

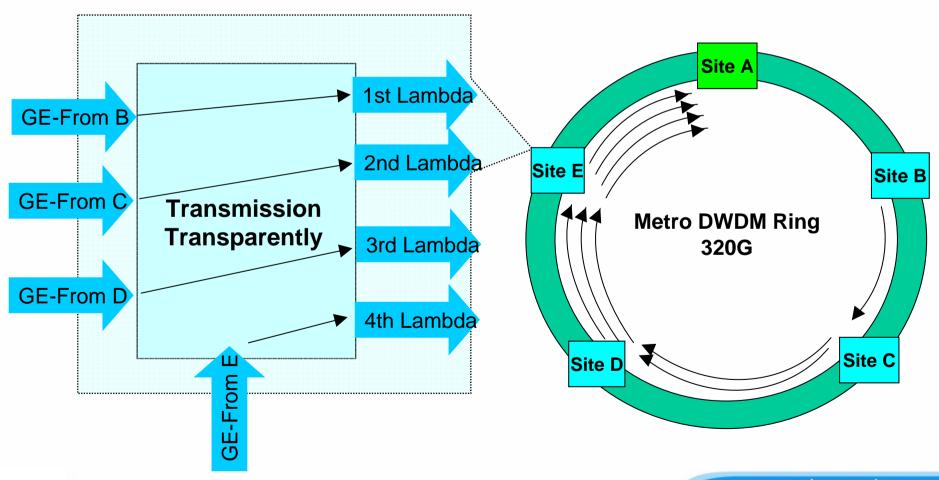
You Profit Our Goal



Huawei Confidential Common GE Solution-Over WDM



- Advantages: Provide huge capability with low cost.
- Disadvantage: A fixed network with a lot of lambdas and amplifiers. it is not convenient to increasing service

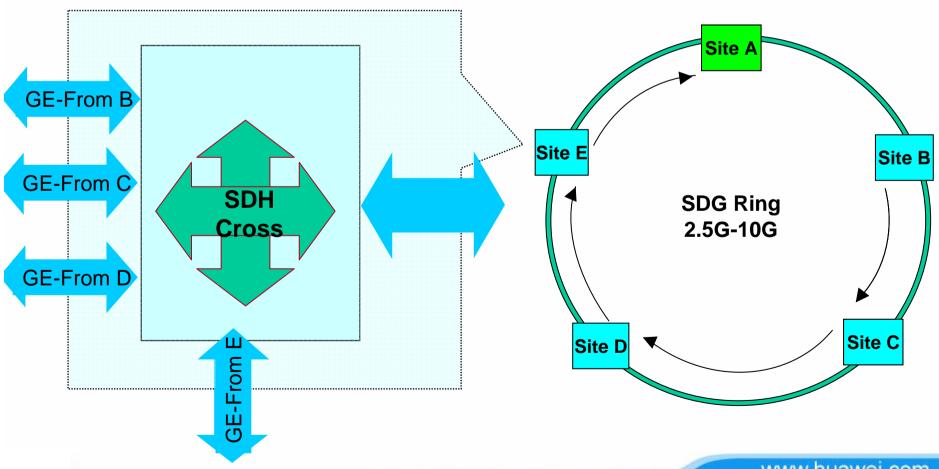




Huawei Confidential Common GE Solution-SDH



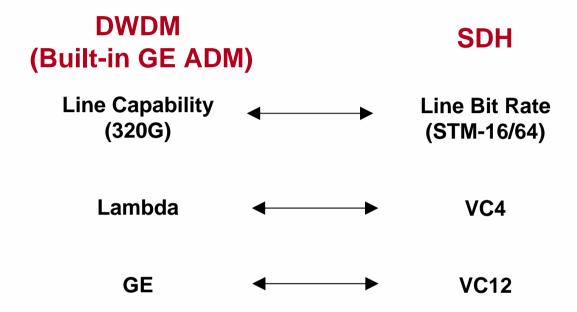
- Advantage: Dynamic network.
- Disadvantage: capability is limited. SDH is costly due to its design for TDM. It is not fit for providing a cheap GE transmission solution. It is suitable for private line or network.





