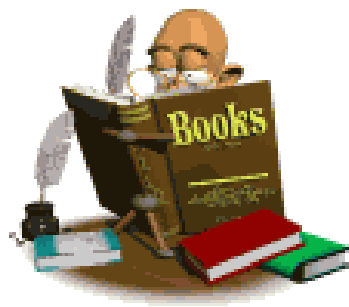


Aristel Networks



PROGRAMMING MANUAL

FOR THE

AV SERIES KEY SYSTEMS

AV12/20/38/256 MODELS

AV Programming Manual for AV 12, 20, 38 and 256 systems.

This manual is current for the following AV software versions :-

AV12 :- O01r

AV20 :- O01e

AV38 :- O05h

AV256 :- MPU..O08 & IPU..V251

This Manual is Version AV 2.1 Issued June

The following changes were made for this update

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AV Series System Programming.

Introduction:

There are six different programming zone groups within the system. This manual lists the information necessary to program any of the AV systems. Access to the system's programming zones may be restricted to personnel with the "Programming Password". The default condition is: no password is active.

Only computers or display model keyphones should be used for programming because the programming data is viewed on the keyphone display during programming.

The programming functions are represented by the following programming zone groups.

- [Zone Group 1 \(Zone Numbers 100 ~ 199\): System Timing Settings.](#)
- [Zone Group 2 \(Zone Numbers 200 ~ 299\): System Parameter Settings.](#)
- [Zone Group 3 \(Zone Numbers 300 ~ 399\): System Function – 1 Settings.](#)
- [Zone Group 4 \(Zone Numbers 400 ~ 499\): System Function – 2 Settings.](#)
- [Zone Group 5 \(Zone Numbers 500 ~ 599\): Station Function Settings.](#)
- [Zone Group 6 \(Zone Numbers 600 ~ 699\): CO Function Settings.](#)

Entering System Programming.

■ **On Hook Programming**

■ **Note! Using the programming overlay will minimize any confusion regarding the save key on 15 and 25 button keyphones.**

Step 1. Handset on Hook.

Step 2. Press [FUNC] + [#]. (System will ask for Programming Password)

Step 3. Enter Programming Password. (If password is not set, then ignore this step)

Step 4. Press [SAVE]. (Press FAC if using a 15 Button Keyphone)

Step 5. If the system denies the password a continuous tone will be heard. Press [SPK] to quit programming and restart from Step 1. If the system accepts the password you can then enter the system's programming.

Step 6. Enter the zone number in which you wish to set new data.

Step 7. Key in the new data.

Step 8. Press [SAVE] (Press FAC if using a 15 Button Keyphone)

The new programming data will now be stored in the system's memory and the program will automatically proceed to the next step.

WARNING!

New data will not be stored unless the SAVE (or FAC) key is pressed after each zone entry.

Step 9. Press [FUNC] key at any time to return to the main message.

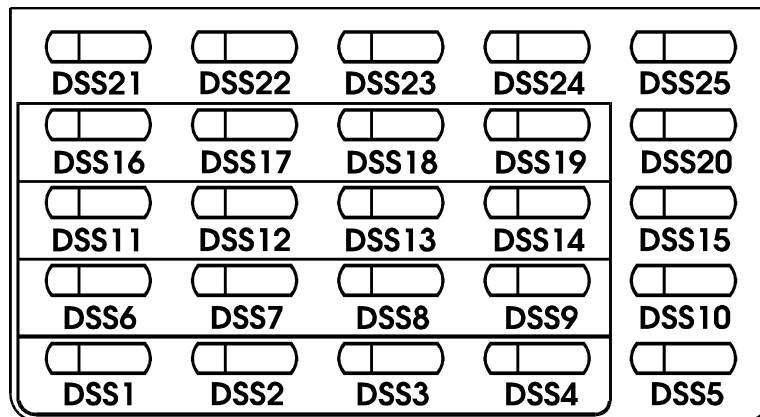
Step 10. Press [SPK] key to exit programming mode.

On Call Programming

Step 1. During the call press [SPD] key.

Step 2. Repeat from Step 2 in "On Hook Programming".

Function Keys Used During System Programming.



DSS Button Layout

KP10 Handset series

DSS Keys

[DSS1]
[DSS2]
[DSS3]
[DSS4]
[DSS5]
[DSS10]
[DSS15]
[DSS20]
[DSS21]
[DSS23]
[DSS24]
[DSS25]

Function

Back to the previous Program Zone
Forward to the next Program Zone.
Shifts cursor left.
Shifts cursor right.
Changes the Function Condition.
Clears all digits in the current zone area.
Clear the current digit to “_” (Inhibit).
Clear the current digit to “d” (Do Not Care).
Help key. Used to review each programming zone.
Clear the current digit to “p” (Pause).
Clear the current digit to “T” (Tone).
Saves the setting data to the system’s memory.

KP10X Handset series

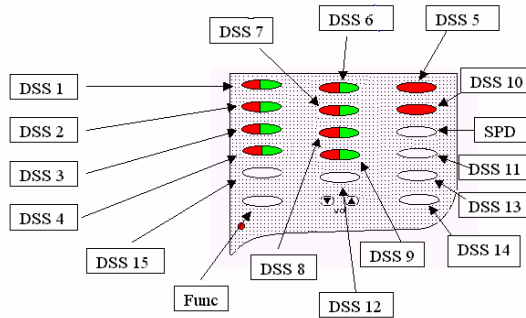
DSS Keys

[DSS1]
[DSS2]
[DSS3]
[DSS4]
[DSS5]
[DSS6]
[DSS10]
[DSS11]
[DSS12]
[DSS13]
[DSS14]
[DSS15]

Function

Back to the previous Program Zone
Forward to the next Program Zone.
Shifts cursor left.
Shifts cursor right.
Changes the Function Condition.
Help key. Used to review each programming zone.
Clears all digits in the current zone area.
Saves the setting data to the system’s memory.
Clear the current digit to “T” (Tone).
Clear the current digit to “p” (Pause).
Clear the current digit to “d” (Do Not Care).
Clear the current digit to “_” (Inhibit).

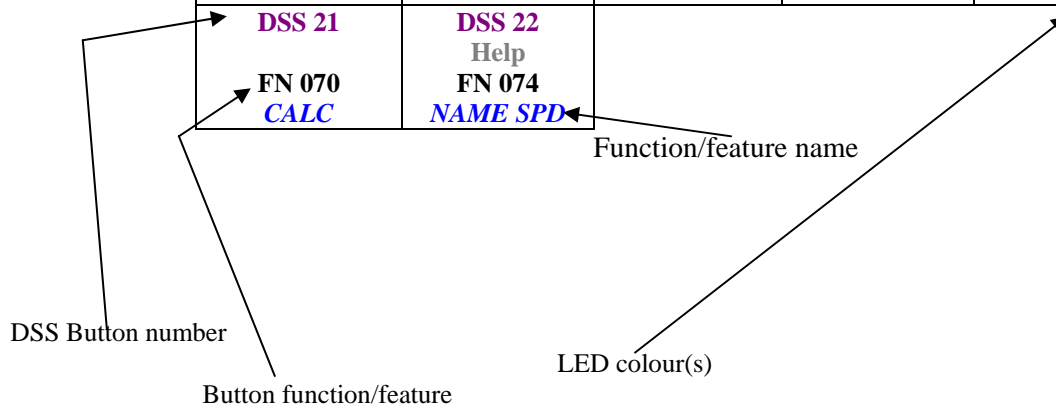
Euro Handset DSS layout (KP30)



[DSS1]	Back to the previous Program Zone
[DSS2]	Forward to the next Program Zone.
[DSS3]	Shifts cursor left.
[DSS4]	Shifts cursor right.
[DSS5]	Changes the Function Condition.
[DSS6]	Help key. Used to review each programming zone.
[DSS10]	Clears all digits in the current zone area.
[DSS11]	Saves the setting data to the system's memory.
[DSS12]	Clear the current digit to "T" (Tone).
[DSS13]	Clear the current digit to "p" (Pause).
[DSS14]	Clear the current digit to "d" (Do Not Care).
[DSS15]	Clear the current digit to "_" (Inhibit).

KP70 DSS BUTTON LAYOUT AND PROGRAMMING FUNCTIONS

DSS 16 FN 028 <i>PAGE ALL</i> <i>RED ONLY</i>	DSS 17 FN 005 <i>FAC</i> <i>RED ONLY</i>	DSS 18 FN 006 <i>FWD</i> <i>RED ONLY</i>	DSS 19 FN 044 <i>PICK UP</i> <i>RED ONLY</i>	DSS 20 Save FN 004 <i>SAVE</i> <i>RED ONLY</i>
DSS 11 Save EXT 15 <i>RED/GREEN</i>	DSS 12 Tone EXT 16 <i>RED/GREEN</i>	DSS 13 Pause EXT 17 <i>RED/GREEN</i>	DSS 14 Don't Care EXT 18 <i>RED/GREEN</i>	DSS 15 Clear Digit FN 071 <i>DOOR</i> <i>RED/GREEN</i>
DSS 6 Help EXT 11 <i>RED/GREEN</i>	DSS 7 EXT 12 <i>RED/GREEN</i>	DSS 8 EXT 13 <i>RED/GREEN</i>	DSS 8 EXT 14 <i>RED/GREEN</i>	DSS 10 Clear All FN 002 <i>DND/CNF</i> <i>RED/GREEN</i>
DSS 1 Backward CO 01 <i>RED/GREEN</i>	DSS 2 Forward CO 02 <i>RED/GREEN</i>	DSS 3 Left CO 03 <i>RED/GREEN</i>	DSS 4 Right CO 04 <i>RED/GREEN</i>	DSS 5 Change FN 003 <i>AT/MIC</i> <i>RED/GREEN</i>



Programming Help List

The Programming Help List can be used to review the default values of each programming zone and can also be used if a zone function is forgotten. During Programming Help List operation, the name of the zone and the programming data will be displayed on the LCD display for three (3) Seconds and the display will then automatically move on to the next zone.

- Step 1.** Handset on Hook.
- Step 2.** Press [FUNC] + [#] + [25 butt DSS 21 or 15 butt DSS 6] to enter Programming Help List.
- Step 3.** Press [SAVE] key during Help List for direct access to the system's programming in the same zone area. (Press FAC if using a 15 Button Keyphone)
The system's data can then be altered.

Note! Altering the system data is allowed only if the system is not password protected.

Function Keys Used During Programming Help List

<u>Function Keys</u>	<u>Function</u>
[DSS1]	Back to the previous Zone Group.
[DSS2]	Forward to the next Program Zone Group.
[DSS3]	Back to the previous Zone Number.
[DSS4]	Forward to the next Zone Number.

Function Help List

Pressing [FUNC] and [0] will allow viewing of the full function list.

DEFINITIONS USED IN MANUAL

BGM	Background Music
CFW	Call Forward Waiting
CO	Trunk Line (Central Office or Centrex)
Console	Operator's Station
_	Indicates restriction applies to a specific digit
d	Indicates that the actual digit is irrelevant
DISA	Direct Inward Station Access
DSS	Direct Station Selection (Key)
DTMF	Dual Tone Multi Frequency (Tone Dialing)
ECF	External Call Forward
Func	Function key on key telephone
HF	Hands Free
Item	Cursor position on station display or Zone feature to be programmed
KP	Keyphone
LCD	Liquid Crystal Display
LED	Light Emitting Diode
ODD	One Digit Dialing
Off Hook	Hand piece out of cradle position
On Hook	Hand piece in cradle position
SMDR	Station Message Detail Report
SPD	Speed Dial
SLT	Single Line Telephone (analogue telephone)
Zone	Programming "job" or function

Zone 100 Pause Time

Default value = 020

Range = (000 ~ 255) x 40 mSec.

The pause time is inserted during auto redial, speed dialing etc. Commonly used when the system is installed behind a PABX.

**When dialing manually, a pause can be inserted using the "FUNC" key.*

**When programming Speed Dial Numbers, use DSS 23 key to insert a pause.*

Related Zones. [Z232](#), [Z404](#)

Zone 101 DTMF Time

Default value = 055

Range = (000 ~ 255) x 2 mSec.

The length of time that the system will generate tones for every digit dialed on a DTMF C.O. line.

Related Zones. [Z604 Item 2](#)

Zone 102 SLT Release Time

Default value = 030

Range = (000 ~ 255) x 6 mSec.

This sets the maximum on hook time to be recognized as a hook flash. If this time is exceeded (on hook) the call will be released.

Related Zones. [Z103](#)

Zone 103 SLT Hold Time

Default value = 014 for AV8, 16, 20, 24, 38, 256 **Default value** = 011 for AV12

Range = (000 ~ 255) x 6 mSec.

This sets the minimum on hook time to be recognized as a hook flash. If this time is not reached (on hook) no action is taken by the system. If the time is exceeded and is less than the time set in [Zone 102](#), the call will be placed in hold.

Related Zones. [Z102](#)

Zone 104 Ring On Time

Default value = 006

Range = (000 ~ 255) x 40 mSec.

This defines the ring sound time for system recognition (detection) of ring signal.

Related Zones. [Z105](#)

Zone 105 Ring Off Time

Default value = 004

Range = (000 ~ 255) Sec.

This defines the silent time that for system recognition (detection) of ring signal.

Related Zones. [Z104](#)

Zone 106 Flash (KP)

Default value = 003

Range = [(000 ~ 255) x 40 mSec.] – 20 mSec.

This sets the time for the Hook-Flash to go out to line from a key station using the trf/fl key. This zone also sets the "#59" hookflash sent to the CO line from an SLT using #59 for hook-flash.

Flash time can be calculated by multiplying the zone data by 4 and then subtracting 20 from the answer.

e.g. 004 give 4 x 40 = 160 mS – 20 = 140 mS

Related Zones. None

Zone 107 Hold Recall Time

Default value = 090

Range = (000 ~ 255) Sec.

This sets the time which if exceeded, causes the call left in hold to revert to the holding station.

Related Zones. [Z108](#), [Z122](#), [Z505 Item 03](#)

Zone 108 Hold Recall Timeout

Default value = 030

Range = (000 ~ 255) Sec.

If a held call reverts to the holding station and is not answered by the time set in this zone, it will transfer to an available console in the same console group.

Related Zones. [Z107](#), [Z122](#), [Z505 Item 03](#)

Zone 109 Xhold Recall Time

Default value = 090

Range = (000 ~ 255) Sec.

This sets the time which if exceeded, causes the call left in Exclusive hold to revert to the holding station.

Related Zones. [Z110](#), [Z242](#), [Z122](#), [Z505 Item 03](#)

Zone 110 Xhold Recall Timeout

Default value = 030

Range = (000 ~ 255) Sec.

If an Exclusive held call reverts to the holding station and is not answered by the time set in this zone, it will transfer to an available console in the same console group.

Related Zones. [Z109](#), [Z242](#), [Z122](#), [Z505 Item 03](#)

Zone 111 SLT DT Timeout

Default value = 005

Range = (000 ~ 255) Sec.

SLT

If the SLT is off hook for more than the set time and no digits are dialed, dial tone will cease and the SLT is connected to busy tone.

This time may need to be extended when Func 91 is used for modem dialing through a Keyphone

KEYPHONE

If the time set here is greater than 15 Seconds, the On hook functions below will be limited by this time. But if the time set here is less than 15 Seconds, the On hook functions below will be limited by 15 Seconds.

Pressing [SPK] key without dialing

Pressing [FUNC] key without dialing

Pressing [] key without dialing*

Obtaining C.O. access and not dialing will be limited by the time setting.

Pressing the SPD key without dialing will be limited by the time setting.

Related Zones. None

Zone 112 SLT In-DIAL Timeout

Default value = 015

Range = (000 ~ 255) Sec.

If the SLT is dialing and the time between any two digits or the time to commence dialing exceeds the time set, the DTMF receiver releases. This will inhibit the SMDR called number print-out, as well as Access Barring

Related Zones. [Z405](#), [Z406 to Z411](#), [Z503 Item 05 and Item 06](#).

Zone 113 Trf Busy Rc Timeout

Default value = 030

Range = (000 ~ 255) Sec.

If a call is transferred to a busy station and is not answered by that station within the time setting, the call will divert back to the original station.

Related Zones. [Z114](#)

Zone 114 Trf NoAns Rc Timeout

Default value = 030

Range = (000 ~ 255) Sec.

If a call is transferred to a free station and is not answered by that station within the time setting, the call will divert back to the original station.

Related Zones. [Z113](#)

Zone 115 CFW NoAns Tr Time

Default value = 005

Range = (000 ~ 255) Sec.

If a station is programmed for "Call Forward on No Answer", an incoming or internal call to that station will be call forwarded after the time setting has been reached.

Related Zones. [Z109](#), [Z242](#)

Zone 116 DISA No Ans Timeout

Default value = 025

Range = (000 ~ 239) Sec.

When an incoming DISA call is not answered before the time setting is reached, the call will be transferred to the console assigned in [Zone 219](#).

Related Zones. [Z218](#), [Z219](#), [Z604 Item 3](#)

Zone 117 DISA No Dial Timeout

Default value = 005

Range = (000 ~ 255) Sec.

If an incoming DISA call is answered and no digits are dialed by the caller, when the time setting has been reached, the call will be transferred to the console assigned in [Zone 219](#).

Related Zones. [Z219](#), [Z604 Item 3](#)

Zone 118 DISA Delay Time

Default value = 004

Range = (000 ~ 255) Sec.

The Auto Attendant will answer incoming DISA calls only after the time setting has been reached.

Related Zones. [Z109](#), [Z242](#)

Zone 119 DISA CO Time

Default value = 190

Range = (000 ~ 255) Sec. (Note! Minimum value of 015 if mult. by 10)

*This zone limits the duration of ECF and unsupervised conference calls. The timer can be reset by dialing any digit except * or #. The * will terminate the call. [Zone 229](#) extends the timer by a factor of 10.*

Related Zones. [Z604 Item 3](#), [Z229](#), Also ECF, Conference Calls, Func-2-6

Zone 120 AT-RED Wait Time

Default value = 010

Range = (000 ~ 255) Sec.

If the auto-redial, or save-redial function is activated and the hand piece is not taken off hook before the time setting is reached, the system will disconnect the CO line. The auto/save-redial function is then placed in Auto Redial Pause Time status ([Zone 121](#)), when that timer has been reached, the call will be redialed.

The above sequence will be repeated for the number of times as set in [Zone 223](#).

Related Zones. [Z121](#), [Z223](#)

Zone 121 AT-Red Pause Time

Default value = 010

Range = (000 ~ 255) Sec.

This timer sets the time between CO release and CO re-seizure for auto/save redial.

Related Zones. [Z121](#), [Z223](#)

Zone 122 Busy Rem ICM Time

Default value = 020

Range = (000 ~ 255) Sec.

