Job Aid
Option Switch Settings

Some of the interface units used between a media gateway and other types of equipment require specific option switch settings for each application.

- Avaya G650 Media Gateway carrier ID address
- Avaya G600 Media Gateway carrier ID address
- TN760E Tie Trunk circuit pack option settings
- TN464GP/2464BP option settings
- TN1654 option switch settings
- Printer option settings

See the user's guide for each type of equipment for information on how to locate and set the option switches.

Avaya G650 Media Gateway carrier ID address

The Avaya G650 Media Gateway has a carrier ID address, depending on its location in the rack. The media gateways are "lettered" bottom to top as A, B, C, D, and E. Set the Carrier Address ID either before or after installing each media gateway. You must remove the fan assembly to get to the address paddleboard connector. See Figure 1, Removing the fan assembly, on page 2.

Figure 1: Removing the fan assembly
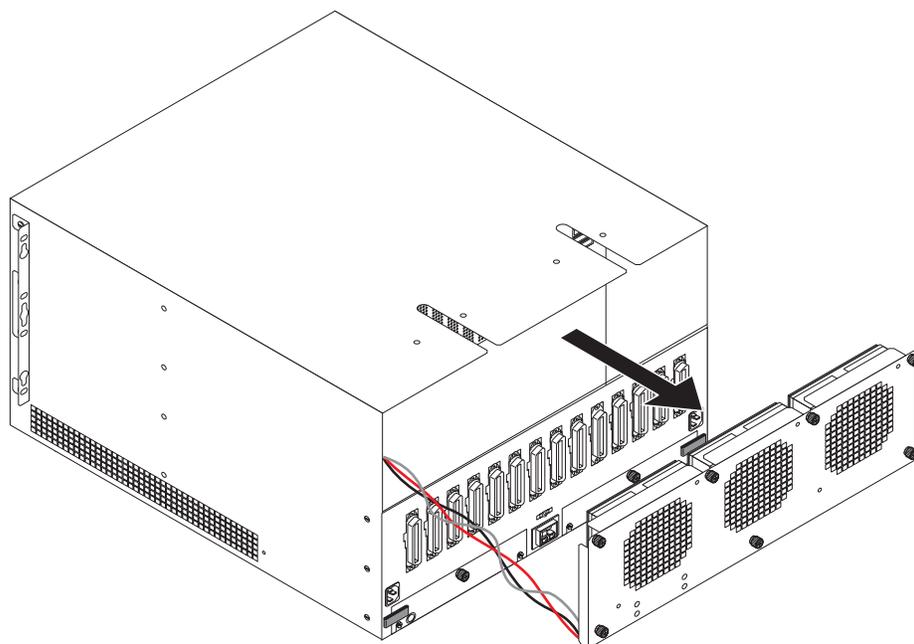
fndprem2 LAO 071503

Place the address paddleboard in the connector as shown in

- "A" slot is for the media gateway in the A location
- "B" slot is for the media gateway in the B location
- "C" slot is for the media gateway in the C location
- "D" slot is for the media gateway in the D location
- "E" slot is for the media gateway in the E location

Figure 2: Setting the G650 carrier address ID
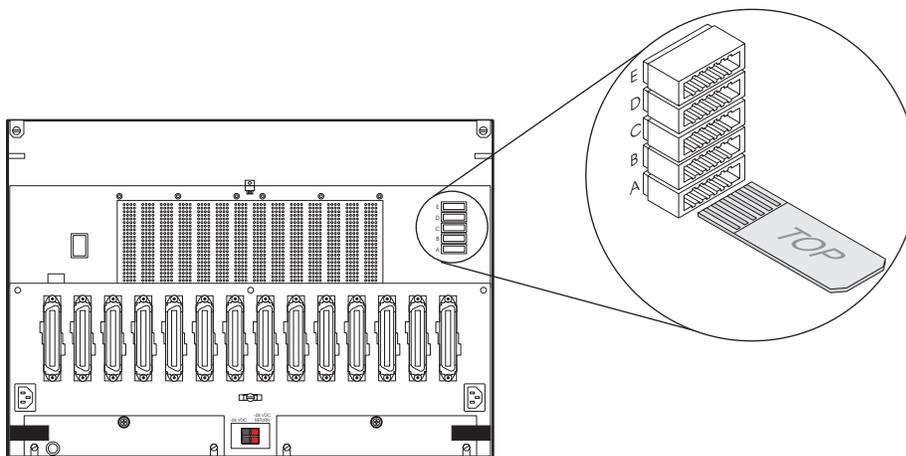

swdlpdle LAO 072403

Avaya G600 Media Gateway carrier ID address

The Avaya G600 Media Gateway has a carrier ID address, depending on its location in the rack. The media gateways are "lettered" bottom to top as A, B, C, and D. Set the Carrier Address ID either before or after installing each media gateway. You must remove the fan assembly to get to the switches. See Figure 3, Fan assembly removal, on page 3.

