

PRODUCT	X-50 Line Group Programming
HARDWARE	X-50
SOFTWARE	All Software
DESCRIPTION	Getting an extension to automatically select a specific line group with dialing out
Number	

Description:

This document is used to program extensions to automatically select a specific line group when dialing a number from an X-2020 telephone on the X-50 system. It is the combination of the two devices that makes this possible.

SET UP:

- The X-2020 telephone must be authenticated and operational with an X-50 system.
- Telephone lines must be in different line groups
- Both PSTN Lines and SIP Trunks can use line group dialing

Database Programming:

- 1) When using PSTN Lines skip to step 3.
- 2) When using IP Trunks:
 - a. Log into the X-50
 - b. Select Voice → Trunk → IP Trunk
 - i. Enter the information provided to authenticate each IP Trunk
 - ii. Click on “diagnostics” to verify that each trunk is operational
 - c. Select Voice → Trunk → Trunk DID
 - i. Enter the provided DID Numbers and select the Trunk Group for each DID number.

DID Table

No.	DID Number	Destination	Outgoing Call ID	Display Name	Trunk
1	19135995688	101			Group 2 ▾
2	18669232258	102			Group 2 ▾
3	19132840998	103			Group 2 ▾
4	19132846648	104			Group 3 ▾
5	19137382222	105			Group 3 ▾
6	9137362021	106			Group 3 ▾
7	9137258351	107			Group 2 ▾

3) With either the PSTN Lines or SIP Trunks

- a. Select Voice → Trunk → Trunk Group
 - i. Select the line and using the dropdown menu, select the group for each line. For example, place all PSTN Lines into group 1 and IP Trunks 1, 2 and 3 into line group 2, and 4, 5 and 6 into line group 3.

IP Line 1	Group 2 ▾	Disable ▾	<input type="text"/>	0 ▾
IP Line 2	Group 2 ▾	Disable ▾	<input type="text"/>	0 ▾
IP Line 3	Group 2 ▾	Disable ▾	<input type="text"/>	0 ▾
IP Line 4	Group 3 ▾	Disable ▾	<input type="text"/>	0 ▾
IP Line 5	Group 3 ▾	Disable ▾	<input type="text"/>	0 ▾
IP Line 6	Group 3 ▾	Disable ▾	<input type="text"/>	0 ▾

4) Select Voice → Trunk → Call Routing

- a. Select a 2 digit code that will be used for each line group. For example, 91=group 1, 92=group 2, and 93=group 3. This number will be used to route outgoing numbers to the appropriate line group. The actual numbers can be any number that does not create a conflict in the X-50 system.
 - i. From – To: Enter in the “From: and the to:” the 2 digit number, for example, 92
 - ii. Min/Max Length - Then enter the number of digits expected. If the number dialed is a 7 digit number, the number of digits expected is 9 (7+2). If the number dialed is a 10 digit number, the number of digits expected is 12 (10+2). If the number dialed is an 11 digit number, the number of digits expected is 13 (11+2).
 - iii. Delete - Enter two as the number of digits to delete. This means that when the number 92 xxx-xxx-xxxx is dialed, the 92 is deleted before the system tries to dial the number
 - iv. Insert - Enter the digits that are required to make the call. For example, if someone enters a 7 digit number, but the 1 + area code is required, then enter all 4 digits. For example, in Kansas, you may to add 1913. However, if it is a local number, then you will leave “Insert” blank.

- v. Select the line group that you would like this call to use. For example, 92=line group 2.
- vi. You will make an entry for each line group and each of the possible number combinations.

From	To	Min	Max	Delete	Insert	Destination
91	91	9	9	2	1913	Group 1
91	91	12	12	2	1	Group 1
91	91	13	13	2		Group 1
92	92	9	9	2	1913	Group 2
92	92	12	12	2	1	Group 2
92	92	13	13	2		Group 2
93	93	9	9	2	1913	Group 3
93	93	12	12	2	1	Group 3
93	93	13	13	2		Group 3

Once these entries are made, you should be able to dial the 2 digit “Steering” number and the desired number, and the call should go out the correct line group. For example, if I dialed 93 9135551212 – the call should automatically add a 1, and use line group 3.

No.	From	To	Min	Max	Del	Insert	Destination	IGW Group	Remove	Edit	Change Order
1	92	92	9	9	2	1913	Group 2		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>
2	92	92	12	12	2	1	Group 2		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>
3	92	92	13	13	2		Group 2		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>
4	93	93	9	9	2	1913	Group 3		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>
5	93	93	12	12	2	1	Group 2		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>
6	93	93	13	13	2		Group 3		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>
7	0	#	1	99	0		Group 1		<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Up"/> <input type="button" value="Down"/>

- 5) Log into a X-2020 telephone as the administrator
 - a. Select “SIP” and scroll down to the “Prefix Entry Settings”
 - b. Using the dropdown menu select “Add” for each of the 9 entries
 - c. In the “Entry X Pattern – enter 0 in the first Prefix Entry 0 Pattern, 1 in the Prefix 1 Pattern, etc all the way to 9 in the Prefix Entry 9 Pattern.
 - d. In the Prefix Entry 0 Replace, enter 92 in all 9 locations.

Prefix Entry Settings			
Prefix Entry 0 Type:	<input type="text" value="Add"/>	Prefix Entry 0 Pattern:	<input type="text" value="0"/>
Prefix Entry 0 Replace:		Prefix Entry 1 Type:	<input type="text" value="Add"/>
Prefix Entry 1 Pattern:	<input type="text" value="1"/>	Prefix Entry 1 Replace:	<input type="text" value="92"/>
Prefix Entry 2 Type:	<input type="text" value="Add"/>	Prefix Entry 2 Pattern:	<input type="text" value="2"/>
Prefix Entry 2 Replace:		Prefix Entry 3 Type:	<input type="text" value="Add"/>
Prefix Entry 3 Pattern:	<input type="text" value="3"/>	Prefix Entry 3 Replace:	<input type="text" value="92"/>
Prefix Entry 4 Type:	<input type="text" value="Add"/>	Prefix Entry 4 Pattern:	<input type="text" value="4"/>
Prefix Entry 4 Replace:		Prefix Entry 5 Type:	<input type="text" value="Add"/>
Prefix Entry 5 Pattern:	<input type="text" value="5"/>	Prefix Entry 5 Replace:	<input type="text" value="92"/>
Prefix Entry 6 Type:	<input type="text" value="Add"/>	Prefix Entry 6 Pattern:	<input type="text" value="6"/>
Prefix Entry 6 Replace:		Prefix Entry 7 Type:	<input type="text" value="Add"/>
Prefix Entry 7 Pattern:	<input type="text" value="7"/>	Prefix Entry 7 Replace:	<input type="text" value="92"/>
Prefix Entry 8 Type:	<input type="text" value="Add"/>	Prefix Entry 8 Pattern:	<input type="text" value="8"/>
Prefix Entry 8 Replace:		Prefix Entry 9 Type:	<input type="text" value="Add"/>
Prefix Entry 9 Pattern:	<input type="text" value="9"/>	Prefix Entry 9 Replace:	<input type="text" value="92"/>

When a number is dialed from this extension, the Prefix Entry (example 92) will be added to the beginning of the dialed number. For example, if the number 555-1212 is dialed, the X-50 system will see 92-555-1212.

In the call routing table the number 92 – steers the dialed number to line group 2, removes the 92, and inserts 1-913-555-1212, which is dialed out on line group 2.

[END]