ESI SIP Trunking

Installation Guide

0450-1227 Rev. B

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Introduction

SIP (Session Initiation Protocol) **trunks** are offered by Internet telephony service providers (ITSPs) to connect business communications systems to the public telephone network (PSTN, for *public switched telephone network*), using VoIP (voice over Internet Protocol).

System requirements

SIP trunking is supported on the following ESI Communications Servers when equipped with one or more ESI SIP Trunking Cards and running these minimum system software versions:

System	Minimum software version	System
ESI-1000	18.5.10.0	ESI-100
ESI-600	16.5.10.0	ESI-50
ESI-200	14.5.10.0	ESI-50L

System	Minimum software version
ESI-100	12.5.10.0
ESI-50	11.5.10.0
ESI-50L	(Not supported)

Hardware specifications

	ESI-	1000	ESI	-600	ESI-	·200	ESI	-100	ESI	-50
Per system	4-digit	3-digit								
Maximum SIP Trunking Cards	10	3	6	3	3	3	1	1	1	1
Total SIP trunks	240	72	144	72	72	72	24	24	24	24
Maximum lines available	240	84	168	84	84	84	42	42	35	35

Note: An ESI Communications Server can support multiple SIP Trunking Cards, **but** each installed SIP Trunking Card will subtract from the maximum number of CO lines (*i.e.*, trunks) the system can support.

Codec support

As of system software version xx.5.10.0, only the G.711 codec is supported. For G.711 support, SIP calls use 106 Kbps of bandwidth across a T1. In order to support 24 channels, you would need two T1s if using G.711 or another Internet connection with enough available bandwidth to support 24 concurrent call sessions.

Feature summary

DID for SIP trunks

Inbound SIP calls will always be 10-digit direct inward dialing (DID) numbers. ESI Communications Servers now support 10 digits for DID translations, in Function 224, for routing of all circuits that support DID numbers.

ITSPs supported

As of this revision of this document, ESI SIP trunking supports the following ITSP:

- Broadvox (www.broadvox.com)
 - Broadvox ND
 - Broadvox NS

NAT traversal

ESI Communications Servers support carriers regardless of whether they host network address translation (NAT). To handle a carrier that **doesn't** support hosted NAT, it will be necessary to configure the firewall to allow communications between SIP trunks and the ESI Communications Server.

Installation

Perform the following steps to ensure proper SIP trunking operation on the ESI Communications Server:

- 1. Unbox the ESI SIP Trunking Card and install it in the desired card slot on the ESI Communications Server. (If installing multiple SIP Trunking Cards on the system, repeat this step as many times as needed.)
- Contact the ESI Technical Support Center at 800 491-3609 or techsupp@esi-estech.com to have the SIP license activated.

Notes: To have each site's license activated, you'll need the site name and sales order number.

The license is for a site so, if you're installing multiple SIP Trunking Cards at a site, one license is sufficient.

Each SIP Trunking Card installation will automatically activate the number of licenses assigned to that card. You will need to contact the ESI Technical Support Center **only** if you're upgrading a SIP8 card to either 16 or 24 channels.

- **3.** In **Function 84**, perform the related programming for the installed **SIP Trunking Card**. (See "Function 84: SIP Trunking Card programming," page 5, for instructions.)
- 4. In Function 2142, perform the related programming to create a SIP account. (See "Function 2142: SIP account programming," page 7, for instructions.)
- 5. In Function 2141, perform the related programming for the SIP trunk ports. (See "Function 2141: SIP trunk programming," page 11, for instructions.)
- In Function 2145, perform the related programming for the SIP pilot table. (See "Function 2145: SIP pilot table programming," page 14, for instructions.)
- 7. In Function 224, perform the related programming for DID and DNIS/ANI tables. (See "Function 224: DID and DNIS/ANI translation table programming," page 15, for instructions.)
- 8. In Function 225, perform the related programming for the pilot number translation table. (See "Function 225: Pilot number translation table programming," page 16, for instructions.)

Programming

Note: These instructions assume familiarity with the programming of an ESI Communications Server. If necessary, consult the ESI Communications Servers Programming Manual (ESI # 0450-1050).