Figure 3: Fan assembly removal

fndpremv LJK 102600
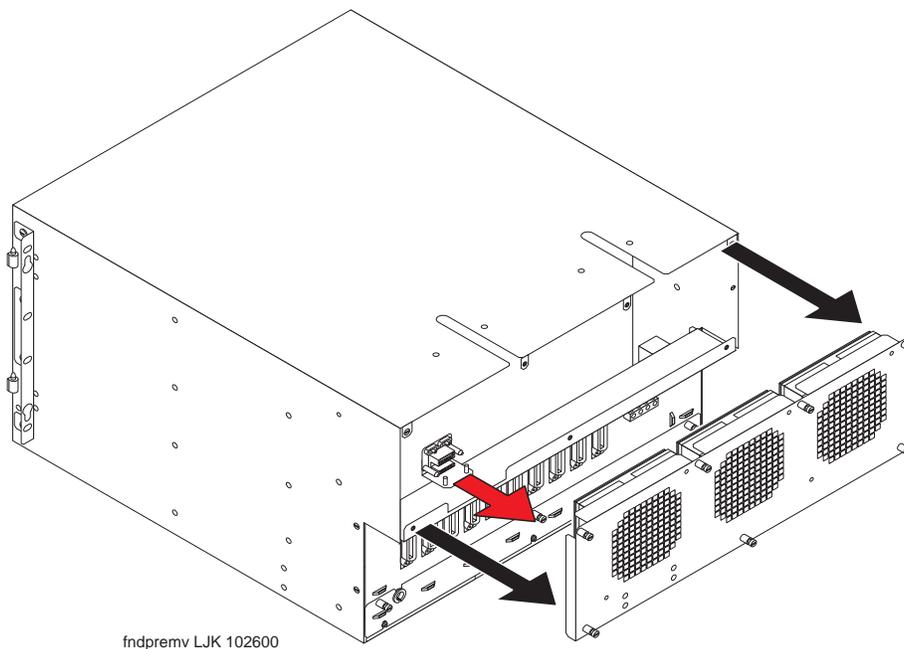
Set the carrier address ID for each media gateway as shown in Figure 4, Setting media gateway address ID, on page 4.

- "A" settings are for the media gateway in the A location
- "B" settings are for the media gateway in the B location
- "C" settings are for the media gateway in the C location
- "D" settings are for the media gateway in the D location
- "E" settings are not used in this configuration.

Figure 4: Setting media gateway address ID

swdldip1 LJK 022402
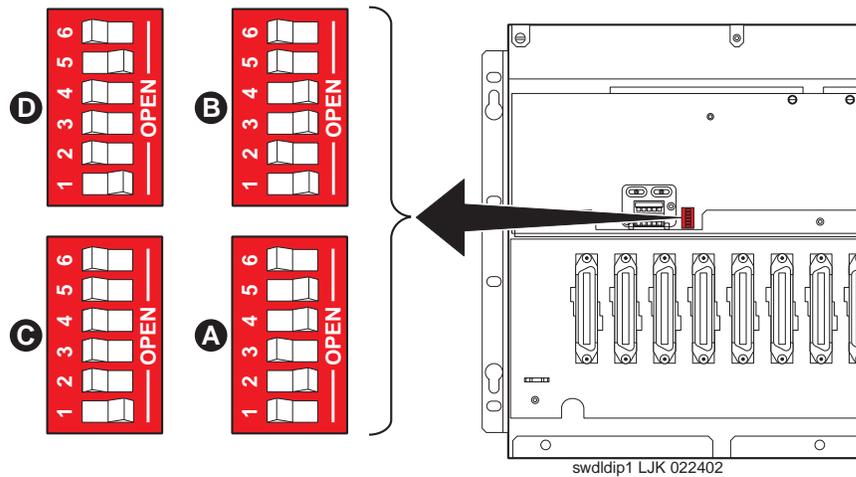
TN760E Tie Trunk circuit pack option settings

The TN760E Tie Trunk circuit pack interfaces between the tie trunks and the Time Division Multiplex (TDM) bus. Two tip and ring pairs form a 4-wire analog transmission line. An E and M pair is used for signaling and are DC signaling leads used for call setup. The E lead receives signals from the tie trunk and the M lead transmits signals to the tie trunk.

