



NavigateWorx

IoT/M2M Solution & Hardware
Industrial 4G/5G VPN Router





Company Profile

We specialize in operating IoT/M2M Solutions with various Industrial Cellular Equipment, not only for standard products but also proficient in customization.

Introduction

- Delivering Secure wireless connections
- To become your most reliable IoT/M2M Industry navigating partner.



Technical

Improve

Service

Alliance

ABOUT US

NavigateWorx is a high-tech enterprise committed to delivering secure wireless connections. Since its establishment in 2015 in Guangzhou, we have focused on developing innovative 4G/5G industrial devices for IoT/M2M markets. Our key strength lies in exceptional customization capabilities. With years of experience and professional expertise, we are dedicated to helping our clients develop tailored products and practical solutions to address the diverse and complex IoT markets. Our growth is tightly connected to our expanding global partnerships. We continually strive to explore more feasibilities for wireless connections across various industries, develop products to meet different industrial protocols, and enhance data transmissions in line with evolving technologies.

History

Establishment

A team composed of experienced personnel in the M2M industry

Self-developed OS

Qualified & Convenient
Device Management Platform

Honors

Technology oriented SEM
Innovative SEM
High tech enterprises

2015

2018

2020

2022

2024

NR500 Rugged LTE Router

The 1st self-developed product
has also become one of
the best-selling product

NR600 5G Edge Gateway

Technological breakthrough products,
whose applied projects have won
awards in domestic competitions

Our Team



Management

- ◆ Enterprise management
- ◆ R&D management
- ◆ Project management
- ◆ Operation management



R&D Dep.

- ◆ More than 40%
- ◆ Software and Hardware
- ◆ Functional Testing
- ◆ Environmental Testing



Sales Dep.

- ◆ Customer service
- ◆ Technical support
- ◆ Business coordination
- ◆ Market analysis



Production

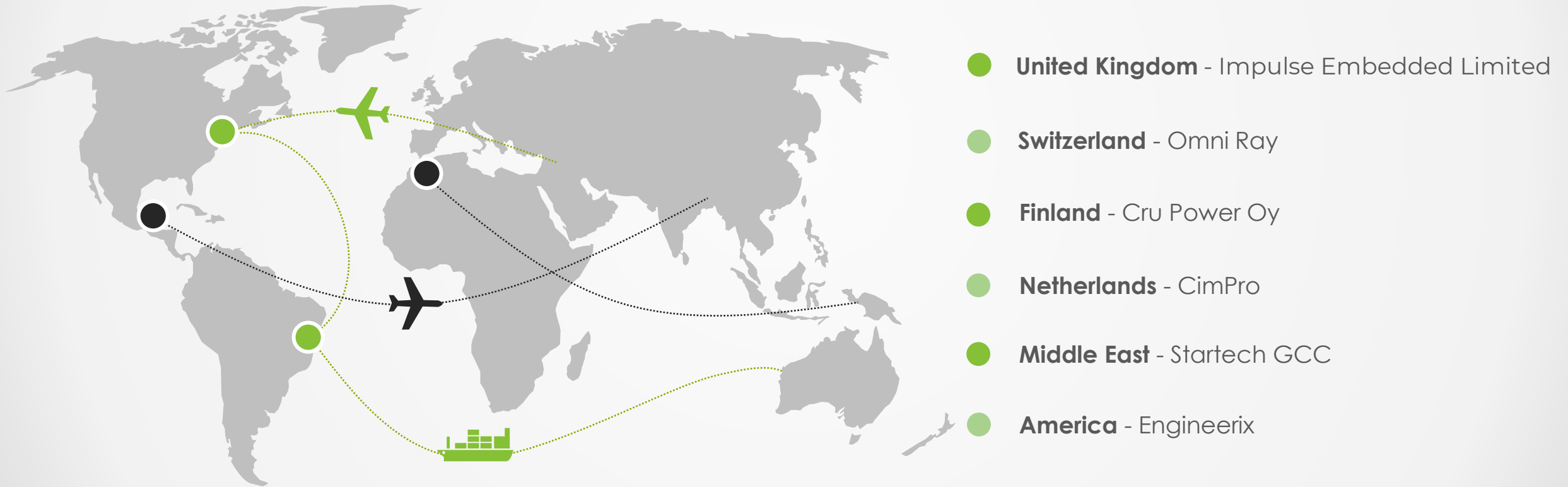
- ◆ Raw material procurement
- ◆ Processing and assembly
- ◆ Factory inspection
- ◆ Aging Testing

Complete and Solid Structure

Global Footprint

Products are sold in **85** countries worldwide

Sales have increased by over  **30%** in the last three years.





