Transportation systems are evolving to meet the needs of a world on the move. From high-speed trains to self-driving cars, the transportation industry is harnessing the power of IP connectivity and the Internet of Things by:

- Connecting customers for the best transportation experience
- Connecting people and processes securely for speed, comfort and safety
- Connecting transportation infrastructure to enhance communications, security and efficiency

This eBook presents a number of successful transportation solutions chosen by some of our customers. While each customer and market segment have specific requirements, here are just a few reasons why transportation customers choose ALE:

- Improved operational efficiency
- Robust, ruggedized solutions
- Scalability and multi-layered security
- Easy to roll out

We make everything connect, by delivering technology that works for your people, your passengers, and your services. With global reach and local focus, we deliver networking and communications built for transport systems, to deliver mobility, security and safety.

Learn more about the Alcatel-Lucent Enterprise Transportation Solutions.
With a handling capacity of approximately 9.6 million passengers growing to 15 million passengers by 2020, a new installation had to be capable of being installed without causing any interruption, and within the planned deadlines.

“Fluid, always-available communications are prerequisites in an airport where all services need to be constant and immediate. The Alcatel-Lucent Enterprise solution supported by the maintenance team ensures that we can offer our customers optimal quality of service.”

NATHALIE REBUFFET
TELECOM/ICTN PROJECT MANAGER, AÉROPORT DE LYON SAINT-EXUPÉRY

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**PRODUCT LIST**
- Alcatel-Lucent OmniPCX® Enterprise Communication Server
- Alcatel-Lucent IP Deskphone

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**CUSTOMER REFERENCES**
- Lyon Saint-Exupéry Airport
- GRU Airport
- NDOT
- Mersey Travel
- Transtec Gotthard
- Transit Wireless
- Bolloré Africa Logistics
- KOCH-International
- Movis International
GRU Airport - Sao Paulo International Airport
create a more efficient operations system, and better passenger services

GRU Airport have undertaken a major renovation and expansion program to better serve the needs of international travelers, address employee mobility, and improve passenger terminals, logistics, airport apron systems and airstrips.

“Whenever we can work with a good solution provider, like Alcatel-Lucent, who understands that there are multiple stakeholders in the airport with different requirements for a voice network and that the challenge is to address all their requirements cost-effectively, then it makes it easier to deliver solutions that meet everyone's needs and make everyone happy. And that is what happened with the development and delivery of this voice network.”

LUIZ EDUARDO RITZMANN
CIO OF GRU AIRPORT, SAO PAULO INTERNATIONAL AIRPORT

PRODUCT LIST
• Alcatel-Lucent OmniPCX Enterprise Communication Servers
• Alcatel-Lucent OmniStack® LS 6200 Stackable LAN Switches
• Alcatel-Lucent OmniStack LS 6400 Stackable LAN Switches
• Alcatel-Lucent OmniAccess® AP61 Access Points
• Alcatel-Lucent 8 Series IP Touch Phones
• Alcatel-Lucent OmniVista® 4760 Network Management System
The Nevada Department of Transportation (NDOT) is responsible for the planning, construction, operation and maintenance of the 5400 miles of highway and over 1000 bridges that make up Nevada’s state highway system. NDOT’s primary goal is “safety first”.

“The new solution makes it simpler to provide the best services throughout the 25 billion miles traveled by our road users annually, providing the right information for safe travel and ultimately reducing the time spent on the road. ALE went above and beyond throughout the entire process.”

GARY MOLNAR ITS NETWORK MANAGER

**COUNTRY:** UNITED STATES  
**SEGMENT:** ITS (ROADS & HIGHWAYS)

**PRODUCT LIST**
- Alcatel-Lucent OmniSwitch® 6865 Hardened Ethernet Switch
- Alcatel-Lucent OmniSwitch 6860E Stackable LAN Switch
- Alcatel-Lucent OmniSwitch 6900 Stackable LAN Switch
The focus is on improving connectivity as well as improving the customer experience from ticket buying, to journey planning, while maintaining the integrated transport network, including the Mersey Ferries and Mersey Tunnels.

“A flexible, resilient and reliable network infrastructure is critical to ensuring that Mersey Travel can efficiently run its services on a 24 hour basis. The consolidation of networks has allowed us to maximize the return on our investment whilst underpinning the provision of diverse services to the public of Merseyside.”

IAN HAWKINS
IT SERVICE DELIVERY MANAGER
This project represents one of the first major global engineering projects to incorporate advanced Internet of Things (IoT) technology to transform the delivery of essential services. The tunnel area, includes 168 cross passages, where even minimal network disruption could cause delays and potentially impact worker and passenger safety.

