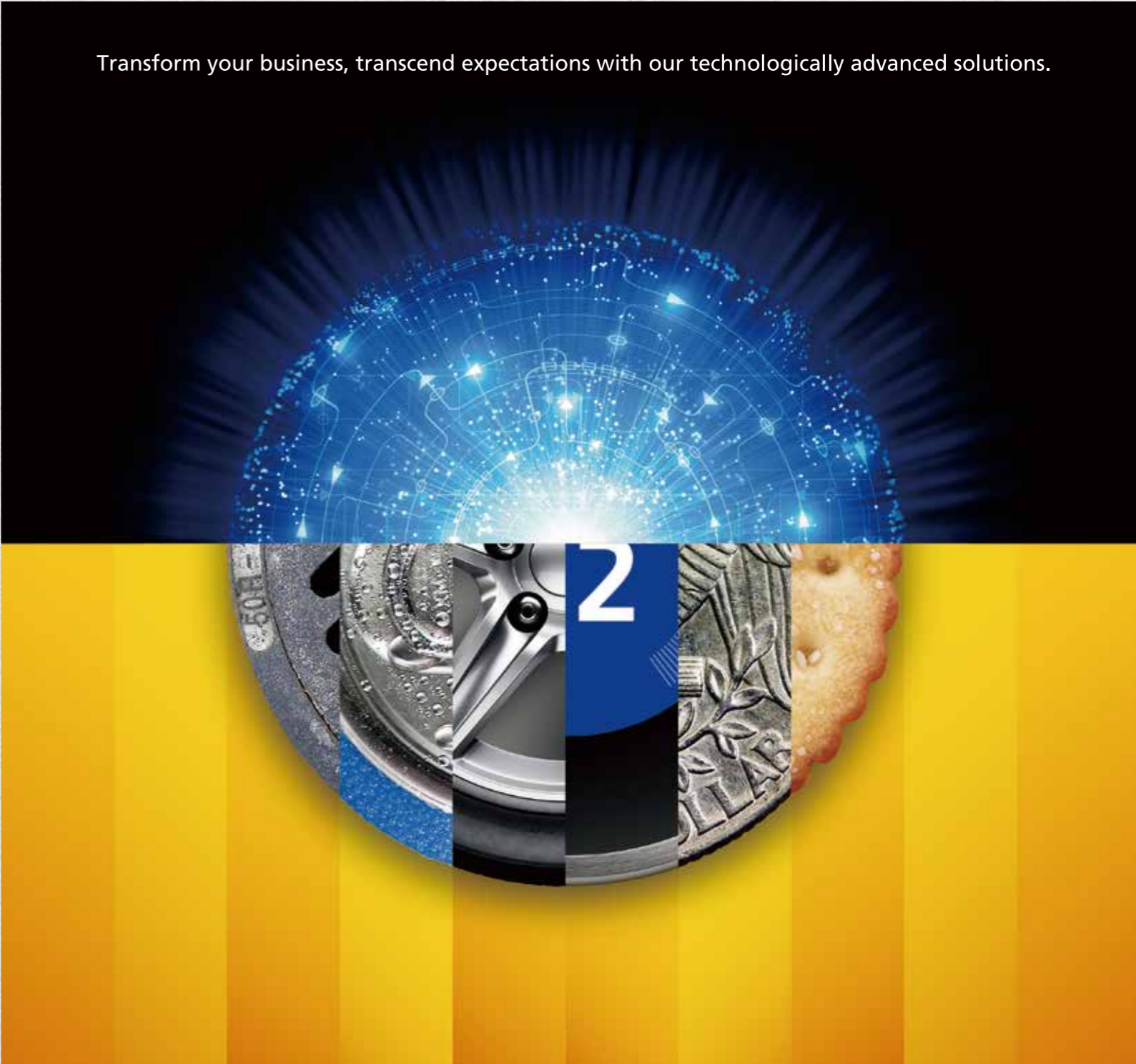


# Global Cloud Vision 2016

Seamless ICT Solution that contributes to Customers' Management Innovations



Transform your business, transcend expectations with our technologically advanced solutions.



