Introduction to

Nessum Alliance

Kota Matsuo

Vice President

No. NSAD-P0110E-4

Scope of disclosure:
Open to public

About Myself

Kota Matsuo

Affiliation

- Vice President, Nessum Alliance
- GM, Business Development Office,
  Panasonic R&D Center Singapore

Background

- 13 years of experience in software development for Nessum and Video intercom systems
- 5 years of experience in business development and marketing for Nessum

Nessum Alliance Overview

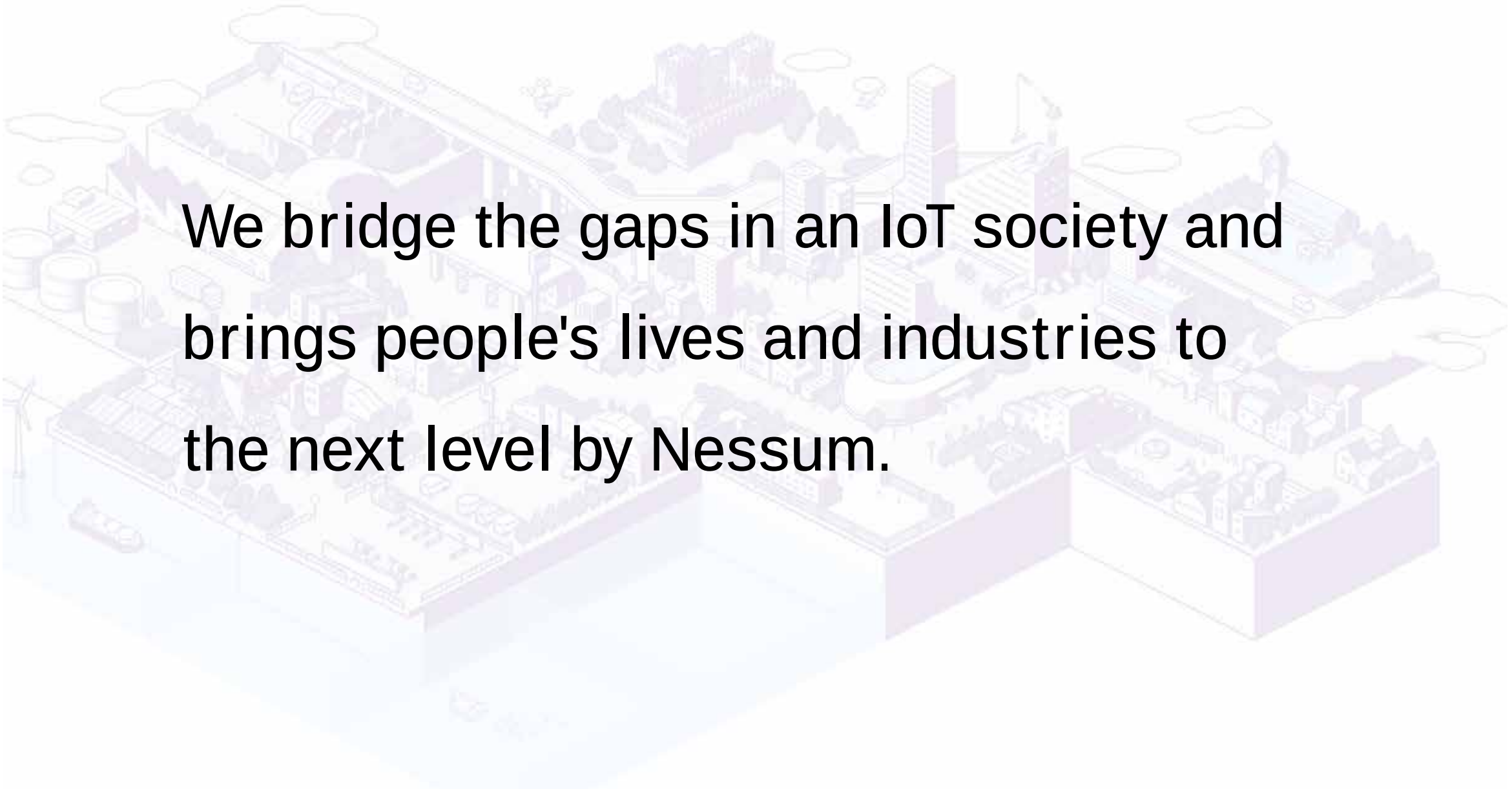
Name	Nessum Alliance (former name HD-PLC Alliance)
Founder and Establish	Founded by Panasonic in 2007
Number of members	43 (38 companies, 5 organizations)
Location	Fukuoka, Japan
WEB site	https://nessum.org