Product Line

Self-developed Industrial 4G/5G VPN Router & DMP

Star Product

NR500 NC/Std/Pro

Rugged LTE Routers



Used in numerous applications
and widely recognized



Network failover
between Ethernet,
Cellular, and Wi-Fi



Multiple Industrial
interface, RS232,
RS485, DIO



Wide Range
Power Input
9 to 48 VDC



Industrial design &
wide range working
temperature



Self-developed OS,
in-house
development



Protocol conversion
IEC101, IEC104,
Modbus, DNP3, etc



Diversified VPN, IPSec,
OpenVPN, DMVPN,
Wireguard, Zerotier, etc



Remote management,
compatible with 3rd
party platforms



Open SDK for
Secondary
development

Hot Product



Reliable cellular connection with dual SIM auto switch



Multiple Industrial interfaces RS232 and RS485



Industrial design & wide Range Power Input 9 to 36 VDC



Protocol conversion IEC101, IEC104, Modbus, DNP3, etc.



Diversified VPN, IPSec, OpenVPN, DMVPN, Wireguard, Zerotier, etc.



Self-developed OS, compatible with 3rd party management platforms

NR300 / NR310

Compact LTE Routers



Smaller in size. fully functional

Advanced Product

NR600

5G Edge Gateway



Advance 5G SA/NSA cellular connection with dual SIM auto switch



Dual band 2.4Ghz and 5Ghz Wi-Fi up to 802.11ac, AP and client mode



Multiple Industrial interfaces, Gigabit Ethernet, RS232, RS485, DIDO



Protocol conversion IEC101, IEC104, Modbus, DNP3 and etc.



Diversified VPN, IPSec, OpenVPN, DMVPN, Wireguard, Zerotier and etc.



Self-developed OS, compatible with 3rd party management platforms

Open SDK for Secondary development



Comparison Table

	NR300	NR310	NR500-Standard	NR500-Pro	NR500-NC	NR600
Cellular	4G		4G	4G	No	5G
Ethernet Ports	1	2	2	4	2/4	4
Wi-Fi	No	Yes	Optional			Yes
GPS	No		Optional		No	Yes
RS232	1		1			1
RS485	1		1			1
DI	No		2			2
DO	No		2			2
Power Input	9 - 36 VDC		9 - 48 VDC			9 - 48 VDC
Working Temp.	- 40 To 75 °C		- 40 To 75 °C			- 30 To 70 °C
VPNs	OpenVPN, GRE, IPSec, L2TP, PPTP, DMVPN					
Config	Local Configuration/SNMP/CLI Command/Cloud Management Platform					

Device Management Platform



1

Real-time device statistics including model, online number analysis

2

Remote maintenance for firmware upgrade, config file import, and reboot task

3

User-friendly UI design and multiple access privilege

4

Device group for batch operation and multiple user management

5

7 x 24 hours of operating design, multi-layer verification of device connections

6

Cloud-based service and support private deployments

Centralized device management

Application Scenarios

Explore more feasibilities for wireless connections across various industries

Extensive Markets



Energy

Smart Metering
Power Dispatching
Gas Pipeline Remote Monitoring
Substation Automation System
Pump Station



Transportation

Intelligent Bus System
Highway Tunnel Monitoring
Subway Monitoring System
High Altitude Data Collection



