

TELESYNERGY® ISDN PRI Circuit Specifications

Enclosed are the detailed specifications for the ISDN PRI circuit that needs to be installed in your TELESYNERGY® room. These are the most common questions asked by the Telco, but if you have any questions at all please let me know. There has never been an installation when the PRI was setup correctly from the start, so please let me know if you are having trouble with the Telco, and I can contact them directly.

A single ISDN PRI circuit (23 B channels in USA; 30 B Channels in Europe) with at least 2 assigned telephone numbers. 2 telephone numbers are required because 2 customer devices share this circuit and utilize 12 and 8 B channels respectively, for a total of 20 B channels. **The PRI circuit must be configured for both dialed-in and dialed-out data traffic, with un-restricted international and long distance access on all telephone numbers.** The suggested ISDN protocol is ATT (5ESS) Custom, however the NI1 and NI2 protocols are also acceptable.

Each of the 2 devices mentioned above will independently either dial an outgoing call or receive an incoming call using their separate telephone numbers. Incoming calls must have Direct Inward Dialing (DID) meaning that the last 6-8 digits of the dialed telephone number is passed through the ISDN PRI circuit to the end devices (ring indicator is not sufficient).

One RJ-48X jack is to be installed for this circuit.

Ben Chapman

IT Specialist
Radiation Oncology Sciences Program
Radiation Research Program
National Cancer Institute

(D) 301 496 6337

(E) chapmanb@mail.nih.gov

Attribute	Value
Line Format	Extended Superframe Format (ESF)
Line Coding	Binary 8-zero substitution (B8ZS)
Switch Type	Please verify with the Telco.
Call Type	23 incoming and 23 outgoing channels
Speed	64 kbps
Call-by-call capability	Enabled
Channels	23B + D
Trunk selection sequence	Either ascending order (1-23) or descending order (23-1). Please verify from Telco.
B + D Glare	Yield
How many phone numbers CPE (Customer Premises Equipment) connected to PRI	Usually ordered in increments of 10, so 10 numbers
Software Version	Cisco 2620XM Router
Type of service	12.2(13c)
Long Distance Carrier	DID/DOD – Two Way
How many digits do you want the CO (Central Office) to send to your CPE	Your choice
Do you want caller ID	10
Number of Trunks	No
Dynamic Channel Allocation	20
Maximum number of inbound calls	Yes
Maximum number of outbound calls	20
Turn up date	20
	TBD, the trunks will need to be turned up when NCI is onsite, and has the router connected to the PRI.