Overview

SIP trunking and feature parameters are assigned using the following programming functions, in this order:

- Function 84: SIP Trunking Card programming
- Function 2142: SIP account programming
- Function 2141: SIP trunk programming
- Function 2145: SIP pilot table programming
- Function 224: DID and DNIS/ANI translation table programming
- Function 225: Pilot number translation table programming

Function 84: SIP Trunking Card programming

Use this function only if any parameters must be changed for an individual SIP Trunking Card ("SIP" in the displays).

Note: For each IP address in the following steps, enter the address in a dotted-decimal format consisting of four numbers separated by dots. Valid numbers are *0* through 255. Use **#** to enter the dots between numbers.

1. Use the scroll keys to select an active SIP Trunking Card to program. Press # to continue. In this example, the SIP Trunking Card is in port card slot 11 (*PC11*), which utilizes trunk ports 241–264.



2. The display now shows the SIP Trunking Card password, which can be 2–8 characters in length. Enter your desired password and press # to continue.

SUPPORT PASSWORD 73829164

3. Use the scroll keys to select the type of SIP Trunking Card that will be used. Press # to continue.

SIP CARD TYPE SIGNALING

Note: When the ESI Communications Server is behind a firewall, select *ENABLED* for the NAT traversal option (step 7). Program the SIP Trunking Card's IP address (step 4) and the RTP media IP address (step 9) using private IP addresses that are valid on the LAN side of the firewall. Program the SIP public IP address (step 8) using the public IP address of the WAN side of the firewall.

When the ESI Communications Server is **not** behind a firewall, select *DISABLED* for the NAT traversal option (step 7). Program the SIP Trunking Card's IP address (step 4) and the RTP media IP address (step 9) using public IP addresses that are accessible by the ITSP. With the SIP NAT option (step 7) disabled, the SIP public IP address (step 8) is not needed and this step will not appear.

 Enter (or view) the SIP Trunking Card's IP address. Press # to continue. Range: 0.0.0.0 through 255.255.255.255. Default: 0.0.0.0.



5. Enter (or view) the SIP Trunking Card's subnet mask. Press # to continue. Range: 0.0.0.0 through 255.255.255.252. Default: 0.0.0.0.



6. Enter (or view) the SIP Trunking Card's gateway address. Press # to continue. Range: 0.0.0.0 through 255.255.255. Default: 0.0.0.0.

PC11	SI P	GATEWAY
0. 0. 0. 0		

7. Use the scroll keys to enable or disable **NAT traversal**. Press **#** to continue.

PC11	SI P	NAT
DI SAI	BLED	

8. Enter (or view) the **public IP address** to use when NAT is enabled. Press # to continue. Range: 0.0.0.0 through 255.255.255.255. Default: 0.0.0.0.

PC11	SI P	PUB	ΙP	
0.0.0	D. O			

9. Enter the media IP address to use for RTP¹ traffic to and from the ITSP. Press # to continue. Range: 0.0.0.0 through 255.255.255.255. Default: 0.0.0.0.

PC11	RTP	MEDI A	ΙP
0.0.0	D. O		

 Enter the IP address for the primary DNS² server. Press # to continue. Range: 0.0.0.0 through 255.255.255.255. Default: 0.0.0.0.

PC11	PRI	DNS	ΙP	
0.0.0). ()			

11. Enter the IP address for the secondary DNS server. Press # to continue. Range: 0.0.0.0 through 255.255.255.255. Default: 0.0.0.0.

PC11	SEC	DNS	ΙP	
0.0.0	0.0			

12. Either press **1** to save your changes to the SIP Trunking Card or press **2** to exit without restarting the SIP Trunking Card.

RESTART	SIP ITSP
1=YES	2=N0

Note: Changes made to SIP Trunking Card programming require that the card be restarted in order for the changes to be uploaded to the card. Press 1 to restart the SIP ITSP now or press 2 to exit and return to the main menu.

¹ Real-time Transport Protocol. For more information about RTP, see RFC 3550 (www.ietf.org/rfc/rfc3550.txt).

² Domain Name System.

Function 2142: SIP account programming

The procedure in Function 2142 varies after step 2, depending on your selection in that step. Therefore, we have separated the first two (common) steps from the subsequent steps, as you see here.

Common steps 1–2: Selecting SIP provider and ITSP

1. Enter the name for the SIP provider number (or, to select a previously entered SIP provider, use the scroll keys, and press # to confirm.

For this example, we'll be using "SIP Provider 1," named *Broadvox*, with a SIP Trunking Card installed in slot number 11.

