

SIGNALING AND TRANSMISSION
SYSTEMS COMPATIBILITY INFORMATION
GENERAL

1. GENERAL

1.01 This section furnishes information on the compatibility of signaling and transmission systems and devices with switching circuits from a signaling standpoint.

1.02 This section is reissued to include a reference to the T2 carrier system and to the FU- and auxiliary units of the type F signaling system.

2. COMPATIBILITY INFORMATION

2.01 All compatibility drawings and their associated practices are listed under "DESCRIPTION" on Page B1 of the attachment.

DWG	CD	DATE	APPD
ISS	ISS	ISSUED	M.R.
9	9	6-23-71	R.H.G.
			R.M.

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1N99
COMMON SYSTEMS

SIGNALING AND TRANSMISSION
SYSTEMS

SIGNALING COMPATIBILITY
WITH SWITCHING CIRCUITS
AT+TCO STANDARD

BELL TELEPHONE LABORATORIES
INCORPORATED

SD-99421-01-A1
ISSUE 9

PRINTED IN U.S.A.

3 PAGES

DESCRIPTION

THIS SD DRAWING TOGETHER WITH ITS RELATED HIGHER NUMBERED DRAWINGS, SD 99421-02 ETC., COVERS THE SIGNALING COMPATIBILITY OF SIGNALING AND TRANSMISSION SYSTEMS WITH SWITCHING CIR-

CUITS. THERE IS ONE SUCH SD FOR EACH TRANSMISSION SYSTEM, SIGNALING SYSTEM, OR TRANSMISSION DEVICE. EACH SD IS ALSO PUBLISHED AS A BSP TO PROVIDE A WIDER DISTRIBUTION. THE SD'S AND BSP'S SO FAR ISSUED IN THIS SERIES ARE AS FOLLOWS:

COMPATIBILITY DRAWINGS AND PRACTICES

SD	BSP	TITLE
99421-02	179-100-302	T- CARRIER SYSTEM D1 CHANNEL BANK
99421-03	179-100-303	V4 REPEATER
99421-04	179-100-304	TYPE E SIGNALING SYSTEM
99421-05	179-100-305	E-TYPE REPEATERS
99421-06	179-100-306	TYPE F SIGNALING SYSTEM FW- UNITS
99421-07	179-100-307	T- CARRIER SYSTEM D2 CHANNEL BANK
99421-08	179-100-308	TYPE F SIGNALING SYSTEM FU- AND AUXILIARY UNITS

PURPOSE

NEW SIGNALING AND TRANSMISSION SYSTEMS AND DEVICES ARE PRIMARILY AIMED AT REDUCING THE COST OF TRUNK FACILITIES, IMPROVING TRANSMISSION, OR EXTENDING RANGE. THEY HAVE THE POTENTIAL FOR CONNECTING TO HUNDREDS OF TYPES OF SWITCHING CIRCUITS. IN THE INTEREST OF ECONOMY THEY OFTEN PROVIDE SIMPLE SWITCHING FUNCTIONS BUT MAY BE LIMITED IN THEIR ABILITY TO ACCEPT THE WIDE RANGE OF DC SIGNALS PRESENTLY IN USE OVER TRUNK FACILITIES. FOR SUCH A SIGNALING OR TRANSMISSION MEDIUM, INFORMATION IS REQUIRED FOR EACH OF HUNDREDS OF SWITCHING CIRCUITS AS TO WHETHER THE SWITCHING CIRCUIT AND THE SIGNALING-TRANSMISSION MEDIUM WILL FUNCTION TOGETHER SATISFACTORILY AND WHAT SWITCHING CIRCUIT OPTIONS, IF ANY, ARE NECESSARY. WHEN RANGES ARE

AFFECTED, THE NEW RANGES MUST BE STATED. IT IS THE PURPOSE OF THESE DRAWINGS TO PROVIDE THIS INFORMATION.

THESE COMPATIBILITY DRAWINGS ARE ISSUED TO AVOID THE NECESSITY FOR A REISSUE OF HUNDREDS OF SWITCHING CIRCUITS WITH THE ISSUE OF EACH NEW OR MODIFIED TRANSMISSION-SIGNALING SYSTEM. THESE COMPATIBILITY DRAWINGS GO FURTHER IN THAT THEY SPECIFY WHICH CIRCUIT ARRANGEMENTS ARE NOT COMPATIBLE AND APPROVE ADDITIONAL ARRANGEMENTS WHICH WERE NOT CONSIDERED IN THE ORIGINAL DESIGN OF THE SWITCHING CIRCUITS.

THE COMPATIBILITY AND OPTION INFORMATION PROVIDED IN THESE COMPATIBILITY DRAWINGS SHOULD BE CONSIDERED TO HAVE THE SAME WEIGHT AS THE INFORMATION GENERALLY PROVIDED IN THE FEATURE

OR OPTION TABLE OR ELSEWHERE ON
THE SWITCHING CIRCUIT SD.

THE FEATURE OR OPTION TABLE OF
SWITCHING CIRCUITS WILL CON-
TINUE TO SPECIFY THE INFORMATION
NEEDED FOR OPERATION OVER METAL-
LIC FACILITIES. SWITCHING CIRCUITS
WILL ALSO CONTAIN INFORMATION FOR
OPERATION WITH TRANSMISSION OR SIG-
NALING SYSTEMS IF SIGNALING COM-
PATIBILITY DRAWING, SD-99421-XX
HAS NOT YET BEEN PROVIDED TO CARRY
THIS INFORMATION.

APPLICATION

IF THE REQUIRED COMPATIBILITY
INFORMATION IS NOT PROVIDED IN
THESE COMPATIBILITY DRAWINGS IT

IS AN INDICATION THAT THE INFOR-
MATION IS NOT AVAILABLE OR THE
QUESTION HAS NOT BEEN RAISED BEFORE.
SUCH QUESTIONS SHOULD BE DIRECTED
TO PROPER CHANNELS IN THE AT&T CO.
THE USEFULNESS OF THESE COMPATI-
BILITY DRAWINGS DEPENDS SOMEWHAT
ON PROVIDING STANDARDIZED SOLUTIONS
TO SUCH QUESTIONS WHEN THEY ARE
RAISED BY THE OPERATING COMPANIES.

WHEN A NEW SWITCHING CIRCUIT IS
ISSUED WHICH REQUIRES COMPATI-
BILITY LISTINGS IN THESE COMPAT-
IBILITY DRAWINGS, THE DRAWING
NOTICE FOR THE SWITCHING CIRCUIT
WILL CONTAIN THE NECESSARY INFOR-
MATION TO COVER THE TIME INTERVAL
UNTIL THE COMPATIBILITY DRAWING
CAN BE BROUGHT UP TO DATE TO PROVIDE
A PERMANENT RECORD.