SDH

Services description

SDH is an ISO OSI Layer-2 SERVICE, which is based on standardized multiplexing protocols and allows the transfer of multiple synchronous digital bit streams over optical fiber or via an electrical interface at low transmission rates

Service	Description	
Nx64	N x 64 Kbps	
E1 / T1	2 Mbps	
E3 / T3	34 Mbps	
STM-1	155 Mbps	
STM-4	622 Mbps	
STM-16	2.5 Gbps	
STM-64	10 Gbps	
STM-256	40 Gbps	

Features

- Low latency
- Predictable QoS
- Nx64 Kbps to 10 Gbps
- Standardized
- Reliable
- Manageable
- 100% utilizable
- Optimal price

Sample applications

- Line services (Point-to-Point):
 - o LL
 - o EoSDH

Synonymous service names

SONET

RFI/RFP input details

- Service type/protection/duration
- Services and port peed
- UNI location (city, street, etc.)
- Contact person (name, mobile phone, E-mail)

Service Provisioning process

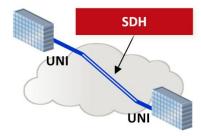
• Inquiry > Quotation > Order > Provisioning

To place an order/request for information, please contact

Phone +359 (2) 490 3211
E-mail sales@telehouse.bg
Internet www.telehouse.bg

• Address Ovche Pole 122 str., fl.2, Sofia 1303, BULGARIA

SERVICES DIAGRAMS



Service elements

- Service: duration, protection type
- Ports: number, speeds, physical locations
- VC: number and speed

Various subscriber premises delivery options

- Optical Direct fiber (main case)
- Copper Twisted-pair/COAX
- Wireless DRRL

TECHNICAL DESCRIPTION

ISO OSI – Layer-2

Protocol - SDH protocol

Network Quality Parameters

Parameter	Details	Value
Backbone availability	Per year	99.999 %
Backbone type	Ring	Dual

Applicable standards:

- ITU-T G.803 Optical
- ITU-T G.703 120 Ω balanced (TP/RJ-48)
- ITU-T G.703 75 Ω unbalanced (COAX/BNC)

Protection types:

- SNCP
- MSP
- MS-SPRings

Service Demarcation Point

- UNI
- ODF

Optical UNI interfaces:

• All applicable

Details

• Provisioning (RFS date) within 15 business days (meantime, ask for exact)

SERVICE PROVIDER BACKBONE DETAILS

- Multi-service
- Dual-ring protection
- Head-end located in the cutting-edge colocation center <u>www.TelePoint.bg</u>
- PoPs located in specialized Telco colocation facilities

GENERIC SLA

24x7 Helpdesk available with TT system Service availability 99.5%/yearly Service outage MTTR

Equipment failure

11) TeleHouse

- o Business hours: <2h
- Non-business hours: <4h
- Cable failures
 - o Business hours: <6h
 - o Non-business hours: <12h
 - Stolen cabling and natural disasters: <2 days

GLOSSARY

CPE - Customer Premises Equipment

DRRL - Digital Radio Relay Line

DS1 - Digital Signal 1

DS3 - Digital Signal 3

EoSDH - Ethernet over SDH

ISO - International Standardization Organization

LL – Leased Line

MRC – Monthly Recurring Charge

MSP – Multiplex Section Protection

MS-SPRings - Multiplex Section Shared

Protection Rings

MTTR - Mean Time to Recover

NNI – Network to Network Interface

NRC - Non Recurring Charge

ODF - Optical Distribution Frame

OSI – Open System Interconnect 7 layer model

PoP - Point of Presence

QoS - Quality of Service

RFS - Ready for Service

SDH – Synchronous Digital Hierarchy

SLA - Service Level Agreement

SNCP - Sub Network Connection Protection

SONET – Synchronous Optical Networking

TT - Trouble Ticket

UNI – User Network Interface

UTP/FTP - Unshielded/Foiled Twisted Pair

VC - Virtual Circuit