Industrial Automation

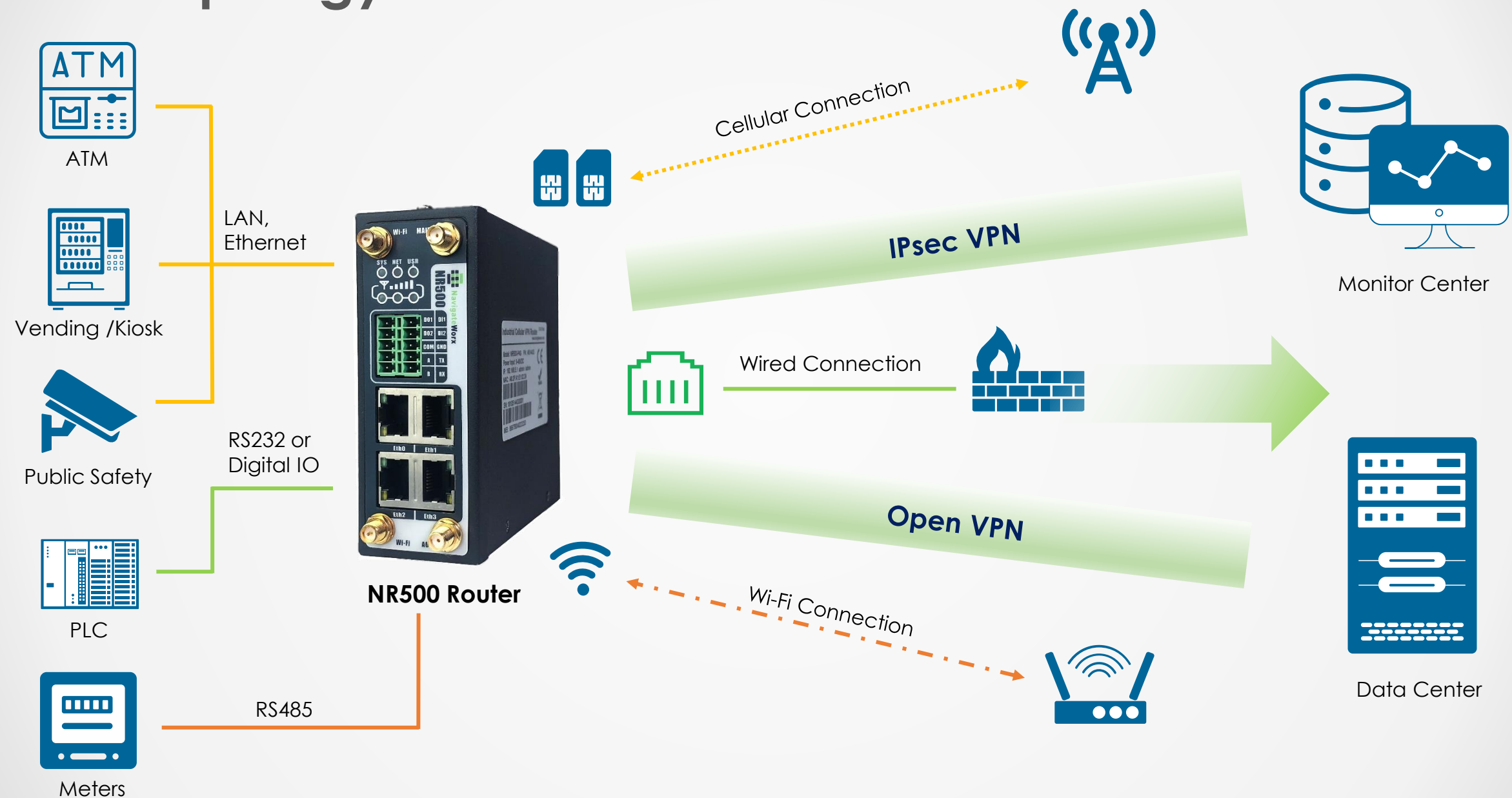
Package Machines Remote Monitoring
CNC Machines Remote Monitoring
Compressor Remote Monitoring



Retail

ATM
Vending Machine
Gambling Machine
Digital Signage
Kiosk

Basic Topology



Industry Analysis

Since different industries have different standards, protocols, and scenarios, No standard cellular product can fully meet all needs in the diverse industrial market.

Therefore, product customization is crucial and this is what NavigateWorx excels at.

