Basen

Global full stack IoT Platform

Enabling innovation & transformation in any industry

BaseN: Global full stack IoT platform

Basen

BaseN operates and continuously develops its own **full stack** IoT Platform

- Since 2001
- Fully owned IPR and architecture
- Deployed as Software-as-a-Service
- Designed to be real time, linearly scalable, fault tolerant and inherently distributed
- Suitable also for mission critical applications
- 24x7 SLAs provided to customers
- Transparent billing, pay as you grow
- Customers can deploy global products in days

BaseN full stack layers

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1	User Experience	Extensive service design interfaces and knowledge
2	Thing (Device) Management	Device management & connectivity capabilities up to billions of devices
3	Data Science & Analytics	Capability for parallel processed, distributed algorithms across all platform computing resources
4	Extensive Application Programming Interfaces (APIs)	Interfaces from/to external and legacy applications
5	Spime containers	The permanent logical brain and memory of any physical thing
6	BaseN Platform Core	BaseN Platform core, fully owned Intellectual Property Rights (IPR) for all essential components
7	BaseN Platform Operating Environment	Uniform BaseN Platform Operating Environment (BPOE), own configuration management
8	Computing & Storage Hardware and Edge Equipment	Bare metal servers, own distributed storage systems
9	Data Centers	BaseN acquires dedicated co-location space at optimally selected global hubs
10	Network Access	BaseN is an Internet Service Provider since 2001 with own Autonomous Systems and open peering policy
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BaseN global presence

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- Currently processing over one million transactions per second out of 12 datacenters globally
- Serving customers in 80+ countries, for example:



- Global construction site control
- Manufacturing and industrial automation
- Smart Building and Energy
- Smart Living and eHealth
- Datacenters and energy management
- Full telecom OSS (operations support system)

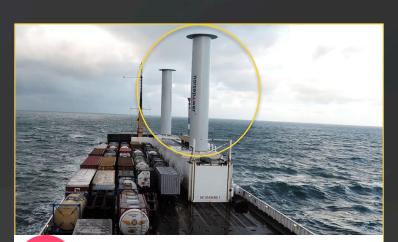
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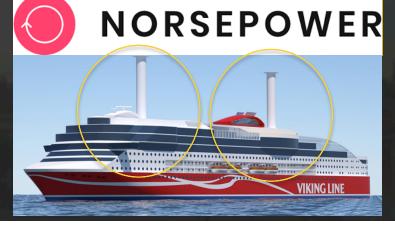
Select Customer Cases

on Baseⁿ Norsepower Rotor Sails

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- Norsepower brings sail back to ocean transportation on BaseN
- BaseN's knowledge on security is a significant asset for automation playing an important role in ocean transport
- Managing the entire life cycle of the sails spimes (advanced digital twins on BaseN)
- BaseN runs the analytics required to operate the sails with enriched information of the conditions in parallel with the local services onboard
- BaseN built the UX for Norsepower engineering, ship-owners, ship officers and other stakeholders in engineering, map and other necessary views
- Engineering co-operation has been seamless and the process of development has been executed with agile technologies





on Baseⁿ | Trimble CrewSight[™]

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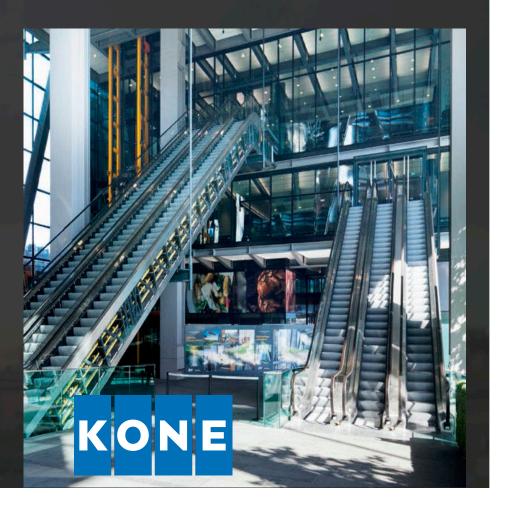
- Core platform to enable visibility on building construction projects combining a jobsite access control system with a worker database for increased site security and efficiency
- More than 300.000 workers and assets already on BaseN Platform
- A flexible and scalable system that is easy to deploy
- Powerful analytics and correlations to increase construction efficiency and security
- Retail warehouse inventory tracking, with automatic order creation based on thresholds of volume of goods monitored real-time through RFID or bar code tags



on Baseⁿ Kone

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- Kone has been relying on BaseN network monitoring and management technology to ensure high SLAs for the past 5 years
- Kone has standard installation running on the BaseN Platform with two agent computers to ensure full redundancy
 - BaseN service is targeted towards ICT management and business owners – providing a multitenant and multivendor portal views for the entirety of Kone's distributed ICT and telecom network
- Currently, with partnership with Fujitsu, BaseN is approaching the industrial internet monitoring segment of Kone





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- BaseN is the umbrella platform for Fujitsu Europe's major customers (Fujitsu Patja)
- Fujitsu Patja is a fully transparent service that takes full responsibility for the customer's IT process, allowing the customer to focus on its core business without having to worry about IT operations and maintenance
- Telecom equipment, IT servers and increasingly smaller IoT devices under management
- BaseN Platform has replaced large EMC Smarts, IBM Tivoli and IBM Netcool environments
- Fujitsu Europe has been a BaseN customer for over a decade
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on Baseⁿ T-Mobile

- Migrating multiple existing solutions from different monitoring systems into one
- Data collection through provider equipment (PE), customer equipment and customer edge (CE)
- Providing real time measurements of network availability and performance indicators to T-Mobile customers
- Fast incident response and issue management system for the Network Operations Centre (NOC)
- Enable T-Mobile to offer performance monitoring as optional, value-adding service and provide a foundation to develop and launch new services quickly







