

# Appendix II: IVX 128 Plus installer worksheets

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## Function 1: System parameters

**Important:** Before programming, make sure you initialize the system!

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### F11 — Initialization

**F12: Installer**

Range: 2–8 digits. Default: 789.

**F13: Administrator**

Range: 2–8 digits. Default: 456.


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### F14 — Set time/date

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### F15 — System timing parameters

**F151: Flash hook duration**

Range: 2–20 (0.2–2.0 sec). Default: 15 (1.5 sec).

**F152: Transfer/forward recall timer**

Range: 1–9 rings. Default: 3.

**F153: Recall timers**

**F1531: Hold recall timer**

Range: 5–960. Default: 60.

**F1532: Park recall timer**

Range: 5–960. Default: 60.

**F154: ACD exit timer**

Range: 0,5–600 (0 = no limit). Default: 180.

**F155: ACD wrap timer**

Range: 0,5–600 (0 = no limit). Default: 0.

**F156: Cell phone delay**

Range: 0–50 (0.0–5.0 sec). Default: 10.


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### F16 — System feature parameters

**F161: Recording alert tone**

Default: Disabled.

**F162: Connect tone**

Default: Enabled.

**F163: System-wide hold**

Default: Disabled.


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### F17 — System speed-dial

(Use the worksheet on the following page.)

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### F18 — Serial port baud rate

**SMDR port (“Port 1”)**

Options: 300, 1200, 2400, 4800, 9600, 19200, 38400. Default: 38400.

**Maintenance port (“Port 2”)**

Options: 300, 1200, 2400, 4800, 9600, 19200, 38400. Default: 38400.


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**F17 – System speed dial**

<i>Loc.</i>	<i>Name</i>	<i>Number</i>
600		
601		
602		
603		
604		
605		
606		
607		
608		
609		
610		
611		
612		
613		
614		
615		
616		
617		
618		
619		
620		
621		
622		
623		
624		
625		

(Use a blank sheet for additional speed dial numbers 626–699.)

## Function 2: CO lines

### F21 — CO line programming

Options: Analog CO line (1), T1 CO line (2), PRI CO line (3).  
 Default answer ring assignment for CO lines: ID1



### F211: Analog CO line programming

Mode: \_\_\_\_\_ (day, night).

	<i>Circuit</i>	<i>CO</i>	<i>Name</i>	<i>Line group</i>	<i>Ring 1</i>	<i>Ring 3</i>	<i>Ring 5</i>	<i>Ring 9</i>
<b>Slot #</b> _____	1							
<b>Card type:</b>	2							
	3							
	4							
	5							
	6							
<b>Slot #</b> _____	1							
<b>Card type:</b>	2							
	3							
	4							
	5							
	6							
<b>Slot #</b> _____	1							
<b>Card type:</b>	2							
	3							
	4							
	5							
	6							
<b>Slot #</b> _____	1							
<b>Card type:</b>	2							
	3							
	4							
	5							
	6							

Make copies of this sheet for additional lines.

**F212: T1 CO line programming**

**F2121: CO line programming**

Trunk type emulation default: E&M DNIS/DID.

<i>Circuit</i>	<i>Line format</i>	<i>Trunk emulation</i>

*Programming of loop start, ground start or E&M trunks*

<b>Outgoing signal type</b> Default: Wink start.	
<b>Incoming signal type</b> Default: Wink start.	
<b>Trunk mode</b> Default: 2-way traffic.	
<b>Dial tone transmit</b> Default: Off.	
<b>Ringback transmission</b> Default: Off.	

*Programming of E&M DNIS/DID*

<b>Outgoing signal type</b> Default: Wink start.	
<b>Incoming signal type</b> Default: Wink start.	
<b>Trunk mode</b> Default: 2-way traffic.	
<b>Dial tone transmit</b> Default: Off.	
<b>Ringback transmission</b> Default: Off.	

**Important:** Standard ring assignments are used for loop and ground-start trunks. E&M can be answered only by an ID branch, and E&M DID uses the translation table programmed in Function 224.

Configuration mode (day, night): \_\_\_\_\_.

Frame format: \_\_\_\_\_ Carrier name: \_\_\_\_\_

Default: ESF/B8ZS. Number: \_\_\_\_\_

Slot	Channel	CO port	Name	Protocol	Line group	Ring 1*	Ring 3*	Ring 5*	Ring 9*
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								

Make copy of this sheet for a second DLC12 (T1) Card.