Industrial cellular routers perform diverse functions such as data security and encryption using firewalls and VPNs. The Edge computing function collects data from IoT terminals and transmits it to the server. It integrates with different application platforms for extensive data analysis, etc.



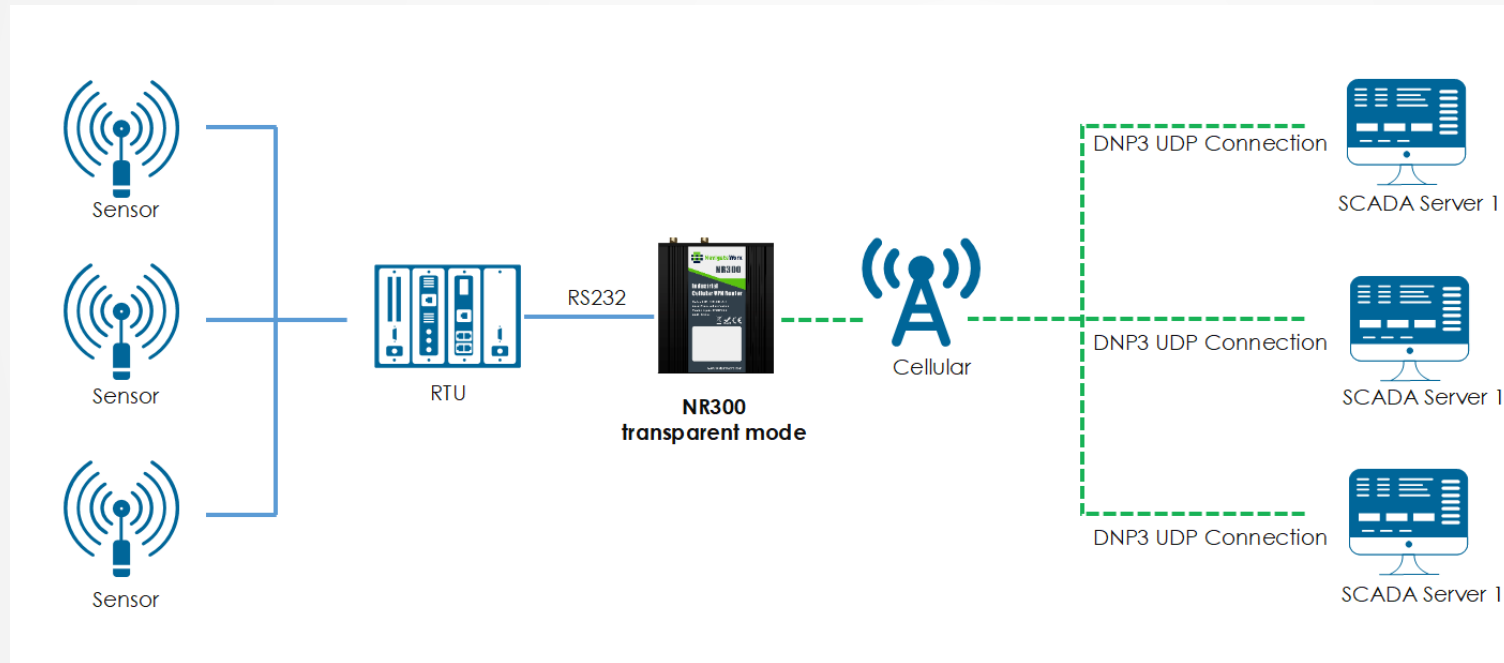
With the rapid evolution of wireless technology and its extended coverage, wireless communication offers superior reliability, cost-effectiveness, and deployment convenience compared to wired communication.

Wireless communication can replace wired connections in various applications, including Remote Meter Reading and Self-service Retail. It also serves as a backup link for ETC, Small Supermarket Chain payment Systems, Traffic Signals, and Remote Switching. Additionally, it supplements the real-time communication of mobile carriers for applications such as Bus Systems, High-speed Trains, Fire Trucks, and Helicopters.

