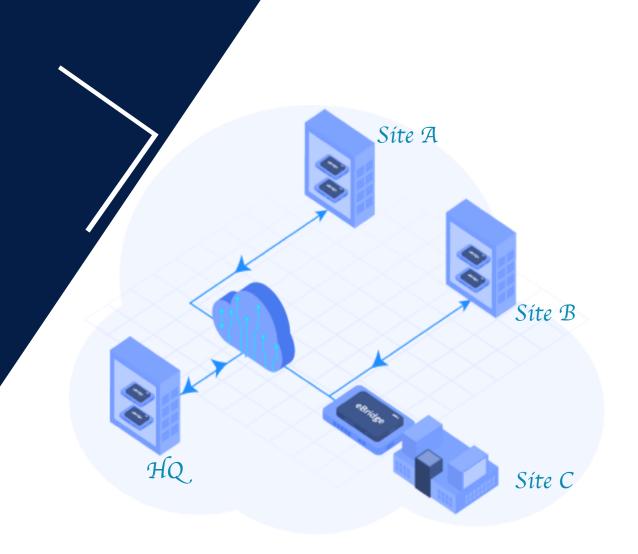


ABOUT ESIX LIMITED

eSix is a networking edge technology company focus on the industrial high-speed networking. Based in Hong Kong Science Park.

edgeWares™ is an eSix product with its patent technology which helps industries, enterprises building their network infrastructure easily. It can utilize the current Internet broadband, MPLS, 4G, 5G connection, or any dedicated network infrastructure



5G EDGES

Key Problems and Needs

- Problem: 5G Industrial Applications cannot operate to the same level of sophistication as fixed networks with respect to bidirectional visibility, seamless connectivity and VPN support while on the move. These creates difficulties for most large campus deployment
- Needs: Commercially important for self-driving cars, autonomous trucks, unmanned automatic ports, smart transportation, AGV in various countries
- Solution: eSix L2 Overlay technology for mobile network implemented as a <u>common bridge</u> between 5G (and other networks) and different silo Industrial Applications.



eSix consolidates the fragment technologies using in smart port with 5G.



Customer Case

Tianjin Port: Seamless Supervision over 5G

Working with ZTE, **eSix** delivered seamless bidirectional supervision of multiple high speed unmanned AGVs in TianJin Port Project (December 2019).

Problem solved: Replaced their old solution that they are able to control, supervise the unmanned truck seamless across the whole port.

Old Solution	eSix Technology
VPN + IPSec:	edgeWares™
Fix line focus	Mobile focus
10s to few minutes or failure on tunnel handover.	Tunnel handover < 0.15s. 70x faster
Cannot regain control the AGV in critical time manner	Achieve the goal of controlling AGV seamless.



证明函

致佛山易识科技:

贵司的 eBridge 及 eProbe 为"天津港 5G 智慧港口"项目建设过程中部分关键技术的攻关提供了有效的解决方案,解决了智慧港口 5G&MEC 智能集卡应用网络透传、中心反向控制、IP 地址固定及双向地址隐藏等关键性难题,产品运行稳定性能良好,协助推进天津港 5G 商用起到了积极的推动作用,取得良好的实际应用效果的同时得到了天津港用户方的充分肯定。对贵司在技术攻关工作中做出的努力我司深表感谢!





Technology Breakthrough

eSix Attacks 5G Industrial Rollout Pain Points

Silo technologies and industrial applications

Current Network Technology (competitors)

Silo technologies for each application. Very complicate to to scale.

Designed for <u>fixed network</u>, not mobile networks nor 5G

10s to few minutes on tunnel handover. Cannot regain control of remote vehicle in time.

Slow and difficult deployment requiring weeks and months. High CAPEX. High OPEX.