To choose the preferred signaling format (Table 1, Signaling formats for TN760E, on page 4 and Table 2, Signaling type summary, on page 5), set the switches on the TN760E and administer the port per Figure 5, TN760E Tie Trunk option switches (component side), on page 5 and Table 3, TN760E Tie Trunk option switch settings and administration, on page 5.

> ⚠ **CAUTION:**
> To prevent damage from static electricity, wear an EMC wrist strap when handling circuit packs or other components.

Table 1: Signaling formats for TN760E

Mode	Type
E&M	Type I Standard (unprotected)
E&M	Type I Compatible (unprotected)
Protected	Type I Compatible, Type I Standard
Simplex	Type V
E&M	Type V
E&M	Type V Revised

Table 2: Signaling type summary

Signaling Type	Transmit (M-Lead)		Receive (E-Lead)	
	On-Hook	Off-Hook	On-Hook	Off-Hook
Type I Standard	grd	bat	open[*]/bat	grd
Type I Compatible	open[*]/bat	grd	grd	open[*]/bat
Type V	open[*]/bat	grd	open	grd
Type V Reversed	grd	open	grd	open

  * An open circuit is preferred instead of battery voltage.

Figure 5: TN760E Tie Trunk option switches (component side)
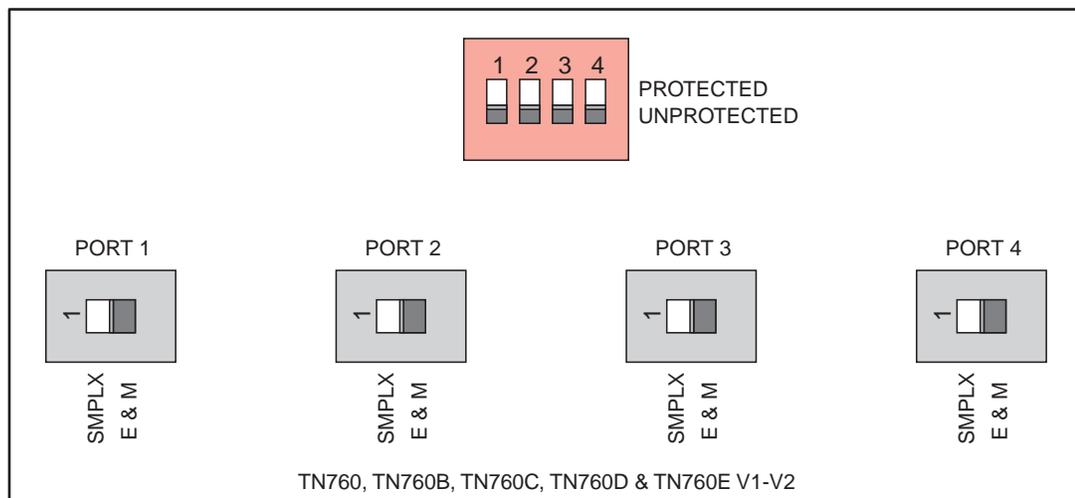
swmsjump LAO 080603

Table 3: TN760E Tie Trunk option switch settings and administration *1 of 2*

Installation Situation		Preferred Signaling Format		Set E&M/ SMPLX Option Switch	Set Prot/ Unprot Option Switch	Administered Port[*]
Circumstance	To	System	Far-End			
Co-Located	Sys75/G1	Simplex	Simplex	SMPLX	Either	Type 5
		Type 5	Type 5			
Inter-Building	Sys75/G1	Simplex	Simplex	SMPLX	Either	Type 5
		Type 5	Type 5			
Co-Located	Sys85/G2	Simplex	Simplex	SMPLX	Either	Type 5
		Type 5	Type 5			
						1 of 2

Table 3: TN760E Tie Trunk option switch settings and administration *2 of 2*

Installation Situation		Preferred Signaling Format		Set E&M/ SMPLX Option Switch	Set Prot/ Unprot Option Switch	Administered Port[*]
Circumstance	To	System	Far-End			
Inter-Building	Sys85/G2	Simplex	Simplex	SMPLX	Either	Type 5
		Type 5	Type 5			
Co-Located	DIMENSION	E&M Type 1	E&M Type 1	E&M	Unprotected	Type 1
	PBX	Compatible	Standard			Compatible
Inter-Building	DIMENSION	Protected Type 1	Protected Type 1	E&M	Protected	Type 1
	PBX	Compatible	Standard			Compatible
Co-Located	Other	E&M Type 1	E&M Type 1	E&M	Unprotected	Type 1
		Compatible	Standard			Compatible
Inter-Building	Other	Protected Type 1	Protected Type 1	E&M	Protected	Type 1
		Compatible	Standard Plus			Compatible
			Protection			
			Unit			
Co-Located	Net Integrated	E&M Type 1	Any PBX	E&M	Unprotected	Type 1
		Standard				
						2 of 2

*   Administer the items in this column on the Trunk Group screen.