Range: Up to 10 characters in length.



The ITSP is currently programmed as shown on the display. To select a new value, select a new value, and press # to confirm (or, to confirm the existing value, just press #).
 Choices: Broadvox-ND, Broadvox-NS. Default: Broadvox-ND.



Subsequent steps for "Broadvox-ND" ...

If you selected *Broadvox-ND* in step 2 (see "Common steps 1–2: Selecting SIP provider and ITSP," *above*), the **subsequent** steps are as follows:

3. Use the scroll keys to select which SIP Trunking Card will be associated with the selected ITSP, and press # to confirm.

Choices: Any available SIP Trunking Card. Default: First installed SIP Trunking Card.



4. Enter the primary billing number assigned by the ITSP, and press # to confirm. If you need detailed information about entering characters, press HELP. (See Appendix A, page 19.) Range: Up to 10 characters. Default: [Blank].

PRIMARY NUMBER

 Enter the optional account name assigned by the ITSP, and press # to confirm. If you need detailed information about entering characters, press HELP. (See Appendix A, page 19.) Range: Up to 32 characters. Default: [Blank].

ACCOUNT NAME

 Enter the account password assigned by the ITSP, and press # to confirm. If you need detailed information about entering characters, press HELP. (See Appendix A, page 19.) Range: Up to 32 characters. Default: [Blank].



7. Enter the **port number** that will be used for inbound SIP traffic to the SIP Trunking Card, and press **#** to confirm. **Range**: 00000–65535. **Default**: 5060.



Enter the URI of the ITSP, and press # to confirm.
 Range: Up to 64 characters. Default: [Blank]. (See Appendix A, page 19.)



9. Enter the starting port number of the RTP port range to be used, and press # to confirm. Range: 00000–65535. Default: 10000.



10. Enter the **ending** port number of the RTP port range to be used, and press **#** to confirm **Range**: 00000–65535. **Default**: 11000.

RTP PORT RANGE END: 11000

11. Use the scroll keys to select a codec, and press # to confirm. Choices: G.711, G.729.a. Default: G.711.



12. Either press 1 to save your changes to the SIP Trunking Card or press 2 to exit without restarting the SIP Trunking Card.

RESTART	SIP ITSP
1=YES	2=N0

Note: Changes made to SIP Trunking Card programming require that the card be restarted in order for the changes to be uploaded to the card. Press **1** to restart the SIP ITSP now or press **2** to exit and return to the main menu.

Subsequent steps for "Broadvox-NS"...

If you selected *Broadvox-NS* in step 2 (see "Common steps 1–2: Selecting SIP provider and ITSP," page 7), the **subsequent** steps are as follows:

3. Use the scroll keys to select which SIP Trunking Card will be associated with the selected ITSP, and press # to confirm.

Choices: Any available SIP Trunking Card. Default: First installed SIP Trunking Card.



4. Enter the primary billing number assigned by the ITSP, and press # to confirm. If you need detailed information about entering characters, press HELP. (See Appendix A, page 19.) Range: Up to 10 characters. Default: [Blank].



 Enter the optional account name assigned by the ITSP, and press # to confirm. If you need detailed information about entering characters, press HELP. (See Appendix A, page 19.) Range: Up to 32 characters. Default: [Blank].



6. Enter the port number that will be used for inbound SIP traffic to the SIP Trunking Card, and press # to confirm. Range: 00000–65535. Default: 5060.



7. Enter the URI of the ITSP, and press # to confirm. Range: Up to 64 characters. Default: [Blank]. (See Appendix A, page 19.)



8. Enter the starting port number of the RTP port range to be used, and press # to confirm. Range: 00000–65535. Default: 10000.

RTP	POR	Т	RANGE	
BEGI	N:	10	000	

9. Enter the ending port number of the RTP port range to be used, and press # to confirm Range: 00000–65535. Default: 11000.



10. Use the scroll keys to select a codec, and press **#** to confirm. **Choices**: *G.711, G.729.a.* **Default**: *G.711.*

SIP CHAN	CODEC
G. 711	

11. Either press 1 to save your changes to the SIP Trunking Card or press 2 to exit without restarting the SIP Trunking Card.



Note: Changes made to SIP Trunking Card programming require that the card be restarted in order for the changes to be uploaded to the card. Press 1 to restart the SIP ITSP now or press 2 to exit and return to the main menu.

