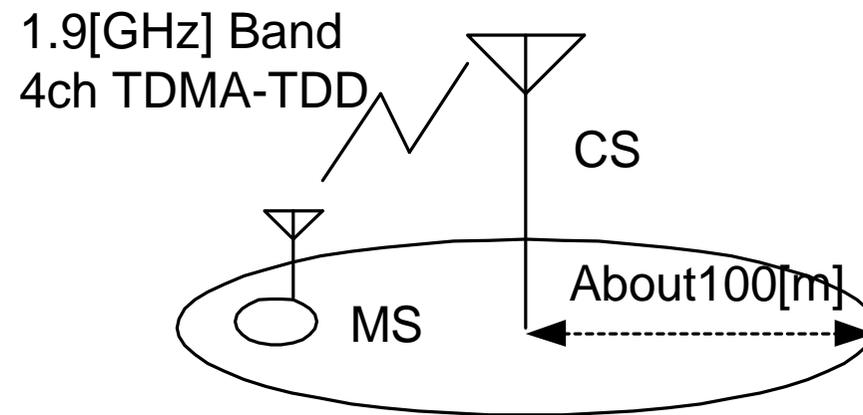


# Overview of PIAFS

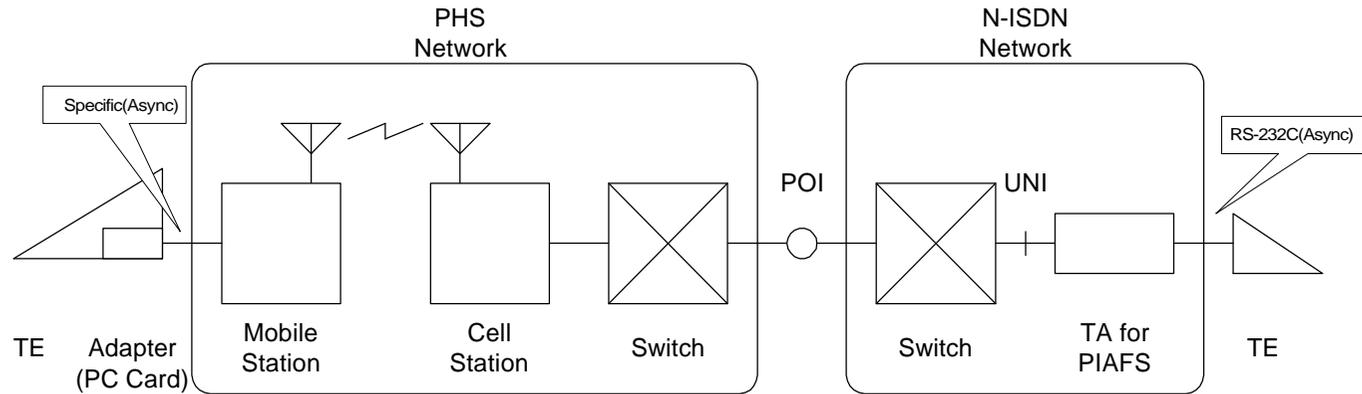
- PIAFS: PHS Internet Access Forum Standard
- PIAFS is a CS type of data protocol using PHS and specified by ARIB.
- PHS: Personal Handy phone System
- PHS is similar to DECT.