GE VERNOVA
DAIKIN
Fuji Electric
MegaChips
MinebeaMitsumi
Passion to Create Value through Difference
MICROCHIP
Panasonic
socionext
MIRAIT ONE
NuriFlex
PPC
Teldat
HIME
DOMATIC
ECOLIN

History

2007 HD-PLC Alliance was established in Japan
2011 IEEE 1901 wavelet OFDM certification program
2011 ITU-T G.9972, Coexistence mechanism for different BPL system
2013 Japanese Standard for Smart Meter JJ300.20&21 (echonet light)
2013 China National Standard for IGRS PLC GB/T 29265.305-2012
2015 ITU-T G.9905 MultiHops CMSR for BPL
2017 LON ver HD-PLC approved as ISO/IEC 14908 (ANSI/CTA 709.8)
2018 IEEE 1901-2020 released
2019 IEEE 1901a published
2022 IEEE 1901b published
2023 Renamed to Nessum Alliance
2024 IEEE 1901c was published

Mission



We bridge the gaps in an IoT society and brings people's lives and industries to the next level by Nessum.

Members Roster : A global alliance with 40 members and partner

Promoter

Panasonic
socionext The Solution SoC Company
Shikino Shikino High-tech Co.,Ltd.
Toho Technology Corp.

Standard

DAIKIN
Fuji Electric
GE VERNOVA
Helvetia Inc. 株式会社ヘルヴェチア
INELTRO ELECTRONICS
kawamura
KOITO ELECTRIC INDUSTRIES, LTD.
MegaChips
MIRAIT ONE
MinebeaMitsumi Passion to Create Value through Difference
Nuri Flex Japan
PPC Power Plus Communications
Progilon
SEC
Clouder 云间半导体
Swistec
Teldat
Ubiquitous AI Corporation
UL Solutions
xingtera

Start-up

adatec AiVibe
CORESIGHT.LI Electronic.Firmware.Software.FPGA.
HIME
DOMATIC
ECOLINQX
iCOGNIZE
KLYFF
XEEED.IO