When a call (i/c or transferred) is ringing to a busy station, a reminder tone will be heard at intervals set by this timer. If the station is a 25 Button Keyphone, the tone will be heard from the base of the Keyphone. If the station is a 15 Button Keyphone or an SLT, the tone will be heard in the earpiece of the handset. Setting this zone to 000 will stop the Busy Reminder Tone.

This zone also sets the time between rings when a call is recalling from on hold/exclusive hold. If this zone is set to 000 the station will receive continuous ringing when recalling from hold/exclusive hold.

This zone is also the cfdw on busy timer fro DID calls to busy extensions.

NOTE! This timer must be shorter than [Zone 139](#) if DID and call queue is used with voice mail systems

NOTE! The AV8 does not have BRT on SLT extensions.

Related Zones. [Z107](#), [Z108](#), [Z109](#), [Z110](#), [Z229](#), [Z502 Item 07](#), [Z600](#)

Zone 123 In Hunt Ring Time

Default value = 015

Range = (000 ~ 255) Sec.

If an incoming call is not answered by a free station, the call will be transferred to the next available station in the same group. If the incoming call is to a busy station, the call will be transferred immediately to the next free station assigned. This zone sets the time between transfers in a hunt group

Related Zones. [Z600](#), [Z604 Item 7 & 8](#)

Zone 124 Door SensorR Time

Default value = 000

Range = (000 ~ 255) Sec.

This zone sets the maximum timee that the Door Sensor will ring the stations. 000 disables the ringing.

Related Zones. [Z302](#), [Z303](#), [Z602](#)

Zone 125 Busy Tn On1 Time

Default value = 025

Range = (000 ~ 255) *20 mSec.

[Zone 125](#) and [Zone 126](#) define the carrier's busy tone cycle so the system can recognize busy tone. [Zone 125](#) is the duration of tone on and [Zone 126](#) is the duration of silence in the cycle.

Related Zones. [Z109](#), [Z126](#), [Z242](#)

Zone 126 Busy Tn Off1 Time

Default value = 025

Range = (000 ~ 255) *20 mSec.

[Zone 125](#) and [Zone 126](#) define the carrier's busy tone cycle so the system can recognize busy tone. [Zone 125](#) is the duration of tone on and [Zone 126](#) is the duration of silence in the cycle.

Related Zones. [Z109](#), [Z125](#), [Z242](#)

Zone 127 Busy Tn On2 Time

Default value = 012

Range = (000 ~ 255) *20 mSec.

[Zone 127](#) and [Zone 128](#) define a second example of the carrier's busy tone cycle so the system can recognize busy tone. [Zone 127](#) is the duration of tone on and [Zone 128](#) is the duration of silence in the cycle.

Related Zones. [Z109](#), [Z128](#), [Z242](#)

Zone 128 Busy Tn Off2 Time

Default value = 012

Range = (000 ~ 255) *20 mSec.

[Zone 127](#) and [Zone 128](#) define a second example of the carrier's busy tone cycle so the system can recognize busy tone. [Zone 127](#) is the duration of tone on and [Zone 128](#) is the duration of silence in the cycle.

Related Zones. [Z109](#), [Z127](#), [Z242](#)

Zone 129 Swon Delay Time

Default value = 003

Range = (000 ~ 255) *40 mSec.

This timer is the duration taken by the system to make the connection of an extension to a C.O. line when a C.O. line is selected. Any digits dialed during this period may be lost. For an SLT, this may mean malfunctioning of the redial facility.

NOTE! THIS MUST NOT BE 000 IF LCR IS PROGRAMMED. IF LCR IS IN USE ZONE 219 MUST BE A NON-ZERO VALUE

Related Zones. [Z216](#)

Zone 130 Co Delay Tm

Default value = 001

Range = (000 ~ 255) *1 Sec.

This timer inhibits re-selecting a C.O. line, for the set time, after it has been released from an outgoing call. I.e.: prevents "follow on" calls.

Related Zones. [Z134](#)

Zone 131 Door SensorD

Default value = 000

Range = (000 ~ 255) *1 Sec.

Stations will not ring when the Door Sensor has been activated, until this time has been reached.

Related Zones. [Z602](#)

Zone 132 (AV256 only) Meter Delay Time

Default value = 000

Range = (000 ~ 255) *1 Sec.

This timer inhibits the detection of meter pulses until the timer has been reached

Related Zones. [Z251](#)

Zone 133 Disa Wait C.

Default value = 015

Range = (000 ~ 180) *1 Sec.

If a DISA call is transferred to the consoles and all the consoles are busy, the system will recheck the consoles and a reminder tone will be sent to the consoles at this time. This will repeat until one becomes free or until four rechecks are made. After four rechecks the call will be released. The call is not COB on the Consoles

Related Zones. [Z400](#), [Z122](#), [Z229](#)

Zone 134 In Delay Tm

Default value = 010

Range = (000 ~ 255) *1 Sec.

This timer inhibits selecting a C.O. line for an outgoing call, for the set time, after it has been released from an incoming call. Ie.: prevents call crashing.

Related Zones. [Z130](#)

Zone 135 (First Function) Key Page Tm

Default value = 006

Range = (000 ~ 255) *5 Sec. (Minimum value = 007. Less than 007 results in 35 seconds)

This timer is the duration that a station will stay in the second page state once the second page button has been pressed. Pressing the second page button will immediately return the station to the first page state.

Related Zones. [Z500](#), [Z503 Item 2](#) and [Item 8](#)

Zone 135 (Second Function) Silent Time for Zone 212

Default value = 060

Range = (000 ~ 255) *5 Sec. (Minimum value allowed = 007)

This timer sets the period between ringing for a normal SLT using the Message Waiting Function.

NOTE! IF THE EXTENSION CARD IS A SLUC ON AN AV256, A 90 V LAMP/LED CAN BE USED IN LIEU OF RINGING. THE SLT WILL FLASH DURING THE PERIOD OF THIS ZONE.

Related Zones. [Z136](#), [Z245](#), [Z504 Item 3](#)

Zone 136 (First Function) SOS Delay Tm

Default value = 006

Range = (000 ~ 255) *1 Sec.

If the SOS sensor has been activated, this timer inhibits dialing out until the time has been reached.

To cancel the timer function:- From a console, off-hook, dial # ,5, 5, Password set in [Zone 301 Item 2](#)

To re-arm:- From a console, off-hook, dial #, 5, 7

Related Zones. [Z135](#), [Z243](#), [Z303](#), [Z404](#)

Zone 136 (Second Function) Ringing Time for Zone 212

Default value = 006

Range = (000 ~ 255) *5 Sec.

This timer sets the ringing period for a normal SLT using the Message Waiting Function as set by [Zone 245](#).

NOTE! IF THE EXTENSION CARD IS A SLUC ON AN AV256, A 90 V LAMP/LED CAN BE USED IN LIEU OF RINGING. THE SLT WILL STILL RING DURING THE PERIOD OF THIS ZONE.

Related Zones. [Z 245](#), [Z 504 Item 3](#)

Zone 137 and Zone 138 Reserved

Default value = 000

Range = (000 ~ 255) *1 Sec.

These zones have no current function.

Related Zones. None

Zone 139 ACD Tm

Default value = 015

Range = (000 ~ 255) *1 Sec.

*This timer sets the answer time for the Queue function. The call will be answered by the system only after the time has been reached **and all the stations assigned in [Zone 600](#) and [Zone 601](#) are busy.***

Related Zones. [Z402](#), [Z600](#), [Z601](#)

Zones 140 to 199 not available on AV24

Default value = 000

Range = (000 ~ 255) *1 Sec.

These Zones are not functional for the AV256.

Related Zones. None

Zone 140 DISA Delay2

Default value = 000

Range = (000 ~ 255) *1 Sec.

This Zone has the same function as [Zone 139](#).

Related Zones. [Zone 139](#), [Zone 604 Item 02](#), [Z614](#).

Zone 141 DISA Delay3

Default value = 000

Range = (000 ~ 255) *1 Sec.

This Zone has the same function as [Zone 139](#).

Related Zones. [Zone 139](#), [Zone 604 Item 02](#), [Z614](#).

Zone 142 DISA Delay4

Default value = 000

Range = (000 ~ 255) *1 Sec.

This Zone has the same function as [Zone 139](#).

Related Zones. [Zone 139](#), [Zone 604 Item 02](#), [Z614](#).

Zone 143 Door ring Tm

Default value = 020

Range = (000 ~ 255) *1 Sec.

This Zone sets the duration that a door station will ring.

Related Zones. [Z602](#)

Zone 144 System Wide

Default value = 020

Range = (000 ~ 255) *1 Sec.

This Zone sets the duration of ringing time before System Wide Call Forward transfers the call.

D.I.D:- If called ext is free, [Zone 144](#) applies to Sys Call Fwd time If ext is busy, [Zone 122](#) applies

If [Zone 122](#)=0, Sys Call Fwd will not occur if the station is busy. Ie: 15 buttons must have reminder tone.

Related Zones. [Z122 \(in-dials\)](#), [Z242](#), [Z248](#), [Z400 Group 05](#).

Zones 145 to Zone 199 are Reserved

These Zones have no function.

Zone 200 PABX Out

Default value = 9

Range = (0 ~ 9)

This Zone assigns the digit necessary to dial for accessing an outgoing line through a PABX.

Related Zones. [Z 604 Item 1](#).

Zone 201 Operator

Default value = 0

Range = (0 ~ 9)

NOTE! This zone must not be the same digit as [Zone 202](#)

This Zone allocates the digit to be dialed to access the console (operator).

Related Zones. [Z 400](#), [Z202](#)

Zone 202 Dial-9 CO

Default value = 9

Range = (0 ~ 9)

NOTE! This zone must not be the same digit as [Zone 201](#)

This Zone assigns the digit to be dialed when trying to access a free CO line.

Related Zones. [Z603](#), [Z201](#)

Zone 203 Toll Code

Default value = 0

Range = (0 ~ 9)

This Zone assigns the digit to be dialed when trying to dial a Toll (STD) number.

Related Zones. [Z253](#), [Z405](#), [Z408](#), [Z409](#), [Z614](#),

Zone 204 12/24 Clock

Default value = 0

Range = (0 ~ 1)

This Zone allows the system time to be displayed as 12 Hour or 24 Hour formats.

Related Zones. [Z304](#)

Zone 205 Ext Number LEN.

Default value = 2

Range = (2 ~ 4)

This Zone allocates the number of digits (2, 3 or 4) in a station's number.

Related Zones. [Z 502 Item 1](#)

Zone 206 Local Digit LEN.

Default value = 0

Range = (0 ~ 9)

This Zone allocates the number of digits in a local call number.

Related Zones. [Z206](#), [Z405](#)

Zone 207 ICM Call(KP) TYPE

Default value = 1

Range = (0:V or 1:R)

*This Zone allows the system to signal an intercom call by voice(0) or ringing (1). The caller can alternate the signaling by pressing the * key.*

Related Zones. None

Zone 208 ICM DT SIGN

Default value = 0

Range = (0:S ~ 1:I)

This Zone allocates either continuous tone (0) or interrupted tone (1) for intercom dial tone.

Related Zones. None

Zone 209 ICM ODD

Default value = 0

Range = (0 ~ 1)

This Zone enables or disables single digit dialing for intercom calls. The groups are set in [Zone 401](#).

0= Single Digit Dialling is disabled

1= Dial the extension as set in [Zone 401](#), within a Group 1=first ext.,2=second ext.,3=third ext., etc.

2=Dial the whole group as set in [Zone 401](#) using Common Signalling. Group1=dial 1, Group 2= dial 2, etc.

3=Dial the group number (7 groups max) and the calls are rotated through the group as set in [Zone 401](#) in turn from Item 01 to 08

NOTE! Only 1,2,3,4,5,7,and 8 can be used for single digit dialling

6, 9 & 0 ARE NOT VALID EXTENSIONS NOR ARE THEY VALID EXTENSION GROUPS.

6 IS THE "BREAK-OUT TO FULL EXTENSION NUMBER" CODE.

I.E. TO RING A SPECIFIC EXTENSION, DIAL 6 AND THEN THE EXTENSION NUMBER.

[Zone 209 = 1](#)

Only Group 01 is available

DIGIT DIALLED	EXTENSION TO RING
1	Group 01 Item 01
2	Group 01 Item 02
3	Group 01 Item 03
4	Group 01 Item 04
5	Group 01 Item 05
7	Group 01 Item 07
8	Group 01 Item 08

[Zone 209 = 2](#)

All 7 Groups (1, 2, 3, 4, 5, 7, 8) are available

DIGIT DIALLED	EXTENSION TO RING
1	Group 01 Items 01~08
2	Group 02 Items 01~08
3	Group 03 Item 01~08
4	Group 04 Item 01~08
5	Group 05 Item 01~08
7	Group 07 Item 01~08
8	Group 08 Item 01~08

[Zone 209 = 3](#)

continued

All 7 Groups (1, 2, 3, 4, 5, 7, 8) are available

DIGIT DIALLED	EXTENSION TO RING
1	Group 01 Item 01
1	Group 01 Item 02
1	Group 01 Item 03
1	Group 01 Item 04
1	Group 01 Item 05
1	Group 01 Item 06
1	Group 01 Item 07
1	Group 01 Item 08

or

DIGIT DIALLED	EXTENSION TO RING
2	Group 02 Item 01
2	Group 02 Item 02
2	Group 02 Item 03
2	Group 02 Item 04
2	Group 02 Item 05
2	Group 02 Item 06
2	Group 02 Item 07
2	Group 02 Item 08

Etc

Related Zones. [Z 401](#)

Zone 210 ICM Hunting

Default value = 0

Range = (0 ~ 3)

Allows a calling station to dial 4 on an intercom call to a busy station/ non-answering station and be transferred to the next free station in the same Station Groupset in [Zone 503 Item 1](#)

0 = Disable 1 = Enable

Related Zones. [Z 503 Item 1](#), [Z508](#)

Zone 211 Wake Up Call

Default value = 1

Range = (0 ~ 1)

This Zone allocates the Voice message (0) or BGM (1) for the Wake Up Call function.

Related Zones. None

Zone 212 SLT Msg Wait Sign

Default value = 1

Range = (1:R ~ 2:V)

Allows Message Waiting signal to be left for an SLT. It will ring for the time set in [Zone 136](#) and be silent for the time set in [Zone 135](#). This continues until the call is answered and then an automatic intercom call is made to the extension that left the message waiting signal. **This Zone must be 0 if SLUC cards are used.**

Related Zones. [Z135](#), [Z136](#), [Z245](#)

Zone 213 Make/Break TYPE

Default value = 0

Range = (0 ~ 1)

This Zone allocates the Make to Break ratio of the pulse dialer.

0 = 33/66 ratio 1 = 40/60 ratio

Related Zones. [Z604 Item 1](#)

Zone 214 AT CO Search

Default value = 1

Range = (0 ~ 1)

This Zone allows the system to automatically select a free CO line for auto redial and Speed Dial functions.

0 = Disable

1 = Enable

Related Zones. None

Zone 215 Dial-9

Default value = 1

Range = (0 ~ 2)

This Zone allows/disallows selection of a free CO line by dialing the digit as set in [Zone 202](#).

0 = Disable selection

1 = Selection of a free line starting from CO 1.

2 = Selection of a free line in a rotating order commencing at CO 1. ie.: CO1, then CO2, then CO3, etc.

Related Zones. [Z202](#), [Z503 Item 03](#), [Z603](#)

Zone 216 CO Delay AV8/12/16/20/24/38 15Key page D AV256

Default value = 0

Range = (0:D ~ 1:E)

Note! Either the value in [Zone 129](#) must be 000, or this zone must be disabled if call waiting is required.

AV 8/16/24/38 This Zone enables or disables the CO Delay function as set in [Zone 129](#). If the delay is enabled, problems could be encountered with SLT redial and Speed Dial functions.

AV256 Page announcement signal either multi tone or single tone warning, 15 button keyphones only

Related Zones. [Z129](#)

Zone 217 CO Mute

Default value = 0

Range = (0:D ~ 1:E)

This Zone disables the use of an external DTMF generator on a Keyphone until after the third digit is dialed.

Related Zones. None

Zone 218 DISA Recall

Default value = 3

Range = (0 ~ 3)

This Zone enables/disables a DISA caller to be transferred to a console if

a) the station is busy

b) the station does not answer or does not exist

c) a or b

0 = Disable

1 = Enable when no answer. Transfer will occur after the time set in [Zone 116](#).

2 = Enable when busy or for a non-existent station number. Transfer will occur after the time set in [Zone 117](#).

3 = Enable for cases in 1 or 2. Transfer will occur after the appropriate time setting is reached.

IF ZONE 218 = 0 OR
IF ZONE 400/07/01 = 00
PLAY MESSAGE 07
AND END CALL

IF Z218 IS NON-ZERO
& Z400/07/01 = 00
PLAY MESSAGE 07
AND END CALL

IF Z218 IS NON-ZERO
& Z400/07/01 IS NON-ZERO
TRANSFER THE
CALL TO THE
EXT IN Z400/07/01

Related Zones. [Z116](#), [Z117](#), [Z219](#), [Z400](#), [Z604 Item 3](#)

Zone 219 DISA Trf GP

Default value = 0

Range = (0 ~ 5)

This Zone determines where a DISA call will transfer to if not answered.

0 = Transferred to the first available console in the same console group as the called station.

1 = Transferred to the first available console in the console group which has the same number as the CO group of the DISA line which is assigned in [Zone 603](#). This will only occur when [Zone 222](#) = 1.

2 = Transferred to all consoles in the same console group as the called station's group number.

3 = Transferred to all consoles in the same console group as the CO group of the DISA line assigned in [Zone 603](#) when [Zone 222](#) = 1.

4 = Incoming DISA calls will not ring to stations (CO LED will flash) during times specified in [Zone 308](#). Busy reminder tone will be sent to the first console group at a time set by [Zone 133](#).

*5 = **Night Service Operation**. DISA no answer calls will transfer to consoles in [Zone 400](#) Group 06 when the no answer time has expired*

6 = Console calls will be externally call forwarded to the ext in [Zone 400](#) Grp 07 Item 04 during midday times or the call is terminated after message 18, or midday consoles will ring.

Options for [Zone 219](#) value = 6

If Zone 308 has midday times set and an incoming DISA call is answered:-

- Message code 18 is played
- The system then checks [Zone 400 Group 07 Item 04](#)
- If an extension number is entered into [Z400/07/04](#), the call will be transferred to that extension which can be Func, 2, 6 call forwarded. **OR**
- If [Z400/07/04](#) is set to 00 and [Zone 400 group 04](#) = 00 00 00 00 the call will be ended **OR**
- If there is/are extension(s) in [Zone 400 group 04](#), the call will be transferred to those consoles.

NOTE! If an internal call or a DISA call is diverted/directed to the Consoles, and if [Zone 400, Group 07, Item 04](#) = any Console number, the call will be diverted to the func, 2, 6 number for that Console.

