# Question 5

What should be the minimal configuration of the Joining Link with regard to:

### A. Trunk groups

The number and type of separate trunk groups between Swisscom and the PTS

#### **B.** Distance between ducts

The minimum distance between ducts to support the Network Joining Service

#### C. Connect to 1 or 2 Access Points

The minimum number of Swisscom Access Points the PTS must connect to in an Access Area

# A. Trunk Groups

- Is it necessary to have two separate both-way trunk groups.
  - one for traffic forecasted by Swisscom
  - one for traffic forecasted by PTS
- Swisscom to investigate whether billing processes are able to accommodate single trunk group for all traffic

## B. Distance between ducts

- Previous standard offer required a minimum of 5 meters separation between Network Joining Links connecting an operator's network to each of a pair of Swisscom Access Points
- Swisscom standard offer changed
- 5 meters now specified as 'target' minimum separation between Network Joining Links
- Separation able to be jointly reviewed by Swisscom and PTS on a case by case basis.

## C. Connect to 1 or 2 Access Points

Main discussion point:

Should connection to a pair of Access Points be required when the pair of switches are located in different cities

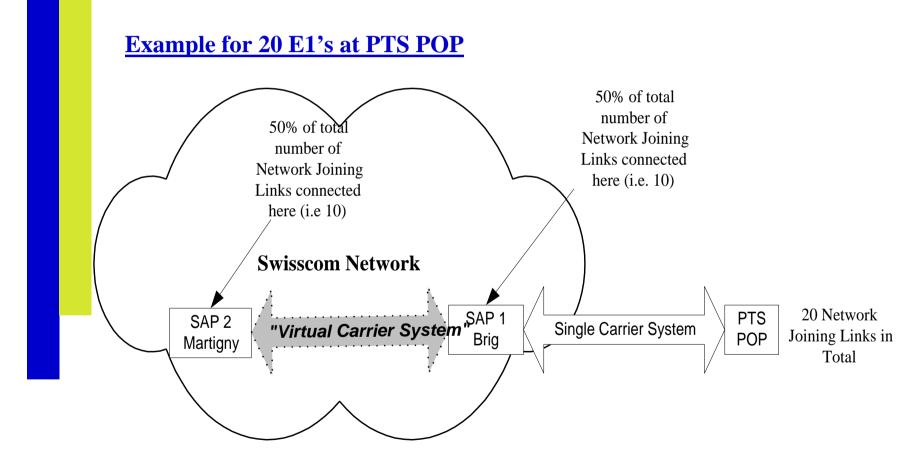
Swisscom's solution:

Swisscom Managed Network Implementation Service

## Swisscom Managed Network Implementation Service

- An optional service offering a Single Carrier System connection.
- Pricing is market oriented rather than cost based
  - Not a regulated service
- Only offered where Access Pairs are not close together
  - Available in 11 of the 18 Access Areas
- A 'Virtual Carrier System' used to connect between the Swisscom Access Switches.
- Maximum of 31 Joining Links to each Access Switch for Managed Network Implementation Service

### Swisscom Managed Network Implementation Service



## SAP's where Managed Network Implementation Service Offered

Area	SAP 1	SAP 2
2	6500 Bellinzona	6932 Breganzona
4	2502 Biel	4500 Solothurn
6	1630 Bulle	1700 Fribourg
10	2300 Le Chaux-de-Fonds	2000 Neuchatel
11	5000 Aarau	4600 Olten
12	8867 Niederurnen	8640 Rapperswil SG
13	9000 St. Gallen	9500 Wil SG
14	3900 Brig	<b>1920</b> Martigny
15	3800 Interlaken	3600 Thun
16	8245 Feuerthalen	8400 Winterthur
18	5400 Baden	5610 Wohlen AG

# Network Security

- Concern about network security in case of failure of Single Joining Link
- Swisscom likely to offer a Network Rerouting Service as part of a family of protection services commercially offered to PTS's.