

SYSTEM PROGRAMMING MANUAL

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Dial Password + 596+EXT/*+N

DAY MODE SETTING

In this mode an in-coming call on any of the trunk lines will ring up to 4 extensions, one after the other.

To select Day Mode, lift the handset and dial,



Password +

The Ringing Extension are according to each Day Mode Service Group programming or STD Call Ring Termination in Day Mode. The sequence of ringing for each trunk line depends on STD detect setting of that trunk line.

The ring switch count after no reply of these extensions are decided by Extension Ring Switch Program.

NIGHT MODE SETTING

In this mode an in-coming call on any of the trunk lines will make specified extensions (maximum 6) ring simultaneously.

To select either Normal or Night Mode, lift the handset and dial,



Password +

The extension which should ring is described in Night mode ring Termination. The CLI Direct Termination is not operational in this mode.

AUTO NIGHT MODE

This mode is used when Day and Night Mode is required to be used for fixed timings during a week. In this mode the user can set the time of office hours along with the Lunch time. The system will convert the operation to Night mode after the office hours automatically, and will change to Normal Mode at the time of opening of the office. During Lunch Timing, if programmed, the system will operate in Night mode, applicable only for those days for which auto night mode timing are set.

In case of Night Mode Ring requirement during Day Time and Day mode Ring in Night time, program evening time first and morning time second, this

will switch the system in Night mode during office Hours and in Day mode during Night Hours.

Apart from this, the program coding allows programmer to use wild code ('*') for setting and resetting programming for all days or individual day.

In order to program this, Key in

For, Auto Night Mode Reset,

Password + **1** **1** ***** *****

This will reset Auto-night mode with Lunch time.

For Auto Night Mode Reset of a particular Day or Lunch

Password + **1** **1** **0-7** *****

Where 0-6, for Sunday to Saturday respectively and 7 for Lunch time. This will reset Auto-night mode for a particular Day or Lunch

TIME SETTING

PBX system have Real Time Clock in built which works even on power failure.

To Key-in the current time, dial,

Password + **1** **3** **AM/PM** **HH** **MNT**
SS

Where AM=0, PM=1, HH=Hours (01-12), MNT=Minutes (00-59), SS=Seconds (00-59).

For Example,for current time 03:15:45 PM, dial as follows,

Password +

1	3	1	0	3	1	5	4
---	---	---	---	---	---	---	---

5

Note: The complete software reset or hardware jumper removal for RAM reset, will keep RTC timing intact and no need to re-program the same.

DATE SETTING

PBX system have Real Time Clock (RTC) in built which works even on power failure.

To Key-in date, dial,

Password +

1	4	YY	MTH	DD
---	---	----	-----	----

Where YY= Calendar Year (00-99), MTH=Month (01-12), DD=Day (01-28/29/30/31)

For example, if current date is 1st September, 2003 then dial,

Password +

1	4	0	3	0	9	0	1
---	---	---	---	---	---	---	---

The complete software reset or hardware jumper removal for RAM reset, will keep RTC timing intact and no need to re-program the same.

The Date setting is used for Daily alarm day finding, Auto-night mode Day finding and for SMDR.

RESTRICTED TABLE SETTING

The restricted table is created to allow STD/Local/ISD on a selective basis, i.e. instead of full STD/ISD dialling facility few selected STD/ISD dialling will be allowed on these extensions. However, that extensions should programmed separately for restricted mode dialling in Day or Night mode. To programme this operate as follows,

Password +

1	5	Area Code
---	---	-----------

Where Area Code is the starting digits of local number of the STD/ISD code.

The code can be max. 5 digits. Maximum of 26 codes can be put in the restricted table. For programming more than the one area code, you need not hang up after feeding in the first area code. Instead, do hook flash (HF) and continue the setting.

To clear the restricted table operate as follows,

Password +

1	5	*
---	---	---

This will clear Restricted Table

For example, if you want all local calls to be allowed and STD calls only to Delhi, Madras and Calcutta then key in,

Password +

1	5	*	1	5	2	F	1		
5	3	F	1	5	4	F	1	5	5
F	1	5	6	F	1	5	7	F	1
5	8	F	1	5	9	F	1	5	0
1	1	F	1	5	0	4	4	F	1
5	0	3	3	F					

Here we have assumed that all local numbers in your city start with any of the digits between 2 to 9 and the STD codes for Delhi, Madras & Calcutta are 011, 044 & 033 respectively. Maximum 26 area codes can be accepted. Each code should not exceed 5 digits.

DENIED TABLE SETTING

This table basically defines the starting dialling codes Local, STD or ISD which are not permitted for dialling out by extensions that are in denied mode. The procedure for programming is same as the restricted table except the following,

Password + **1** **6** **Area Code**

Before creating Restricted and Denied table always clear the initial factory set table by 15* and 16*. The initial factory set denied table is 0 & 95 while the restricted table is cleared. In this condition the extensions put under denied table will be denied S.T.D. and numbers starting with digit `95' as per the factory set tables.

