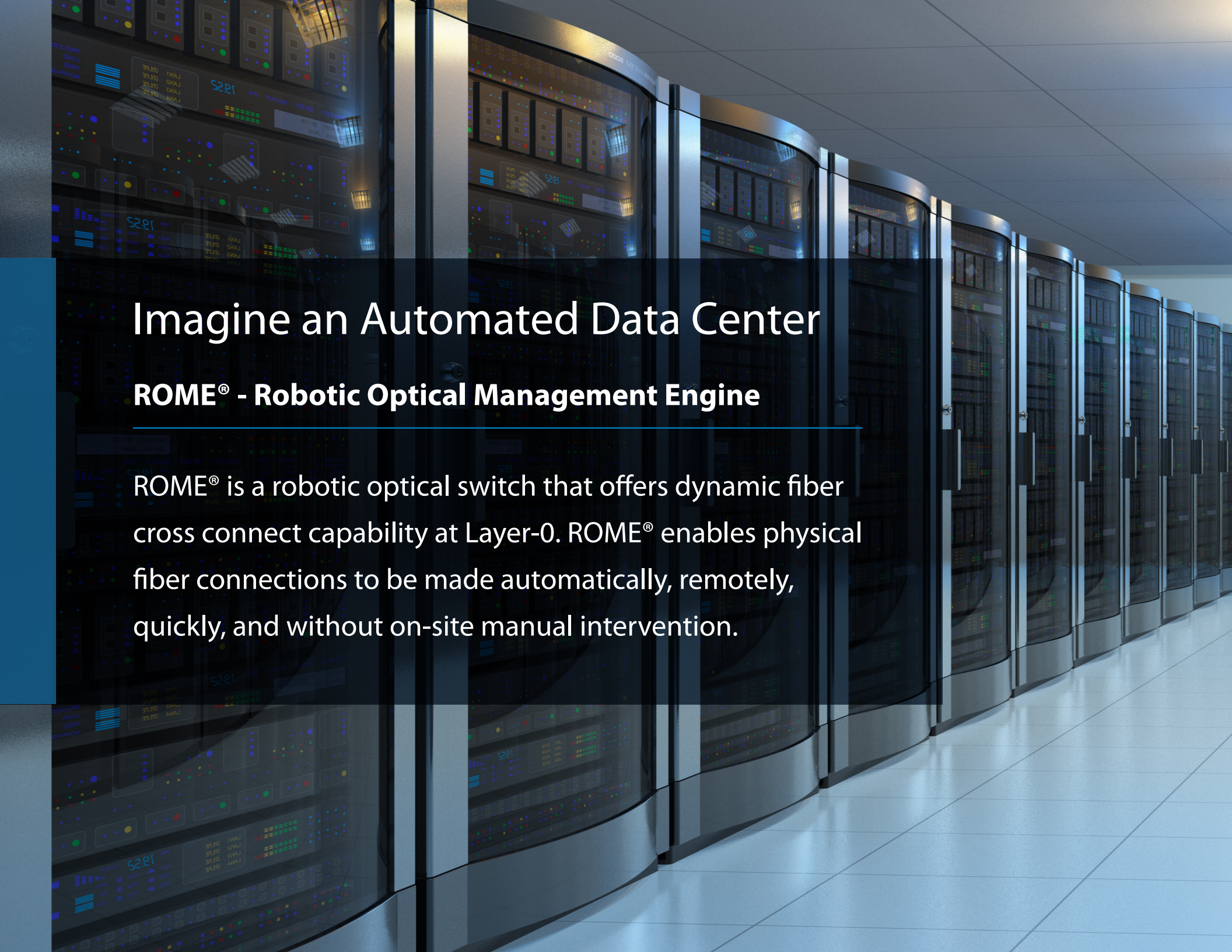
FiberSmart

ROME

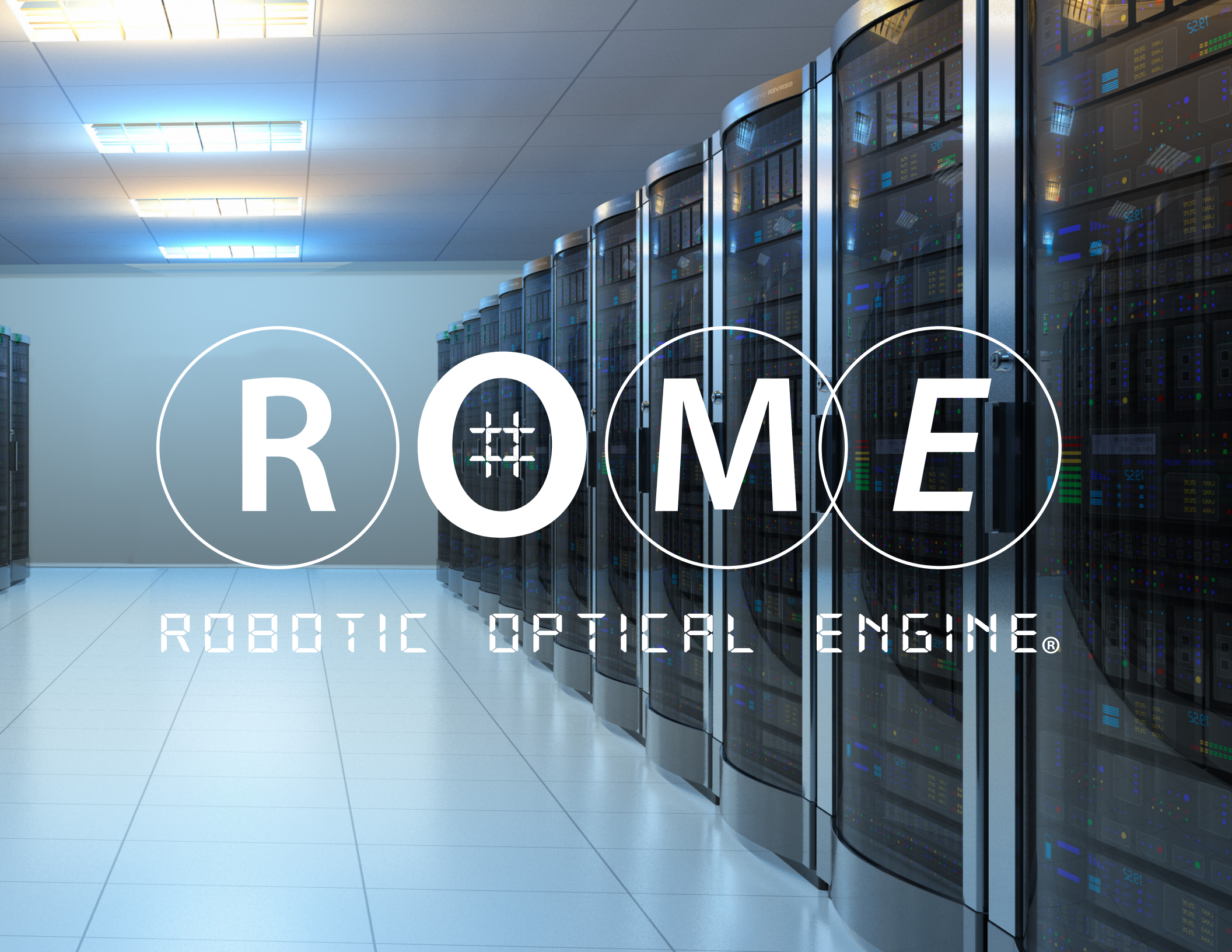
ROBOTIC OPTICAL ENGINE®



Imagine an Automated Data Center

ROME® - Robotic Optical Management Engine

ROME® is a robotic optical switch that offers dynamic fiber cross connect capability at Layer-0. ROME® enables physical fiber connections to be made automatically, remotely, quickly, and without on-site manual intervention.


ROME
ROBOTIC OPTICAL ENGINE®

Robotic Optical Connections

Physical Infrastructure Automated

Data centers are dependent on reliable fiber optic infrastructure to support mission critical applications. This need is addressed when robotic technology is combined with fiber optics, infusing the intelligence down to the physical layer.

Wave2Wave's global, cross-disciplinary engineering team optimizes this intersection with its newest innovation, ROME, a robotic fiber switch that can make hundreds of fiber connections through the click of a button.

