

Initial PRI Configuration

~~By Handy Wright~~

1. **Set DS1 Frame Format to Extended Super Frame.**
 Lines Trunks>>LS/GS/DS1>>Enter Slot + Enter>>Frame Format>>Extended Super Frame>>Enter.
2. **Set DS1 Suppression:**
 Lines/Trunks>>LS/GS/DS1>>Enter Slot + Enter>>Suppression>>B8ZS>>Enter.
3. **Change DS1 Type from T1 to PRI:**
 Lines/Trunks>>LS/GS/DS1>>Enter Slot + Enter>>Type=>PRI>>Enter.
 WARNING: Do not ever change from PRI to T1 without undoing steps 5 and 6.
4. **Set Expected Network Switch Type:**
 >>Lines/Trunks>>PRI>>Switch Type>>Make choice + Enter.
 This should take you back to the main PRI menu. This is information we must get from the Carrier in order to program.
5. **Program B-Channels into B- Channel Group:**
 PRI>>B-Channel Group>>B-Channel>>When prompted for B-channel group, type 1 + Enter>>When prompted for B-Channels, enter in the form: Slot/channel(sspp); Starting with B-Channel 23 and working down to B-Channel 1. Example: if slot is 4, type 0423, enter, 0422, enter, 0421, enter, etc.
 Return to B-Channel Group menu.
6. **Program PRI Trunks into B Channel Group:**
 >>Lines>>when prompted for B-Channel group, type 1+ Enter>>enter line trunks (1st 23 only, starting from bottom working up). Return to B-Channel Group menu. (Use Entry Mode if necessary)
7. **Set Network Service for B-Channel Group:**
 >>Ntwk Svc>>when prompted for B-Channel group, type 1 + Enter>> Misc >>CallByCall>>Enter.
 Return to B-Channel Group menu.
8. **Set PRI Incoming Routing:**
 >>Incoming Rtg>>Dial Plan>>Enter.
 If expecting incoming DNIS digits, use Dial Plan Routing option (example: DIDs)
 Exit back through B-Channel menu to main PRI menu.
9. **Program Incoming Dial Plan Routing for Any Service:**
 >>Dial Plan Routing>>Service>> when prompted for entry #, type 0>>Misc >>Any>>Enter
 Exit back through Dial Plan Routing menu to main PRI menu.

10. Program Outgoing Call By Call Service Table:

>>Outgoing Table>>CBC Svc>>Pattern>>when prompted for list and entry numbers, enter 00>>Enter. When prompted for pattern number, enter: 0 then Next(F9) >>1>>Next>>2>>Next.....8>>Next>>9>>Enter.

11. Set Outgoing Network Service for CBC Table:

>>Outgoing Table>>CBC Svc >>Ntwk Svc>>When prompted for List Number, enter 0>>Misc>>No Service>>Enter (This is a generic setting only, and may not work for if AT&T is the service provider. You may need to determine the specific AT&T services the customer has ordered and program them on this table.)

If this is a local/general use PRI, you need to change the Special Service Table as follows:
 PRI>>Outgoing Table>>Special Svc>>Del Digit>>When prompted for entry number, enter 0 + Enter. change entry to 0>>Next>>change entry to 0, etc until all entries, 0-7 are 0. Then go to Type of Number>> When prompted for entry number, enter 0 + Enter. Change entry from International to National and press Enter.(This is not universally true of all local providers, although it is generally the case.)

If this is a strictly long-distance PRI, leave the Del Digit values at default. (Exception: If the carrier needs us to absorb the leading 1, Special Service Table 5 should be set to Delete 1. If not, SS Table 5 should be set to Delete 0. FYI: ATT commonly requires 10-digit dialing) .(This is not universally true of all long distance providers, although it is generally the case.) (International calls may or may not be treated the same.)