Related Zones. [Z116](#), [Z117](#), [Z133](#), [Z218](#), [Z222](#), [Z308](#), [Z400 Grp 06](#), [Z400 Grp 07 Item 04](#), [Z603](#), [Z604 Item 03](#).

Zone 220 FAX Monitor

Default value = 1

Range = (0 ~ 1)

This Zone enables or disables the Fax Monitoring function

0 = Disable

1 = Enable.

Related Zones. None

Zone 221 InCo/Msg/Moh

Default value = 3

Range = (0 ~ 3)

This Zone enables or disables several functions as follows:

0 = Disable Busy Tone detection AND Disable Holding Reminder Message and Holding music when a DISA call is transferred.

1 = Enable Busy Tone detection AND Disable Holding Reminder Message and Holding music when a DISA call is transferred.

2 = Disable Busy Tone detection AND Enable Holding Reminder Message and Holding music when a DISA call is transferred.

3 = Enable Busy Tone detection AND Enable Holding Reminder Message and Holding music when a DISA call is transferred.

NOTE! Busy Tone detection can only operate during External Call Forward (ECF), or when accessing a CO line for an outgoing call through DISA.

Related Zones. [Z125](#), [Z126](#), [Z127](#), [Z128](#), [Z233](#), [Z402](#)

Zone 222 DSS for DTG

Default value = 1

Range = (0 ~ 2)

This Zone can override the restriction applied by [Zone 603](#) for CO access by the Station.

0 = Disable [Zone603](#) restriction.

1 = Outgoing calls, by pressing DSS CO keys, are restricted to the access assigned in [Zone 603](#).

2 = The station can answer or pickup the incoming line according to [Zone 503 Item 4](#) and [Zone 608](#).

Related Zones. [Z503 Item 4](#), [Z603](#), [Z608](#)

Zone 223 Auto-Redial TIMES

Default value = 20

Range = (00 ~ 99)

This Zone sets the number of attempts that Auto-redial will use.

Related Zones. [Z120](#), [Z121](#)

Zone 224 Limit Call CODE

Default value = 2

Range = (0 ~ 8)

This Zone determines the warning method used by the system when call limiting is applied in [Zone 507 Item 02](#).

0 = A 1 second warning beep is followed 5 seconds later by five 1 second beeps when the time set in [Zone 507 Item 02](#) is reached and the call continues.

1 = A 1 second warning tone is followed 5 seconds later by 5 seconds of beeps. This is repeated every time the setting in [Zone 507 Item 02](#) has expired and the call continues.

2 = At 10 seconds before the setting in [Zone 507 Item 02](#), a warning tone will be heard. This is followed by a continuous beeping 5 seconds later (this will be heard only by the internal party unless it is an SLT, in which case both parties will hear the tone). When the [Zone 507 Item 02](#) time has expired, the call will be released.

3 = This is the same as in 2. With the exception that both parties will hear the tone.

4 = Reserved

5 = Same as in 0, but applies for incoming as well as outgoing.

6 = Same as in 1, but applies for incoming as well as outgoing.

7 = Same as in 2, but applies for incoming as well as outgoing.

8 = Same as in 3, but applies for incoming as well as outgoing.

9 = Reserved.

Related Zones. [Z507 Item 2](#)

Zone 225 Speed Dial

Default value = 0

Range = (0 ~ 9)

This Zone allocates the amount of system and individual speed dial numbers as set out in the table below:

WHEN [ZONE 227](#) (NAME SPEED DIAL) IS DISABLED. I.e.: [ZONE 227](#) = 0

AV8, AV12, AV16, AV20, AV24, AV38

ZONE SETTING VALUE	SYSTEM SPEED DIAL SETS	INDIVIDUAL SPEED DIAL SETS
0	100 (100~199)	580
1	200 (100~299)	480
2	300 (100~399)	380
3	400 (100~499)	280
4	500 (100~599)	180
5	600 (100~699)	80
6,7,8,9	SAME AS 5	SAME AS 5

NOTES: *IF LCR IS ENABLED IN [ZONE 253](#), THIS ZONE MUST BE GREATER THAN 0 OR ONLY THE FIRST 50 SPEED DIAL CODES WILL BE AVAILABLE.*

IF THE “CALLED NUMBER” IS TO BE DISPLAYED, THIS ZONE MUST BE GREATER THAN 0

AV256

ZONE SETTING VALUE	SYSTEM SPEED DIAL SETS	INDIVIDUAL SPEED DIAL SETS
0	100 (100~199)	980
1	200 (100~299)	980
2	300 (100~399)	900
3	400 (100~499)	800
4	500 (100~599)	700
5	600 (100~699)	600
6	700 (100~799)	500
7	800 (100~899)	400
8	900 (100~999)	300
9	SAME AS 8	SAME AS 8

WHEN [ZONE 227](#) (NAME SPEED DIAL) IS ENABLED. Ie.: [ZONE 227](#) = 1

AV8, AV12, AV16, AV20, AV24, AV38

ZONE SETTING VALUE	SYSTEM SPEED DIAL SETS	INDIVIDUAL SPEED DIAL SETS
0	100 (100~199)	240
1	200 (100~299)	140
2	300 (100~399)	40

AV256

ZONE SETTING VALUE	SYSTEM SPEED DIAL SETS	INDIVIDUAL SPEED DIAL SETS
0	100 (100~199)	500
1	200 (100~299)	400
2	300 (100~399)	300
3	400 (100~499)	200
4	500 (100~599)	100
4,5,6,7,8,9	SAME AS 4	SAME AS 4

Related Zones. [Z227](#), [Z253](#), [Z404](#), [Z509](#)

Zone 226 SPD Unrest Range

Default value = 000~000

Range = (aaa ~ bbb)

This Zone sets the range of speed dial numbers that will be exempt from restrictions for outgoing calls.

Eg.: setting aaa to 100 and bbb to 299, exempts speed dial codes 100 to 299 from toll restrictions.

Setting aaa to 300 and bbb to 399, exempts speed dial codes 300 to 399 from toll restrictions.

Setting aaa to any number starting with 0, sets all speed dial codes to be toll restricted.

Related Zones. [Z404](#), [Z405](#)

Zone 227 Name SPD

Default value = 0

Range = (0 ~ 1)

The system can display the calling name and number, or it can display the called name with calling number. It cannot display the calling and called names together.

This Zone enables or disables the ability to use named speed dial codes.

0 = Disable

1 = Enable

DID NAME/NUMBER DISPLAY OPTIONS

With the programming as below, the system will display the **calling name**.

If [Z227](#)=1 and named speed dials are entered into [Z404](#), the display will show the calling name if a match is found with the CLI number from the carrier.

Eg: A call is placed from 0398372301 to 0298771234

[Zone 227](#) = 1

[Zone 404](#) code xxx = 0398372301 / Ralph Robinson

[Zone 610](#) has 234 (AV256) or 34 (AV38)

[Zone 611](#) has a target extension number (14)

The incoming call will display the calling number (0398372301) and the calling name Ralph Robinson on extension 14.

If the system is to display the **called name** in lieu of the calling name, the following programming is required

[Zone 227](#) = 1

[Zone 225](#) = a number greater than 0

[Zone 404](#) Code 201 has 234 / Service

The following chart is used by the system (AV256 example)

Zone 610	Set # used in Z610	Zone 611	Set # used in Z611	Zone 404 Code data	Code number used in Zone 404
234	001	14	001	234	201

The last digits of the called number are placed in a set in [zone 610](#) and the same number is placed in [zone 404](#) in a code whose number is calculated by adding 200 to the set used in zone 610. Also programmed in this zone 404 code is the name Service.

The destination extension is placed in [zone 611](#) in the same set as used in [zone 610](#)

The incoming call will display the name Service and the calling number 0398372301 at extension 14.

Related Zones. [Z225](#), [Z404](#), [Z500](#) (Function key 74 allocation), [Z502](#), [Z604](#)

Zone 228 SMDR Masked

Default value = 0

Range = (0 ~ 9)

This Zone sets the number of dialed number digits that the SMDR will print in a report.

0 = Print all of the digits dialed 1 = Print the first digit only 2 = Print the first two digits only

~ 9 = Print the first 9 digits only

Related Zones. [Z307](#)

Zone 229 Slt Busy Rem

Default value = 1

Range = (0 ~ 1)

This zone also sets the timer for External conference / forward calls. This Zone allows or disallows Busy Reminder Tone to be heard from an SLT. When a busy extension has a second I/C call transferred to it, the tone will be heard through the hand piece. Timing is set in [Zone 122](#)

NOTE! AV8 & AV12 do not have BRT on SLT ports

VSU FITTED	ZONE 229 = 1	TIME = Z119 x 1	10 SEC. = BOTH PARTIES HEAR BEEP	5 SEC. = BOTH PARTIES HEAR MESSAGE CODE 07	CALL IS DISCONNECTED
VSU FITTED	ZONE 229 = 4	TIME = Z119 x 10	10 SEC. = ONLY B PARTY HEARS BEEP	5 SEC. = BOTH PARTIES HEAR MESSAGE CODE 07	CALL IS DISCONNECTED
VSU FITTED	ZONE 229 = 5	TIME = Z119 x 10	10 SEC. = BOTH PARTIES HEAR BEEP	5 SEC. BOTH PARTIES HEAR MESSAGE CODE 07	CALL IS DISCONNECTED
NO VSU	ZONE 229 = 1	TIME = Z119 x 1	10 SEC. = BOTH PARTIES HEAR BEEP	5 SEC. = BOTH PARTIES HEAR BEEP	CALL IS DISCONNECTED
NO VSU	ZONE 229 = 4	TIME = Z119 x 10	10 SEC. = BOTH PARTIES HEAR BEEP	10 SEC. = ONLY B PARTY HEARS BEEP	CALL IS DISCONNECTED
NO VSU	ZONE 229 = 5	TIME = Z119 x 10	10 SEC. = BOTH PARTIES HEAR BEEP	10 SEC. = BOTH PARTIES HEAR BEEP	CALL IS DISCONNECTED

Note! [Zone 119](#) must be a value greater than 015 if [Zone 229](#) = 4 or 5

Related Zones. [Z122](#), [Z119](#),

Zone 230 Link Monitor

Default value = 0

Range = (0 ~ 1)

This Zone allows the system to maintain the cross-links connections when a call has disconnected in an abnormal manner.

0 = Disable

1 = Enable

Related Zones. None

Zone 231 Volume Initi VAL.

Default value = 3

Range = (1 ~ 8)

Start-up volume level for Speaker, Ringing and Handset tones for Keyphones. 8 initial levels can be set.

NOTE! *The system must be powered down / up for the data change to take affect.*

Related Zones. None

Zone 232 B.B.C. Pause TIMES

Default value = 01

Range = (00 ~ 99)

This Zone sets the number of pauses in Speed Dial (only Speed Dial).

The value set in [Zone 100](#) is multiplied by the value in this zone.

*Eg.: If the value in [Zone 100](#) = 20, this gives a pause time of 20*40=800 Ms. If this zone has a value of 2, the pause time for Speed Dialing will be 1600 Ms.*

Related Zones. [Z100](#)

Zone 233 Busy Tn Tms

Default value = 06

Range = (00 ~ 99)

This Zone sets the number of cycles of busy needed by the system to identify Busy Tone.

Related Zones. [Z125](#), [Z126](#), [Z127](#), [Z128](#), [Z221](#)

Zone 234 Co Auto Trf

Default value = 1

Range = (0 ~ 1)

This zone allows or disallows the Auto Transfer facility.

4 = Disable CO Auto-Transfer 5 = Enable CO Auto-Transfer

Zone 234 = 0

Zone 505 Item 05 = 0 or 1

**Manual operation if an SLT transfers a call to an ext that is Func, 2, 6. ie. The call is to be sent external:-
Hook-Flash, Ext Number, Hook-Flash, 3, 3, hang-up**

Auto Transfer is Disabled

Manual operation if an SLT answers multiple incoming calls:-

Answer first call, Hook-Flash, to place first call on hold, Answer second call, Hook-Flash to place second call on hold but retrieves first call..... and so on.

Auto Transfer is Disabled

Zone 234 = 1

Zone 505 Item 05 = 0 or 1

As above but Auto Transfer is Enabled

Zone 234 = 2

Zone 505 Item 05 = 0 or 1

Ext. answers a call and Hook-Flashes to hold the call, dials the ext number and hangs up to transfer the call (Func, 2, 6. or internal transfer)

Auto Transfer is Disabled

Zone 234 = 3

Zone 505 Item 05 = 0 or 1

As above but Auto Transfer is Enabled

Zone 234 = 4

Zone 505 Item 05 = 0 or 1

Ext. answers a call and Hook-Flashes to hold the call, dials the ext number and hangs up to transfer the call (Func, 2, 6. or internal transfer)

Auto Transfer is Disabled

Zone 505 Item 05 = 0

Ext. answers the first call and a second call rings in. Hook-Flash to hold the first call and answer the second call. Hook-Flash to hold the second call and transfer it. Hang-up and first call will recall to the SLT.

Auto Transfer is Disabled

Zone 234 = 5

As above but Auto Transfer is Enabled

Related Zones. [Zone 505 Item 05](#)

Zone 235 System PSW

Default value = 0

Range = (0 ~ 1)

This Zone sets the programming ability to the station in the 1st port only.

Related Zones. [Z300 Item 1](#)

Zone 236 Dial Tn Tms

Default value = 06

Range = (00 ~ 99)

This Zone has no function in Australia.

Related Zones. None

Zone 237 Slt Pulse #*

Default value = 0

Range = (0:D ~ 1:E)

*This Zone allows or Disallows a decadic (Pulse) SLT to simulate the # and * keys.*

0 = Disable. Pulse dialing SLTs cannot use the # and * functions. In this mode of operation, station numbers may start with 7 and 8.

1 = Enable. Pulse SLTs can simulate the # with digit 7 and the * with digit 8. In this mode of operation station numbers should not start with 7 and 8.

Note! This zone will disable 81/82 Message Waiting signals.

Related Zones. [Z245](#)

Zone 238 DISA Group

Default value = 0

Range = (0:D ~ 1:E)

This Zone allows or disallows single digit groups on an incoming DISA line.

NOTE! This is not One Digit Dialing as in [Zone 401](#), but allows access to the groups set up in [Zone 607](#).

Related Zones. [Z607](#)

Zone 239 DND Disable

Default value = 0

Range = (0:D ~ 1:E)

This Zone allows or disallows Do Not Disturb on a system wide basis and can over-ride the DND button.

0 = Disable. The system does have the Do Not Disturb function available.

1 = Enable. The system does **not** have the Do Not Disturb function available.

Related Zones. None

Zone 240 Auto Co Dis.

Default value = 0

Range = 00 ~ 11 (0:D ~ 1:E)

This Zone allows or disallows the automatic access to a C.O. line by lifting the handset. The function can be individually toggled by:- SPK, #, 5, 0. (NOTE! Disable means will work & enable means will not work)

This zone will be over-ridden by [Zone 508](#). 0=enabled: 1=disabled.

\Hot Line Ability.

This allows or disallows the extension to access a CO line by lifting the handset. This feature can be toggled by the extension pressing SPK, #, 5, 0

Relay Active Time.

This will keep the relay operated for 8 seconds in lieu of the default 2 seconds. Relays are set in [Zone 302](#)

Door Ringing

This allows a Door (1 or 2) to ring its own group only, or to ring both groups as programmed in [Zone 602](#).

Show CLI

This allows extensions not in the [Zone 600/601](#) ring group to display the CLI even though they will not audibly ring to the call.

Flexible Digit Programming

This allows variable length extension numbers. It is possible to mix 2, 3 and 4 digit extension numbers on the one system. [Zone 205](#) must = set for a digit length of 3 or 4 and not 2

i.e. rooms on 1st floor are 100 to 110

rooms on 2nd floor are 200 to 210

rooms on 3rd floor are 300 to 310

reception is 40

kitchen is 41

restaurant is 42

bar is 43

These extension numbers are programmed in [Zone 502, port ?? Item 01](#)

ZONE 240	HOT LINE ABILITY SPK, #, 5, 0	RELAY ACTIVE TIME	DOOR RINGS TO EXTS.	IF ZONE 506/06 = 1 SHOW CLI	FLEXIBLE DIGIT PROG.
00	YES	2 SEC	Z602 group 01 OR group 02	NO	DISABLE
01	NO	2 SEC	Z602 group 01 OR group 02	NO	DISABLE
02	YES	8 SEC	Z602 group 01 OR group 02	NO	DISABLE
03	NO	8 SEC	Z602 group 01 OR group 02	NO	DISABLE
04	YES	2 SEC	Z602 group 01 AND group 02	YES & RING HANDSET	DISABLE
05	NO	2 SEC	Z602 group 01 AND group 02	YES & RING HANDSET	DISABLE
06	YES	2 SEC	Z602 group 01 AND group 02	YES	DISABLE
07	NO	2 SEC	Z602 group 01 AND group 02	YES	DISABLE
08	YES	2 SEC	Z602 group 01 OR group 02	NO	ENABLE
09	NO	2 SEC	Z602 group 01 OR group 02	NO	ENABLE
10	YES	2 SEC	Z602 group 01 AND group 02	NO	ENABLE
11	NO	2 SEC	Z602 group 01 AND group 02	NO	ENABLE

Related Zones. [Z205](#), [Z506 Item 06](#), [Z508](#), [Z602 grp 01 & grp 02](#)

Zone 241 Direct Dial

Default value = 0

Range = (0:D ~ 1:E)

This Zone allows or disallows a station to intercom call another station by dialing the station number without lifting the handset or pressing the SPK button. It is recommended that this function be disabled if [Zone 209 \(Intercom One Digit Dialing\)](#) is enabled, or if EH64 (Hotel/Motel) software is used. (see [Zone 506 Item 2](#))

This zone also limits FAC calls to the call duration time or allows unlimited call duration.

0 = Disable direct call.

FAC calls limited to call duration time

1 = Enable direct call.

FAC calls limited to call duration time

2 = Disable direct call.

FAC calls not be limited to call duration time

3 = Enable direct call.

FAC calls not be limited to call duration time

Related Zones. [Z209](#), [Z224](#), [Z403](#), [Z507 Item 3](#), [Z506 Item 02](#)

Zone 242 Xhold

Default value = 1

Range = (0:D ~ 1:E)

NOTE! This function is only available on the AV38 & AV256.

This Zone Enables or Disables Exclusive Hold as well as System Wide Call Forward & FAC time duration.

0 = Disable Exclusive Hold~Disable Sys Call Fwd. 1 = Enable Exclusive Hold~Disable Sys Call Fwd.

2 = Disable Exclusive Hold~Enable Sys Call Fwd. 3 = Enable Exclusive Hold~Enable Sys Call Fwd

Setting 2 or 3 is required for Voice Mail operation to forward calls to Voice Mail ports in [Zone 400 Group 5](#).