# Abstract of PHS

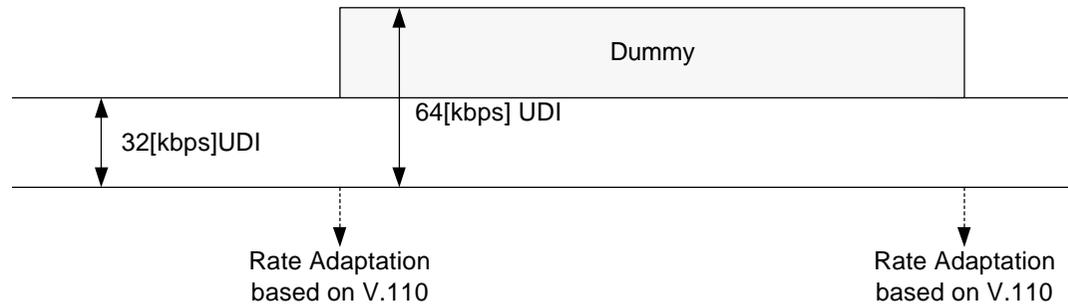


# Configuration and Others

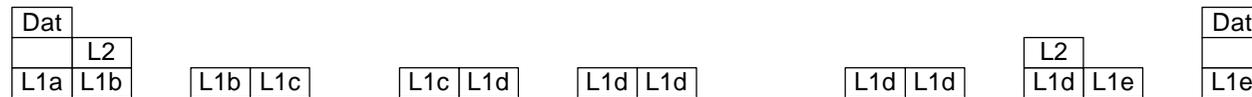
Configuration



User rate



Protocol stack for U-Plane



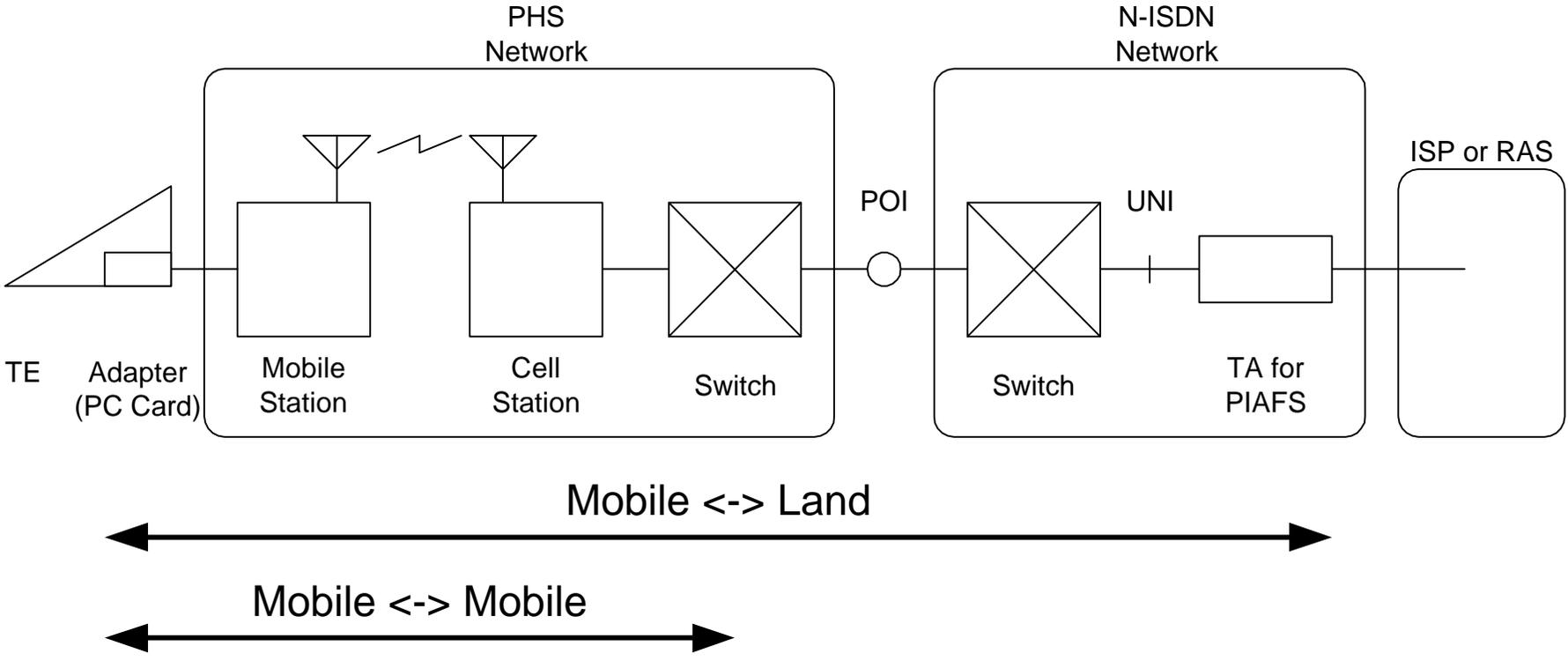
C-Plane: LLC in L3 is used.

Dat: User data such as PPP

# Feature of L2

- Selective repeat type of retransmission
- Flow control
- Data compression(V.42bis)
- Initial negotiation of parameters such as Round Trip Delay
- Frame length is 640[bits]
- Maximum throughput is 29.2[kbps]

# Usage



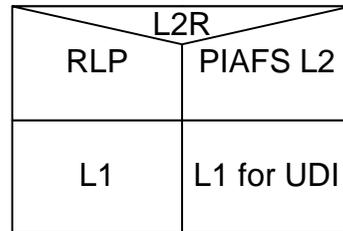
# Reason for supporting PIAFS in UMTS

- Connection between PHS-MS and UMTS-UE; PHS and PIAFS is popular in Japan.
- Connection between UMTS-UE and existing TA for PIAFS; TA for PIAFS is also popular in Japan.
- Number of PHS user now reaches 5780000. About 10[%] of PHS user uses PIAFS.

# Assumed treatment of PIAFS in UMTS CN

## U-Plane

NT service is applied. Configuration of IWF is similar to other NT type of IWF. See following figure. L1 for UDI performs rate adaptation based on V.110.



IWF

## C-Plane

Some identifier that can identify IWF for PIAFS is needed.