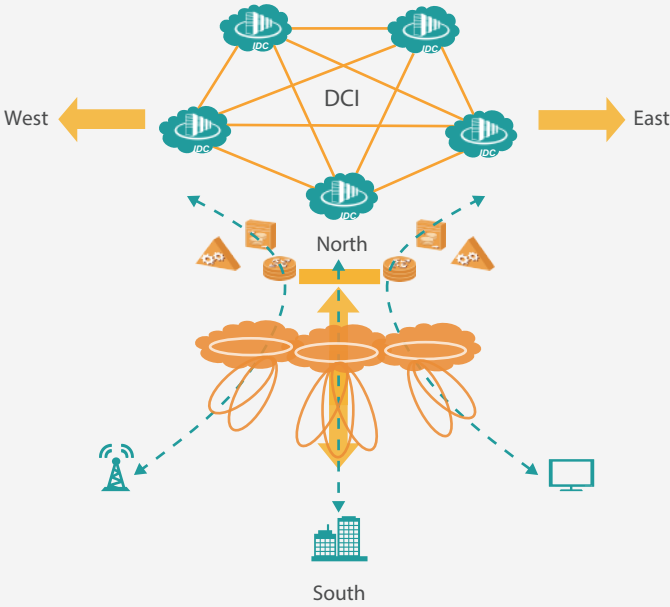


Huawei ISP DCI Solutions in the Cloud Era

Cloud Services Drive DCI Architecture Transformation

- ◆ Cloud services have caused both inter-DC interconnection traffic and the east-west traffic among data centers (DCs) in the same city to rise dramatically. Network architecture has transformed from aggregation architectures to DC-centric.



What Challenges Face DCI?



◆ Increased Fiber Rental Costs

- Traffic between DCs increases as CAGR > 30%.
- DCI consumes fiber resource rapidly.
- Large numbers of fibers are difficult to manage.



◆ Higher Performance Requirements

- Encryption affects the forwarding speed.
- Latency is higher compared to traditional solutions.



◆ Incompatible with the O&M Practices of Traditional WDM Equipment

- Open interfaces are not supported.
- DC-friendly installation is not supported.



◆ Growing Energy Consumption

- Power dissipation in data centers has increased five-fold in the past 10 years.
- The cost of running devices higher than 1 U has doubled in the past 10 years.

What Benefits Does DCI Bring?



Large Capacity



Low Latency

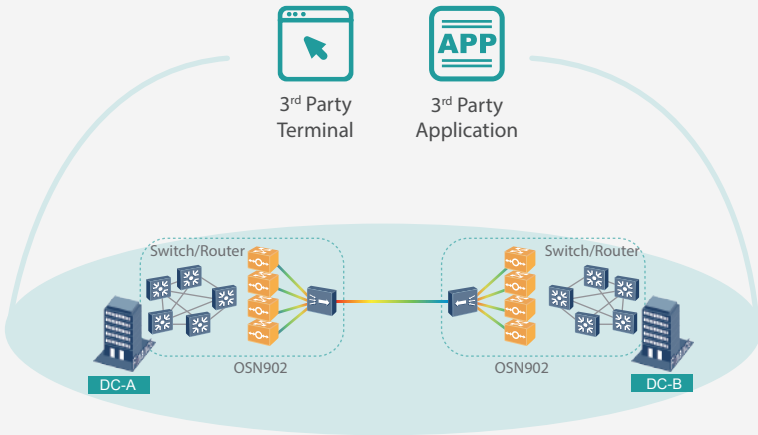


Smart Platform



High Integration

Huawei's DCI Solution



◆ Large Capacity and High Security

- 100G/200G/400G programmable
- 20+ Tbit/s over a pair of fibers
- Layer 1 line rate encryption



◆ Open Platform and Smart System

- Multiple open interfaces available for secondary development by DCI users
- E2E service provisioning reduced from 4 weeks to 30 minutes
- Low latency and supports latency optimization

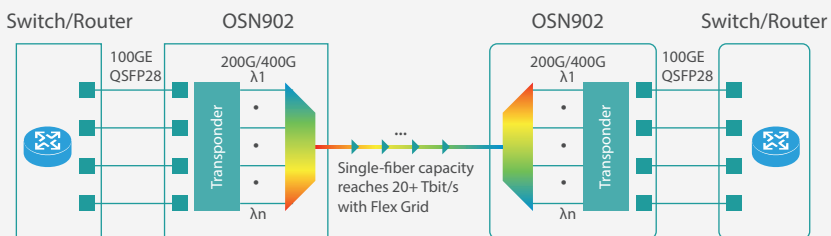


◆ High Integration and Easy O&M

- Industry-leading power savings, < 0.5 W/Gbit
- High integration with up to a 50% smaller footprint
- Part replacement within 15 seconds
- Constant product supply and fast delivery