D.I.D:- If called ext is free, [Zone 144](#) applies to Sys Call Fwd time If ext is busy, [Zone 122](#) applies

If [Zone 122](#)=0, Sys Call Fwd will not occur if the station is busy. Ie: 15 buttons must have reminder tone.

Related Zones. [Z109](#), [Z110](#), [Z144](#), [Z248](#), [Z400 Group 5](#)

Zone 243 S.O.S. Times

Default value = 00

Range = (00 ~ 99)

This Zone sets the number of times the SOS message will be played when the SOS outgoing call function is activated. NOTE! This function is not available on the AV256.

Note. S.O.S. function requires the following programming.

1. A Sensor must be assigned for SOS function in [Zone 303](#)
2. An SOS message must be recorded and assigned in [Zone 402](#)
3. SOS Speed Dial Number must be programmed in [Zone 404](#), codes 111 to 118.
4. All unequipped CO lines must be locked in [Zone 605](#).

Related Zones. [Z136](#), [Z303](#), [Z402](#), [Z404](#), [Z605](#)

Zone 244 Door SensorR

Default value = 0

Range = (0:N ~ 2:D)

This Zone sets the ringing mode used by the Door Sensor and Door Phone.

Note: D = Day N = Night

	0	1	2	3	4	5
Door Sensor	D+N	N	D	D+N	N	D
Door Phone	D+N	D+N	D+N	D+N	N	D

Related Zones. [Z124](#), [Z131](#), [Z249](#), [Z602](#)

Zone 245 SLT MSG FUN.

Default value = 0

Range = (0:D ~ 1:E)

0 = Disable the ability of an SLT to send a "Message Waiting" signal.

1 = Enable an SLT to send a "Message Waiting" signal by dialing 6 after extension number.

2 = Enable an SLT to send a "Message Waiting" signal by dialing 6 after extension number, or (SLT and Keyphone) dialing 81, extension number. Dialing 82, extension number turns the signal off.

NOTE: IF THE CALLED EXT IS BUSY, BOTH 1 & 2 SET UP A "RECALL WHEN FREE" FEATURE

Related Zones. [Z504 Item 3](#)

Zone 246 VSU REC Copy

Default value = 1

Range = (0:D ~ 1:E)

This Zone allows or disallows copying of voice messages from one voice channel to another when recording. Ie.: from channel 1 to channel 2.

0 = All consoles in [Zone 400](#) can record messages but with copying to other channels disabled.

1 = All consoles in [Zone 400](#) can record messages with copying to other channels enabled.

2 = Only the console in [Zone 400](#) Group 8 Item 01 can record message but without copying to other channels

3 = Only the console in [Zone 400](#) Group 8 Item 01 can record messages with copying to other channels.

Related Zones. [Z400](#), [Z402](#)

Zone 247 Co Ring BGM.

Default value = 0

Range = (0:D ~ 1:E)

This Zone allows the use of Back Ground Music instead of the normal ringing tone.

WARNING! If this Zone is enabled and no external music is supplied, NO audible signal of an incoming call will be heard.

0 = Disabled 1 = Enabled

Related Zones. [Z600](#), [Z601](#)

Zone 248 FWD. FUNC.

Default value = 1

Range = (0:D ~ 1:E)

This Zone enables or disables the Call Forward function.

0 = Disable Call Forward 1 = Enable Call Forward

Related Zones. [Z109](#), [Z110](#), [Z242](#), [Z400 Group 5](#),

Zone 249 Door BGM Rg.

Default value = 0

Range = (1:B ~2:R)

Note: AV8 plays internal chimes if door phone button is pushed. All other systems use this zone.

This Zone sets the ringing signal at keyphones for door phone calls when door phone button is pushed

0 = Original door alarm signal. (the default sound)

1 = Background Music 2 = Incoming ringing signal

Related Zones. [Z124](#), [Z131](#), [Z244](#), [Z602](#)

Zone 250 Ind. Console

Default value = 1

Range = (0:D ~ 1:E)

This Zone allows or disallows a console to program System Speed Dial numbers, Name Speed Dial numbers and System Alarm.

0 = Disable 1 = Enable

Related Zones. None

Zone 251 RS232/MODEM

Default value = 0

NOTE! Must be 3OR 5 for EH64 Hotel/Motel working

Range = (0:R ~ 1:M)

AV 256 & AV 38

0 = SMDR with no Meter Pulse detection. 1 = SMDR and 12 KHz. Meter Pulse Detection.

3 = 12KHz. Meter Pulse Detection &EH64. 5 = Timed call charging & EH64

AV 16 0 = RS232 card installed 1 = Remote Programming card installed

The AV 38 & 256 systems are capable of “metering” calls for the EH64 using a time chart to “create” meter pulses. This feature must have **Reversal on Answer (ROA)** supplied by Telstra.

Local calls can be:-

1. Free (non-reversal)
2. Multi-metered at a common rate ^{Note 1}
3. Multi-metered at a special rate depending on the number dialed ^{Note 2}
4. Single fee charged

ISD/STD calls can be:-

1. Free (non-reversal)
2. Multi-metered at a common rate ^{Note 1}
3. Multi-metered at a special rate depending on the number dialed ^{Note 2}

Programming Zone functions:-

[Zone 251](#) must be set to 5 for timed charging to function

[Zone 203](#) must be set to the STD code (o for Aus)

[Zone 140](#) is the time interval between charges (seconds) for non-listed local calls
[Zone 141](#) is the time interval between charges (seconds) for non-listed STD calls
[Zone 142](#) is the time interval between charges (seconds) for non-listed ISD calls
[Zone 307](#) Item 01 is set for the “free” time before metering starts on all calls (in 5 second blocks)
[Zone 307](#) Item 07 = 1 to enable reversal on answer
[Zone 407](#) Code 01 must contain the ISD access code (eg. 0011)
[Zone 407](#) Codes 21~29 show the listed prefixes that will over-ride the 140~142 timers (eg. for varying the charge on 02, 08, 07 STD calls). This aligns with [Zone 614](#) Items 1~9 for the timing interval.
[Zone 614](#) sets the timing interval (minutes) for listed prefixes in [Zone 407](#) Items 21~29.
 CO 01 corresponds to [Z407](#) Code 21 CO 02 corresponds to [Z407](#) Code 22
 CO 03 corresponds to [Z407](#) Code 23 CO 04 corresponds to [Z407](#) Code 24
 CO 05 corresponds to [Z407](#) Code 25 Etc.
[Zone 604 Item 02](#) Allows non-ISD ([Z407](#) Code 01) and non-STD ([Z203](#)) calls to be free. 8 = free using Decadic dial, 9 = free with DTMF dial

Example:-

Overseas access = 0011 and metered every 10 seconds
 STD code = 0 and general STD calls metered every 30 seconds
 08 calls to be metered every 60 seconds
 02 calls to be metered every 120 seconds
 Local calls (general) are to be metered every 4 minutes
 Local calls 10 1800 are free
 Local calls to 1900 are to be metered every 2 minutes

Zone 251 =5	enable time charging
Zone 203 =0	STD code
Zone 140 =240	time interval for non-listed local calls
Zone 141 =030	time interval for non-listed STD calls
Zone 142 =010	time interval for non-listed ISD calls
Zone 307 Item 01=0	free time before metering begins
Zone 307 Item 07=1	enables ROA
Zone 407 Code 01=0011	ISD code
Zone 407 Code 21=08	listed 08 prefix calls (see Z614 CO 01 for timing interval)
Zone 407 Code 22=02	listed 02 prefix calls (see Z614 CO 02 for timing interval)
Zone 614 =1200000.....	time interval (minutes) for listed calls in Z407 code 21 and 22
Zone 604 CO 01~max Item 02=9	enable free (non-listed) local calls using DTMF dial

Note 1:- Zones 141 & 142 set the interval between charges for STD & ISD calls
Note 2:- codes in Zone 407 are used to allow different dialing prefixes (07, 02, etc) to be charged at a different rate to other STD & ISD calls.
Related Zones. [Z614](#)

Zone 252 Limit Month

Default value = 00
Range = (01 ~ 12)

This Zone sets the calendar month which, when reached, limits all stations to incoming calls only.
 00 = Disable 01 = January 02 = February, etc.

Related Zones. None

Zone 253 SPC Function

Default value = 00
Range = (00, 03, 09, 12)
 00 = Disable digit insert LCR and Disable Toll password print 03 = Enable trunk select LCR
 09 = Enable digit insert LCR and Disable Toll password print
 12 = Enable digit insert LCR and Enable Toll password print

Digit Insertion LCR

The digit insertion LCR feature uses the Speed Dial Codes from 150 to 199 inclusive. These are programmed in [Zone 404](#).

WARNING! UNLESS AN LCR SOFTWARE CHIP IS FITTED, THESE CODES WILL STILL BE ABLE TO BE PROGRAMMED AS SPEED DIALS BY CUSTOMERS. THIS WILL OVER-WRITE THE LCR DATA CAUSING PROBABLE FAILURE OF THE CALL.

The structure of the digit insert LCR code is as follows.

Items 1 to 8 are the code to be matched

Items 9 & 10 are separators (no entry)

Items 11 to 14 are the start time (HHMM)

Items 15 & 16 are separators (no entry)

Items 17 to 20 are the finish time (HHMM)

Items 21 & 22 are separators (no entry)

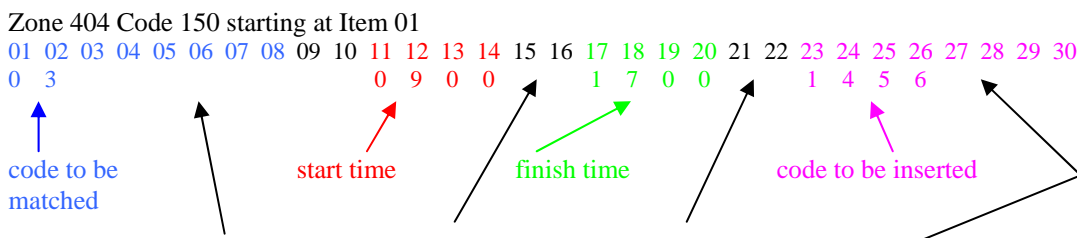
Items 23 to 30 are the Carrier prefix code to be inserted.

SM65 uses the Tab key to select the correct data input item positions

Example:-

If 03 is dialed, the prefix code 1456 is to be used to select Optus in lieu of Telstra as the carrier for the call during business hours 9:00AM to 5:00PM.

ALL DATA MUST BE ENTERED INTO THE CORRECT ITEM POSITION!



BLANK ITEMS WHERE DATA IS NOT USED AND SEPARATORS BETWEEN DATA ENTRY POINTS.

WARNING! IF YOU ARE USING A LAPTOP TO ALTER OR ADD TO EXISTING LCR CODES OR SPEED DIAL CODES, YOU MUST UPLOAD ALL THE EXISTING SPEED DIALS FROM THE SYSTEM THEN MAKE THE ALTERATIONS IN THE LAPTOP AND THEN DOWNLOAD THE NEW DATA TO THE SYSTEM.

The system will check for a match with the dialed number in items 1 to 8 and then if a match is found, it will check to see if the time is in the operating band (items 9 to 12 & items 15 to 18).

If 24 hour insertion is required, enter 0000 for start and finish times.

If a full match is found, the code in items 21 to 30 is inserted before the original number is dialed.

The system will check through all the entered codes looking for a match, until code 150 has been checked or a blank entry is found.

A blank entry in any of the fields stops LCR checking for that call.

As soon as a “no match” is definite (e.g. 02 was dialed or the time is out of band) the system will step onto the next code for checking, or if at code 150, or if a space in a code is found, it will stop the LCR checking programme.

Zone 253 enables / disables the LCR function

Zone 253 = 00 Digit insert LCR is disabled and Toll password is disabled

Zone 253 = 03 CO select LCR and Toll password is disabled

Zone 253 = 09 Digit insert LCR is enabled and Toll password is disabled

Zone 253 = 12 Digit insert LCR is enabled and Toll password is enabled

Zone 225 must not be set to 0 or only the first 50 System Speed Codes will be available.

Trunk (CO) selection LCR

This allows the system to select a group of trunks depending on the number that the extension has dialed.

The system can be programmed to select a particular CO for LCR purposes.

A group of COs can be selected instead of digit insertion.

If zone 253=03, this will turn on the “trunk select” function and turn off the digit insertion function

A code is entered into SPD codes 150~199 (e.g. 04 for mobiles)

The SPD code is also programmed to use CO 02.

This will force the system to use a CO from the group 02 in [zone 603](#) for all outgoing calls when 04 are the first two digits. You can define up to 8 digits for the SPD (trunk select) code.

AUTO TRUNK SELECTION WILL OPERATE:-

1. **WHEN A CO IS MANUALLY SELECTED, OR**
2. **WHEN USING THE “DIAL 9” FEATURE, OR**
3. **WHEN USING SPEED DIAL CODES, OR**
4. **WHEN USING THE REDIAL FETAURE.**

THE ABOVE APPLIES TO BOTH KEYPHONES AND SLTs.

The trunk group selection works as in the table below:

SPD code programmed to use CO	Zone 603 CO group that will be used
01	01
02	02
03	03
04	04
05	05
06	06
07	07
08	08
09~12	05
00	05

When programming Speed Dial codes ([zone 404](#), codes 100~199 and 200~???), the code can be programmed to use a particular CO. In this case it will not select the particular CO but select a CO from the group as above. This means that if the function is invoked, all calls whether manually dialed or Speed dialed, will trunk select from the [zone 603](#) groups according to the programming.

You can force carrier selection, or you can force selection of ISDN/PSTN as desired.

[Zone 253](#) enables / disables the LCR function

- [Zone 253](#) = 00 Digit insert LCR is disabled and Toll password is disabled
- [Zone 253](#) = 03 CO select LCR and Toll password is disabled
- [Zone 253](#) = 09 Digit insert LCR is enables and Toll password is disabled
- [Zone 253](#) = 12 Digit insert LCR is enabled and Toll password is enabled

[Zone 225](#) must not be set to 0 or only the first 50 System Speed Codes will be available.

Digit Insertion LCR with [Zone 253](#) = 10

If [Zone 253](#) = 10, the following features are available

- a) digit deletion and insertion (digit replacement)
- b) Digit insertion using a common number to be inserted
- c) Normal digit insertion operation.

This is achieved by using different areas of the [Zone 404](#) look up table (codes 150~199)

Examples:-

[Zone 253](#) = 10

Digit replacement.

[Zone 404](#) codes 150 ~ 159 are used for digit replacement. The number to be matched is programmed into code 150 as usual, as are the times and insert codes.

[Zone 404](#) code 150:-

03-----0000--000--02-----

If an extension dials **0398372300**, the system will replace the **03** with **02** and it will dial **0298372300**.

Digit insertion to a common number

[Zone 404](#) codes 160~169 are used for common insertion.

[Zone 404](#) code 160:-

03-----0000--0000-----

[Zone 404](#) code 161:-

09-----0000--0000-----

Zone 404 code 199:-

1485-----

If an extension dials **03**12345678 or dials **09**12345678, the system will insert the data in Zone 404, 199 and therefore dial 1485**03**12345678 or 1485**09**12345678

Normal digit insertion

Zone 404 codes 170~198 are used for normal digit insertion.

Zone 404 code 170:-

03-----0000--0000--1485-----

If an extension dials **03**12345678, the system will dial 1485**03**12345678

Zone 404 code 171:-

04-----0000--0000--1888-----

If an extension dials **04**12345678, the system will dial 1888**04**12345678

Zone 404 code 172:-

08-----0000--0000--1444-----

If an extension dials **08**12345678, the system will dial 1444**08**12345678

Related Zones. [Z404](#), [Z603](#)

Zone 254 SLT. Flash-7

Default value = 0

Range = (0:D ~ 1:E) **This allows an SLT to use Carrier Easy Call features requiring a hook-flash**

This Zone allows an SLT to place a call on hold by either HOOK-FLASH alone, or by using FLASH + 7.

0 = Disable. SLT places a call in hold by Hook-Flash or pressing FLASH

1 = Enable. SLT places a call in hold by Hook-Flash + 7, or by pressing FLASH + 7.

Related Zones. None

Zone 255 VM PRE DIGIT

Default value = 8

Range = (0 ~ 9)

This Zone allocates the digit for activating the message waiting signal. (default = 81 ~ 82)

Related Zones. [Z245](#)

Zone 256 MIDDAY FG

Default value = 0

Range = (0 ~ 1)

This Zone changes the Ext. Toll layer from day setting to night setting during the Midday time

0 = Disable 1 = Enable

Related Zones. [Z503 Item 05/06](#)

Zone 257 TOLL fg

Default value = 0

Range = (0 ~ 1)

Enables or Disables the enhanced FAC call barring layer feature.

[Zone 257](#) = 0

FAC feature operates as normal. i.e. if an extension is given a restriction layer, and a call is made using a valid FAC, the call will be unrestricted. When the call has ended, the restriction for that extension will be re-applied.

[Zone 257](#) = 9

The above also applies

[Zone 257](#) = 1~8

The FAC operates as before, with the exception that the call under the control of the FAC will be subject to the restriction layer corresponding to the 1st digit of the FAC.

Examples.

Zone 257 = 0

FAC = 1234

Zone 503, Extension 11, Item 05/6 = 22

If a FAC is used to initiate a call from ext 11, the call will be made and it will be unrestricted. At the end of the FAC call, the restriction layer 2 will apply again. This will be unrelated to the FAC used

Zone 257 = 1

FAC = 2345

Zone 503, Extension 11, Item 05/6 = 22

If a FAC is used to initiate a call from ext 11, the call will be made and it will be restricted to layer 2. At the end of the FAC call, the restriction layer 2 will apply again

Zone 257 = 1

FAC = 3456

Zone 503, Extension 11, Item 05/6 = 22

If a FAC is used to initiate a call from ext 11, the call will be made and it will be restricted to layer 3. At the end of the FAC call, the restriction layer 2 will apply again

Zone 257 = 1

FAC = 6543

Zone 503, Extension 11, Item 05/6 = 22

If a FAC is used to initiate a call from ext 11, the call will be made and it will be restricted to layer 3. At the end of the FAC call, the restriction layer 6 will apply again

NOTE! If the 1st digit of the FAC is 9, then the normal restriction (non FAC) will apply during the FAC call.

Example

Zone 257 = 1

FAC = 9543

Zone 503, Extension 11, Item 05/6 = 22

If a FAC is used to initiate a call from ext 11, the call will be made and it will be restricted to layer 2. At the end of the FAC call, the restriction layer 2 will apply again

Related Zones. Z403,

Zone 258 to Zone 299 Reserved

Zone 300 System Reset

Default value = 0

Range = (1 ~ 3)

This Zone allows the programmer to reset the system data to the default settings. It is recommended that every system should be reset before programming for the first time.