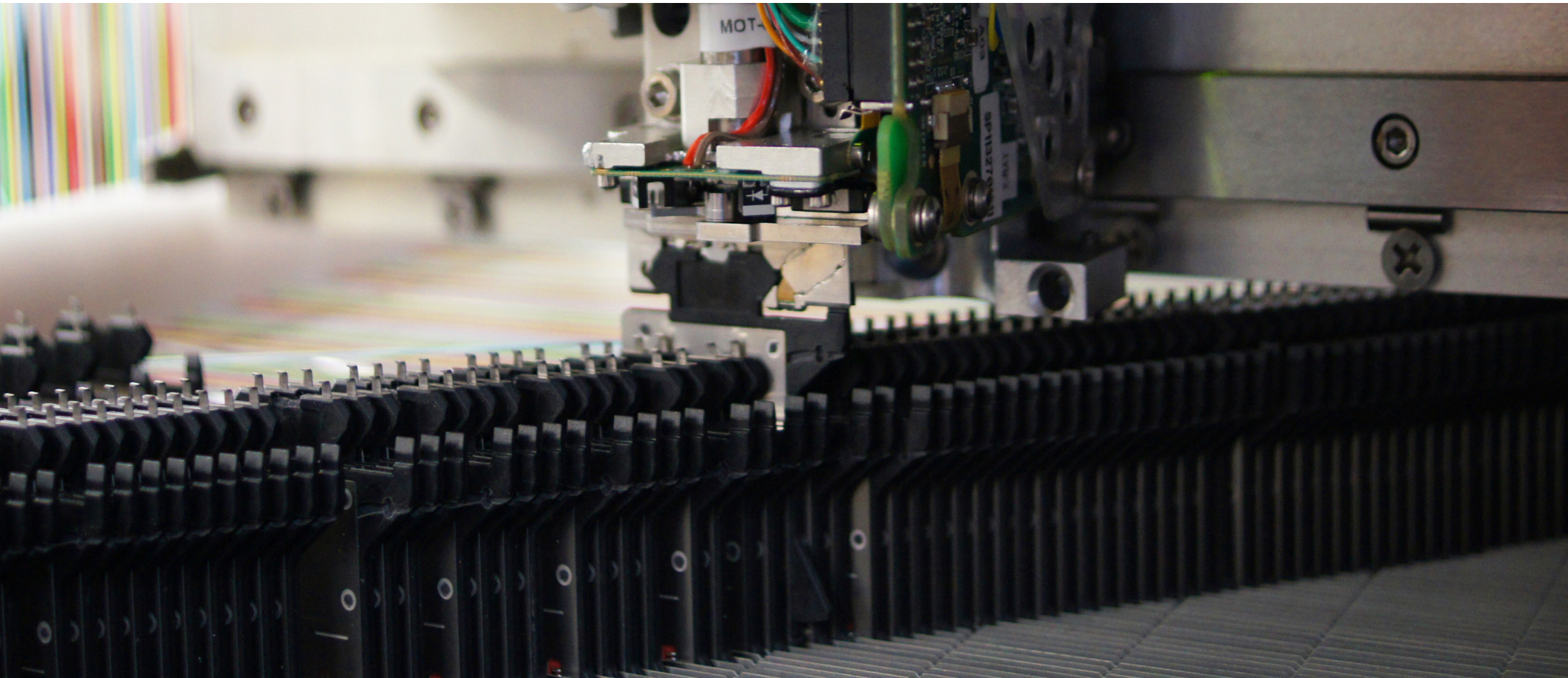
It is innovation that brings in new capabilities!

WAVE 2 WAVE
Connect for Life
ROME
ROBOTIC OPTICAL

Fiber Connectivity in Precision Motion

Connect Precisely

With ROME, network connections can be created anytime and anywhere. In fact, ROME's patented mechanical latching technology and fiber management fine tunes these connections to be as precise, stable and reliable as possible.