Function 2141: SIP trunk programming

 Select the line keys that are to have the same programming during day mode, and press # to confirm. If multiple SIP Trunking Cards have been installed, use the scroll keys to select the desired SIP Trunking Card. For this example, we'll be using a SIP Trunking Card in port card slot 11 ("PC 11").



Note: You will be able to select only the number of CO lines for which you have licenses.

2. Use the scroll keys to select the SIP provider to be used for the selected trunks, and press # to confirm For this example, we'll be using SIP provider 1.

Range: 1-10 (as previously defined in Function 2142; for instructions on programming that function, see page 7).



 Enter the line name (if you want to use a different one than what appears), and press # to confirm. If you need detailed information about entering characters, press HELP.
 Range: Up to 10 characters. Default: [Blank].



Note: Entering a line name delays presentation of inbound Caller ID data until the call is answered.

4. If tenant service is enabled in Function 169 (for more information on this Function, refer to the ESI Communications Servers Programming Manual, ESI # 0450-1050), use the scroll keys to select the tenant number, and press # to confirm. (If tenant service isn't enabled, press # to move to the next step.) Range: [Any valid tenant number]. Default: 1.



5. This line is programmed for the line groups as displayed. Enter the new group number (if there is one), and press # to confirm.

Range: *9*, *8*, 71–76 (if 71–76 were assigned as CO lines, in Function 164; for more information on this Function, refer to the ESI Communications Servers Programming Manual, ESI # 0450-1050). **Default**: *9*].



6. Use the scroll keys to select a **distinctive ring tone** for the new line, and press **#** to confirm. **Range**: Normal and ring tones 1–6. **Default**: Normal.



7. This line is programmed to be answered as displayed. To select a specific station, mailbox, or branch ID which should answer this SIP trunk, press a scroll key and enter the new value, and press # to confirm. (If the current value is acceptable, just press # to confirm.)

Default	1: ID	1.

RI NO	G 1
ID:	1

8. Select the line keys that are to have the same programming during night mode, and press # to confirm. If multiple SIP Trunking Cards have been installed, use the scroll keys to select the desired SIP Trunking Card. For this example, we'll be using a SIP Trunking Card in port card slot 11 ("PC 11").

PC11	SI P	XX-XX	Ν
CO:	CI RCI	JI T	

9. Use the scroll keys to select the **SIP provider** to be used for the selected trunks, and press **#** to confirm Again in this example, we'll be using SIP provider 1.

Range: 1–10 (as previously defined in Function 2142; for instructions on programming that function, see page 7).

Note: During night mode programming, this is a read-only field.



 Enter the line name (if you want to use a different one than what appears), and press # to confirm. If you need detailed information about entering characters, press HELP.
 Range: Up to 10 characters. Default: [Blank].



 If tenant service is enabled in Function 169 (for more information on this Function, refer to the ESI Communications Servers Programming Manual, ESI # 0450-1050), use the scroll keys to select the tenant number, and press # to confirm. (If tenant service isn't enabled, press # to move to the next step.) Range: [Any valid tenant number]. Default: 1.



12. Use the scroll keys to select a distinctive ring tone for the new line, and press # to confirm. Range: Normal and ring tones 1–6. Default: Normal.



13. This line is programmed to be answered as displayed. To select a specific station, mailbox, or branch ID which should answer this SIP trunk, press a scroll key and enter the new value, and press # to confirm. (If the current value is acceptable, just press # to confirm.)
Default: ID 1

Default	ıυ	Т.	

RI NO	G 1	
ID:	1	

14. Either press 1 to save your changes to the SIP Trunking Card or press 2 to exit without restarting the SIP Trunking Card.

RESTART	SIP ITSP	
1=YES	2=N0	

Note: Changes made to SIP Trunking Card programming require that the card be restarted in order for the changes to be uploaded to the card. Press **1** to restart the SIP ITSP now or press **2** to exit and return to the main menu.

Function 2145: SIP pilot table programming

With DID enabled, call processing will check first the pilot table and then the DID table (programmed in Functions 225 and 224, respectively), and route the call accordingly. Any number not found in the pilot table or DID table will be routed to the DID exception routing. With DID disabled, all calls will follow the routing as programmed in SIP trunk programming (Function 2141, beginning on page 11).