DATA ENTERED	SYSTEM DATA	SYSTEM SPEED DIAL CODES	ALL ROOM RECORDS	ALL ROOMS CHECKED OUT
1	RESET	NOT RESET	RESET	NO
2	RESET	RESET	RESET	YES
4	NOT RESET	NOT RESET	RESET	NO

Related Zones. All Zones

Zone 301 Set (PASSWORDS)

Default value = See individual sets (passwords)

Range = Not Applicable

This Zone sets the Password(s) as required by the user.

Set 01. Programming Password. P-PROG

Sets a required password before programming can commence.

Default = ddddddd

Set 02. SMDR & SOS Password. P-SMDR

Sets a required password to lock or unlock the SMDR port and to reset the SOS alarm (#55) & (#57).

With SMDR locked:-

AV8 stores 100 calls
AV38 store 100 calls
AV16 stores 50 calls
AV24 stores 25 calls
AV256 stores 250 calls or 1160 calls for EH64

Default = dddddddd

Set 03. DISA Password. P-DISA

Sets a required password for a DISA caller to access a relay function or a free CO line

Default = ----dddd

Set 04. Toll free password P-TOLL

Sets a required password over-ride all Toll restrictions.

Default = ----dddd

Set 05. Incoming Paging Password P-PAGE

This function is not available on a AV256. This function requires a Voice Service Card.

Sets a required password for a DISA caller to access the Paging facility.

Default = ----dddd

Set 06. Reserved Passwd

Reserved for a future required password

Default = ----dddd

Set 07. Remote Programming Password Pmodem

Sets a required password for entering remote programming mode.

Default = ----dddd

Set 08. Headset Password P-HEAD

Sets a required password for a user to enter/leave Headset mode.

Default = dddddddd

Related Zones. [Z235](#), Various Zones are affected by the passwords.

Zone 302 Relay Fun (Item = relay number)

Default value = 02 00

Range = Relay # 00~18

AV8, AV12 = 1 relay (Item 01)

AV16, AV20, AV24 & AV38 = 2 relays (Item 01 = relay 1, Item 02 = relay 2)

AV256 = 16 relays 4 per cabinet maximum (Items 01 to 16)

This Zone sets the functions that the relay(s) will provide.

00 = No operation	01 = Music on Hold
02 = Door 1 Open	03 = Door 2 Open
04 = CO Loud Bell	05 = Station Loud Bell
06 = Sensor Alarm	07 = Remote control. The relay is operated & released via a DISA call
08 = Secret Recording	09 = Latch door relay during door call (AV12, 38 & 256 only)
10 = External All Zone Page	11 = External Zone 1 Page
12 = External Zone 2 Page	13 to 18 = External Zones 3-8 Page

Related Zones. [Z504 Item 4](#), [Z604 Item 6](#)

Zone 303 Sensor (Item = Sensor number)

This Zone sets the function and operating conditions of the system sensor(s).

AV8/12 (1 Sensor)

Default value = 03 00
First number is the sensor function according to the chart below
Second number is the Normally open/closed indicator

Range = 00~18 (function) 00~01 (normal condition indicator)

AV16/20/24/38 (2 Sensors)

Default value = 03 00 00 00
First & second numbers are the Sensor function according to the chart
Third and fourth numbers are the Normally open/closed indicator

Range = 00~18 (function) 00~01 (normal condition indicator)

AV256 (4 Sensors)

Default value = 03 00 00 ... 00 First 4 numbers are the Sensor function according to the chart
Last 4 numbers are the Sensor Normally open/closed indicator

Range = 00~18 (function) 00~01 (normal condition indicator)

Sensor number	Sensor Function
00	Non-Operational
01	Fire Alarm (continuous alarm)
02	Break in Alarm (interrupted)
03	Door 1 Switch Sensor
04	Door 2 Switch Sensor
05	Relay Enable
06	S.O.S. Sensor
07	S.O.S. and Relay
08~18	Reserved

Normally open/closed indicator	Sensor Operation Condition
00	Low Level Control
01	High Level Control

Low Level means Normally Open condition
High Level means Normally Closed condition.

NOTES.

Fire Alarm Application:

When the Sensor is triggered, all idle stations will ring continuously. All busy stations will hear the alarm tone. To cancel the Fire Alarm, go off-hook at a station and press # + 5 + 2.

Break In Alarm:

When the Sensor is triggered, all idle stations will ring continuously and will stop ringing only when the Sensor is returned to the normal condition.

S.O.S. Alarm:

When the Sensor is triggered, the system will make outgoing calls on all CO lines through the Speed Dial function according to [Zone 243](#) and [Zone 404](#). All engaged lines will be disconnected by the system. To cancel S.O.S., go off-hook at a station and press # + 5 + 5 + the password as set in [Zone 301 Item 2](#).

If Sensor = 05 Relay Enable.....This enables the relay function in conjunction with the sensor
eg.: Sensor 1 enables relay 1, Sensor 2 enables relay 2, etc.

If Sensor = 07 S.O.S. and Relay Enable.....This enables the S.O.S. and the relay function.
Eg.: S.O.S. Sensor 1 enables relay 1, S.O.S. Sensor 2 enables relay 2, etc.

Related Zones. [Z124](#), [Z243](#), [Z404](#)

Zone 304 D/M/Y W T

Default value = current system date and time

Range = N/A

NOTE: Some software versions reverse the Day and the Month. Check the display before altering

This Zone allows the programmer to set the system date and time.

Data is keyed into the system in the following order:

MM/DD/YY w hh mm

Where MM is the Month 01~12

DD is the Day of the Month 01~31

YY is the last two digits if the Year 00~99

w is the Day of the Week 01~07 (Monday =01, Tuesday=02, etc.)

hh is the Hour of the Day 00~23

mm is the Minutes of the Hour 00~59

Related Zones. [Z204](#)

Zone 305 Alarm Set = which time setting (01~10)

Default value = 00:00 00 hh:mm d

Range = See below

This Zone allows the programmer to set the system Alarm Clock. There are ten individual times that can be set for this function. When triggered, all idle keyphones will emit Background Music for the time as set by the duration. SLTs will not be affected by this function.

Hh 00~23 Depending on 12 or 24 Hour Clock

mm 00~59

d 00~99 Duration of signal in Minutes

Related Zones. [Z204](#), [Z304](#)

Zone 306 Day TM Set = Day of Week (00~06)

Default value = 8:30 to 17:30 for all days except Sunday which is 00:00 to 00:00 (hh:mm to HH:MM)

Range = as below

Set: 00 = Sunday, 01 = Monday, 02 = Tuesday, etc.

This Zone allows the Day time duration for each day of the week.

Hh = start hour for Day Time Duration 00~23 mm = start minutes for Day Time Duration 00~59

HH = end hour for Day Time Duration 00~23 MM = end minutes for Day Time Duration 00~59

Related Zones. [Zone 219](#), [Z503 Item 5](#), [Item 6](#), [Z600](#), [Z601](#), [Z604 Item 3](#), [Item 5](#), [Item 7](#), [Item 8](#), [Append A3](#)

Zone 307 SMDR (enter required item number)

Default value = 0 1 1 1 1 21 0 0

Range = as per each item

This Zone allows the programmer to set various functions as listed below:

Item 01:Start Time The call duration clock will commence timing the call when the CO line is accessed and this time setting is reached. The time is set as 5 Seconds * this setting number.

0 = 00 Seconds 01 = 05 Seconds 02 = 10 Seconds etc.

Item 02:Rec-Incom The system will/will not record all incoming calls.

0 = Do not record 1 = Record

Item 03:Rec-Local Local calls will/will not be recorded.

0 = Do not record 1 = Record

Item 04:Rec-NoAns Incoming calls that are not answered will/will not be recorded.

0 = Do not record 1 = Record

Item 05:Rec-Title The Title will/will not be printed.

0 = Do not print title 1 = Print title

Item 06:Title-No Sets the number of records to be printed before the title is reprinted.

00~99

Item 07:Polarity **AV24, AV38, AV256 only** Starts call timer only after a line reversal is received.

0 = Disable 1 = Enable

Item 08:SMDR Cabin **AV256 only** This item tells the system which cabinet has the printer or computer connected to it.

1 = Cabinet 1 2 = Cabinet 2 3 = Cabinet 3 4 = Cabinet 4

Item 08:RS232-2 **AV38 only** This item tells the system which of several options have been provided.

0 = For both Remote and Local programming with optional SMDR printout and/or CND.

RSC slot = A6RSCA RPC slot = A6RPCA

CND box connects to RS232-1 port.

SMDR printer connects to COM2 port on CND box or to RS232-1 port if no CND is fitted.

Local programming PC connects to RS232-1 port by disconnecting the other device(s).

1 = For 1 x CND box with optional Local only programming and/or SMDR printout.

RSC slot = A6RSCA RPC slot = A6RSCB (only provided if CND is used).

CND box connects to RS232-2 port.

SMDR printer connects to RS232-1 port.

Local programming PC connects to RS232-1 port by disconnecting the SMDR printer.

3 = For 2 x CND boxes with optional Local programming and/or SMDR printout.
 RSC slot = A6RSCA RPC slot = A6RSCB
 CND box 1 connects to RS232-1 port and CND box 2 connects to RS232-2 port.
 SMDR printer connects to COM2 of CND box 1 in RS232-1 port.
 Local programming PC connects to RS232-1 port by disconnecting CND box 1 in RS232-1 port.

Example of SMDR printout and symbol legend

<u>CO</u>	<u>Ext</u>	<u>S</u>	<u>Telephone #</u>	<u>Account</u>	<u>MM/DD</u>	<u>Start</u>	<u>Duration</u>	<u>Ring</u>
01	12		0088629993380	9125	12/01	08:35	00:05'35"	
05	15	X	123567890		12/01	09:00	00:09'45"	
02	17	D	Incoming	1111	12/01	09:10	00:05'19"	00'02"
03	NN		Incoming No Answer		12/01	10:00		00'30"
04	13	#	Incoming		12/01	10:09	00:00'15"	00'03"
04	11	*	Incoming		12/01	10:11	00:03'10"	
01	d-03	d	090901123		12/01	12:00	00:10'45"	
06	14		0088626522222	FAC:01	12/01	12:30	00:04'45"	

Symbol legend

CO = CO line number	D = DISA Incoming
Ext = Station Number	d = DISA outgoing
S = Control Status	# = call placed in Hold
Telephone # = Telephone number	* = call taken out of Hold
Account = Account allocated to Station	X = disconnection by restriction
MM/DD = Date	Start = Start time of call (HH:MM)
Duration = Time duration of call (HH:MM'SS")	Ring = Duration of incoming ring (MM'SS")

Explanation of examples

Case 1: At 08:35, station 12 made a call to 0088629993380, this call was made on CO 1 and lasted 5 mins 35 secs. And was allocated to Account code 9125.
 Case 2: At 09:00, station 15 attempted a call on CO 5 but was disallowed by restriction.
 Case 3: At 09:10, station 17 answered a DISA call on CO line 2, entered Account code 1111 and the call rang for 2 seconds, with a duration of 5 mins 19 secs.
 Case 4: At 10:00, an incoming call rang for 30 seconds without answer. The caller then disconnected.
 Case 5: At 10:09, an incoming call on CO 4 rang for 3 secs., was answered by station 13, was placed on hold 15 secs. Later.
 Case 6: At 10:10, station 11 retrieved the case 5 call from hold .
 Case 7: At 12:00, an incoming DISA call on CO line 3, made an outside call to 090901123 on CO line 1. The duration of the outgoing call was 10 mins 45 secs.
 Case 8: At 12:30, station 14 made a call on CO line 6 using the Forced Account Code 01. This call lasted for 4 mins 45 secs.

Related Zones. [Z228](#), [Z614](#),

Zone 308 Midday (Set = Day of week)

Default value = 00:00 to 00:00
Range = Hours 00~23, Minutes 00~59

*This Zone allows the programmer to set the system Midday Time.
 Set 00 = Sunday Set 01 = Monday Set 02 = Tuesday etc.
 First time is for the start of midday duration. The second time is for the end of midday duration.*

Related Zones. [Z219](#), [Z402](#), [Z600](#), [Z601](#)

Zone 309 No Function

Zone 310 Company

Default value = Blank screen **Note!** This zone can only be programmed if an EH64 is fitted

This Zone allows the programmer to set the name of the Hotel/Motel for the "Call accounting" printout.

Use the numerical dial pad to select the alphabet letters required.

Related Zones. Nil

Zone 311 to Zone 399 Reserved

Zone 400 Consl (Group = 1 of 8 max)

Default value = 11 12 13 14 for each group

Range = N/A

This Zone allows the programmer to set the consoles for the 8 "Consoles Groups or companies".

A maximum of 4 Consoles can be assigned for each group.

The first station entered in each group is the Master Console for that group.

NOTES.

Groups 1~4

The first console in the group is the master console and will display Night Service message as well as the conf/dnd led lighting. It is also the console that will ring if a group station dials the operator.

The second console in the group will have Conf/DND LED flashing for Night Service indication. It will ring if the operator is dialed and 1st console is busy.

The third console in the group will have Conf/DND LED flashing for Night Service indication. It will ring if the operator is dialed and the 1st and 2nd consoles are busy.

The fourth console in the group will have Conf/DND LED flashing for Night Service indication. It will ring if the operator is dialed and the 1st, 2nd and 3rd consoles are busy.

Group 04 is also used for midday console extensions

Group 5

This Group can be used as the Voice Mail Group. Any calls transferred to a Voice Mail station should be to an SLT in this group. The station should be set as a Voice Mail channel ([Zone 502 Item 02](#)). Busy/No-Answer hunting is automatic for type 7 ([zone 502 Item 02](#)) SLTs in this group

Group 6

This group is the group that night time DISA No Answer calls will be transferred to when [Zone 219 Item 05](#) is enabled.

Group 7

ITEM 02 IS THE KEYPHONE EXTENSION TO BE USED FOR UNSUPERVISED REMOTE PROGRAMMING.

ITEM 04 IS THE CONSOLE FOR FUNC, 2, 6, CALL FORWARDING

If [Zone 218](#) is not = 0, and after 3 attempts to transfer to a console are unsuccessful; the call will be transferred to an SLT EXT that is the first assigned Extension in this group. The system will attempt to the transfer according to the conditions in [Zone 218](#). It is common for this EXT to be an answering machine.

Group 8

If [Zone 246](#) = 2 or 3, only consoles in this group can record the messages for Voice Service card recording.

Related Zones. [Z201](#), [Z218](#), [Z246](#), [Z503 Item 1](#)

Zone 401 S.D.I. (see text for group)

Default value = 00 00 00 00 00 00 00 00

Range = N/A

*This Zone allocates the possible 7 groups available for one digit intercom dialing. If [zone 209](#)=1 then only group 1 is available, and the single digit dials the extension in group 1. ie: dialing 1 gives the ext in Item 01, dialing 2 gives the ext. in Item 02, etc. If [zone 209](#)=2 then all 7 groups are available and all extensions in a group will ring in common. The group can be rung by dialing the single digit of the group number. If a 6 is dialed first, the full extension number can then be dialed to contact a particular extension. **This means that the 6th position (Item 06) in each group when 209=1 is not valid.***

If Z209 = 0 This zone is disabled.

If Z209 = 1 Only group one is available.

~

Item 1 in the group is the extension rung if a 1 is dialed

Item 2 in the group is the extension rung if a 2 is dialed

Item 6 must not be programmed

If Z209 = 2 7 Groups are available. 1, 2, 3, 4, 5, 7, 8

The single digit dialed will ring all the extensions set in the Group

Eg: if a 3 is dialed, all the extensions set in Group 03 will ring
If Z209 = 3 7 Groups are available. 1, 2, 3, 4, 5, 7, 8
 The single digit dialed will ring an ext. in that group. The next call to the same group will ring at the next ext in the group. i.e. load share for the group.
Related Zones. [Z209](#), [Z401](#), [Z503 Item 1](#)

Zone 402 VSU An (Group = Voice Channel number)

Default value = 01 02 03 04 05 06 07 00 00 00 00 00 00 00 00 00 00
Range = N/A

AV8/12 have one Voice Channel
 AV16/20/24/38 have two Voice Channels
 AV256 has a maximum of 40 Voice Channels

This Zone allows the programmer to allocate the Voice Messages to each voice channel as required. If Auto Attendant is required, the messages 01~07 should be programmed as in the chart below. If Call Queuing is required, message 17 should be in Item 1 and message 16 should be in Item 2. It is not possible to have both Call Queuing and DISA together. If Call Queuing or DISA are required, messages should be programmed as in the chart below.

MESSAGE CODE CHART

MESSAGE CODE #	MESSAGE FUNCTION / MEANING.
00	NON-OPERATION
01	THE COMPANY GREETING MESSAGE
02	CALLED STATION IS BUSY MESSAGE
03	NON-EXISTANT STATION NUMBER MESSAGE
04	ALL CONSOLES ARE BUSY MESSAGE
05	STATION DID NOT ANSWER MESSAGE
06	PLEASE HOLD THE LINE MESSAGE
07	UNSUCCESSFUL CALL ENDING MESSAGE
08	DISA FUNCTION CODE REQUEST MESSAGE
09	ENTER THE DISA FUNCTION PASSWORD MESSAGE
10	ACCESS TO PAGING PASSWORD MESSAGE
12	EXTERNAL CALL FORWARDING MESSAGE
16	2 ND QUEUING MESSAGE:- PLEASE HOLD MESSAGE
17	1 ST QUEUING MESSAGE:- COMPANY GREETING MESSAGE
18	MIDDAY MESSAGE FOR ZONE 308 TIME PERIODS
19	ON HOLIDAY OR NIGHT SERVICE MESSAGE
20	WAKE UP CALL MESSAGE

NOTE! The messages can be recorded in any order as long as this Zone is a true indication of the messages actually recorded and in order in which they are recorded.
Related Zones. [Z211](#), [Z221](#), [Z246](#), [Z306](#), [Z308](#), [Z502 Item1](#), [Z600](#), [Z601](#), [Z604 Item 3](#)

Zone 403 FAC (Code = 1 of 26 or 99 max.)

Default value = - d d d d d d d
Range = N/A

This Zone allows the programmer to set the Forced Account Codes that can be used to over-ride the Toll restrictions for a call. A maximum of 8 digits can be used in each code.

AV8/12/16/20/24/38 Maximum codes = 26
 AV256 Maximum codes = 99

DSS keys used :- DSS10 Changes all digits to d
 DSS15 Changes a single digit to -
 DSS20 Changes a single digit to d
 d = any digit allowed (don't care)
 10 = no digit allowed

Related Zones. [Z507 Item 3](#)

Zone 404 SPD (SPD = Speed Dial Code)

Default value = CO:00 100

Range = See chart below

Also see [Zone 253](#) for LCR data entry details and procedure. (Codes 150 ~ 199)

This Zone allows the programmer to allocate the System Speed Dial numbers to a Speed Dial Code that will be available for all stations on the system. Name Speed Dial is only allowed if [Zone 227](#) is enabled.