Security and privacy issue over wireless

eSix Technology

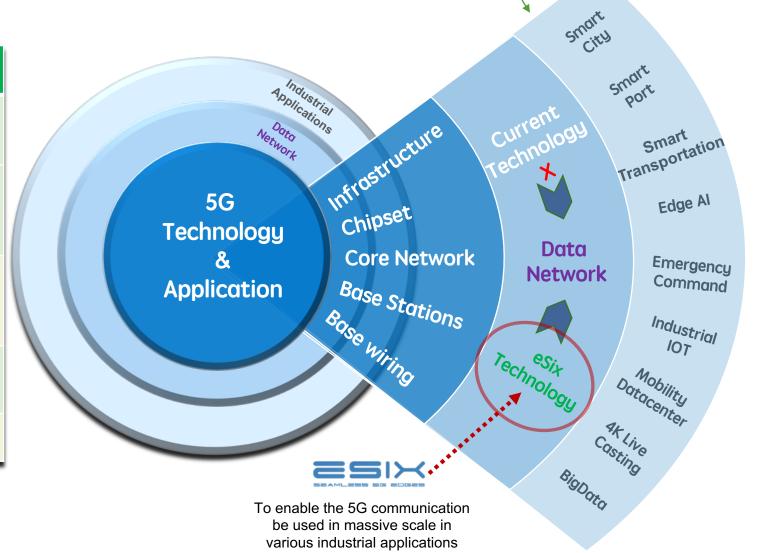
Layer-2 technology fit for all applications, support massive equipment easily.

Address high speed mobile network with <u>fast moving</u> <u>objects</u>. Best for 5G environment.

Tunnel handover at < 0.15s (<u>70x times faster</u>). Regain control of vehicles seamless.

Plug-n-Play, Zero configuration, central management: Low CAPX and OPEX

Enhanced security. Privacy protected by Blockchain, etc





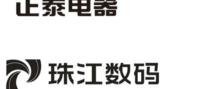




Global Partnership

Extensive Experience in Delivering Successful Deployments





Pearl River Digital Broadband











ZTE中兴















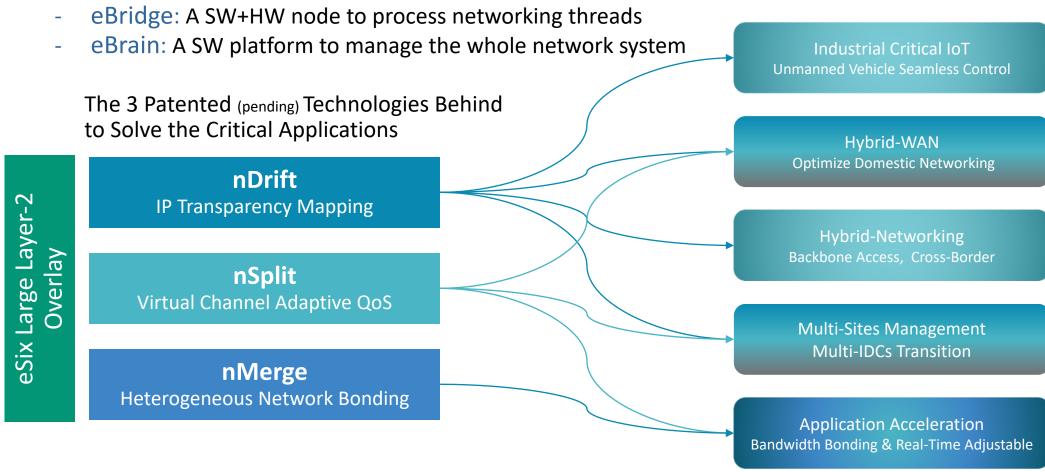




edgeWares™

Technology and Applications

edgeWaresTM: A total solution of virtual network control and management for 5G fasten roaming applications. It includes 2 components. They are:





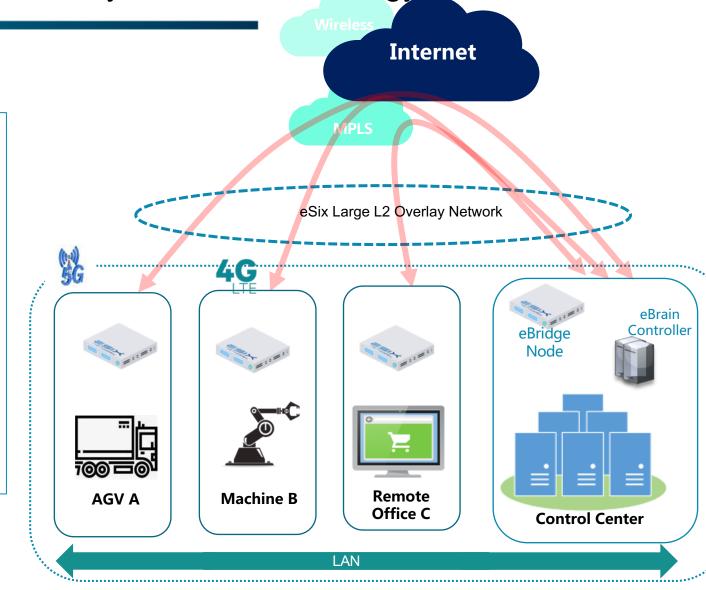
eSix Patented L2 Overlay Network Technology