# Global Cloud Vision

Our Global Cloud Vision aims at contributing to customers' management innovations (Digital Transformation) by optimizing their ICT environments through Seamless ICT Solution

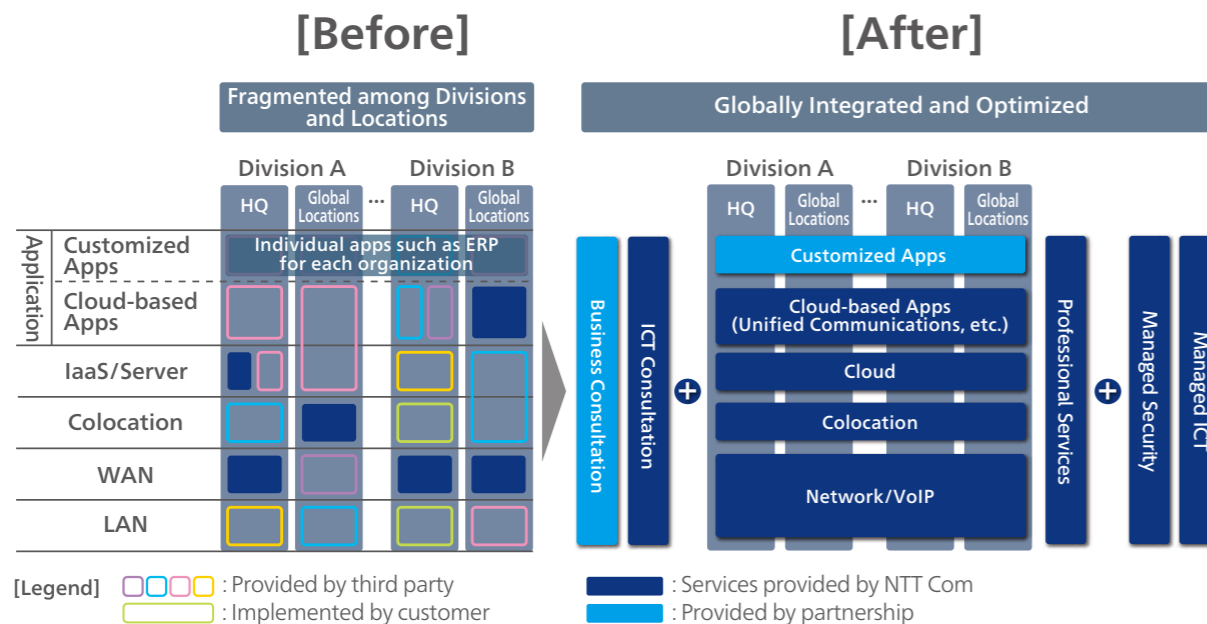
NTT Com provides Seamless ICT Solution, a globally optimal combination of various services such as Cloud, Colocation, Network, Application, Security and Managed ICT, leveraging the capabilities as a network service provider.

Our Seamless ICT Solution realizes:

- Globally integrated and managed ICT environments
- Low-cost, flexible and on-demand ICT environments
- Safe and secure ICT environments for businesses

We support customers' efforts to innovate their business processes such as acceleration of decision making and improvement of productivity, and create new businesses.