Supporter

azbil
GigaFast
日本総合技術株式会社
SKNET

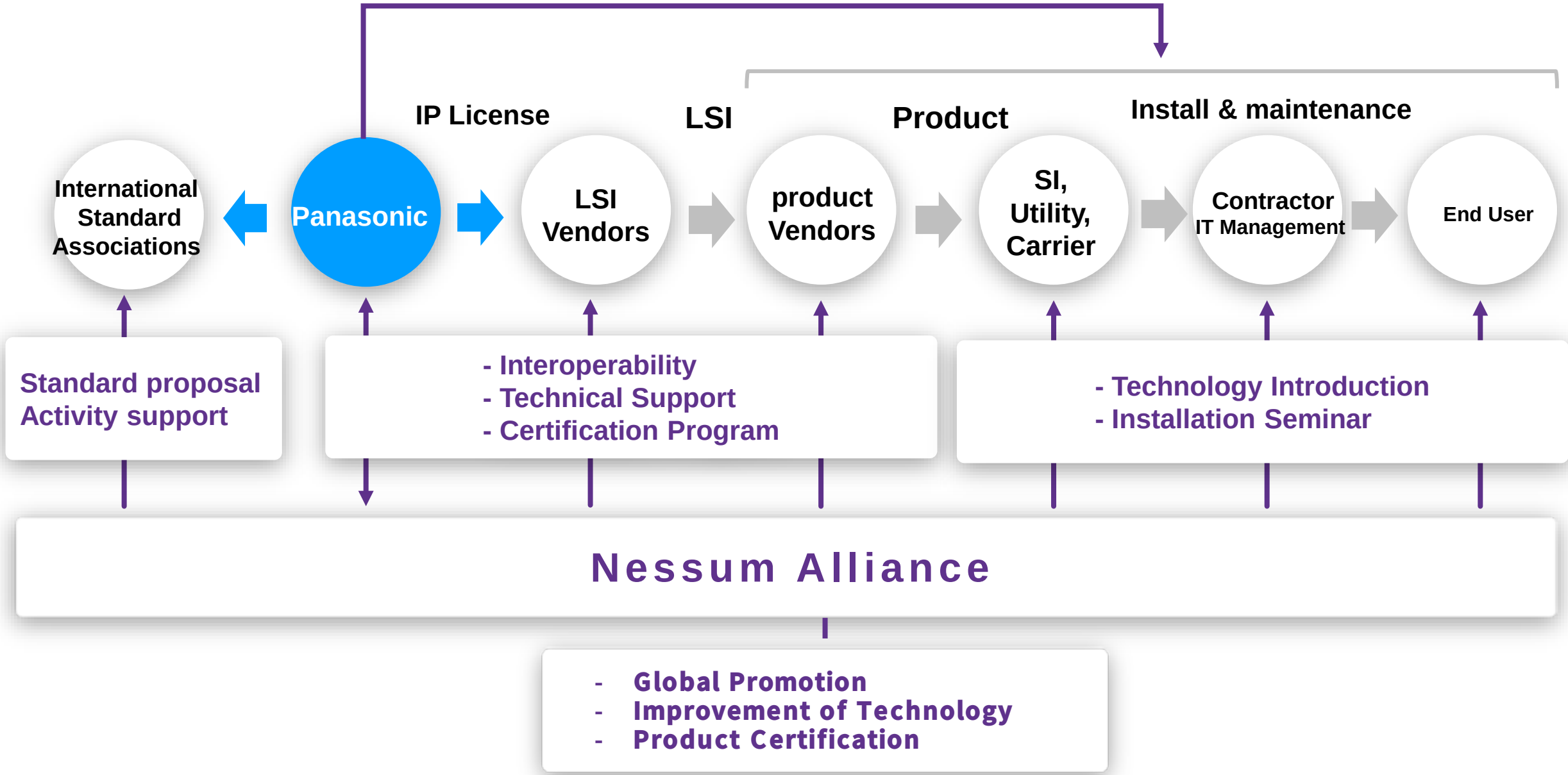
Special Member

ASIBA Architecture Studio for Impact Based Action
Egretcom
KNX NATIONAL JAPAN
九州計測器株式会社
LONMARK INTERNATIONAL
LONMARK JAPAN
MICROCHIP
SASKEN
ZETA Alliance

Associate Partner

IEEE
闪联 IGRS
ITRI Industrial Technology Research Institute
TTC Telecommunication Technology Committee