Default: Disabled.

Function 224: DID and DNIS/ANI translation table programming

1. Either enter the DNIS or DID number or use the scroll keys to select a previously programmed number or exception, and press # to confirm. For this example, we'll use 972 555-2145 as the DID number and will route to extension 245.

Notes: Pressing the right scroll key will start with a blank number field for entry and continue through all previously programmed numbers, ending with the exception entry (continuing to scroll will start over the blank entry). Pressing the left scroll key will start with the exception entry, continue in reverse order with previously programmed numbers and end with the blank number entry (continuing to scroll will start over with the exception entry).

Pressing HOLD will delete an entry.

DID/DNIS NUMBER #: 9725552145

2. Enter the desired **name** (if no change is desired, enter nothing), and press # to confirm. **Range**: Up to 10 characters. Default: [Blank.]

Note: If a name is entered for a DID and there is an inbound CO call, the DID name (instead of the Caller ID number) will be displayed until the call is answered.

DI D#: 9725552145 NAME:

3. The system now shows **day** routing on the display.

To select a branch ID, extension, or mailbox, use the scroll keys (or, if no change is desired, enter nothing), and press **#** to confirm.

Choices: Any valid ID branch, extension, or mailbox. Default: [Blank].



 The system now shows night routing on the display. To select a branch ID, extension, or mailbox, use the scroll keys (or, if no change is desired, enter nothing), and press # to confirm.

Choices: Any valid ID branch, extension, or mailbox. Default: [Blank].



Function 225: Pilot number translation table

Note: This feature is accessible only if Function 2135 or Function 2145 is enabled.¹

Every call on a SIP span is sent with the called number in the setup message. This means you can determine whether to use a number as a pilot number or as a DID number. Pilot numbers are a means of routing a company's primary published phone number differently from a DID. Each ESI Communications Server has a different capacity for pilot entries, each with its own answer ring assignment.² This is important, because the dynamic channel allocation prevents you from routing based on channel.

Pilot numbers can be routed to an ID branch, department, extension or mailbox. This varies from DIDs in that, when a DID number is routed to an extension, it is considered answered and follows the busy/no-answer routing of the extension; but, with pilot numbers, the call will be routed to the extensions for live answer for the designated number of rings, then can be routed to an ID branch in the event of busy/no-answer. If the PRI span is used for outgoing calls, pilot table entry 1 is used for outgoing Caller ID, as well. Because of this, pilot number entry 1 should always be programmed with 10 digits.

Note: An extension's Caller ID number setting (programmed in Function 31¹) overrides the pilot number's Caller ID information set here.

Max Channels value

Max Channels is the maximum number of channels that can be used simultaneously for incoming calls to a particular pilot number. Incoming calls to that pilot number are rejected (CO plays busy signal) when the Max Channels value is exceeded for the pilot number. Max Channels is applicable only to incoming calls.

Notes: This setting works only if the digits in the pilot number entry exactly match the digits that the PRI or SIP carrier sends in its messaging.

The sum of maximum channels of any PRI pilot number must not exceed 23.

To program the pilot number translation table:

- 1. Use the scroll keys to select the entry number.
- 2. Enter the pilot number, two to 10 digits in length.³
- 3. Enter the name for the pilot number.
- Enter the maximum channels allowed for this pilot number. Range: 1–24 (SIP) or 1–23 (PRI). Default: 24 (SIP) or 23 (PRI).
- Enter the distinctive CO ring tone for this pilot number.
 Range: 1–6 or normal (disabled). Default: Normal (disabled).

¹ See the ESI Communications Servers Programming Manual (ESI # 0450-1050).

 ² See "Translation tables" under "System capacities"" in the ESI Communications Servers Programming Manual (ESI # 0450-1050).

³ If the carrier sends a pilot number with fewer than 10 digits, the system will use only the rightmost digits of the called number.

6. Set answer ring assignments for both day and night modes.

Note: For programming information, see step 7 in Function 2131.