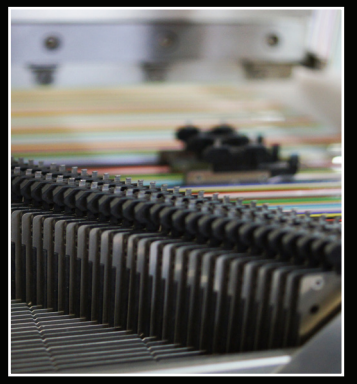


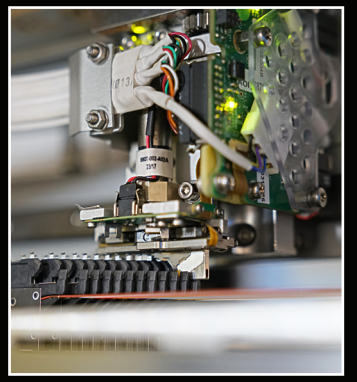
ROME

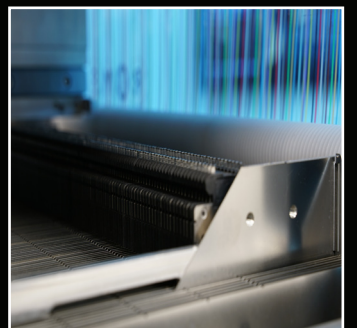
ROBOTIC OPTICAL ENGINE®

ROME brings accuracy and consistency to the fiber connectivity fabric, eliminating human error and variability.

It is optical laser sharp!







Actions | Connections | Alarms

mmander | Embedded | Connect | A | A Port name | with | A | A Port name

onnection Id	Command Id	Action	Description	Priority	Waiting Reason	Creation Date	Lifetime	State	Link Id	User Name	Scheduled Com...
ilter Connection Id	<Filter Command Id>	<Filter Action>	<Filter Description>	<Filter Priority>	<Filter Waiting Reasc	<Filter Creation Date	<Filter Lifetime>	<Filter State>	<Filter Link Id>	<Filter User Name>	<Filter Scheduled Co
25	36	Manual connect	Connect port B 209 ..	20	Executing	2019/Mar/20 11:36 ..	2 days, 23 hours, 5...	Ready		root	No
26	37	Manual connect	Connect port A 38 t...	20	Waiting for execution	2019/Mar/20 11:36 ..	2 days, 23 hours, 5...	Reserved		root	No
27	38	Manual connect	Connect port B 212 ..	20	Waiting for execution	2019/Mar/20 11:36 ..	2 days, 23 hours, 5...	Reserved		root	No
28	39	Manual connect	Connect port A 7 to...	20	Waiting for execution	2019/Mar/20 11:37 ..	2 days, 23 hours, 5...	Reserved		root	No