## Optimizing ICT Environment through Seamless ICT Solution



## Our Customers



## Recognition by IT Advisory Companies



### List of Evaluation Reports positioning NTT Com as a Leader

Category	Evaluation Report
Network	<b>Magic Quadrant for Network Services, Global</b> - Positioned as a Leader for the third consecutive year [Source] Gartner, "Magic Quadrant for Network Services, Global" by Neil Rickard, Bjarne Munch, 14 January 2016
	<b>IDC ITMarketScape : Worldwide Advanced Enterprise WAN Data Service Provider</b> [Source] IDC, "IDC ITMarketScape: Worldwide Advanced Enterprise WAN Data Service Provider 2015 Vendor Assessment" (#258717), September 2015
Cloud	<b>Magic Quadrant for Cloud-Enabled Managed Hosting, Asia/Pacific</b> [Source] Gartner, "Magic Quadrant for Cloud-Enabled Managed Hosting, Asia/Pacific" by To Chee Eng, Kenshi Tazaki, Vincent Fu, Arup Roy, 11 November 2015
	<b>Magic Quadrant for Disaster Recovery as a Service</b> [Source] Gartner, "Magic Quadrant for Disaster Recovery as a Service" by John P Morency, Christine Tenneson, 21 April 2015
Voice	<b>IDC ITMarketScape : Worldwide UCaaS Service Provider</b> [Source] IDC, "IDC ITMarketScape: Worldwide UCaaS Service Provider 2015 Vendor Assessment" (#US40612315), December 2015
Security	<b>IDC ITMarketScape : Asia/Pacific Managed Security Services</b> [Source] IDC, "IDC ITMarketScape: Asia/Pacific Managed Security Services 2015 Vendor Assessment" (#AP251064), May 2015
Combined Service	<b>IDC ITMarketScape : Worldwide Telecom Service Provider</b> [Source] IDC, "IDC ITMarketScape: Worldwide Telecom Service Provider 2015 Vendor Assessment" (#257339), July 2015

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### Other Recent Major Awards



Other awards NTT Com received include The Global Carrier Awards 2015 (November 2015), Asia Communication Awards 2015 (June 2015) and Telecom Asia Awards 2015 (May 2015).

# Supporting Customers' Management Innovations (Digital)

## Network

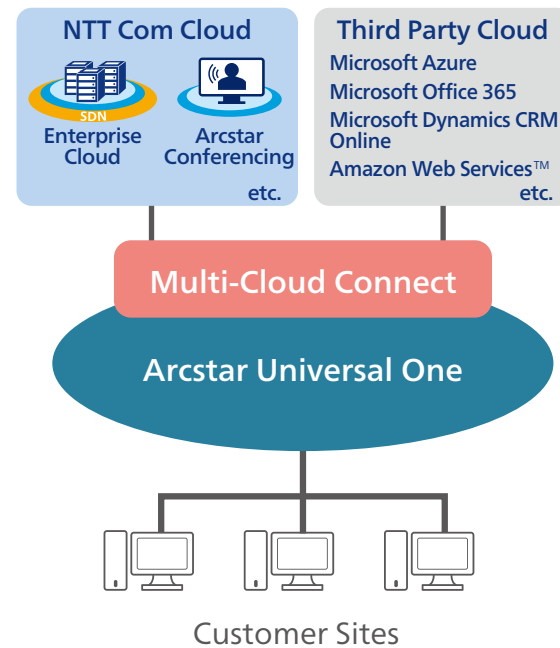
### Arcstar Universal One

Secure and high-quality global network service available in 196 countries/regions

#### Arcstar Universal One Multi-Cloud Connect (Figure on the right)

Service option that provides free\* or low-priced connection from Arcstar Universal One to NTT Com Cloud (Enterprise Cloud, etc.) and to third party clouds (Microsoft Azure, Microsoft Office 365, Microsoft Dynamics CRM Online, Amazon Web Services™, etc.) The option supports multi-cloud environments and is scheduled to be connected to more providers in more locations.

\* For 100Mbps Best Effort Type



#### Arcstar Universal One Cloud-based Network Service Option [NFV\*]

Service option that provides network functions such as Firewall and Application Acceleration as a cloud-based, low-cost and on-demand network service by using NFV technology

\* NFV (Network Functions Virtualization) enables network functions, which have been traditionally provided by using dedicated hardware equipment, with software on general-purpose servers using virtualization technology.