“This tunnel is designed to last for 100 years. I am sure that the Alcatel-Lucent Enterprise colleagues will manage it successfully. They had the last 8 years well under control. They will continue for the next 92 years, or longer. We are also very proud of the AVA Digital award and Muse Creative Award won by Koenigs film for our video promoting the partnership between Gotthard tunnel and Alcatel-Lucent Enterprise.”

PETER HUBER
PROJECT LEADER, TRANSTEC GOTTHARD

PRODUCT LIST
- Alcatel-Lucent OmniSwitch 6855 Hardened LAN Switch
Transit Wireless provides connectivity for the New York City subway system

This large fiber network spans four boroughs and approximately 276 stations. The challenge was to find a network switch that could handle intense traffic density and work reliably in the harsh underground environment.

"Thanks to the Alcatel-Lucent Enterprise solution, more than 330,000 users access free Wi-Fi in the New York subway every day. We're always moving the technological needle forward and have plans to increase bandwidth and quality, while monetizing the network. ALE USA, inc is proactive in proposing new products that will help us achieve these goals. We look forward to continued cooperation and mutual success."

THOMAS MCCARTHY
DIRECTOR OF NETWORK OPERATIONS, TRANSIT WIRELESS

COUNTRY: UNITED STATES
SEGMENT: RAIL

PRODUCT LIST
- Alcatel-Lucent OmniSwitch 6855
  Hardened LAN Switch
Bolloré Africa Logistics wanted to set up a powerful network to create more fluidity of use

This would involve establishing a converged voice/data network with full IP telephony to meet the mobility needs of all employees. As the leading integrated logistics network on the African Continent and a major operator in public-private port and rail partnerships, Bolloré undertook to rebuild the network.

“Because we are committed to delivering fast, high-quality and reliable service to our customers, we hold our suppliers, who are an extension of our service, to high standards. These standards are evident in the telecommunications network designed and built by Alcatel-Lucent Enterprise. Today, we have several ongoing projects, such as adding new facilities, extending the wireless network, and enhancing network management.”

PASCAL MAILLOT
CIO, BOLLORÉ AFRICA LOGISTICS CONGO

PRODUCT LIST
- Alcatel-Lucent OmniPCX Enterprise Communication Server
- Alcatel-Lucent IP Touch® 4018 Extended Edition
- Alcatel-Lucent IP Touch 4028 Extended Edition
- Alcatel-Lucent OmniTouch 4135 IP Conferencing Module
- Alcatel-Lucent OmniSwitch 6865 Hardened Ethernet Switch
- Alcatel-Lucent OmniSwitch 6450 Stackable LAN Switch
- Alcatel-Lucent OmniVista 4760 Network Management System
KOCH-International
move to solution that delivers high mobility, accessibility and availability

Founded in 1900, KOCH-International provides production, transportation and warehouse logistics. They develop customized solutions that offer quality and security to clients, through an experienced and well trained team, using the latest technology. KOCH-International needed to migrate to a new location without impacting business. They needed an improved PBX and network management solution, and they needed it to be energy efficient.

“The solution of Alcatel-Lucent offers all communication possibilities that an enterprise with different fields of activities would need. We wanted to solve certain challenges of our industry and achieve our customers’ expectations for an optimal assistance and development under high time pressure. Our new communication concept is now able to smoothly support all of the above.”

MR. HEINZ-PETER BESTE
BUSINESS DIRECTOR,
HEINRICH KOCH INTERNATIONALE SPEDITION GMBH & CO. KG

PRODUCT LIST
- Alcatel-Lucent OmniAccess AP134, 135
- Alcatel-Lucent OmniAccess 4604 WLAN Controller
- Alcatel-Lucent OmniPCX Enterprise Communication Servers
- Alcatel-Lucent OmniSwitch 6450 Stackable LAN Switch
- Alcatel-Lucent OmniSwitch 6850E Stackable LAN Switch
- Alcatel-Lucent OmniSwitch 6900 Stackable LAN Switch
- Alcatel-Lucent OmniTouch 8400 Instant Communications Suite for Enterprise
- Alcatel-Lucent OmniTouch 8660 MyTeamwork Conferencing and Collaboration
- Alcatel-Lucent OmniVista® 2500 Network Management System
The Movis data solution was already installed, but the voice and data networks were separate. Movis needed to move towards data sharing and to increase the power of its network.

"The reliability of Alcatel-Lucent Enterprise products provides us with such a high level of satisfaction that we intend to develop our network with this manufacturer. In 2015, we want to expand our Unified Communications to the site of San Pedro, and develop our Unified Access strategy."

M. IBRAHIMA KONATE
DSI, MOVIS

Movis aims to connect African markets to international trade more efficiently
Connected Transportation

Where your customers connect for the best transport experience. Where you connect securely for speed, comfort and safety. Where your transportation infrastructure connects to enhance communications, security and efficiency.

https://www.al-enterprise.com/en/industries/transportation