Supported Total Value Chain



What We can Provide

Products and **expertise** to suit your application

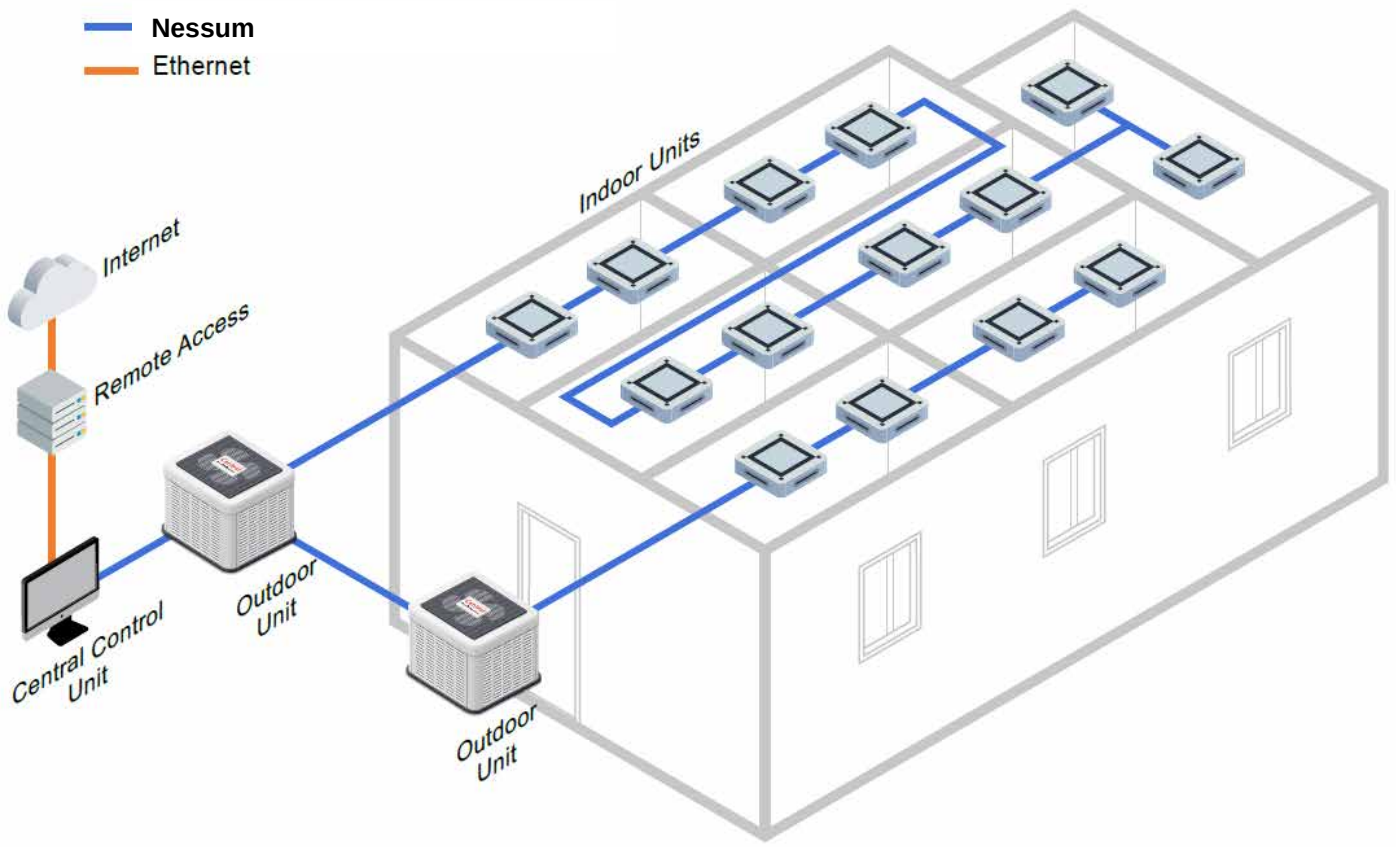
For LSI manufacturer	For product manufacturer		For network installer, system integrator
Semiconductor development	Embedded in equipment	Product Design & Development	Utilization in the field
	 		
IP Core (RTL, SW)	LSI	module	Dev Kit	adapter

From Panasonic Holdings

From Nessum partner companies

Browse all Products | Nessum Alliance

Commercial Air Conditioner (Global)