Huawei Confidential GE ADM VS SDH ADM





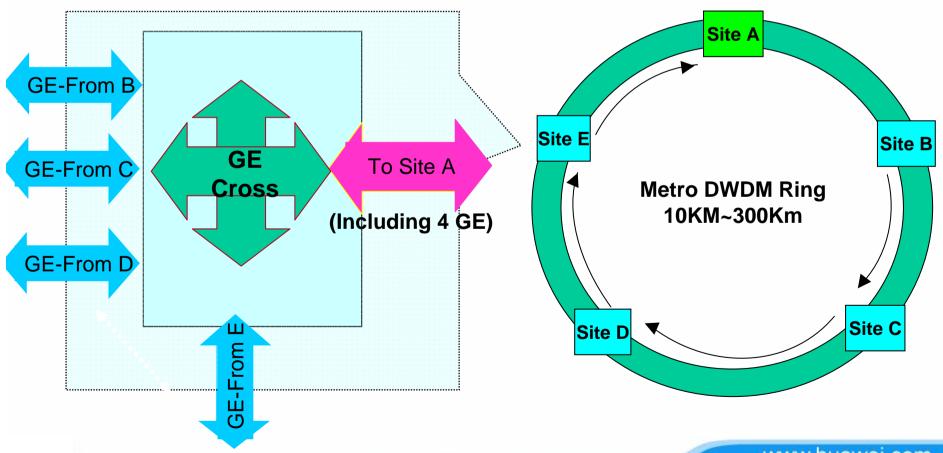
In function, **GE in DWDM** is similar to **VC12 in SDH**, **Lambda in DWDM** is similar to **VC4 in SDH**. **Line capability in DWDM** is similar to **the line bit rate of SDH**



Huawei Confidential Industry-unique X-GE ADM Solution



- Huawei X-GE solution combines the advantages of common DWDM solution and SDH solution.
- Supporting sub-lambdas glooming. Providing a dynamic GE solution with low cost.
- It bases on GE ADM with 5G/10G line capability granularity. The maximum capability in line can be up to 320G.
- Saving lambdas





Huawei Confidential GE ADM Features-Summary



- A built-in unit in Metro DWDM
- GE ADM with GE glooming function
- An innovative Ethernet solution
- Transparent transmission



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OptiX Metro6100 Overview





Metro 6100

- **★**32 wavelengths
- **★**Up to 320G capacity
- **★**Flexible networking
- **★** Smooth scalability
- **★** Cost-effective solution
- ★ Multiple protection mechanism choices
- **★** Convenient OAM system design and easy networking OAM
- Rack Dimensions:

600mm (W) \times 300mm (D) \times 2200mm/2600mm (H)

- A single rack accommodates: 3 sub-racks
- DWDM & CWDM Compatible



Huawei Confidential OptiX Metro6040 Overview





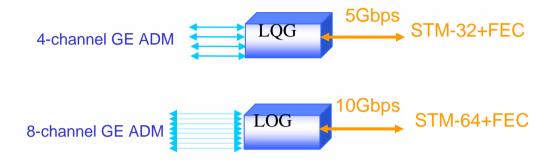
436mm (W) X 305mm (D) X 220mm (H)

- Flexible in power supply
- Flexible OADM design
 - 4 wavelengths for one box
- 32 wavelengths (DWDM) or 8 wavelengths (CWDM) added /dropped by equipment concatenation.
- Flexible Installation
 - Wall, Desktop, Rack mount (19" or 23", ETSI)
- DWDM & CWDM Compatible
- **◆All kinds of OTU are compatible with Metro6100**