Large Capacity and High Security

◆ Ultra-High Bandwidth



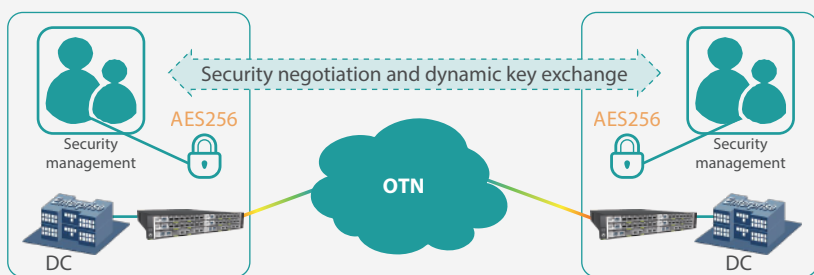
Values

Huge bandwidth
One pair of fibers = **20+ Tbit/s**

One hop
Low latency

Simplified topology
Saving **75% OPEX**

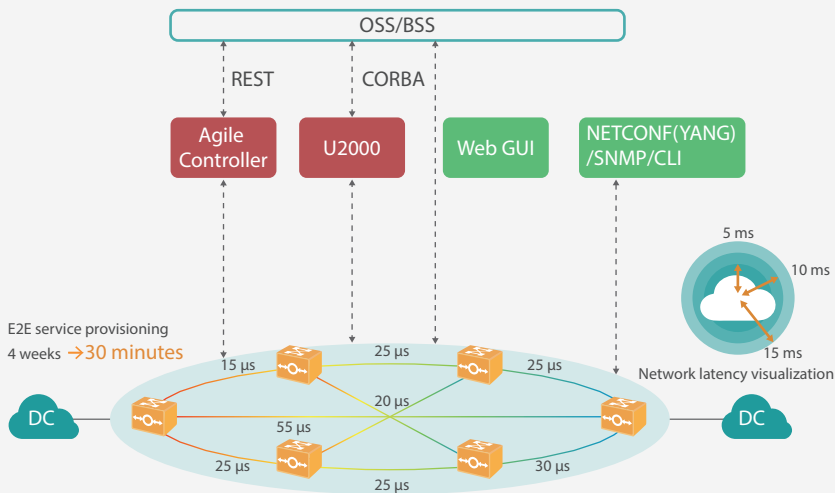
◆ High Security Encryption for Special Business



- Diffie-Hellman algorithm for key exchange
- E2E security management
- Line rate encryption, low latency, and service protection against attacks

Open Platform and Smart System

◆ Smart E2E Service Management



Open System & Fast Service Provisioning

High Integration and Easy O&M

◆ Full Adaptation to DC Environments

High Integration

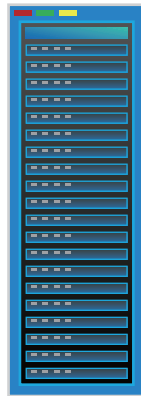


OSN902

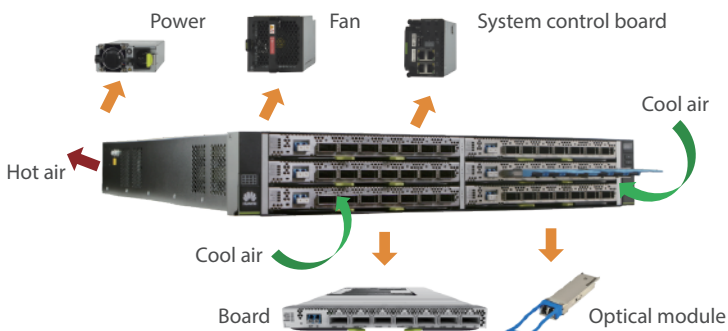
- 2 U high, 6 slots
- 200G/400G per slot
- 2.4T per chassis
- Power consumption < 0.5 W/Gbit

Modularity
stackable

48T
per rack



Easy Installation



- Hot pluggable modules
- Replace parts within 15s
- Front-to-rear cooling

◆ Constant Supply and Fast Delivery



Quick Manufacturing

- Modularized materials allow for efficient manufacturing.
- Huawei's coherent optical modules account for over 30% of shipped modules, making them No. 1 in the world.



Configuration-Free

- All modules are plug-and-play.
- No configurations are required. Services are provisioned as soon as the module is powered-on.



Fast Delivery

- All modules are configured prior to order.
- 5 supply centers around the globe ensure delivery within 2 to 7 days.

Product Family



OSN902



Dimensions (H x W x D) (mm)	86.1 x 442 x 600
Capacity	2.4T
Service Slots	6
Service Type	10GE, 40GE, 100GE
Line Rate	100G, 200G
Power Supply	AC, HVDC

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