NEEDS

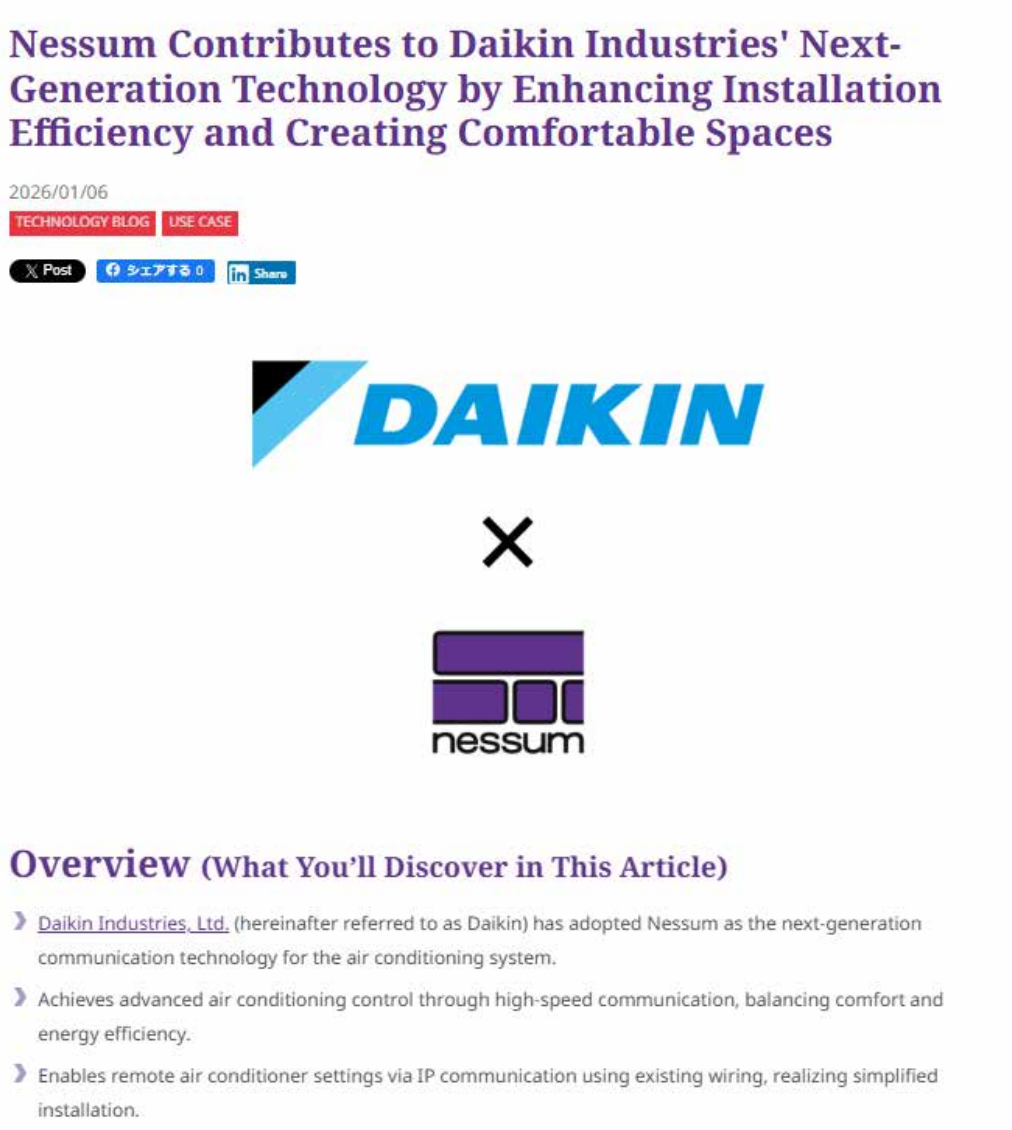
The current communication for indoor-outdoor unit systems is about 10kbps. They want to frequently monitor and control to improve energy efficiency, but the speed is not enough.

With Nessum WIRE using the same wiring, the speed has improved by 1,000 to 10,000 times!

Don’t miss the latest Nessum news!

Free newsletter subscription

Sample article:



Nessum Contributes to Daikin Industries' Next-Generation Technology by Enhancing Installation Efficiency and Creating Comfortable Spaces

2026/01/06

TECHNOLOGY BLOG USE CASE

Post シェアする 0 Share

DAIKIN × nessum

Overview (What You’ll Discover in This Article)

- Daikin Industries, Ltd. (hereinafter referred to as Daikin) has adopted Nessum as the next-generation communication technology for the air conditioning system.
- Achieves advanced air conditioning control through high-speed communication, balancing comfort and energy efficiency.
- Enables remote air conditioner settings via IP communication using existing wiring, realizing simplified installation.