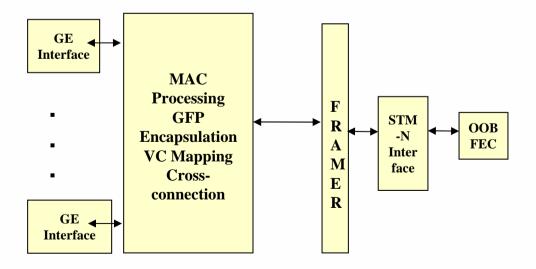


Huawei Confidential Introduction of Service Board





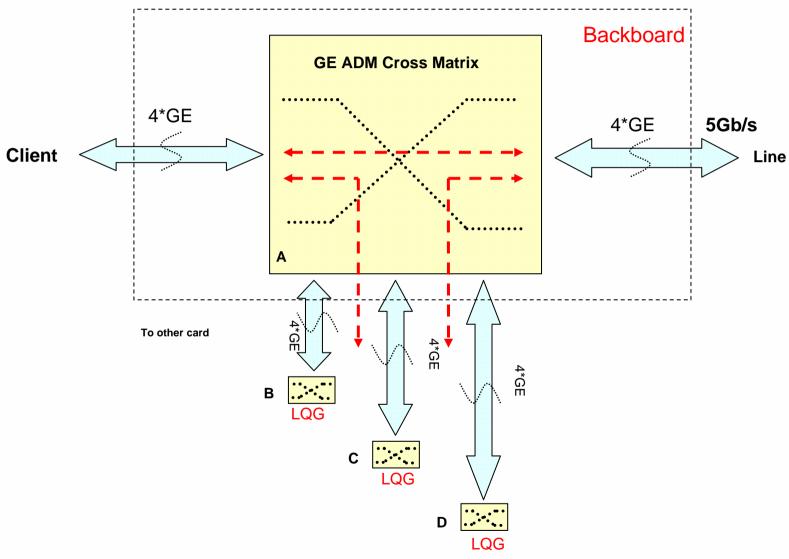
Flow Chart of Internal Service (inside the board)





Huawei Confidential GE ADM Cross Matrix Unit



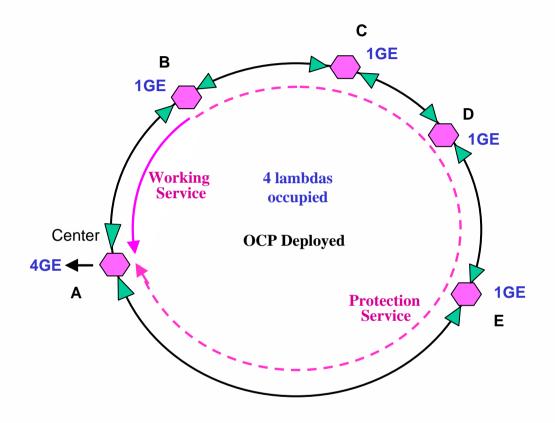


Note: A, B, C and D represent OTU boards in different positions



Huawei Confidential Example (Without GE ADM)





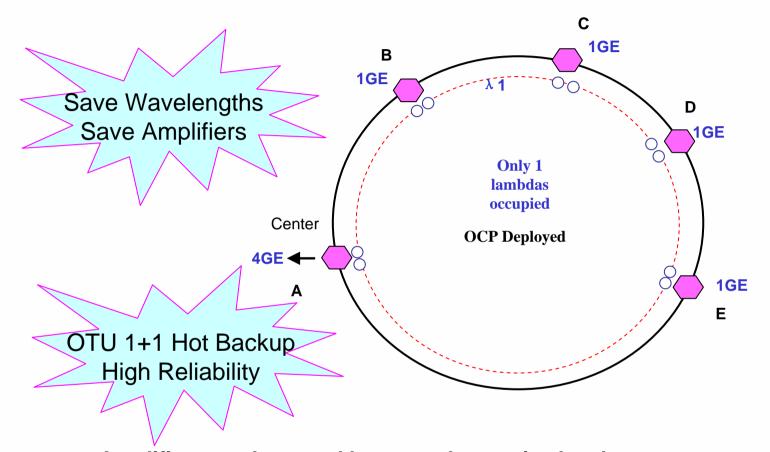
The Protection service should cross three sites so that it need several amplifiers.





Huawei Confidential **Example (With GE ADM)**





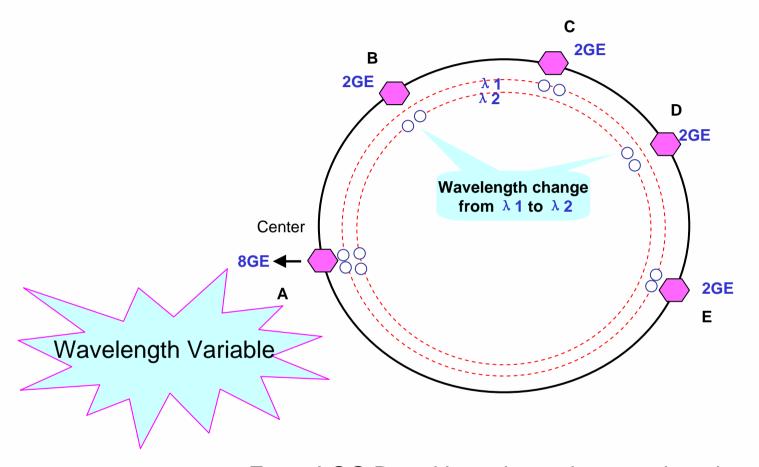
Amplifiers can be saved because the service has been regenerated in every site. Just like the SDH ring.