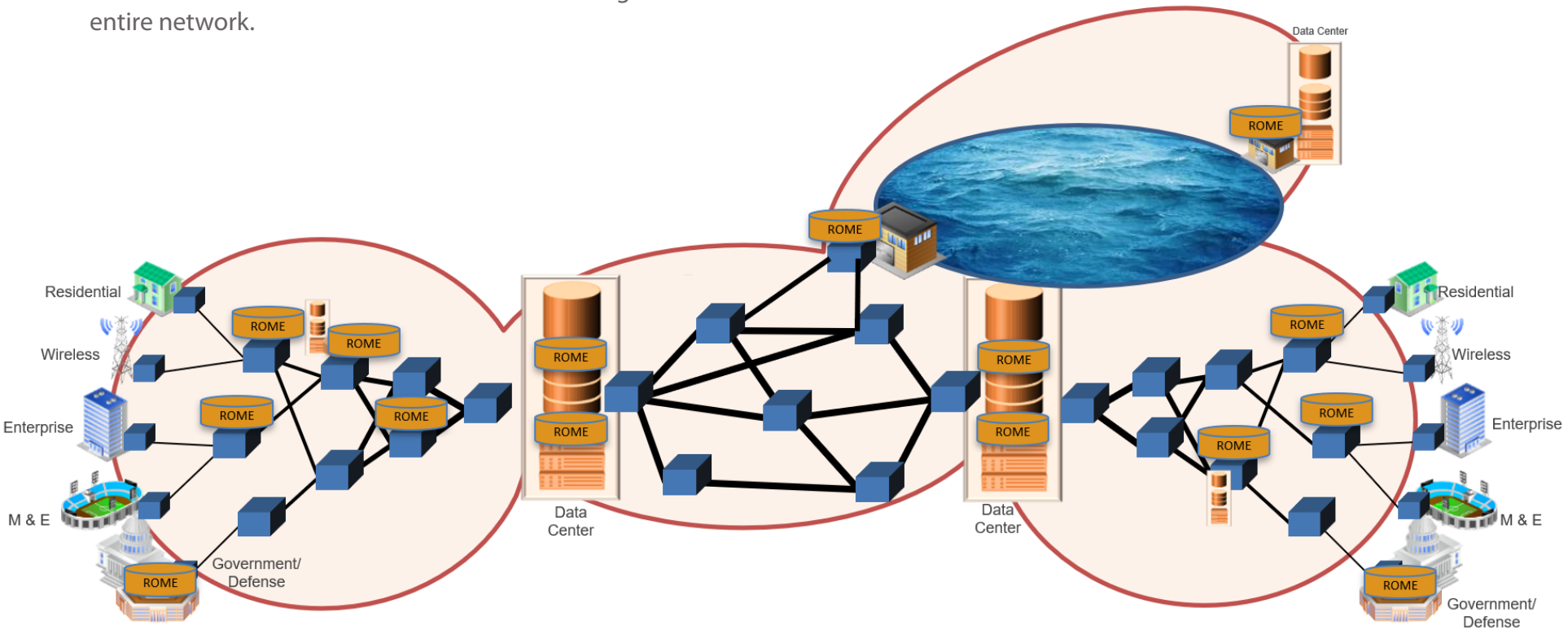
Virtualized Physical Network

ROBOTIC OPTICAL ENGINE®

It's Software Defined

Automating manual tasks with robots in the Layer-0 connectivity brings the future dream to reality today.

ROME enables SDN functions and network management for the entire network.



Network operators are enabled with global virtualized connectivity

ROME 500

ROME 500 Robotic Fiber Switch

Core 11RU platform with 512 fibers, a dual matrix, unibody chassis and the patented latching technology. The ROME 500 has been implemented in Telcos, Data Centers and Test Labs around the world. Available in Single Mode or Multi-mode with LC or MTP style connector modules, as needed.

Single Mode or Multi-mode

WAVE 2 WAVE
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ROME
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ROME Q Series

MPO High Density Robotic Fiber Switch

The Q Series was designed for high density connectivity, leveraging the MPO-style connector. Each port can accommodate an 8 strand fiber QSFP port. It is available in Single Mode or Multi-mode in the 64Q (64 QSFP ports), or the 128Q (128 QSFP ports). Those with higher bandwidth network requirements (Example: 100Gb) can connect using a standard MPO connector.

ROME 64Q

ROME 128Q

ROME MAX Series

ROME MAX High Capacity Robotic Fiber Switch Series

The Max Series was designed for high capacity connectivity, leveraging a full rack footprint. Each unit eliminates the need for a CLOS architecture design, which enables network operators to save time and money in their network implementation. The MAX-T switch has a deep 1200+ fiber footprint. All device connections can be made from a single patch panel.

ROME MAX

ROME MAX^{T}

MAX T

ROME Family

Configurations to Fit Any Application

The ROME series of robotic fiber switches offers a full suite of automated Layer-0 solutions for Telco, Data Center and Technical Lab operators. With its purely optical latched connection matrix, low insertion loss and software integration capabilities, the ROME platform enables evolving networks to scale, adapt and connect seamlessly, while reducing costs associated with poor device utilization, SLAs, OPEX and CAPEX. Multi-mode and Single Mode options are available for all products.

ROME
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ROME 500

- 512 Fiber Connections SM or OM4
- Duplex Tandem Any to Any, Duplex Any East to Any West
- LC PC/UPC Duplex Patch Panel Interface

