error-prone manual data entry

EXPECTED BENEFITS

- Improved efficiency
- Production process tracking
- Efficient solution management

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PROPOSED SOLUTION

HCV group a.s. proposed a wireless network solution based on the Dell SonicWall technology to cover the area of 2600 m2. This technology meets the customer's requirement for a secure wireless network operating without failure across three shifts.

Because of this requirement, redundant controllers were chosen and access points deployed to ensure overlapping coverage. This enabled roaming across the access points with smooth handover.

TECHNICAL SPECIFICATIONS OF KEY COMPONENTS

2x Dell SonicWall NSA 2400

- 802.11a/b/g/n
- Security: WEP, WPA, WPA2, 802.11i, TKIP, PSK,02.1x, EAP-PEAP, EAP-TTLS

20x Dell SonicPoint-N Dual-Radio

- 802.11a/g/b/n, 2.4 GHz, 5 GHz, up to 600 Mbps
- 2x power supply, AC 600W

SCHEDULE

The process from submission of the proposal to its selection took about a month. After receiving the order, the following month was spent carrying out analysis, preparatory works and procedure checks with the actual installation occurring in three stages to minimize disruption to the production.

THE INSTALLATION PROCESS

1. Wiring the cables to individual access points
2. Installation of switchboard cabinets and wiring terminals in switchboards
3. Installation of access points
4. Configuration of network elements
5. Functionality checking

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PROJECT EVALUATION

HCV group a.s. as a supplying partner designed a solution that fully reflects the customer's requirements of a state-of-the-art technology by a vendor with proven solutions already deployed in the customer's IT infrastructure.

The integration was done in short time frame and without complications. The solution remains open to further performance and capacity extensions based on the client's future needs.

The client saves cost on improved efficiency, low maintenance requirements and higher system availability. Projected return on investment is one to two years.

MAIN SOLUTION BENEFITS

- Easy scalability
- Failover solution
- Efficient administration

CUSTOMER STATEMENT

"The chosen design of the production area coverage and its implementation fully met our expectations while at the same time solving the challenges of changing warehouse layout and radio-impermeable walls.

The deployed solution poses no limits when it comes to further expansion as well as wireless performance upgrades. Redundancy both in terms of access point layout and dual controllers ensures safe operation across all three shifts including weekends.

Everything from solution design through execution was done as agreed and in line with our expectations. The partner succeeded at completely fulfilling our needs. The planned schedule was adhered to and we didn't have to restrict our operations during the deployment."

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