Main Benefits:

Easy: It resolves the conflict of the same subnet IP address from different sites. Its' patented technology build large L2 overlay protocol, merging massive no. of machines or sites into a LAN environment. The IP addresses of the merged network are transparent to the public network.

In the moving object, the switching of IP network only takes milliseconds, allowing vehicles being supervised.

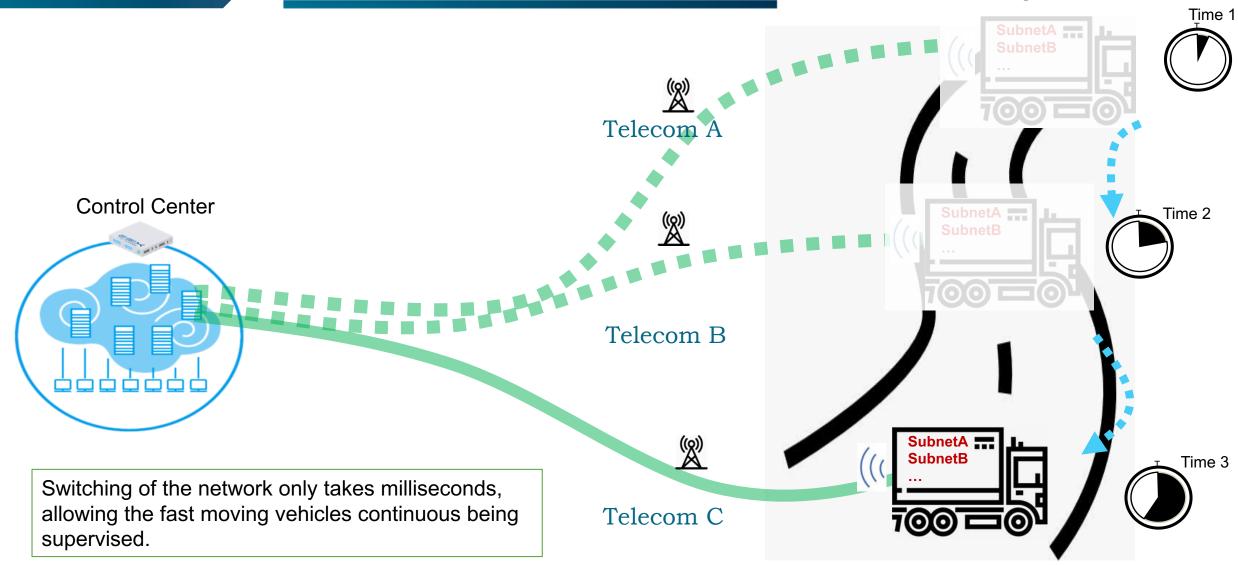
The PnP feature of eBridge together with centralized eBrain controller, largely enhance the scalability of the network.