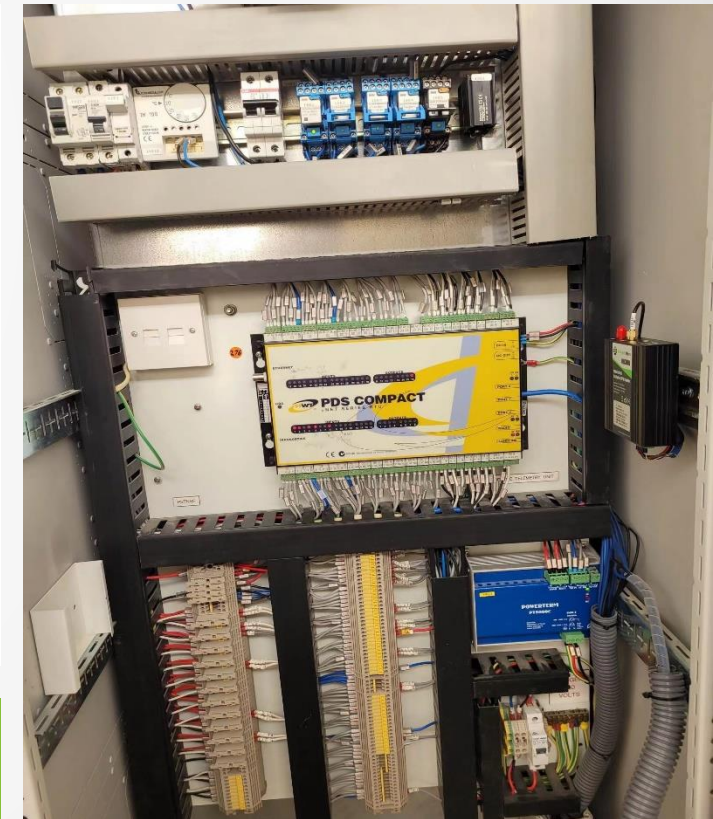
Software Customization ①

DNP3 Serial to DNP3 UDP Protocol Conversation

This project is from the Middle East and applies to wastewater monitoring equipped with RTUs to pair with sensors. They are looking for a high-quality functional industrial router to transport the data from RTU to their multiple SCADA systems. Due to their RTU only supporting serial ports, which cannot make remote transport, we developed the protocol conversation of DNP3 Serial to DNP3 UDP in our NR300 4G Router.



I am extremely impressed with the support provided by your company, we will seek more opportunities with NavigateWorx.
- Said By Mr.Mohammed

