

ICCP extension for the MSP application

draft-hao-pwe3-iccp-extension-for-msp-00

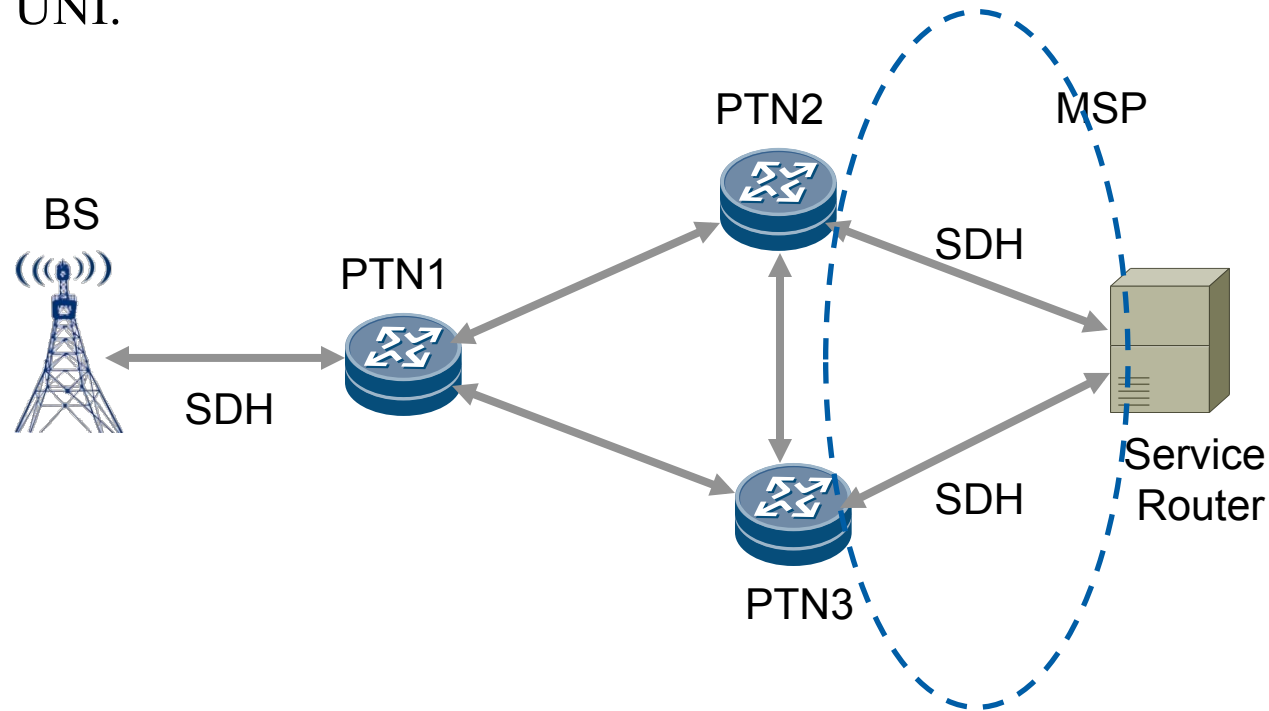
Presenter: Yuxia Ma

Author: Hongjie Hao

Background

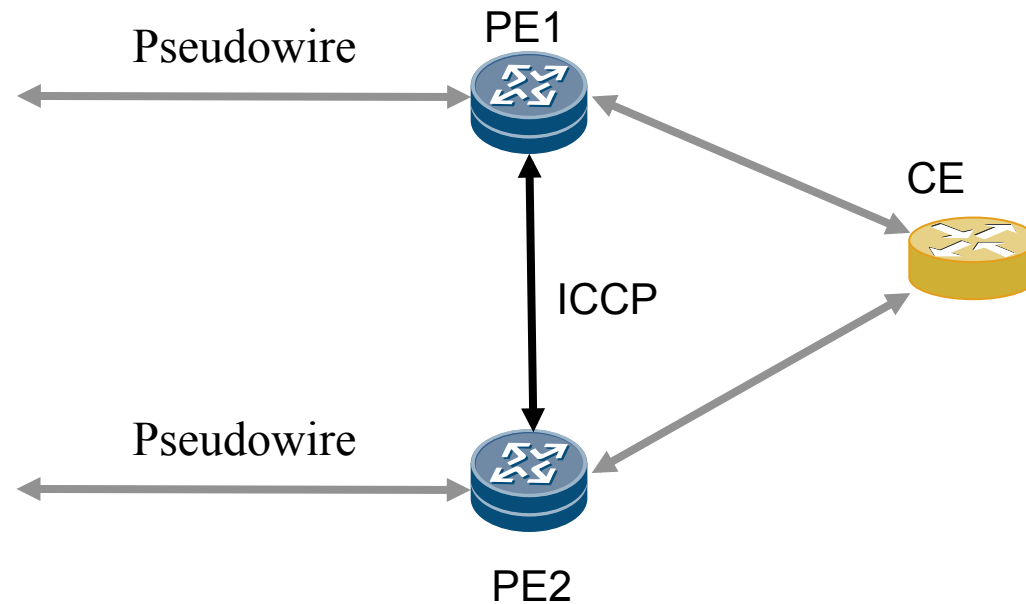
Sometimes the SDH and Packet Transport equipments are co-existed in the mobile backhaul network, to achieve a smooth migration from SDH to Packet Transport network. The figure below depicts the scenario.

The Multiplex section protection protocol(MSP) is used to protect the side of UNI.



Problem statement

- The network between PE and CE is SDH network. The PEs and CE run the configuration data between the PEs. ICCP is the exact tool to do the synchronization. The network between PE and CE is SDH network. The PEs and CE run the



Problem statement (cont)

set of two or more PEs forming a RG. It provides reliable message transport and in-order delivery between nodes in a RG with secure authentication mechanisms built into the protocol.



multi-chassis LACP application TLVs. These TLVs are not included in the ICCP draft specified the pseudowire redundancy application TLVs and message of MSP application. This draft extends the ICCP TLVs to support the MSP application. This draft extends the ICCP TLVs to support the MSP application.

The extend TLVs (1)

Application TLVs are :

-
- Establish the MSP application connection
MSP Disconnect TLV
- MSP Port Config TLV
Synchronize the configuration of local port, such as role, port name etc.

The extend TLVs (2)

MSP Link State TLV

Synchronize the link state of local node, such as SF, SD

- MSP Switch Command TLV

Synchronize the local node's switch command , such as manual switch, forced switch, clear etc.

- MSP Group State TLV

Synchronize the state of protect group, such as WTR, no request, manual switch etc.

- MSP Synchronization Request TLV

Request to retransmit the configuration and state

- MSP Synchronization Data TLV

Response the synchronization request TLV

Comments from the list

Thanks for the comment from Stewart:

- “The scenario looks similar to Figure 1 in the ICCP draft. Please can you clarify the problem in the ICCP draft that you are addressing.”

■ Answer

- Figure 1 in the ICCP draft described the generic multi-chassis

application TLVs. This draft extends the TLVs to achieve the MSP application .

Next step

Looking forward to seeing more comments!

Thanks