AV8, AV12, AV16, AV24, AV38	600 Codes in the range 100~699 less codes 150 ~ 199 if LCR is enabled
AV256	900 Codes in the range 100~999 less codes 150 ~ 199 if LCR is enabled

See charts in [Zone 225](#) for further info.

By default, CO = 00. This allows the system to select any free CO line according to the Dial 9 Group set in [Zone 503 Item 3](#) and [Zone 603](#). The system can be forced to use a particular CO line for a Speed Dial call, this is programmed by pressing DSS5 key and changing the 00 to the CO line number required.

NAME SPEED DIAL

If [Zone 227](#) is enabled, the system will accept either the Code number, or a name instead of the code number for speed dialing. I.e.: The user may enter the Code number or the name to make a Speed Dial call. Pressing DSS5 will toggle between the Code/Name entry area, the CO number entry area and the Name speed dial indicator (N) area. The dial pad is used to input the letters for Named Speed Dial as follows:

A = PRESS 2	B = PRESS 2,2	C = PRESS 2,2,2	D = PRESS 3	E = PRESS 3,3
F = PRESS 3,3,3	G = PRESS 4	H = PRESS 4,4	I = PRESS 4,4,4	J = 5
K = PRESS 5,5	L = PRESS 5,5,5	M = PRESS 6	N = PRESS 6,6	O = PRESS 6,6,6
P = PRESS 7	Q = PRESS 1 OR 7,7	R = PRESS 7,7,7	S = PRESS 7,7,7,7	T = PRESS 8
U = PRESS 8,8	V = PRESS 8,8,8	W = PRESS 9	X = PRESS 9,9	Y = PRESS 9,9,9
Z = PRESS 11 OR 9,9,9,9				

DSS3 moves the cursor one place to the left.

DSS4 moves the cursor one place to the right.

Several special functions can be inserted into the number by the following keys

DSS15 F Hook-Flash. Line disconnection for a set duration ([Zone 106](#))

DSS20 Blank Clear the current digit

DSS23 p Pause. Insert a pause into the number for a 25 button ([Zone 100](#), [Zone 232](#))

DSS13 p Pause. Insert a pause into the number for a 15 button ([Zone 100](#), [Zone 232](#))

DSS24 T Pulse to Tone dialing. Changes the dialing from Pulse (Decadic) to Tone (DTMF)

Related Zones. [Z100](#), [Z106](#), [Z225](#), [Z227](#), [Z232](#), [Z253](#)

NOTE! Speed Dial Codes 150~199 can be used by the LCR feature. Careful consideration must be taken into account when you are considering programming ordinary usage SPD numbers into these codes.

Zone 405 Toll (Plan = 1 of 10 toll groups for CO lines)

Default value = The restriction level for all CO lines, defaults to the same level as the plan (group) number

Range = 0~9

It is strongly recommended that [Zone 405](#) be left in the default condition.

This Zone allows the programmer to set the restriction level for each CO line for 10 different groups.

Toll restriction works on a matrix principle as set out below:

TOLL LEVEL	CO #1	CO #2	CO #3	ETC
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

If left in the default state, all CO lines will have the same toll level in any particular plan (group). The stations are then assigned to a plan (group) in [Zone 503 Item 5](#) and [Item 6](#). However, it is possible to alter the levels of any CO line for any plan. This will allow restrictions to be different for any one CO line depending on which plan (group) is being used. Eg.: CO 1 could be 8 for plan 8, but CO 2 could be 0 for plan 8. This may provide extensive restriction capability, but it is recommended that the default values be left in [Zone 405](#).

TOLL LEVEL RESTRICTIONS.

LAYER	FUNCTION	RELATED ZONES
0	Unrestricted	
1	local numbers assigned length only	Zone 206 , Zone 257 ,
2	Only Common Allowed Codes	Zone 406 , Zone 257 ,
3	Any numbers except Common Disallowed Codes	Zone 407 , Zone 257 ,
4	Allowed to dial Area Code A, Office Code A	Zone 408 , Zone 410 , Zone 257 ,
5	Allowed to dial Area Code B, Office Code B	Zone 409 , Zone 411 , Zone 257 ,
6	Allowed to dial Area codes A and B, Office Codes A and B	Zone 408 , Zone 409 , Zone 410 , Zone 411 , Zone 257 ,
7	Toll Private Line	
8	Cannot access CO lines	
9	Reserved	

Related Zones. [Z203](#), [Z503 Item 5](#), [Z503 Item 6](#), Z257,

Zone 406 Allow (Code = 1 of 30 codes: 60 for AV256)

Default value = varies according to code

Range = 11 digits per code

This Zone allows the programmer to set the system Common Allowed Codes that any station (except Toll level 8 restricted stations) can call irrespective of their Toll level.

Examples of Common Allowed Codes

406 Allow 01-01 ----- No numbers allowed.	406 Allow 01-01 077495544 - - Only 077495544 is allowed. No other numbers or digits Allowed to be dialed.	406 Allow 01-01 060dddddddd Allow any numbers starting with 060.
--	---	---

Related Zones. [Z405](#), [Z503 Item 5](#), [Z503 Item 6](#), [Zone 257](#),

Zone 407 Disall (Code = 1 of 30 Codes: 60 for AV256)

Default value = -----

Range = 11 digits per code

This Zone allows the programmer to set the system Common Disallowed Codes that no station (except Toll level 0 unrestricted stations) can dial.

Examples of Common Disallowed Codes

407 Disall 01-01 ----- No numbers are disallowed.	407 Allow 01-01 077495544 - - 077495544 is Disallowed. All other numbers are Allowed to be dialed.	407 Allow 01-01 060dddddddd Disallow any numbers starting with 060.
--	--	--

Related Zones. [Z405](#), [Z503 Item 5](#), [Z503 Item 6](#), [Zone 257](#), [Z614](#),

Zone 408 Area-A (Code = 1 of 30: 60 for AV256)

Default value = _ _ _

Range = 3 digits per code

This Zone allows the programmer to set the Area Codes for "group A" that are used in conjunction with Office code A to achieve Toll restrictions. This zone applies to Toll Layers 4 and 6.

Examples of Area Codes

408 Area-A 01-01 69d Numbers starting with Toll Code + 69 are Office Code A	408 Area-A 01-01 d _ _ This should not be entered. Toll Code any number is Office Code A	408 Area-A 01-01 _ _ _ No numbers are Office Code A.
---	--	--

Related Zones. [Z203](#), [Z405](#), [Zone 257](#),

Zone 409 Area-B (Code = 1 of 30: 60 for AV256)

Default value = _ _ _

Range = 3 digits per code

This Zone allows the programmer to set the Area Codes for “group B” that are used in conjunction with Office code B to achieve Toll restrictions. This zone applies to Toll Layers 5 and 6.

Examples of Area Codes

409 Area-B 01-01	409 Area-B 01-01	409 Area-B 01-01
69d	d _ _	_ _ _
Numbers starting with Toll Code + 69 are Area Code B calls	This should not be entered. All numbers are Area Code B.	No numbers are Area Code B.

Related Zones. [Z203](#), [Z405](#), [Zone 257](#),

Zone 410 Offi-A (Code = 1 of 30: 60 for AV256)

Default value = ddd

Range = 3 digits per code

This Zone allows the programmer to set the Office Codes for “group A” that are used in conjunction with Area Code A to achieve Toll restrictions. This zone applies to Toll Layers 4 and 6.

Examples of Area Codes

410 Offi-A 01-01	410 Offi-A 01-01	410 Offi-A 01-01
69d	d _ _	_ _ _
Numbers starting with Toll Code + Office Code A + 69 are Office Code A calls	This should not be entered. Toll Code + Area Code A + any number is Office Code A	No numbers are Office Code A.

Related Zones. [Z203](#), [Z405](#), [Z408](#), [Zone 257](#),

Zone 411 Offi-B (Code = 1 of 30: 60 for AV256)

Default value = ddd

Range = 3 digits per code

This Zone allows the programmer to set the Office Codes for “group B” that are used in conjunction with Area Code B to achieve Toll restrictions. This zone applies to Toll Layers 5 and 6.

Examples of Area Codes

411 Offi-B 01-01	411 Offi-B 01-01	411 Offi-B 01-01
69d	d _ _	_ _ _
Numbers starting with Toll Code + Area Code B + 69 are Office Code B calls	This should not be entered. Toll Code + Area Code B + any number is Office Code B	No numbers are Office Code B.

Related Zones. [Z203](#), [Z405](#), [Z409](#), [Zone 257](#),

Zone 412 to Zone 499 Reserved

Zone 500 Key GP (Group = 1 of 8 groups.)

Default value = as per following charts

Range = N/A

*This Zone allows the programmer to set the function for any of the **DSS keys** on all **Keyphones**. The systems have 8 default “sets” or groups of DSS Key functions (Groups 01 ~08). Any and all groups may be custom programmed as required. The system will detect the type of handset on power up, and allocate the groups in [Zone 503 Item 02](#) and [Zone 503 Item 08](#) for each extension, as per these charts*

AV12 Group 01 = 25 Button (**KP10**) Handset first page
AV12 Group 02 = 25 Button (**KP10**) Handset second page
AV12 Group 03 = 15 Button White (**KP10X**) Handset first page
AV12 Group 04 = 15 Button White (**KP10X**) Handset second page
AV12 Group 05 = 15 Button Charcoal (**KP10XC**) Handset first page
AV12 Group 06 = 15 Button Charcoal (**KP10XC**) Handset second page
AV12 Group 07 = Not specified
AV12 Group 08 = Not specified

AV20 Group 01 = 25 Button (**KP10**) Handset first page
AV20 Group 02 = 25 Button (**KP10**) Handset second page
AV20 Group 03 = 15 Button White (**KP10X**) Handset first page
AV20 Group 04 = Not specified
AV20 Group 05 = 22 Button (**KP70**) Handset
AV20 Group 06 = Not specified
AV20 Group 07 = 25 Button (**KP50**) Handset
AV20 Group 08 = Not specified

AV38 Group 01 = 25 Button (**KP10**) Handset first page
AV38 Group 02 = 25 Button (**KP10**) Handset second page
AV38 Group 03 = 15 Button White (**KP10X**) Handset first page
AV38 Group 04 = 15 Button White (**KP10X**) Handset second page
AV38 Group 05 = 22 Button (**KP70**) Handset
AV38 Group 06 = Not specified
AV38 Group 07 = 25 Button (**KP50**) Handset
AV38 Group 08 = Not specified

AV256 Group 01 = 25 Button (**KP10**) Handset first page
AV256 Group 02 = 25 Button (**KP10**) Handset second page
AV256 Group 03 = 15 Button White (**KP10X**) Handset first page
AV256 Group 04 = 15 Button White (**KP10X**) Handset second page
AV256 Group 05 = 15 Button Charcoal (**KP10XC**) Handset first page
AV256 Group 06 = 15 Button Charcoal (**KP10XC**) Handset second page
AV256 Group 07 = Not specified
AV256 Group 08 = Not specified

The following charts show the default values for all AV models and groups

DSS #	GRP 1	GRP 2	GRP 3	GRP 4	GRP 5	GRP 6	GRP 7	GRP 8
AV12 1	CO 01	CO 01	CO 01	11	CO 01	11	00	00
AV12 2	CO 02	CO 02	CO 02	12	CO 02	12	00	00
AV12 3	CO 03	CO 03	CO 03	13	CO 03	13	00	00
AV12 4	CO 04	CO 04	CO 04	14	CO 04	14	00	00
AV12 5	FN070	FN070	FN080	FN080	FN080	FN080	FN070	00
AV12 6	00	11	FN003	15	00	15	00	00
AV12 7	00	12	FN002	16	00	16	00	00
AV12 8	00	13	FN071	17	00	17	00	00
AV12 9	00	14	FN001	18	00	18	00	00
AV12 10	FN003	FN003	FN004	FN004	FN003	FN001	FN003	00
AV12 11	11	15	FN005	FN005	FN028	00	00	00
AV12 12	12	16	FN028	FN028	FN044	00	00	00
AV12 13	13	17	FN043	FN043	FN009	00	00	00
AV12 14	14	18	FN044	FN044	FN002	00	00	00
AV12 15	FN002	FN002	FN077	FN077	FN004	FN071	FN002	00
AV12 16	15	00					00	00
AV12 17	16	00					00	00
AV12 18	17	00					00	00
AV12 19	18	00					00	00
AV12 20	FN071	FN071					FN071	00
AV12 21	FN028	FN028					FN028	00
AV12 22	FN043	FN043					FN043	00
AV12 23	FN009	FN009					FN009	00
AV12 24	FN044	FN044					FN044	00
AV12 25	FN004	FN004					FN004	00

AV20 1	CO 01	CO 01	CO 01	CO 01	CO 01	00	CO 01	00
AV20 2	CO 02	CO 02	CO 02	CO 02	CO 02	00	CO 02	00
AV20 3	CO 03	CO 03	CO 03	CO 03	CO 03	00	CO 03	00
AV20 4	CO 04	CO 04	CO 04	CO 04	CO 04	00	CO 04	00
AV20 5	FN070	FN070	FN080	FN080	FN003	FN070	FN071	FN070
AV20 6	11	11	FN003	00	11	00	11	00
AV20 7	12	12	FN002	00	12	00	12	00
AV20 8	13	13	FN071	00	13	00	13	00
AV20 9	14	14	FN001	00	14	00	14	00
AV20 10	FN003	FN002	FN004	FN002	FN002	FN002	FN009	FN002
AV20 11	15	15	FN005	FN028	15	00	15	00
AV20 12	16	16	FN028	FN005	16	00	16	00
AV20 13	17	17	FN043	FN044	17	00	17	00
AV20 14	18	18	FN044	FN081	18	00	18	00
AV20 15	FN002	FN081	FN077	FN004	FN071	FN081	FN003	FN081
AV20 16	19	19			FN028	00	CO 00	00
AV20 17	20	20			FN005	00	CO 00	00
AV20 18	21	21			FN006	00	CO 00	00
AV20 19	22	22			FN044	00	CO 00	00
AV20 20	FN071	FN071			FN004	FN005	FN002	FN005
AV20 21	FN028	FN028			FN070	FN028	FN028	FN028
AV20 22	FN043	FN043			FN074	FN043	FN094	FN043
AV20 23	FN009	FN009				FN044	FN005	FN044
AV20 24	FN044	FN044				FN071	FN096	FN071
AV20 25	FN004	FN004				FN004	FN004	FN004

AV38 1	CO 01	CO 01	CO 01	CO 05	CO 01	00	CO 01	00
AV38 2	CO 02	CO 02	CO 02	CO 06	CO 02	00	CO 02	00
AV38 3	CO 03	CO 03	CO 03	CO 07	CO 03	00	CO 03	00
AV38 4	CO 04	CO 04	CO 04	CO 08	CO 04	00	CO 04	00
AV38 5	FN070	FN070	FN080	FN080	FN003	FN070	FN071	00
AV38 6	CO 05	11	FN003	FN003	11	00	11	00
AV38 7	CO 06	12	FN002	FN002	12	00	12	00
AV38 8	CO 07	13	FN071	FN071	13	00	13	00
AV38 9	CO 08	14	FN001	FN001	14	00	14	00
AV38 10	FN003	FN003	FN004	FN004	FN002	FN003	FN009	00
AV38 11	11	15	FN005	FN005	15	00	15	00
AV38 12	12	16	FN028	FN028	16	00	16	00
AV38 13	13	17	FN043	FN043	17	00	17	00
AV38 14	14	18	FN044	FN044	18	00	18	00
AV38 15	FN002	FN002	FN077	FN077	FN071	FN002	FN003	00
AV38 16	15	19			FN028	00	CO 05	00
AV38 17	16	20			FN005	00	CO 06	00
AV38 18	17	21			FN006	00	CO 07	00
AV38 19	18	22			FN044	00	CO 08	00
AV38 20	FN071	FN071			FN004	FN071	FN002	00
AV38 21	FN028	FN028			FN070	FN028	FN028	00
AV38 22	FN043	FN043			FN074	FN043	FN094	00
AV38 23	FN009	FN009				FN009	FN005	00
AV38 24	FN044	FN044				FN044	FN096	00
AV38 25	FN004	FN004				FN004	FN004	00

AV256 1	CO 01	CO 01	CO 01	CO 05	CO 01	11	00	00
AV256 2	CO 02	CO 02	CO 02	CO 06	CO 02	12	00	00
AV256 3	CO 03	CO 03	CO 03	CO 07	CO 03	13	00	00
AV256 4	CO 04	CO 04	CO 04	CO 08	CO 04	14	00	00
AV256 5	FN070	FN070	FN080	FN080	FN080	FN080	FN070	FN070
AV256 6	CO 05	11	FN003	FN003	CO 05	15	00	00
AV256 7	CO 06	12	FN002	FN002	CO 06	16	00	00
AV256 8	CO 07	13	FN071	FN071	CO 07	17	00	00
AV256 9	CO 08	14	FN001	FN001	CO 08	18	00	00
AV256 10	FN003	FN003	FN004	FN004	FN003	FN001	FN003	FN003
AV256 11	11	15	FN005	FN005	FN028	27	00	00
AV256 12	12	16	FN028	FN028	FN044	28	00	00
AV256 13	13	17	FN043	FN043	FN009	29	00	00
AV256 14	14	18	FN044	FN044	FN002	30	00	00
AV256 15	FN002	FN002	FN077	FN077	FN004	FN071	FN002	FN002
AV256 16	15	19					00	00
AV256 17	16	20					00	00
AV256 18	17	21					00	00
AV256 19	18	22					00	00
AV256 20	FN071	FN001					FN071	FN071
AV256 21	FN028	FN028					FN028	FN028
AV256 22	FN043	FN043					FN043	FN043
AV256 23	FN009	FN009					FN007	FN007
AV256 24	FN044	FN044					FN044	FN044
AV256 25	FN004	FN004					FN004	FN004

Zone 501 DSS GP (Group = 1 of 8 Groups)

Default value = 00 for all buttons

Range = N/A

This Zone allows the programmer to set the DSS Button functions for the DSS64 Console(s). The programming procedure and functions are the same as in [Zone 500](#).

Related Zones. [Z502 Item 2](#)

NOTE! Do not use DSS button 43 for a Hotel/Motel installation. Leave DSS button 43 as Func 00.