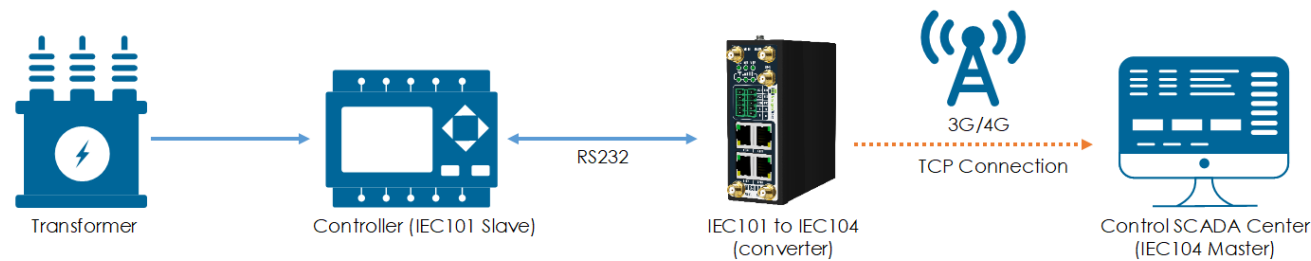


Software Customization ②

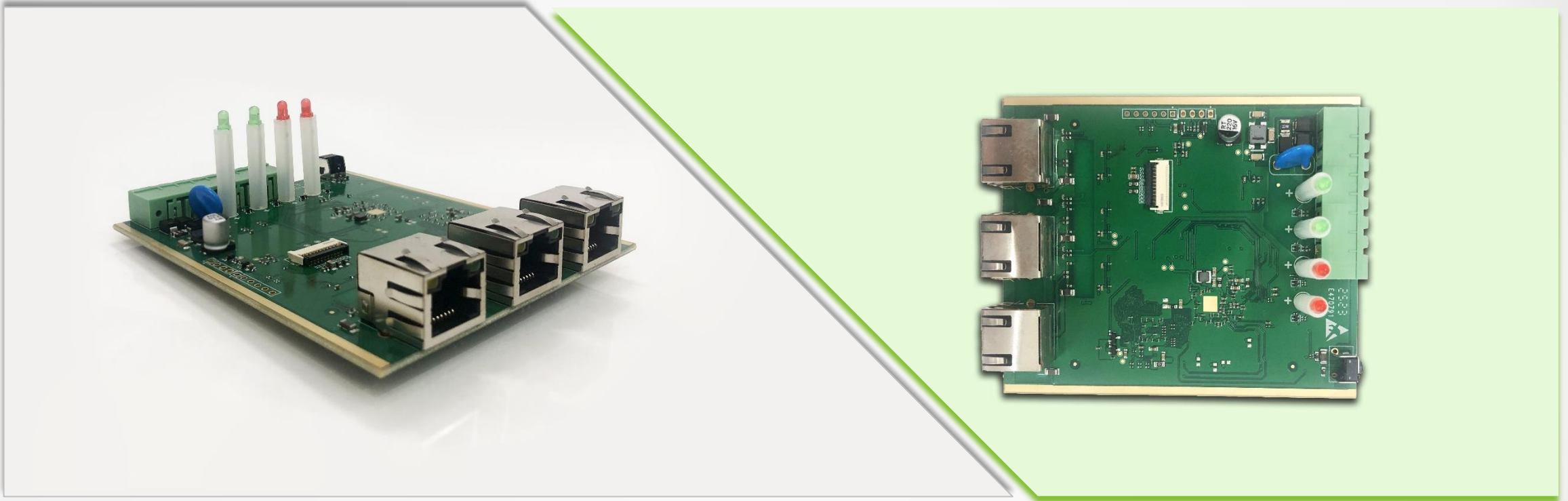
IEC101-IEC104 Protocol Conversation

This project is from Saudi Arabia. Due to the increase in electricity needs in cities and towns, the high-quality development of the economy needs to build more 132/33kV substations. They need to develop the whole electrical system.

While the controllers in substations only support IEC 101 slave, so we developed the protocol conversation of IEC101- IEC104 in our NR500 4G router to make the data transmission from the controller to their SCADA System smoothly.



Hardware Customization ①



Factory Automation Production

This is an application from a German client specializing in industrial automation who is familiar with industry protocols such as PROFINET, PROFIBUS, EtherNet/IP, etc. They approached us to collaborate on customized products precisely because they saw Navigatex's accumulation in the Industrial Automation applications. This product is applied in factory industrial automation deployment and supports classic PROFINET and smart sensor communication.

Hardware Customization ②

5G Subway Data Transmission

This project is from China. They need us to develop a 5G communication module and integrate it into the subway train's data system. The train data system will automatically connect to the station data center with high-speed data transmission. It can help reduce maintenance risks and pressure on maintenance workers, and efficiently analyze and handle problems.



Installations



NR500 on helicopter
For secure communication



Remote Gas Pipeline
Monitoring via NR500



Oil Well Station Remote
Monitoring via NR500

Why NavigateWorx

Professional technology and services

Competitive Edge

Profitable Alliance

Competitive agency prices, inquiries referrals from the respective regions, and territory protection.

Strong Customized Services

Stay close to customer needs and help you develop and manage IoT solutions from hardware to software.

Collaborative Marketing

Work with our partners to develop marketing strategies and materials and organize co-branded activities.

Technical Support & Training

Provide online support by Skype, TeamViewer, or even onsite Support, technical training for products and applications.

Efficient & Cautious Service

Thoughtfully communicate with customers and Coordinate internal resources to resolve requests promptly.