7. Repeat steps 1–6 for the remaining pilot numbers.

Example:													
]		D	ay			Nig	ght	
	Entry	Pilot no.	Name	Max	Ring	Ring	Ring	Ring	Ring	Ring	Ring	Ring	Ring
	no.		1	chs.	tone	1	3	5	9	1	3	5	9
	1	2145551452	ABC Co.	16		X100	X100,	X101	ID1	MB100	MB100	MB100	MB100
							X101						
	2	1245	Private line	1		X106	X106	MB106		MB106	MB106	MB106	
	3												
	4												
	5												

Tenant service and pilot numbers

If tenant service is enabled, the first pilot number (*i.e.*, entry 1) is used for tenant 1's outgoing Caller ID, and so on through entry 8 for tenant 8's outgoing Caller ID. When a station (or the station's voice mailbox) originates an outgoing call via a PRI/SIP channel, the pilot number of the station's tenant will be used for that call's outgoing Caller ID. Also: any auto attendant outdial branches that originate from branch ID 1 will use Caller ID for tenant 1, and so on through branch ID 8 for tenant 8.

Special characters

As a security measure, some ITSPs require SIP account passwords to contain **all** of the following:

- (a.) Lower-case letters.
- (b.) Upper-case letters.
- (c.) Numbers.

```
Examples:mypassword=Not OKmyPassword=Not OKmyPassword123=OK
```

Here is a table of ESI Feature Phone keystrokes to enter characters:

Pressing this key	Will produce the following characters (in this order)							
1	1 Q Z q z							
2	2 A B C a b c							
3	3 D E F d e f							
4	4 G H I g h i							
5	5 J K L j k l							
6	6 M N O m n o							
7	7 P R S p r s							
8	8 T U V t u v							
9	9 W X Y w x y							
0	0 : ; / @ (<i>i.e.</i> , zero, period, dash, underscore, colon, semicolon, slash, and at-symbol)							

In each case, pressing # will confirm the entry in the display and move the cursor to the next character.

Troubleshooting • Port forwarding

Troubleshooting chart

Issue	Solution
When using Broadvox version ND trunks, if you dial 9 , you get the response, "That line group is not valid."	If the site is using version ND trunks, registration isn't taking place correctly. Ensure port forwarding in the router is correct. Also,
	ensure that the correct DNS IP addresses are programmed in
	Function 84.
An incoming call results in one-way audio, in which the caller	Contact Broadvox and ensure that Broadvox has automatic NAT
is the only person who can hear audio.	detection enabled on its (Broadvox's) side.
There is no audio in either direction.	Ensure that the correct RTP ports have been forwarded to the SIP Trunking Card.
During the placing of an outbound call, the display returns to idle as soon as the number is dialed.	Verify that the ITSP URI has been entered correctly (a misspelled URI will result in failed calls).
You cannot dial a seven-digit local number.	A SIP trunking call requires 10 digits for call completion.
You are unable to connect to the system using a modem	Due to limitations from SIP callers, modem connections won't be
over a SIP trunk.	successful and you'll need to use the NSP to connect remotely to
	the system.

Port forwarding

To ensure that there is proper signaling between the ITSP and the SIP Trunking Card, the following port forwarding must be performed in order for the SIP trunks to function correctly:

- Port 5060 (UDP) must be forwarded to the primary IP address assigned to port 1 of the SIP Trunking Card.
- Ports 10000–11000¹ (UDP) must be forwarded to the secondary (media) IP address assigned to port 2 of the SIP Trunking Card.

¹ Port numbers are dependent on the defined range in Function 2142.

Appendix A

Add to inbound filter list of router							
Allow the media II	Ps below and all UD	P ports up to 65535	;				
209.249.3.58			209.249.3.60				
	Function number a	2142 — Primary and account name	Function 84 — Public IP address	Function 2142 Account pass	2 — sword		
Trunk number	Turn-up ticket	Trunk type	BTN	Source IP		Password	
1000458	320133	GoLocal	2144735188	68.165.86.131			
		Functio ITSP L	If turn-up tio "dynamic," on 2142 — JRI If turn-up tio	cket has a passwor then trunk type is N cket has a source I	rd and ND . IP only,	the source IP shows , then trunk type is NS .	
Trunk number	DNS A record		DNS SRV record			dress 1	
1000458	dfwnx01ga1.pa.bro	advox.net	dfwnx01ga1.psrv.broadv	vox.net	209.2	49.3.59	

Functions 224 and/or 225 — DID number programming

Trunk number	DIDs
1000458	2144735188
	2142272130
	2142272131
	2142272132
	2142272133
	2142272134
	2142272135
	2142272136
	2142272137
	2142272138
	2142272139

esi)

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