Important:

If Switch Type is 5ESS, the Central Office protocol on the 5ESS **MUST** be set for ATT Custom. We **DO NOT EVER** support ATT National Protocol (aka NI 1)
 Suggestion: Ask them if they are set for ATT National Protocol.
 The protocol translations can be found on Page 196, View 5.2, Field 2, if the 5ESS is a version 13 (most common at this time)

If the switch type is DMS-100 or DMS-250, the CO protocol **MUST** be set for NTNAPRI. (Northern Telecom North American PRI protocol), unless the switch is emulating a 5ESS, or 4ESS, in which case they would be U459PRI or U449PRI, respectively. The protocol translations for the DMS-100 can be found in table LTDEF, parameter *variant*.

Also, the field for L1 Flags in the Trunk Sub-Group table should be set to Yes. This is more critical when using DS1 cards with an Apparatus code beginning with "517M" and later. These particular DS1 boards **WILL NOT** work properly without this parameter for L1 Flags, set.

Typical Print of PRI Translations

A PRI INFORMATION

A Slot 4 Switch: 5ESS

A System: By line

A	ChnlGrp #:	Slot:	TestTelNum:	NtwkServ:	Incoming Routing:
A	1	4		CallbyCall	By Dial Plan

A	Channel ID:	23	22	21	20	19	18	17	16	15	14
A		13	12	11	10	9	8	7	6	5	4
A		3	2	1							

A	Line	PhoneNumber	NumberToSend
A	813		
A	814		
A	815		
A	816		
A	817		
A	818		
A	819		
A	820		
A	821		
A	822		
A	823		
A	824		
A	825		
A	826		
A	827		
A	828		
A	829		
A	830		
A	831		
A	832		
A	833		
A	834		
A	835		

A Network Selection Table

A	Entry Number:	0	1	2	3
A	Pattern to Match:	101****	10***		

A Special Service Table

A	Entry Number:	0	1	2	3	4	5	6	7
A	Pattern to Match:	011	010	01	00	0	1		
A	Operator:	none	OP	OP	OP/P	OP	none	none	none
A	Type of Number:	N	I	I	N	N	N	N	N
A	Digits to Delete:	0	0	0	0	0	0	0	0

A Call-By-Call Service Table

A	Entry Number:	0	1	2	3	4
A	Pattern	0: 0				
A	Pattern	1: 1				

A PRI INFORMATION

A	Pattern	2: 2				
A	Pattern	3: 3				
A	Pattern	4: 4				
A	Pattern	5: 5				
A	Pattern	6: 6				
A	Pattern	7: 7				
A	Pattern	8: 8				
A	Pattern	9: 9				
A	Call Type:	BOTH	BOTH	BOTH	BOTH	BOTH
A	NtwkServ:	No Service				
A	DeleteDigits:	0	0	0	0	0
A	Entry Number:	5	6	7	8	9
A	NtwkServ:					
A	DeleteDigits:	0	0	0	0	0
A	Call Type:	BOTH	BOTH	BOTH	BOTH	BOTH

A Dial Plan Routing Table

A	Entry Number:	0	1	2	3
A	NtwkServ:	Any service			
A	Expected Digits:	0	0	0	0
A	Pattern to Match:				
A	Digits to Delete:	0	0	0	0
A	Digits to Add:				
A	Entry Number:	4	5	6	7
A	NtwkServ:				
A	Expected Digits:	0	0	0	0
A	Pattern to Match:				
A	Digits to Delete:	0	0	0	0
A	Digits to Add:				
A	Entry Number:	8	9	10	11
A	NtwkServ:				
A	Expected Digits:	0	0	0	0
A	Pattern to Match:				
A	Digits to Delete:	0	0	0	0
A	Digits to Add:				
A	Entry Number:	12	13	14	15
A	NtwkServ:				
A	Expected Digits:	0	0	0	0
A	Pattern to Match:				
A	Digits to Delete:	0	0	0	0
A	Digits to Add:				