\* Does not apply when using E&M DNIS/DID protocol.

**F2122: T1 frame format and line coding**

**Default: ESF/B8ZS.**

**F2123: Line build-out**

**Default: 1.**

**F2124: CSU emulation**

**Default: Off.**

<i>Card 1</i>	
<i>Card 2</i>	
<i>Card 1</i>	
<i>Card 2</i>	

**F213: DLC12 (PRI) CO line programming**

**F2131: CO line programming**

**Important:** CO answer ring assignments are used only when DID is disabled. With DID enabled, calls will be routed according to the pilot number or DID tables.

Configuration mode (day, night): \_\_\_\_\_.

Switch protocol: \_\_\_\_\_ Carrier name: \_\_\_\_\_

Framing: ESF/B8ZS. Number: \_\_\_\_\_

Slot	Channel	CO port	Name	Line group	Ring 1*	Ring 3*	Ring 5*	Ring 9*
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							

Make copy of this sheet for a second DLC12 (PRI) Card.

\* Does not apply when DNIS/DID is enabled.

**F2132: Line build-out**

Default: 1.

<i>Card 1</i>	
<i>Card 2</i>	

**F2133: CSU emulation**

Default: Off.

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**F2134: Switch protocol**

Options:

- Nortel – DMS 100
- ATT/Lucent – 5ESS
- National/NI2 – Default
- Siemens – EWSD

**Note:** Most switches can emulate the various protocols. Be sure to make your selection based on the protocol being used rather than the switch manufacturer. NI2 is the only protocol that supports name-and-number CID.

**F2135: DID enable/disable**

Default: Disabled.

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**F22 – Access codes/toll restriction**

*F221: Centrex/PBX access codes*

*Line group 9*

Default: 0.

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*Line group 8*

Default: 0.

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*Line group 71*

Default: 0.

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*Line group 72*

Default: 0.

--

*Line group 73*

Default: 0.

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*Line group 74*

Default: 0.

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*Line group 75*

Default: 0.

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*Line group 76*

Default: 0.

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**F222: Toll restriction exception tables**

**Allow** numbers (maximum, 100 entries):

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**Deny** numbers (maximum, 100 entries):

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**F223 – Automatic route selection (ARS)**

**Enabled/disabled**

Default: Disabled.

If enabled:

	ARS table	Line groups	OCC	Numbers
Fixed	1	9		7 or 10 digits, information
	2	8		1+, 0+, 01+, 011+, or 101XXXX
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			

**F224 – DID and DNIS translation table**

DID or DNIS digits	Name	Day translation	Night translation

Make copies of this sheet for additional lines.

**F225 – Pilot number table**

	<b>Number</b>	<b>Name</b>	<b>Max channels</b>	<b>Ring 1*</b>	<b>Ring 3*</b>	<b>Ring 5*</b>	<b>Ring 9*</b>
1							
2							
3							
4							
5							

**F23 – CO line parameters**

**F231: Line receive volume**

Range: 1- 12. Default: 10.

**F232: Line disconnect**

Range: 1-255. Default: 6.

**F233: T1 line receive volume**

Range: -28 dB to 6 dB. Default: -2 db.


	<b>Circuit</b>	<b>Volume</b>
<b>Slot #:</b>	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	

	<b>Circuit</b>	<b>Volume</b>
<b>Slot #:</b>	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	

\* Applies only when DNIS/DID is enabled.

**F234: PRI line receive volume**

Range: -28 dB to 6 dB. Default: -2 db.

	Circuit	Volume
Slot #:	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	

	Circuit	Volume
Slot #:	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	

## F24 – Caller ID

Options: Enabled, disabled. Default: Disabled.

Local – 7:

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Local – 10:

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## Function 3 : Extension programming

### F31 – Extension definition and routing

*For Digital Feature Phones*

		Ext.	Type	Name	Line groups	CF day	CF night	Pg zone	Ext.	
		0		Operator						
<b>Slot #:</b>	1									
	2									
	<b>Card type:</b>	3								
		4								
		5								
		6								
		7								
		8								
		9								
		10								
		11								
		12								
<b>Slot #:</b>		1								
	2									
	<b>Card type:</b>	3								
		4								
		5								
		6								
		7								
		8								
		9								
		10								
		11								
		12								

Make copies for additional extensions.