FUNCTION NUMBERS FOR DSS KEY ALLOCATION

00 Non-Operational	34 Paging Zone 3	68 Check In
01 Message Waiting/Change dial P-T	35 Paging Zone 4	69 Check out
02 Do Not Disturb/Conference	36 Paging Zone 5	70 Calculator
03 Microphone/Auto Answer	37 Paging Zone 6	71 Call Door 1
04 Save	38 Paging Zone 7	72 Call Door 2
05 Forced Account Code	39 Paging Zone 8	73 Monitor Station
06 Call Forward	40 Paging External Zone	74 Name Speed Dial
07 Call Forward All	41 Paging External Zone 1	75 Security Recording
08 Call Forward Busy	42 Paging External Zone 2	76 Setting Ext. Name
09 Call Forward No Answer	43 Meet Me Paging	77 System Name Spd Dial
10 Call Forward No Answer/Busy	44 Pick Up All Group	78 Individ. Name Spd Dial
11 Follow Me	45 Pick Up Own Group	79 Ext. Name Spd Dial
12 Security Code	46 Pick Up Group	80 1 st to 2 nd to 1 st page
13 Temporary Security Number	47 Pick Up Group 1	81 Ringing Volume Level
14 Set Macro Function	48 Pick Up Group 2	82 Speaker Volume Level
15 Set Volume levels	49 Pick Up Group 3	83 Handset Volume Level
16 Individual Alarm (Station)	50 Pick Up Group 4	84 Ringing Frequency Ctrl
17 Individual Alarm (Console)	51 Pick Up Group 5	85 Auto (Save) Redial
18 Date/Time (Console)	52 Pick Up Group 6	86 Reset CO Time Counter
19 Help List (Programming)	53 Pick Up Group 7	87 Clear Auto-redial numbs
20 System Programming	54 Pick Up Group 8	88 Remote Prog. (S'vised)
21 Speed Dial	55 Pick Up Station	89 Not Used
22 Console Speed Dial (System)	56 Pick Up CO Line	90 Unforced Account Code
23 Console Speed Dial (Individual)	57 Auto Find CO Line	91 Internet/keyphone setup
24 Morning Call (Assign Alarm)	58 Baby Monitoring	92 Missed calls if CLI in use
25 Day/Night Service	59 Fire Alarm Off	93 Not Used
26 Outgoing Message	60 Lock/Unlock SMDR Output	94 Pick Up (general)
27 Toll Password	61 Open/Status Door 1	95 ICM
28 Paging All	62 Open/Status Door 2	96 Cal/MW
29 Paging All Internal	63 VSU 1	97 Loop Key 1
30 Paging All External	64 VSU 2	98 Loop Key 2
31 Paging Zone	65 Call Park	99 Not Used
32 Paging Zone 1	66 Split/Swap	100 Handset Named Spd.
33 Paging Zone 2	67 Morning Call	AV20 Handset only

Related Zones. [Z503 Item 2](#), [Z503 Item 8](#)

Zone 502 Port. No. (Port. No = System port number for the station)

Default value = See individual Items for default values

Range = N/A

Item 01:Ext. No **The station number can be changed here.**

Default numbering:- The default station numbers start from 11 and continue in numerical order.

Any valid station number can be associated with the port number. Number length is set in [Zone 205](#).

Related Zones. [Z205](#)

The following instructions show how to name an extension instead of the extension number.

Pressing DSS5 will change the input to letters instead of numbers. The appropriate letter can be selected by using the dial pad. The letters are allocated as shown:

A = PRESS 2	B = PRESS 2,2	C = PRESS 2,2,2	D = PRESS 3	E = PRESS 3,3
F = PRESS 3,3,3	G = PRESS 4	H = PRESS 4,4	I = PRESS 4,4,4	J = 5
K = PRESS 5,5	L = PRESS 5,5,5	M = PRESS 6	N = PRESS 6,6	O = PRESS 6,6,6
P = PRESS 7	Q = PRESS 1 OR 7,7	R = PRESS 7,7,7	S = PRESS 7,7,7,7	T = PRESS 8
U = PRESS 8,8	V = PRESS 8,8,8	W = PRESS 9	X = PRESS 9,9	Y = PRESS 9,9,9
Z = PRESS 11 OR 9,9,9,9				

DSS3 moves the cursor one place to the left and DSS4 moves the cursor one place to the right.

Item 02:KP Equipment **What type of equipment is installed as the extension.**

This allocates the type of equipment in use by the extension as per the chart below.

Equipment Number	Equipment Function
0	No Equipment connected to the port
1	Key Telephone without LCD and Handsfree
2	Key Telephone with LCD and Handsfree
3	Single Line Telephone (SLT)
4	Voice Service Channel
5	DSS64 Console (AV24, 38 & 256 only)
6	OHCA
7	Voice Mail

Related Zones. None

Item 03:DSS Key GP **** AV256 ONLY ****

Which of the 8 DSS key group will be used by the DSS64 Console.

The DSS button function allocation is done in [Zone 501](#). The particular group to be used by the console is allocated here.

Related Zones. [Z501](#)

Item 04:Reserved **No Function.**

Item 05:Reserved **No Function.**

Item 06:Reserved **No Function.**

Item 07:Called Res **Intercom call miscellaneous restrictions.**

0 = Can receive intercom calls from other stations

1 = Cannot be called via intercom. Can still receive a transferred call manually or automatically from hold.

2 = Cannot use Do Not Disturb

3 = Combination of 1 and 2

7 = Turns off all audible Off-Hook signalling, but only for the extension being programmed

Related Zones. [Z122](#)

Zone 503 Station Gp (Ext: = Extension number)

Default value = See individual Items for default values

Range = N/A

This Zone allows the programmer to set the station parameters as listed below:

Item 01:Station Group The Group number pertains to **Zone Paging Group**
Called Pick Up Group
Intercom Single Digit Dial
Console group (Zone 400 group).

There are 8 possible groups (1~8) 0 and 9 cannot be used.

Related Zones. [Z209](#), [Z401](#)

Item 02:KP Key GP Which DSS Key Group is allocated for the 1st Page functions.

This allocates the DSS Group that will be used for the 1st Page functions of the Keyphone.

Related Zones. [Z500](#), [Z500 Item 1](#)

Item 03:Dial 9 GP Which Group will be accessed when the station dials 9 for a free CO line.

The number to dial for a free CO line is set in [Zone 202](#) and the CO allocation is done in [Zone 603](#)

*See also note for Zone 603 using * group number for CO selection.*

Related Zones. [Z202](#), [Z603](#)

Item 04:Incoming G Incoming calls in the assigned group can be answered.

*****NOT FOR AV8*****

Any incoming call in the group assigned here, can be picked up and/or answered by the station.

Related Zones. [Z608](#)

Item 05:Toll Day Toll restriction for the Daytime duration.

This allocates the Toll layer (restriction level) for the station during daytime hours.

Related Zones. [Z405](#)

Item 06:Toll Night Sets the Toll as in Item 5. But this Item sets the Nighttime restriction.

This allocates the Toll layer (restriction level) for the station during nighttime hours.

Related Zones. [Z405](#)

Item 07:Func26 Dis Enables or disables Func, 2, 6 external call forwarding

This zone can disable the ability of a station to set up a Function, 2, 6 call forward after this zone is set

0 = Enable 1 = Disable

default = 0

Related Zones. None

Item 08: KP Page GP Which DSS Key Group is allocated for the 2nd Page functions.

This allocates the DSS Group that will be used for the 2nd Page functions of the Keyphone.

Related Zones. [Z135](#), [Z500 Item 2](#), [Z503 Item 2](#)

Zone 504 Station Functions 1 (Ext: = Extension number)

Default value = 0 0 1 0 5 0 0 1

Range = N/A

This Zone allows the programmer to set the station parameters as listed below:

Item 01:Override The level of override ability.

This sets the override level ability for the station. A station can join in a conversation with a busy station by dialing the station and pressing 0, if it's override level is higher or the same as the busy station. There are ten levels of override:

0 is the lowest and cannot override

9 is the highest

eg.: a 6 can override 0~6, a 9 can override 0~9, etc.

default = 0

Related Zones. None

Item 02:Monitor Monitoring of other stations who are busy on a call.

This allocates the “ability to secretly monitor” level to a station. The station will be able to secretly monitor a call on a busy station if its level is higher than the busy station’s. This facility is invoked by dialing the busy station’s number and then #.

0 is the lowest and cannot monitor 9 is the highest and can monitor 0~8

Default = 0

Related Zones. [Z506 Item 7](#)

Item 03:MSG Wait The level for Message Waiting signals for other busy or no answer stations.

When a station calls a busy or no answer station, a message waiting signal can be sent by pressing the MSG DSS key on the Keyphone. Only stations with the same or higher level can leave messages for other stations. 0 is the lowest level and cannot leave message waiting 9 is the highest level.

Default = 1

Related Zones. [Z212](#)

Item 04:Loud Bell Allocates the relay to operate for station loud bell or manual secret recorder.

Loud Bell operation. Sets the relay to operate for calls to the station, which controls a loud bell.

Secret Recording operation. Sets the relay to operate when the station presses the DSS key set for function 75, but only if the relay is allocated in [Zone 302](#), or if a door station call is in progress.

AV8/12

1 = Station Loud Bell for Relay 1

2 = Secret Recording for Relay 1

AV16/20/24/38

1 = Station Loud Bell for Relay 1

2 = Station Loud Bell for Relay 2

3 = Secret Recording for Relay 1

4 = Secret Recording for Relay 2

AV256

1 = Station Loud Bell for Relay 1

2 = Station Loud Bell for Relay 2

3 = Station Loud Bell for Relay 3

4 = Station Loud Bell for Relay 4

5 = Secret Recording for Relay 1

6 = Secret Recording for Relay 2

7 = Secret Recording for Relay 3

8 = Secret Recording for Relay 4

Default = 0 (no action on either option)

Related Zones. [Z302, Z604 Item 6](#)

Item 05:Ring Fre. Frequency of the ringing signal.

This allocates the frequency of the incoming ringing signal for the station.

Default = 5

Related Zones. None

Item 06:Security O Automatic Secret Recording Enable

Allows or disallows the Auto Secret Recording function when a CO is seized for incoming or outgoing calls.

0 = Disable Secret Recording

N = Enable Secret Recording with the relay number (for relay #1::N=1, for relay #2::N=2, etc)

Default = 0

Related Zones. [Z302, Z504 Item 4](#)

Item 07:DID CAP. DID enable Day and/or Night

This zone sets the DID calls to work day & night, day only or night only

0 = Day & Night 1 = Day only 2 = Night only

When DID is not enabled by this zone, all calls to DID extensions will obey zones 600/601

Related Zones. [Z600, Z601, Z610, Z611](#)

Item 08: Override System Wide Call Forward (all systems)

0 (Default)	1
No CFWD	CFWD

Related Zones. [Z144, Z242, Z400 Group 05.](#)

Zone 505 Station Function 2 (Ext: = Extension number)

Default value = 1 1 1 0 1 1 0 0

Range = N/A

This Zone allows the programmer to set the station parameters as listed below:

Item 01:Paging External and Internal Paging Facility

This allows or disallows the Paging facility for the station.

0 = Disable

1 = Enable

Default = 1

Related Zones. [Z503 Item 1](#)

Item 02: Be Paged Allows this station to be included in the paging function.

This station can be included or excluded from paging calls by other stations.

0 = Disable

1 = Enable

Default = 1

Related Zones. [Z503 Item 1](#)

Item 03:Hold Func Hold a Call function.

This enables or disables the ability for a station to place a call in Hold

0 = Disable Hold 1 = Enable Hold

Disable is recommended for Hotel/Motel SLT exts. To prevent switch-hook flash on hangup

Default = 1

Related Zones. None

Item 04:Manual Direct link to Operator.

Allows or disallows the following function. By lifting the hand-piece or pressing the Spk key, the station will automatically make an intercom call to the operator console set in [Zone 400](#), Group 1, Item 1. (Main Console)

0 = Disable

1 = Enable

Default = 0

Related Zones. [Z400](#), [Z503 Item 1](#)

Item 05:Call Split Alternate call function

(See the System Administrator Manual for Conference Call Operation.)

Alternate call operation for 2nd call incoming.

1) Place the first call on hold

2) Go On-Hook

3) Wait for the second call to ring the phone

4) Answer the second call

5) Use Flash button to alternate between the calls.

0 = Disable *NOTE! Must be 1 if conferencing for SLTs is required*

1 = Enable

Related Zones. [Z234](#)

Alternate call operation for 2nd call outgoing.

1) Place the first call on hold

2) Seize a free CO Line

3) Dial the wanted number

4) Use Flash button to alternate between calls

Item 06:Sys Alarm System Alarm signaling at a station.

This allows or disallows the station to be signaled when the System Alarm has been triggered and when the Alarm time in [Zone 305](#) has been reached.

Related Zones. [Z305](#), [Z505 Item 7](#)

Item 07:Alarm Sig Signal to be used by System Alarm.

This sets the System Alarm to use either Do Not Disturb tone (1) or Background Music (0) as the Signal.

Related Zones. [Z305](#), [Z505 Item 6](#)

Item 08: Security Locking/ Unlocking of stations for outgoing calls.

*This allows any station (Keyphone or SLT) to be locked (barred) to **common allowed codes only** for outgoing calls. The station can only dial CAC numbers until it is unlocked. This is important for Hotel/Motel guest exts.*

Related Zones. [Z406](#)

Zone 506 Station Function 3 (Ext: = Extension number)

Default value = 1 0 1 0 0 0 0 0

Range = N/A

This Zone allows the programmer to set the station parameters as listed below:

Item 01: System PSW System Programming protection by password access.

This allows or disallows the station to enter System Programming using the Programming Password.

0 = Cannot enter programming

1 = Can enter programming

Default = 1

Related Zones. [Z235](#), [Z301 Item 1](#)

Item 02: ICM Dial D Disable Intercom Dialing.

This enables or disables the station from making intercom calls to other stations by dialing the station number.

The station can still make intercom calls by DSS key operation, or by Single Digit Dialing .

0 = Disable The station CAN make Intercom calls by dialing the required station number

1 = Enable The station CANNOT make Intercom calls by dialing the required station number

For Hotel/Motel working, it is recommended to set this Zone to 1.

ie.: disable Inter-room(Intercom) Dialing.

Default = 0

Related Zones. [Z401](#), [Z241](#)

Item 03: Key Tone Sometimes referred to as “Confidence Tone”.

This enables or disables a beep whenever a button is pressed on a Keyphone.

0 = Disable. No tone heard if a button is pressed. 1 = Enable. Tone will be heard if a button is pressed

Default = 1

Related Zones. None

Item 04: Volume UP Rising ringing for stations on incoming calls.

Allows or disallows the following function. If an incoming call is not answered during the first ring signal, the next ring signal will be at an increased volume. The volume will continue to increase with each ring signal, until either the call is answered or the maximum volume is reached.

0 = Disable

1 = Enable

Default = 0

Related Zones. None

Item 05: ICM Tone Busy Reminder Tone for Intercom calls.

This facility allows a Station to receive Busy Reminder Tone if it is engaged on an external call when another station calls it via the Intercom.

0 = Disable

1 = Enable

Related Zones. [Z122](#), [Z229](#)

Item 06: TK Answer Answering of any incoming call at the station.

This allows or disallows the station to answer any incoming call on any CO irrespective of the programming set in [Zone 600](#) and [Zone 601](#).

Eg.: An extension bell could be connected as an SLT and assigned to ring to all CO lines. All other stations are not programmed to an incoming ring group ([Zone 600](#), [Zone 601](#)). A station can answer any incoming call announced by the bell if this Zone is set. This allows a quiet area where stations do not ring but can answer incoming calls by simply going off hook.

0 = Disable

1 = Enable

Related Zones. [Z600](#), [Z601](#)

Item 07: Monitor St Baby Monitoring Facility.

This allows a station to monitor (listen in) on a lower level station. The levels are the same as those set in [Zone 504 Item 2](#). The lower level station must be a Handsfree station.

0 = Disable

1 = Enable

Related Zones. [Z504 Item 2](#)

Item 08: Page Ans Automatic Paging Answer Facility.

This allows the station to answer a page by going Off-Hook. No other key operation is necessary.

Related Zones. [Zone 505 Item 2](#)

Zone 507 Station Function 4 (Ext: = Extension number)

Default value = 1 1 1 0 0 0 0

Range = N/A

This Zone allows the programmer to set the station parameters as listed below:

Item 01:Port No. The System Port Number

This displays the port number of the extension that is currently being programmed. This is not an input parameter, but a display of the Port Number concerned. Ports are 3 digits for AV256 and 2 digits for all other models. The station number is the same as in [Zone 502 Item 1](#).

Default = Port Number

Related Zones. [Z 205](#), [Z502 Item 1](#)

Item 02:Call Limit A Call Duration Limit Time.

This sets the duration limit for a call as programmed in [Zone 224](#).

Range = 00-99 Minutes

Default = 00

Related Zones. [Z224](#)

Item 03:FAC Code Forced Account Code allocation to the Station.

This allocates which FAC(s) will be enabled at this station. Entering 00 will enable all the FACs as in [Zone 403](#). If only one FAC is to be allowed at this station, the FAC code number (as in [Zone 403](#)) must be entered here.

The code number is the code number that the FAC was entered under in [Zone 403](#)

Default = 00

Related Zones. [Z403](#)

Items 04, 5, 6, 7, 8:Reserved Reserved for future use.

These Zones have no function

Default = N/A

Related Zones. None

Zone 508 HOT CO (Ext = Extension number)

Default value = 00

Range = N/A

Forces the station to make an external or intercom call when the Handset is lifted. For normal dialing, the station must use the Spk button before selecting a CO or dialing an extension number.

When programming, DSS 5 (the change) button toggles between entering a station (intercom call) number and entering a Speed Dial (external call) code.

Default = 00

Related Zones. [Z404](#)

Zone 509 Indivi SPD (Ext = Extension number)

Default value = AA BB Where AA = the code for the block of 10 Speed Dial numbers accessed by method 1.

BB = the code for the block of 10 Speed Dial numbers Accessed by method 2.

Range = N/A

This Zone assigns the blocks of Individual Speed Dial Numbers that are available for the station.

Speed Dial Numbers can be accessed by two methods:

- 1) *by pressing the spd button and then the particular code number as per Speed Dial programming*
- 2) *by pressing the spd button and then one of the DSS buttons 1 to 10.*

Although these are called Individual Speed Dial Numbers, stations can share the blocks between them.

I.e.: stations 11 and 12 can both have access to block 1, or block 2, etc.

Placing 00 in either position will not allow the station access to that method of Speed Dialing.

See the following examples

Examples.