Huawei Confidential Network Expansion





Every LQG Board has alternative wavelength Support SFP interface (Small Factor-form Pluggable)

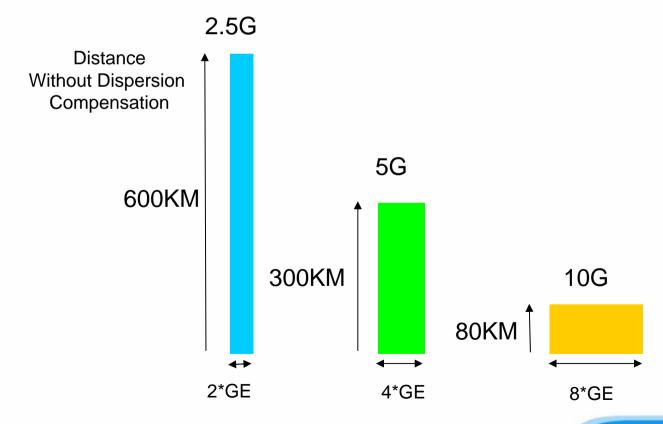




Distance of Transmission for Huawei X-GE



- Low cost at Line, full potential transmission and best transmission efficiency.
 - Cost=distance * capacity
 - Focus on metro character, reach the balance of line capacity and transmission distance, providing 128~256*GE,





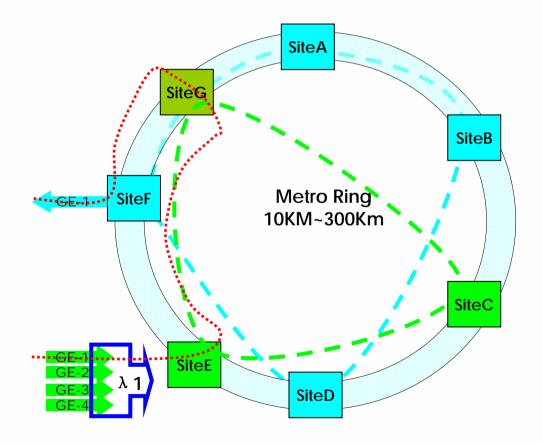
Huawei Confidential End to End Service





Quickly provide E2E service.

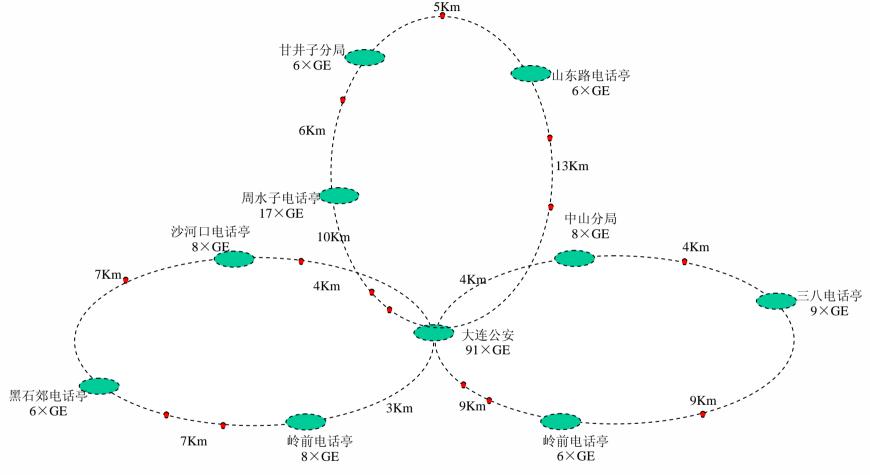
- Traditional WDM provide point to point multiplex, while X-GE solution provide End to End multiplex.
- 6 Adding and deleting sudden services timely, without any impact to other services.





Huawei Confidential Da Lian Metro DWDM Network in China





Da Lian Metro WDM case: Centralized service model, 91*GE will be terminated at the POP site, 46 LDG and two separate equipments are needed. When LQG or LOG are used, only one equipment is needed.

业务站

跳纤站



Huawei Confidential GE ADM solution