ROME 64Q

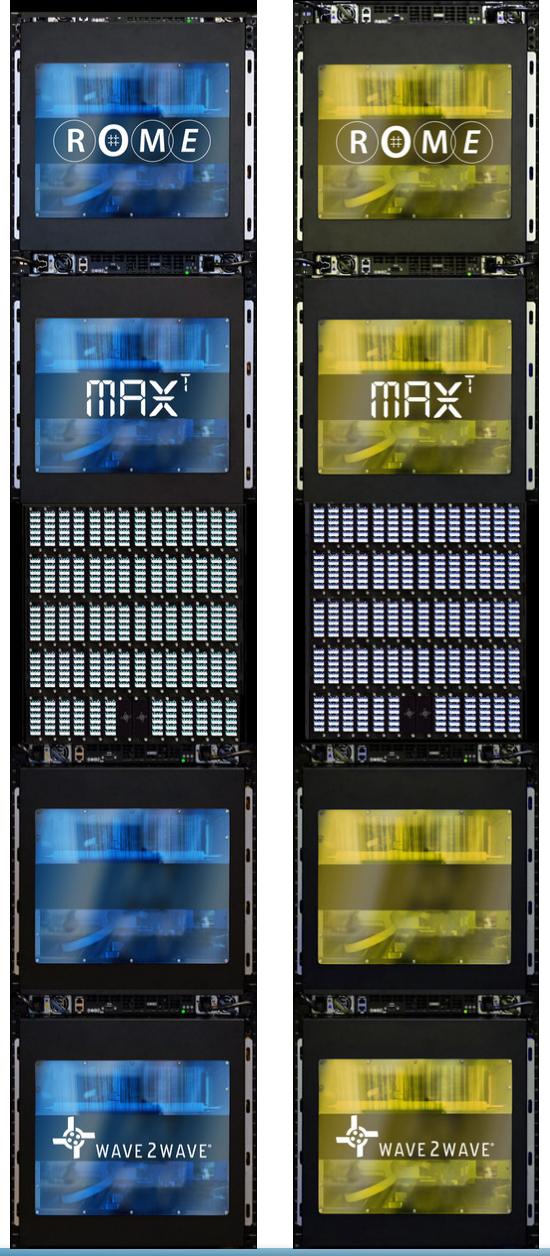
- 512 Fiber Connections SM or OM4
- 8 Fiber Any to Any
- MPO Patch Panel Interface

ROME 128Q

- 1,024 Fiber Connections SM or OM4
- 8 Fiber Any to Any
- MPO Patch Panel Interface

ROME MAX

- Up to 1,600 Fiber Connections SM or OM4
- Built-in CLOS Design
- LC PC/UPC Duplex Patch Panel Interface



ROME MAX^{T}

- Up to 2,000 Fiber Connections SM or OM4
- Built-in CLOS Design
- LC PC/UPC Duplex Patch Panel Interface

It's a Game Changer

Lights-Out Data Centers

• Robotic Patching, 100% accurate recordkeeping, zero human touch

Automated Optical Distribution Frame (ODF)

• Provisioning in minutes vs. days or weeks, service restoration immediate

Submarine Fiber Landing Station Automation

• Ultra long haul dark fiber management, true network visibility

Data Center Bandwidth on Demand

• A la carte for data center customers, the "AWS" for physical connectivity

Physical Network Security

• Achieving zero trust network, removing physical human dependency

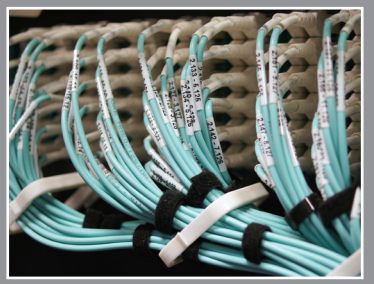
All Roads Lead to ROME

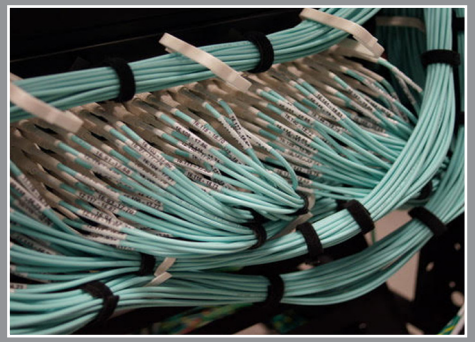
ROME enables dynamic physical connections by introducing “a central station” to the network.

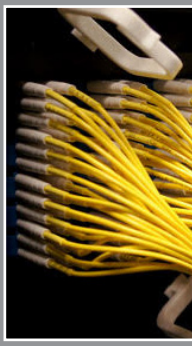
Todays network is physically point to point - linked by a cable. ROME allows the physical network to become a “cloud” - where any device or resource is accessible and configurable.

ROME offers cost efficiency, scalability and manageability.

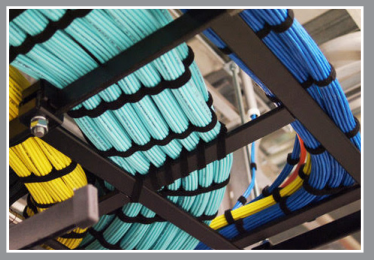
Networks are now future-proof.







It’s the new network!



FiberSmart

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