01	02	This station has access to SPD block 01 for method 1 and SPD block 02 for method 2
01	09	This station has access to SPD block 01 for method 1 and SPD block 09 for method 2
00	07	This station does not have a SPD block for method 1 but has SPD block 07 for method 2
06	00	This station has access to SPD block 06 for method 1 but does not have a SPD block for method 2

Related Zones. [Z400](#), [Z225](#)

Zone 510 to Zone 599 Reserved

Zone 600 FLX (CO = Line #) DAYTIME

Default value = 11 12 13 14 15

Range = N/A

Assigns stations so that they will ring to incoming CO line calls for the daytime period. Stations assigned here can answer the incoming calls by going Off-Hook. 4 ring methods are available in [Z604 Item 07](#) and [Z604 Item 08](#):-

- 1) Common Audio: All assigned stations will ring together.
- 2) Linear: The incoming line will always try to ring the first assigned station. If it is busy it will go to the second assigned station; if it is busy it will go to the next ext, etc. until it finds a free ext and rings it.
- 3) Circular: The first incoming call will ring to the first assigned station, the second call will ring to the second assigned station, etc. If the station is busy it will ring to the next available assigned station.
- 4) Hunt: This is similar to linear with a major difference. If an assigned station is free but does not answer, the system will ring both that station and the next assigned station after the time in [Zone 123](#) has been reached. If both do not answer in the next period ([Zone 123](#)) it will also ring the third assigned station. This process continues until the call is terminated. If an ext is to ring and is busy, it can be programmed to receive BRT once only. See [Zone 604 notes](#).

****AV256 ONLY****

If the Voice Service Card is used for a DISA line, the Voice Channel number must be assigned here. For AV16/24 see [Zone 609](#)

Related Zones. [Z123](#), [Z306](#), [Z308](#), [Z402](#), [Z504 Item 07](#), [Z506 Item 06](#), [Z604 Item 07](#) and [08](#)

Zone 601 FLX (CO = Line #) NIGHTTIME

Default value = 11 12 13 14 15

Range = N/A

This zone has a similar function as [Zone 600](#), but this zone is for nighttime allocation not daytime as in [zone 600](#). Related Zones. [Z123](#), [Z306](#), [Z308](#), [Z402](#), [Z504 Item 07](#), [Z506 Item 06](#), [Z604 Item 08](#)

Zone 602 Door (Door = Which Door Phone)

Default value = 11 12 13 14 15

Range = N/A

The stations assigned here will ring when either the Door Phone or Door Sensor is activated. During the ringing period the Door LED will flash. Setting [Zone 143](#) to 000 will disable the Door Sensor ringing.

Related Zones. [Z131](#), [Z143](#), [Z214](#), [Z244](#), [Z249](#), [Z302](#), [Z303](#), [Z501](#)

Zone 603 CO GRP (Group = 1 of 8 groups)

Default value = 01 02 03 04 05

Range = N/A

This zone allocates the CO line to an outgoing access group. These groups can be accessed by a station dialing 9/0 ([zone 201](#) & [zone 202](#)), by Speed Dial or by pressing the DSS button for the line. [Zone 503 Item 3](#) allocates the stations to the groups. See also [Zone 253](#) for auto-CO selection by LCR

Groups 5 ~ 8 can also be used for special selection purposes:-

- If a Keyphone or SLT presses
- *5 (off-hook) they will get a CO from group 5
 - *6 (off-hook) for group 6 etc.

This means that (for example) ISDN trunks can be deliberately selected rather than PSTN trunks by placing only the ISDN in group 5 and only PSTN in group 6. Macro buttons could be set to select either PSTN or ISDN by a single button press. See helpnote 23 for macro setup. This would be similar to having a dial 9 and a dial 8 outgoing CO selection feature.

It is recommended to put the COs in reverse order in [zone 603](#) to reduce the chance of an outgoing call crashing across an unanswered incoming call.

Related Zones. [Z201](#), [Z202](#), [Z215](#), [Z222](#), [Z404](#), [Z503 Item 3](#), [Z603](#), [Z253](#)

Zone 604 CO Functions (CO = Which CO line)

Default value = 01003000

Range = N/A

This Zone allows the programmer to set the CO line parameters as listed below:

CO lines can be named instead of the CO number.

This zone can be used to assign a name to the CO line instead of the line number. The directions below explain how to name the C.O. lines.

Pressing DSS5 will change the entry format from numerical to alphabetical. The letters can be accessed by using the keys shown in the table.

A = PRESS 2	B = PRESS 2,2	C = PRESS 2,2,2	D = PRESS 3	E = PRESS 3,3
F = PRESS 3,3,3	G = PRESS 4	H = PRESS 4,4	I = PRESS 4,4,4	J = 5
K = PRESS 5,5	L = PRESS 5,5,5	M = PRESS 6	N = PRESS 6,6	O = PRESS 6,6,6
P = PRESS 7	Q = PRESS 1 OR 7,7	R = PRESS 7,7,7	S = PRESS 7,7,7,7	T = PRESS 8
U = PRESS 8,8	V = PRESS 8,8,8	W = PRESS 9	X = PRESS 9,9	Y = PRESS 9,9,9
Z = PRESS 11 OR 9,9,9,9				

Item 01:CO Type **Selects the CO line type for the system.**

This zone informs the system what type of line is connected.

The options are:

0 = Centrex or Central Office (Exchange) line

1 = PABX line

3 = ISDN line

5 = CLI line

Related Zones. [Z200](#), [Z202](#)

Item 02:Pulse/DTMF **Outgoing DISA type and DISA answer time selection.**

This sets the Dialing and also the DISA incoming answer time.

0 = Pulse DISA 1st answer time option as set in [Zone 118](#)

1 = DTMF DISA 1st answer time option as set in [Zone 118](#)

2 = Pulse DISA 2nd answer time option as set in [Zone 140](#)

3 = DTMF DISA 2nd answer time option as set in [Zone 140](#)

4 = Pulse DISA 3rd answer time option as set in [Zone 141](#)

5 = DTMF DISA 3rd answer time option as set in [Zone 141](#)

6 = Pulse DISA 4th answer time option as set in [Zone 142](#)

7 = DTMF DISA 4th answer time option as set in [Zone 142](#)

Default = 1

Related Zones. [Z101](#), [Z118](#), [Z140](#), [Z141](#), [Z142](#), [Z213](#), [Z614](#).

Item 03:DISA **Assignment of DISA function.**

This zone allocates which of the DISA functions are to be used during daytime and during nighttime.

The options are:

10 DISA operation

b) External Call Forward (ECF).

Zone Data Value	DISA Function		External Call Forward Function	
0	NO DAY	NO NIGHT	NO DAY	NO NIGHT
1	NO DAY	YES NIGHT	NO DAY	NO NIGHT

2	YES DAY	NO NIGHT	NO DAY	NO NIGHT
3	YES DAY	YES NIGHT	NO DAY	NO NIGHT
4	NO DAY	NO NIGHT	NO DAY	YES NIGHT
5	NO DAY	NO NIGHT	YES DAY	NO NIGHT
6	NO DAY	NO NIGHT	YES DAY	YES NIGHT
7	YES DAY	NO NIGHT	NO DAY	YES NIGHT
8	NO DAY	YES NIGHT	YES DAY	NO NIGHT

The DISA (Direct Inward Station Access), can operate in three different modes. These modes are

a) **Normal DISA operation calling internal extensions.**

If used with a Voice Service Card, the caller can be directed by the messages and directions that have been recorded on the Voice Service Card. If used without a Voice Service Card, the caller will hear system dial tone when the incoming DISA call is answered by the system.

b) **Special DISA for making an outgoing call.**

If the caller dials the CO access number ([Zone 202](#)), an outside line can be seized and an outgoing call can be made by the caller.

c) **External Call Forward function.**

Incoming calls will be answered (with or without a Voice Service Card) and connected to an external call made by the system Speed Dial ([Zone 404](#) and [Zone 604 Item 4](#)).

The duration of the calls in b) and c) is limited by the time set in [Zone 119](#). This period can be extended by pressing any number button. The call can be terminated by pressing the * button.

Default = 0

Related Zones. [Z116](#), [Z117](#), [Z118](#), [Z119](#), [Z218](#), [Z219](#), [Z301 Item 3](#), [Z306](#), [Z402](#), [Z604 Item 4](#), [Z609](#)

Item 04:ECF Night External Transfer function.

This Zone allocates the Speed Dial Number that will be used for the ECF function.

0 = Disable ECF capability

1 = ECF will use Speed Dial Code 101

2 = ECF will use Speed Dial Code 102

...

9 = ECF will use Speed Dial Code 109

Default = 0

Related Zones. [Z404](#), [Z604 Item 3](#)

Items 05:Pick Up Pick up function is enabled or disabled.

The Pick Up function can be changed from day to night, enabled or disabled as below:

0 = Day Disable and Night Disable

1 = Day Disable and Night Enable

2 = Day Enable and Night Disable

3 = Day Enable and Night Enable

Default = 3

Related Zones. [Z600](#), [Z601](#)

Items 06:Loud Bell CO line Loud Bell function.

This Zone allows or disallows the operation of a Loud Bell for each CO line. Note! [Zone 504 Item 4](#) is a station loud bell function.

0 = Disable

1 = Enable the 1st relay

2 = Enable the 2nd relay

3 = Enable the 3rd relay

4 = Enable the 4th relay

Default = 0

Related Zones. [Z302](#), [Z600](#), [Z601](#)

Items 07:Ring MTD-D Ringing method :day period.

The incoming ringing method is assigned for one of the four methods as below:

0 = Common Audio

1 = Linear

2 = Circular

3 = Hunt without Busy Reminder Tone

4 = Hunt with Busy Reminder Tone
Related Zones. [Z123](#), [Z600](#), [Z601](#)

Items 08:Ring MTD-N Ringing method :night period.
This Item is similar to the previous Item, except that it is for the Nighttime and not for the Daytime
Related Zones. [Z123](#), [Z600](#), [Z601](#)

See next page for ring method explanation.

Common Audio: All assigned stations will ring together.
Linear: The incoming line will always try to ring the first assigned station. If it is busy it will go to the second assigned station; if it is busy it will go to the next ext, etc. until it finds a free ext and rings it.
Circular: The first incoming call will ring to the first assigned station, the second call will ring to the second assigned station, etc. If the station is busy it will ring to the next available assigned station.
Hunt: This is similar to linear with a major difference. If an assigned station is free but does not answer, the system will ring both that station and the next assigned station after the time in [Zone 123](#) has been reached. If both do not answer in the next period ([Zone 123](#)) it will also ring the third assigned station. This process continues until the call is terminated. If an ext is to ring and is busy, it can be programmed to receive BRT once only.

Zone 605 CO Lock (CO = 1 of ? Lines)

Default value = 0000000000000000
Range = N/A

This zone allows the CO line to be locked (restricted) for incoming, outgoing or both ways.
0 = Unlock incoming Unlock outgoing
1 = Unlock incoming Lock outgoing
2 = Lock incoming Lock outgoing Turn CO LED off
3 = Lock incoming Lock outgoing Turn CO LED on
Related Zones. None

Zone 606 CO Fre. (CO= 1 of ? lines)

Default value = 00000000000000000000
Range = N/A

This zone allocates the Frequency of the ringing signal that will be used by each CO line.
One of nine frequencies can be selected for each line as below:
0 = Frequency according to the station ringing frequency (see Administrators Manual)
1 = Frequency 1 :- Lowest frequency.....to.....
9 = Frequency 9:- Highest frequency
Related Zones. None

Zone 607 DISA G (Group = 1 of 7 groups 1,2,3,4,5,7,8,)

Default value = 00 00 00 00 00
Range = N/A

This zone allocates the stations to a Single Digit Dialing Group.
Eight stations can be assigned to each of the seven groups. Group 6 cannot be used as this is used by stations to signify an intercom call. Groups 9 and 0 cannot be used as these denote the access numbers for the Operator and a free CO line.
Group 1 = Single digit 1 dialed. All stations in this group will ring if a 1 is dialed for intercom
Group 2 = Single digit 2 dialed. All stations in this group will ring if a 2 is dialed for intercom
....
....
Group 8 = Single digit 8 dialed. All stations in this group will ring if an 8 is dialed for intercom

These groups are also used to create "In-Dial" groups. These will ring to selected incoming In-Dial numbers.
THERE ARE 8 POSSIBLE GROUPS FOR INDIAL RINGING. THESE ARE PROGRAMMED IN [ZONE 607](#) GROUPS 01 ~ 08 AND CORRESPOND TO SETS 01~08 IN ZONES 610 AND 611.

THESE GROUPS ARE THE SAME GROUPS FOR ALLOCATING SINGLE DIGIT GROUPS IN DISA. PROGRAMMING INVOLVES [ZONE 610](#), [ZONE 611](#) AND [ZONE 607](#) AS DETAILED BELOW. **NOTE! THERE MUST NOT BE ANY GAPS IN THE GROUP PROGRAMMING. ALL EXTENSION NUMBERS MUST BE CONTIGUOUS IN ZONES 610 & 611.**

EXAMPLE:- TO PROGRAM "DID RING GROUPS",

1. ASSIGN THE LAST 2 DIGITS DIALLED IN [ZONE 610](#) AS NORMAL
2. ASSIGN 00 AS THE TARGET EXTENSION NUMBER (I.E. NOT A DID EXT) IN [ZONE 611](#)
3. ENTER THE EXTS TO RING IN THE [ZONE 607](#) GROUP CORRESPONDING TO THE SET USED IN [ZONE 610/611](#).
4. IF THE [ZONE 607](#) GROUP IS EMPTY, THE CALL WILL BE TREATED AS A NORMAL INCOMING TRUNK AND WILL RING THE EXTENSIONS PROGRAMMED IN [ZONE 600](#) FOR DAY TIME, AND [ZONE 601](#) FOR NIGHT TIME

NOTE! GROUP 01 = SET 01, GROUP 02 = SET 02, ETC

Example 1:-

Incoming calls to 03 9837 2301 are to go to the Service Dept (ext 11 and 12)
 Incoming calls to 03 9837 2302 are to go to the Sales Dept (ext 13 and 14)

[Zone 610](#)/Set 01= 01
[Zone 611](#)/Set 01= 00
[Zone 607](#)/Group 01= 11 12

[Zone 610](#)/Set 02= 02
[Zone 611](#)/Set 02= 00
[Zone 607](#)/Group 02= 13 14

Example 2:-

NUMBERS FOR DID ARE:-

- 03 9837 2301 (DID FOR THE SERVICE DEPT. EXT 66 AND 77)
- 03 9837 2302 (DID FOR THE SALES DEPT. EXT 44 AND 33)
- 03 9837 2304 (COMMON INCOMING TRUNK. NOT DID)
- 03 9837 2308 (DID FOR EXT 22)

ALL OTHER NUMBERS ARE NORMAL INCOMING TRUNKS

ZONE 610	ZONE 611	ZONE 607			
LAST 2 DIGITS DIALLED	TARGET DID EXT	GROUP 01	GROUP 02	GROUPS 03, 04,05,07,08	COMMENT
01	00	66, 77	44, 33	00	ALL GROUP 1 WILL COMMON RING
02	00	66, 77	44, 33	00	ALL GROUP 2 WILL COMMON RING
03	11	66, 77	44, 33	00	ONLY EXT 11 WILL RING
04	00	66, 77	44, 33	00	EXTS IN Z600 OR Z601 WILL RING
08	22	66, 77	44, 33	00	ONLY EXT 22 WILL RING

NOTE! IF THE GROUP DID CALL IS NOT ANSWERED, IT WILL GO TO THE FIRST EXTENSION'S (ZONE 607 GROUP 0?) MAIL BOX

Related Zones. [Z238](#), [Z610](#), [Z611](#),

Zone 608 ICO GP (Group = 1 of 8 lines)

Default value = 01 02 03 04 05

Range = N/A

This zone allocates the CO lines to the Incoming Groups. The stations are assigned to these groups in [Zone 503 Item 4](#).*** THIS FUNCTION IS NOT AVAILABLE FOR THE AV8/12***

Related Zones. [Z222](#), [Z503 Item 4](#)

Zone 609 VSU TKR (CO = CO line number)

Default value = 00000000 **THIS FUNCTION IS ONLY AVAILABLE FOR THE AV20//38**
Range = N/A

This zone allocates the Voice Channel number to be used by the CO lines.

0 = Incoming line to be answered by both Voice Channels 1 and 2 (Number 63 and Number 64)

1 = Incoming line to be answered by Voice Channel 1 only (Number 63)

2 = Incoming line to be answered by Voice Channel 2 only (Number 64)

Related Zones. [Z604 Item 3](#)

Zone 610 DID N (SET = indial pair number)

Default value = 00 **NOTE: AV256 = 255 DID sets. AV38 = 80 DID sets**
Range = 00~99

NOTE! IF 00 IS TO BE USED AS A DID (AV38 only), IT MUST BE IN SET 01.

This zone allocates the last two (AV38) or three (AV256) digits of the **CALLED NUMBER** to a Set (Line-Station pair) for matching a called number to a station number to achieve the indial facility.

The system uses this zone as a “look up” table to determine which station should ring if the ISDN call was to a particular telephone number. After determining (from this zone) which set the line is allocated to, the system then looks at [Zone 611](#) to determine which station is allocated to the same set.

An entry of 00 or 000 indicates end of the list. Ie.: there are no more numbers to check (Except in set 01).

NOTE! [Zone 504, Item 07](#) can be used to cancel DID for day, night or both.

Related Zones. [Z504 Item 07](#), [Z611](#),

NOTE! See [Zone 242](#) for Call Forwarding with DID.

Zone 611 DID S (SET = indial pair number)

Default value = 00
Range = station numbers available

This zone allocates the Station number to be paired to an indial CO line.

A station is allocated to a “set” in [Zone 610](#). This means that only the station here will ring on a call to an assigned incoming number. All DID numbers must be assigned in [Z610](#). If [Z611](#) has 00 or 000 as the station number, it will revert to [Z600/Z601](#) ringing assignment.

Related Zones. [Z504 Item 07](#), [Z610](#),

Zone 612 ISDN Term (CO = CO line number)

Default value = 1111111111111111
Range = N/A

This zone controls the termination resistor. The system requires that the ISDN equipment be terminated by the terminating resistors.

0 = Unterminated ISDN Line 1 = Terminated ISDN Line The default condition is terminated.

Related Zones. None

Zone 613 ISDN Type (CO = CO line number)

Default value = 1111111111111111
Range = 0~2

This zone allocates the ISDN type of line connected to the system.

NOTE! Telstra Call Diversion is not available on Point to Multipoint connections FOR POINT TO MULTIPOINT CONNECTIONS (AV256 & AV38)

0 = Telstra Microlink

1 = *Telstra OnRamp (Default) CORRECT CONNECTION*

2 = Taiwanese ISDN

FOR POINT TO POINT CONNECTIONS (AV38 ONLY)

4 = Telstra Microlink

5 = *Telstra OnRamp (Default) CORRECT CONNECTION*

6 = Taiwanese ISDN

Related Zones. [Z604](#)

Zone 614 EH64 TIME

Default value = 0000000000000000

Range = 0~9

This zone allocates the time (in minutes) for the EH64 time charge feature.

Related Zones. [Z140](#), [Z141](#), [Z142](#), [Z203](#), [Z251](#), [Z307Item 01 & Item 07](#), [Z407](#), [Z604 Item 02](#)

Zone 615 to Zone 699 Reserved