TN464GP/2464BP option settings

The TN464GP/2464BP DS1/E1 Interface-T1/E1 circuit pack interfaces between a 24- or 32-channel CO/ISDN or tie trunk and the Time Division Multiplexing (TDM) bus.

Set the switches on the circuit pack to select bit rate and impedance match. See Table 4, Option switch settings on TN464GP/2464BP, on page 6 and Figure 6, TN464GP/2464BP option settings, on page 7.

Table 4: Option switch settings on TN464GP/2464BP

120 ohms	Twisted pair
75 ohms	Coaxial requiring 888A adapter
32 channel	2.048 Mbps
24 channel	1.544 Mbps

Figure 6: TN464GP/2464BP option settings

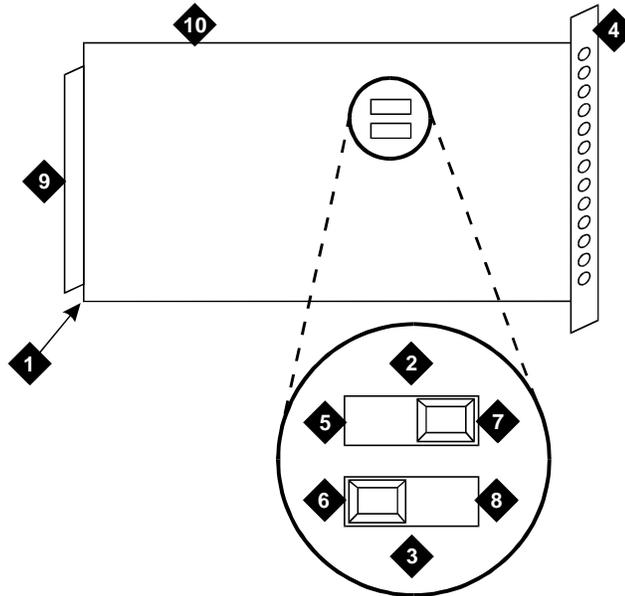**Figure notes**

1	Backplane Connectors	6	120 ohm (shown selected)
2	24/32-Channel Selector	7	24 Channel (shown selected)
3	75/120-ohm Selector	8	75 ohm
4	Faceplate	9	Connector
5	32 Channel	10	TN464GP/2464BP

TN1654 option switch settings

The configuration switches on the TN1654 must be set before the circuit pack is installed. The TN1654 can be configured for either T1 or E1 operation. All 4 facilities on the circuit pack are configured as a group. It is not possible to mix T1 and E1 facilities on the same circuit pack.

The T1 line impedance is fixed at 100 ohms, and the T1 framing is selectable for Extended Super Frame (ESF) or D4 for each facility. The E1 facility line supports termination impedances of 120 ohms for twisted-pair and 75 ohms for coax wiring.

Figure 7, DS1 Converter circuit pack switches, on page 8 shows the location of the switches. Table 5, TN1654 DS1 Converter switch functions, on page 8 and Table 6, TN1654 DS1 Converter switch settings, on page 9 show the switch-setting functions and positions, respectively.

Figure 7: DS1 Converter circuit pack switches
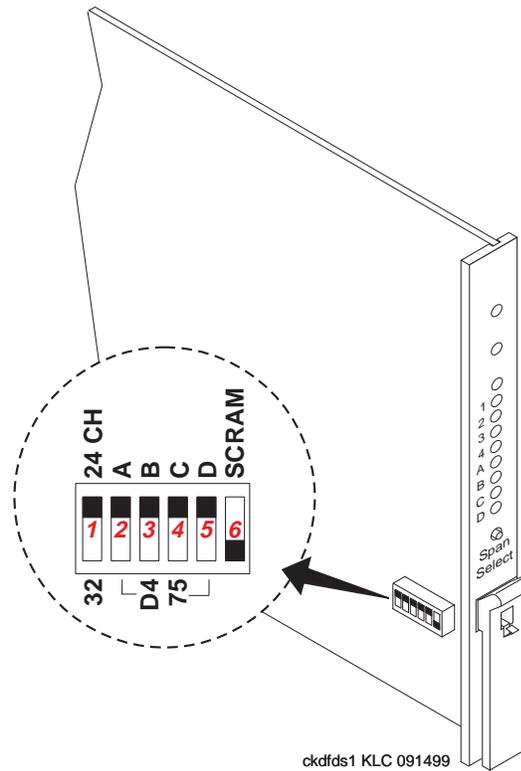