**For IP Feature Phones**

	Ext	Type	MAC	Name	CO	CF day	CF night	Pg zone	Ext
Slot #:	1		00304D_____						
	2		00304D_____						
Card Type:	3		00304D_____						
LNC	4		00304D_____						
	5		00304D_____						
	6		00304D_____						
	7		00304D_____						
	8		00304D_____						
	9		00304D_____						
	10		00304D_____						
	11		00304D_____						
	12		00304D_____						

**Extension programming for ONLY Remote IP Feature Phones and PC Phone**

(See also Function 31, page 14 of these worksheets.)

Ext.	Type	IP address	MAC address	Gateway IP	UDP port
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____
		____.____.____.____	00304D_____	____.____.____.____	_____

**F32 – Extension feature authorization**

Card type:	Ext.	Name	Call wait	DND	AA block	Rec.	Ser. ob.	Toll allow	Sys. spd. dl.	Auto page	Ext. fwd.	Fwd. toll	Trunk-trunk
	Default		Y	Y*	N	Y*	N*	Y	Y	N	N	N	N
1													
	Ser. ob. list:												
2													
	Ser. ob. list:												
3													
	Ser. ob. list:												
4													
	Ser. ob. list:												
5													
	Ser. ob. list:												
6													
	Ser. ob. list:												
7													
	Ser. ob. list:												
8													
	Ser. ob. list:												
9													
	Ser. ob. list:												
10													
	Ser. ob. list:												
11													
	Ser. ob. list:												
12													
	Ser. ob. list:												

\* Does not apply to analog extensions.

Make copies of this sheet for additional extensions.



**F33 – Department programming**

Dept. types: In Order, All, UCD, ACD, Pick-Up.

Dept. ext.	Name	Type	CF day	CF night
290				
Ext. List:				
291				
Ext. List:				
292				
Ext. List:				
293				
Ext. List:				
294				
Ext. List:				
295				
Ext. List:				
296				
Ext. List:				
297				
Ext. List:				
298				
Ext. List:				
299				

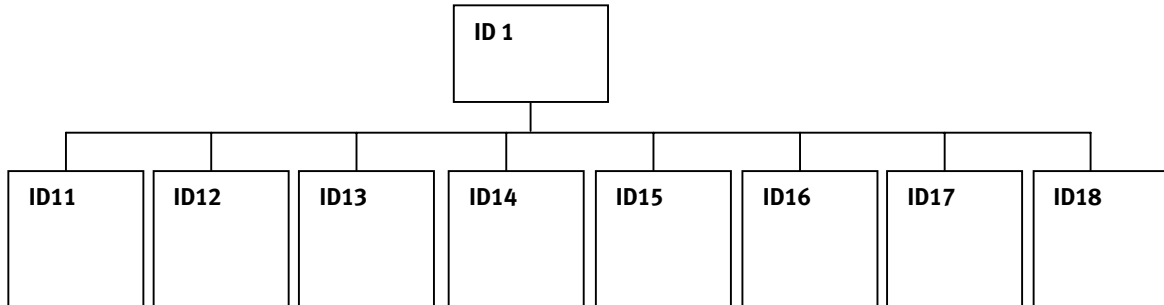
**F35 – Extension button mapping**

See page F.9 for button default based on the system configuration.

## Function 4 : Auto attendant programming

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### F41 – Auto attendant branch programming



**F42 — Announce extension number**

Options: Enabled, disabled. Default: Enabled

**F43 — Automatic day/night tables**

**Note:** Program using 24-hour format.

	<i>Example</i>	MON	TUE	WED	THU	FRI	SAT	SUN
<b>1</b>	<i>0800 D</i>							
<b>2</b>	<i>1200 N2</i>							
<b>3</b>	<i>1300 D</i>							
<b>4</b>	<i>1730 N</i>							
<b>5</b>								
<b>6</b>								

## Function 5: Voice mail programming

### F51 — Maximum message length

**Message length.** Range 1–30 min. Default: 3

**Record length.** Range 1–120 min. Default: 10


### F52 — Message purge control

Range: 0–365 days (0 = no purge). Default: No purging.

<b>New messages</b>	
<b>Old messages</b>	
<b>Group messages</b>	
<b>Recordings messages</b>	

### F53 — Guest / info mailboxes

*Use form on following page to record entries.*

### F53 — Guest/info mailboxes

<b>MB</b>	<b>Name</b>	<b>Type</b>	<b>CFWD Day *</b>	<b>CFWD Night *</b>

***Make copies for additional mailboxes.***

\* CFWD Day and CFWD Night do not apply to guest mailboxes.