Supporting Terms



Service Guidelines

Sales/Technical/Inquiries Response: General within 2H, Americas regions with 12H
Customer Service: Online Meetings, Routine, Exhibition, Visiting Plan

01

02

Delivery time

Samples take 3 working days, Small orders take 1-2 weeks,
Bulk orders generally take within 8 weeks, specific details can be negotiated



Delivery Standards

100% factory inspection from IQC-PCBA-OQC, 48-hour aging test

03

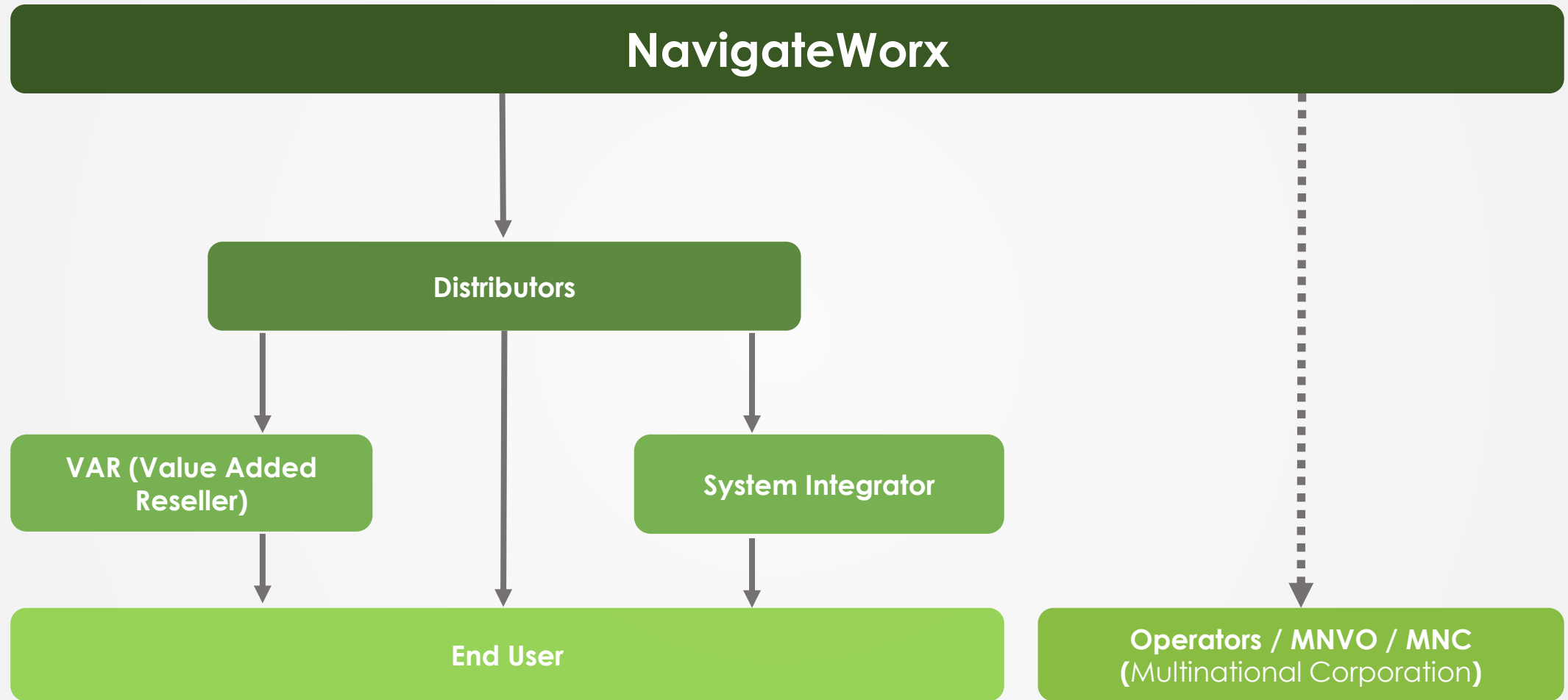
04

Warranty & after-sale service

2 years, Online Support, On-site Support, RMA



Win-Win Partnership



We appreciate your patient participation. We wish to establish a friendly and long-term cooperation with you!



NavigateWorx

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We accompany with you 24H / 7D