### Submarine Cable Systems

Our global submarine cable systems support high-quality and low-latency network services.

**PC-1**: Pacific Crossing 1 connects Japan and US, offering industry's lowest level of latency between Tokyo and Chicago.

**ASE**: Asia Submarine-cable Express connects major Asian countries/regions including Japan, Hong Kong and Singapore, offering industry's lowest level of latency between Tokyo and Singapore.

**APG**: Asia Pacific Gateway connects major Asian countries/regions including Japan, Korea, China [Shanghai/Hong Kong], Singapore and Thailand, offering Asia's largest capacity (to be launched in 3Q 2016).

## Colocation

### Nexcenter

High-quality, flexible and cost-effective Tier III-IV-class data centers in major countries/regions across the globe



<New Data Centers> (Launch schedules in parentheses)



Hong Kong Financial DCT2 (December 2015)



UK Hemel Hempstead 3 (March 2016)



US Texas Dallas 1 (TX1) (February 2017)



Germany Munich 2 (1Q 2017)

### Number of Data Centers and Server Floor Space

More than **140** locations/**367,000**m<sup>2</sup>  
(As of April 2016, including expansion plans)



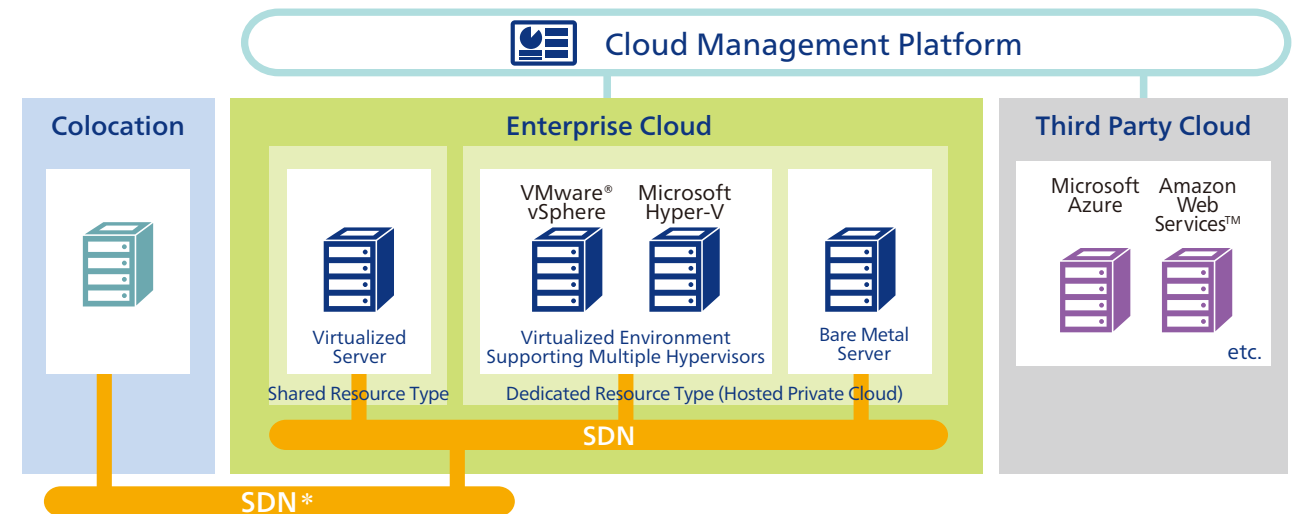
## Cloud

### Enterprise Cloud

High quality cloud service under globally standardized specifications, available at 15 locations in 12 countries/regions (including expansion plans). New features launched in March 2016 are optimal for deployment/operation of core systems and development of cloud-native applications. The new features are currently available in Japan, UK, Singapore and US, and will launch in Australia, China (Hong Kong), Germany, etc. (As of May 2016)