### F54 — Group mailboxes

		501	502	503	504	505	506	507	508
Members									

**F54 – Group mailboxes** *(continued)*

	509	510	511	512	513	514	515	516
Members								

## F55 – Message notification

### F551: Station delivery options

Mailbox		Number	Delay	Attempts	Interval	Quiet on	Quiet off
Range	Phone	Up to 30 digits	0–500	0–99	10–1,440	None	None
Range	Pager	Up to 30 digits	0	0–99	10–1,440		
Default	Phone	None	30	3	60	None	None
Default	Pager	None	0	0	0		
1	Phone						
	Pager						
2	Phone						
	Pager						
3	Phone						
	Pager						
4	Phone						
	Pager						
5	Phone						
	Pager						
6	Phone						
	Pager						
7	Phone						
	Pager						
8	Phone						
	Pager						
9	Phone						
	Pager						
10	Phone						
	Pager						
11	Phone						
	Pager						
12	Phone						
	Pager						

**Make copies for additional mailboxes**

### F552: Delivery/paging parameters

**CO line access**

Range: 9,8,7. Default: 9.

**Maximum lines**

Range: 1–19. Default: 1.

**Pager dialing pause**

Range: 0–20. Default: 6.




**F56 – Cascade paging mailboxes**

*F561 – Cascade paging mailbox options*

Mailbox	1st number	Attempts	2nd number	Attempts	3rd number
520					
521					
522					
523					
524					
525					
526					
527					
528					
529					

*F562: Cascade paging parameters*

*Paging interval*

Range: 10–1440. Default: 0.

**F57 – Q & A mailboxes**

Mailbox	Name	CFWD Day	CFWD Night
Default	MB Number	ID9999	ID9999
490			
491			
492			
493			
494			
495			
496			
497			
498			
499			

**F58 – Message move and delete**

Options: Enabled, disabled. Default: Disabled.

## Function 6: Recordings

### F61 — Re-recordable prompts

Prompt	Type	Default	Re-recorded
530	Busy	<input type="checkbox"/>	<input type="checkbox"/>
531	No answer	<input type="checkbox"/>	<input type="checkbox"/>
532	Hold	<input type="checkbox"/>	<input type="checkbox"/>
534	Q/Z	<input type="checkbox"/>	<input type="checkbox"/>
535	No names matched	<input type="checkbox"/>	<input type="checkbox"/>
537	End of recording	<input type="checkbox"/>	<input type="checkbox"/>
538	ACD queue	<input type="checkbox"/>	<input type="checkbox"/>
539	ACD hold	<input type="checkbox"/>	<input type="checkbox"/>
540	Holiday main greeting	<input type="checkbox"/>	<input type="checkbox"/>

### F62 — Record directory names

(Use the worksheet on the following page.)

### F63 — Message-on hold-programming

#### *F631 — MOH source*

Range: 590–598. Default: 592

#### *F633 — MOH volume*

Range: 1–12. Default: 6




## Function 8 – IP PBX programming

### Function 81 – License programming

#### F811 – License codes

<b>Esi-Link</b>	_____
<b>PC Phone</b>	_____
<b>VIP</b>	_____

### Function 82 – Local programming

#### F821 – Program local IP PBX

<b>IP PBX private IP address</b>	____ . ____ . ____ . ____
<b>MAC address</b>	0 0 3 0 4 D _____
<b>PBX gateway IP</b>	____ . ____ . ____ . ____
<b>Remote-access IP</b>	____ . ____ . ____ . ____
<b>Base UDP port</b>	__ 0 0 0

#### F822 – Starting local IP phone address

____ . ____ . ____ . ____
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#### F823 – Program number of remote channels

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**Function 83 – Esi-Link programming**

*F831 – Local location number*

7 __
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*F832 – Esi-Link location*

<b>Location number</b>	7 __
<b>Location name</b>	_____
<b>Abbreviation</b>	___
<b>PBX private IP</b>	__ . __ . __ . __
<b>MAC address</b>	0 0 3 0 4 D _____
<b>Remote-access IP</b>	__ . __ . __ . __
<b>Base UDP port</b>	__ 0 0 1

*Make copies of this page for multiple Esi-Link locations.*

### Function 834: Programming the Esi-Link publish list

	<b>Extension, CO, mailbox or group mailbox</b>
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	