Seamless IP connection on moving network

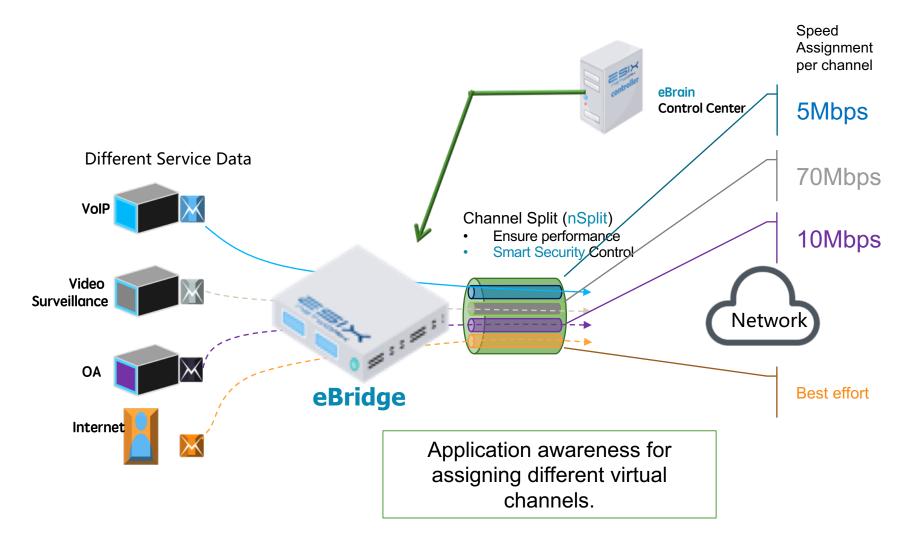
eBridge at AGV





Technology nSplit

A Virtual Channel technology guarantee Performance



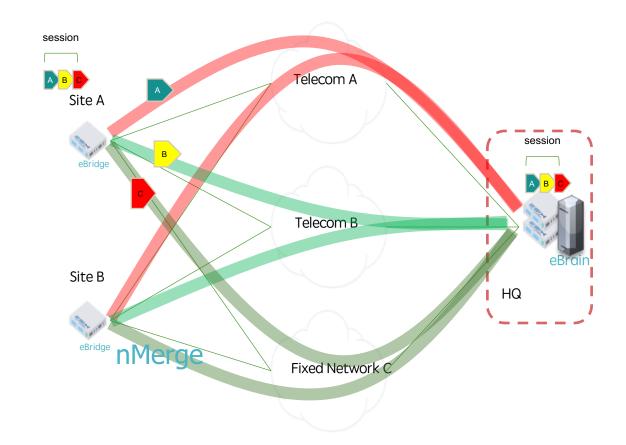


Technology nMerge

A technology for reliability, performance, security and cost

Main Benefits:

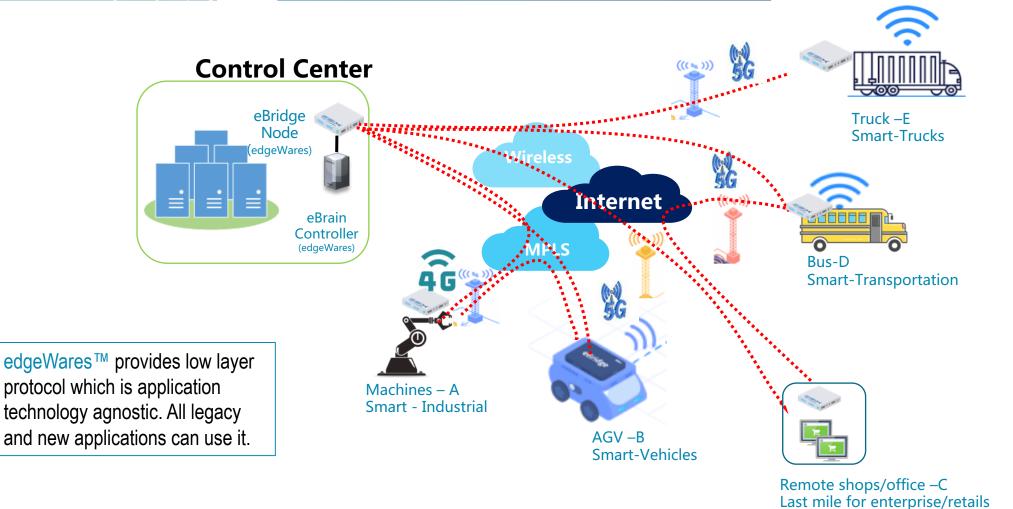
- Reliability: nMerge (Network Merger) allows resilient capability of internetworking through bandwidth bonding in multi-bearers. The UDP approach also improves the performance reliability together with nSplit.
- Security: Data is divided into packets and go through multiple bearers and consolidate at the end point. Hijacking the uncompleted data in any one bearer is useless.
- Cost: edgeWares allows users to set priority on low cost bearers and using high cost for special use. The hybrid approach helps users reduce communication cost.





edgeWares™

The 5G Industrial Edge Solution: edgeWares™





THANK YOU