<Major New Features>

- Dedicated Resource Type (Hosted Private Cloud) that provides virtualized environment supporting multiple hypervisors, and bare metal servers
- Shared Resource Type
- Cloud Management Platform that enables one-stop management of Enterprise Cloud and third party cloud services (Microsoft Azure, Amazon Web Services™, etc.) via Portal
- Wide range of API

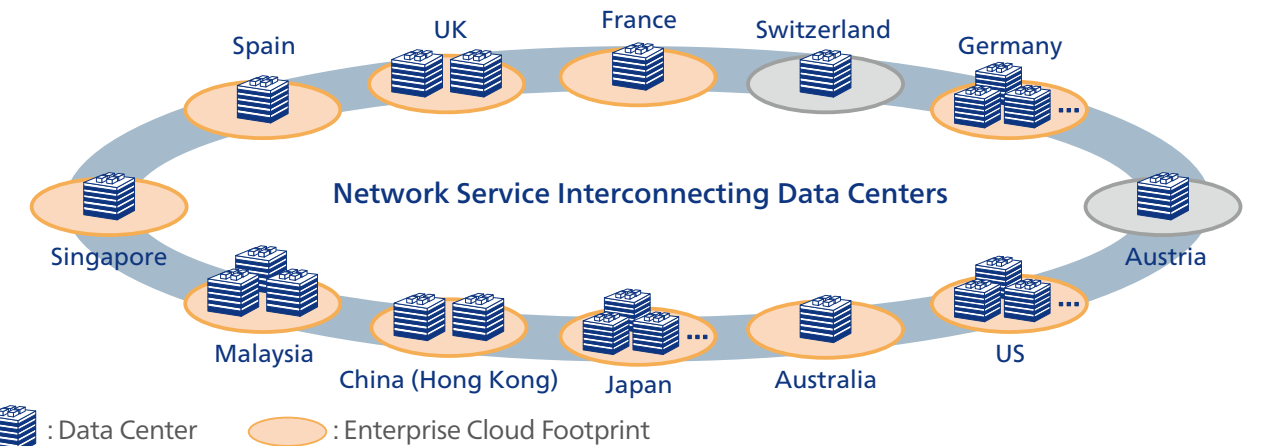


\* SDN (Software Defined Network) is a technology that enables flexible changes of network configurations through centralized software-based control of communication devices constituting the network. The term may also refer to networks using SDN.

### Network Service Interconnecting Data Centers

Service that connects Enterprise Cloud and Colocation in more than 30 data centers across the globe via a high bandwidth network up to 10Gbps, addressing customer needs to accommodate increasing inter-system traffic

- <Charges>
- Cloud - Cloud : Free of charge
  - Cloud - Colocation : Competitive price
  - Colocation - Colocation : Competitive price



\* Launched in Japan and UK in April 2016. Scheduled to be expanded globally in FY 2016

# al Transformation) by Optimizing their ICT Environments

## Managed Services

### Global Management One

High-quality managed service under globally standardized specifications that operates, monitors and maintains customers' entire ICT environment including NTT Com's services such as Network, Cloud and Applications, and customers' on-premises systems and third party services. This service contributes to operational efficiency improvement and cost reduction by using Operation Automation Platform (ITIL v3-based and ISO20000-certified)



### WideAngle

High-quality comprehensive risk management service under globally standardized specifications that investigates, improves and monitors any security risks against customers' ICT environments. In addition to consultation taking advantage of our long and solid experience, this service provides accurate threat detection based on log analysis using the proprietary SIEM\* engine and risk identification conducted by risk analysts



\* SIEM (Security Incident and Event Management) enables more rapid and accurate threat detection through automatic analysis of ICT device log data by the proprietary analysis engine

### ID Federation

Cloud-based authentication/access management service that enables single sign-on and multi-factor authentication under each customer's security policy for customers' internal systems, NTT Com's services and third party SaaS