To clear the Denied table operate as follows,

Password + **1** **6** *****

For example, if you want all local calls to be allowed and want to restrict STD, 95, Cellular and WLL numbers to dialed from extensions 33, 34 and 37 then key in,

Password + **1** **6** ***** Clears the table

1 **6** **9** **8** **F** **1** **6** **3** **F** **1**
6 **5** **F** **1** **6** **0** **F** **1** **6** **9**
5 **F** **1** **6** **9** **4** **F**

This will have, 98, 95, 94, 0, 5 and 3, in Denied table. (Assuming 98,94 & 3 are Cellular and WLL operators starting numbers). Now put extension 33, 34 and 37 in Denied Mode by using Day and Night Mode Toll call control using 51 & 52 Coding respectively.

ABBREVIATED (GLOBAL MEMORY) DIALING

This feature provides a Memory Bank for Dialing frequently required Telephone Nos. The three digit codes for storing these nos. being with 700 and goes till 789.

The programmer can reset entire Memory or individual Memory, by programming as follows,

Password +   

This will erase entire Memory.

For Individual Memory Reset,

Password +    

Where N (00-89) is memory number.

The Memory should have trunk access code preceding telephone number when used for outside number. The memory can also have extension number for the requirement of flexible numbering from 700 to 789 allotted to extensions, so the extension can be dialed by memory number or by direct extension number access.

This done as follows,

Password +     


Where N is 00 to 89 being the code for global dialer.

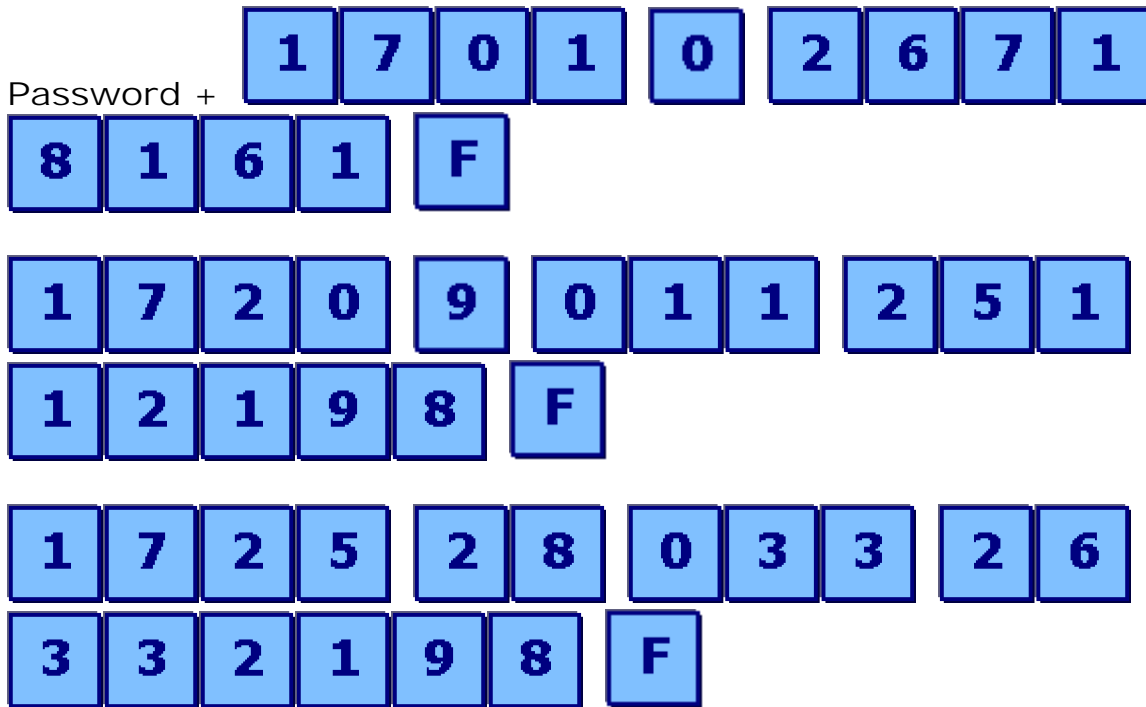
Trk is Trunk Access code.

Area Code is STD or ISD code preceding telephone number.

Tel. No is Telephone number to be memorized.

Note: Area Code + Tel. No. can be up to 24 digits. If there is another number to be memorized, then instead of hanging up, do hook flash (HF) and continue the setting.

For example, if the numbers to be memorized are 26718161, 011 25112198, 033 26332198 with access code 701, 720 and 725 with '0', '9' and '28' trunk access respectively, for Mumbai, then key in,



Now, when you lift the handset and dial 700, the exchange will dial 26230055 and, when you dial 702, it will dial 033-632198.