ckdfds1 KLC 091499

Table 5: TN1654 DS1 Converter switch functions

Switch	Function
1	Type of Facility
2	Span A Line Impedance (E1 Only) Span A Framing (T1 Only)
3	Span B Line Impedance (E1 Only) Span B Framing (T1 Only)
4	Span C Line Impedance (E1 Only) Span C Framing (T1 Only)
5	Span D Line Impedance (E1 Only) Span D Framing (T1 Only)
6	Force Fiber Data-Stream Scrambling

Table 6: TN1654 DS1 Converter switch settings

	1	2	3	4	5	6
up	T1	120 ohms ESF	120 ohms ESF	120 ohms ESF	120 ohms ESF	Enabled
down	E1*	75 ohms D4	75 ohms D4	75 ohms D4	75 ohms D4	Disabled

* Although the TN1654 circuit pack supports 75 ohms, use the 127A BALUN to convert the 120 ohms to 75 ohms rather than the switch settings.

Printer option settings

Printers can be used as journal printers for the hospitality feature and also as an output device for Call Detail Recording (CDR).

A 572 printer can function as a CDR device, system printer, or journal printer. The options are set with function keys rather than DIP switches. Figure 8, Control panel for 572 printer, on page 10 shows the arrangement of the function keys on the printer control panel.

1 Load the printer with paper and turn the power off (Callout 1).

2 Simultaneously press and hold **Print Quality** and **On Line**. Press **Power On**. Release all three buttons. The printer is now in set-up mode and it prints current settings:

3 If the printer is used as the system printer, set the options as shown in Table 7, 572 printer used as system printer, on page 10.

4 Use **Line Feed** or **Form Feed** to step through the options for the function.

5 Press **On Line**. This activates the menu for the function. Use **Line Feed** and **Form Feed** to step through the options for the function.

6 When a desired option is located, press **Print Quality**. Each time an option is set, the setting is printed. Repeat for each option to be set.

7 When finished, press **Print Quality**. The printer changes to normal mode.

Figure 8: Control panel for 572 printer
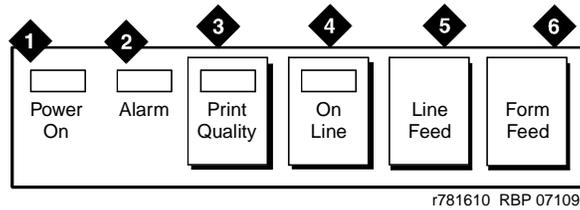
r781610 RBP 071096

Figure notes

1	Power On Button	**4**	On Line Button
2	Alarm Button	**5**	Line Feed Button
3	Print Quality Button	**6**	Form Feed Button

Table 7: 572 printer used as system printer *1 of 2*

Function	Function Name	Menu	Menu Status
01	FORM LENGTH	09	11
02	LPI	01	6
03	CPI	01	10
04	LQ or NLQ	01	LQ
05	BUZZER	01	ON
06	FONT	02	FONTCART
07	RESOLUTION	01	144
11	BUFFER	02	N-LINE
13	PW ON MODE	01	ON-LINE
14	DIRECTION	01	B1-DIR.1
15	BUFF FULL	02	LF + CR
16	P.E.	01	ACTIVE
17	AUTO CARRIAGE RETURN (CR)	01	CR + LF
18	ZERO	01	0
22	AUTO LINE FEED	01	CR ONLY
31	1'' SKIP	01	OFF
32	CHAR.SET (GO, GL)	02	USA
33	CHAR.SET (G1, GR)	01	UK
34	CHAR SET (G2)	03	GE
35	CHAR SET (G3)	07	LINE DRAWING
81	OFF-LINE STATE	01	ALL RECEIVE
			1 of 2

Table 7: 572 printer used as system printer *2 of 2*

Function	Function Name	Menu	Menu Status
82	DSR	02	OFF
83	REQUEST TO SEND (RTS) TIMING	01	RTS
84	CD	02	OFF
85	CLEAR TO SEND (CTS)	02	OFF
91	OVER RUN	02	256
92	DATA BIT	02	8
93	PROTOCOL	03	XON/XOFF
94	STOP BIT	01	1
95	PARITY	01	NONE
96	PBS	04	1200
			2 of 2