## Cloud-based Applications

### Arcstar UCaaS (Cisco type/Microsoft type)

Cloud-based unified communications service that facilitates communication by using presence feature together with other features such as IP telephony, voice mail, instant messaging and web conferencing. Additionally, cost reduction for off-net IP telephony is realized through integration of data/voice circuits by combining Arcstar UCaaS with Arcstar SIP Trunking

### Arcstar Conferencing

Cloud-based conferencing service that enables customers to choose any of the following depending on their needs: Audio Conferencing, Web Conferencing and Video Conferencing. This service contributes to reduction of travel expenses and other costs, and acceleration of efficient information sharing and decision making

Audio Conferencing : High-quality and low-priced audio conferencing available in 15 countries/regions  
 Web Conferencing/Video Conferencing : Smooth voice/video conferencing while sharing documents/screens among participants



## Customer Portal and API\* Gateway

### Business Portal

Customer portal that enables customers to view their usage and status of major services provided by NTT Com Group and change various configurations rapidly and on demand

### API Gateway

Gateway for API access that provides secure and easy connections between customers'/partners' internal systems such as operation monitoring/service order management system and NTT Com Group's major service systems (Free of charge)

\* API (Application Programming Interface) is a mechanism for programs to invoke and use another program

## IoT Platform Service

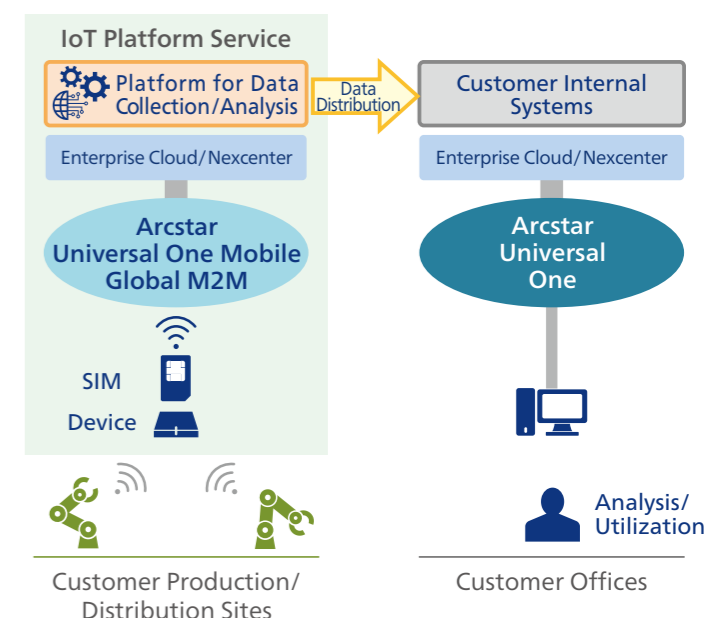
One-stop provision of devices, Network, Cloud, Colocation and platform for data collection/analysis

<Features>

- Secure M2M communication service bypassing the Internet. Available in 188 countries/regions across the world
- Data storage locations can be selected from more than 140 data centers

<Lineup>

- Services for various purposes, including service for the manufacturing industry



## Solution Model

Solution Model addressing customers' ICT challenges by combining various third party applications and NTT Com's services such as Cloud and Network

<Example of Solution Model>

### Communication Platform Solution

Deploy applications such as Microsoft Exchange Server on Cloud together with Network to create secure and robust communication platform

Microsoft Exchange Server

### Microsoft Dynamics AX on Enterprise Cloud / Microsoft Azure Solution

Deploy Microsoft Dynamics AX on Cloud together with Network, enabling customers to rapidly deploy core systems and standardize operational processes by integrating their global system infrastructure

Microsoft Dynamics AX

### Enterprise Cloud for SAP HANA® Enterprise Cloud for SAP® Solution

Realize optimal SAP solutions including SAP BASIS/HANA management by combining SAP-certified, high-quality and highly-secure Cloud together with Network