For memorizing Extension number as a global Memory do as follows,



Where N = (00-89) is memory number,
Ext is Extension Number.

GLOBAL MEMORY BANKING

The global Memory can be divided in to two banks, uniformly applicable to all extensions, in multiples of ten e.g. 0/90, 10-80, 60/30 or 90/0. The lower bank access is to all extensions irrespective of class of service for that extension, but for upper memory the class of service is checked and accordingly the extension can access the dialing.

The banking can be programmed as follows,



Where N can be from 0-9.

For dividing memory into 20-70 partition, dial as follows,

Password + **1** **7** **9** **2**

This enable access for all extension 700 to 719 and will check class of service for memory numbers 720 to 789.

However, for personnel memory dialing class of service is always checked. The class of service is checked along with dynamic lock and walk-in class of service, means if extension 30 is allowed for all calls and locked self extension for STD numbers by dialing # 22 1 PPPP (PPPP is 30's personnel password) then memory number 720, which if STD number, and with banking of 20-80, will not be allowed to be dialed by 30. However, if extension 30 user goes to extension 37 which is restricted to dial external numbers, the user can dial memory number 700-719 without opening the lock but have to dial first # 2 EX (30) PPPP to activate the walk-in class of service, and then can dial memory number 720 which is a STD number.

CLID LOCAL NUMBER TABLE

This table is used when STD detect is enabled for the trunk line, with CLID facility activated for that trunk, as the STD call from ring cadence cannot be identified from first two ring cadence, which are small in nature, and during that period only the CLID number is issued on the trunk line, so STD call is detected by this CLID Local number table for comparison of STD call. This table can be erased by programming as follows,

Password + **1** **8** *****

This will clear the table.

This table can have ten codes, each of five digit length maximum for local service providers starting numbers as it comes on CLID Phones. This can be programmed as follows,

Password + **1** **8** **CODE**

For example, for Mumbai if programmer wants to store local service providers numbers then programmer is required to store numbers for MTNL, Private, Cellular and WLL Operators which are 22 and 98 respectively. To store this programme as follows,

Password +

1	8	2	2	F	1	8
---	---	---	---	---	---	---

9	8	F
---	---	---

This will store this number in the table.

The calls coming with this starting numbers in day mode will terminate normally or DISA mode, if DISA enabled for the Trunk, and any other numbers not starting with this digits will be considered as STD numbers, if STD detect is enabled for the trunk, and DISA, if DISA enabled for the Trunk, will be bypassed and call will terminate as per STD termination in Day mode with STD ring cadence. In Night Mode DISA will be bypassed but the ringing extension will be Night mode ringing extensions only, while ring cadence will be STD cadence. If the table is not programmed, all incoming calls will be treated as Local calls only.

STD Number Table for Dynamic Lock

This table is used along with dynamic lock activation by extension for STD numbers. This table can be erased by programming as follows,

Password +

1	9	*
---	---	---

This table can have ten codes, each of five digit length maximum, for STD numbers starting digits. This can be programmed as follows,

Password +

1	9	CODE
---	---	------

Password + 19 + CCCCC and hang-up.

Where CCCCC is code.

For example, for Mumbai if programmer wants to restrict all other user from dialing high pulse rate numbers from dynamically locked extensions then programmer need to store STD, Cellular Operators numbers which are 95, 0 and 98 respectively.

To store this programme as follows,

Password +

1	9	9	5	F	1	9
---	---	---	---	---	---	---

9	8	F	1	9	0	F
---	---	---	---	---	---	---

This will store this number in the table.

Once the extension is dynamically locked by dialing # 22 1 PPPP or # 22 0, the extension can not be used to dial numbers starting with this digits which eventually prevents other users to dial this high pulse rate numbers from that locked extension.

COMPLETE RESET

The complete reset of the system can be done in three ways and this reset will keep intact the Real Time Clock timings and Date setting, so no need to re-programme the same. The complete reset will bring system status to default factory setting. To reset the system completely by programming can be done as follows,

Password +   

To reset the system completely by hardware is done by pressing switch beside the battery on CPU card momentarily while system power is ON.

To reset the system completely by hardware is done by removing the jumper beside the battery on CPU card momentarily while system power is OFF.

EXTENSION DATA RESET

The individual Extension data reset can be done as follows,

Password +   

Where, Ext Extension Number for which the data is to be resetted.

For example to reset the data of Extension 31 dial as follows,

Password +    

This will reset the data of extension 31.

CHANGING SYSTEM PROGRAMMING PASSWORD

The pass-word too can be changed. It should be changed from time to time in order to maintain confidentiality and prevent misuse and should be different from user programming password and personnel password. To change pass-word, dial as follows,

Password +   

Now, after programming this, all programming can be done by new password, once extension is out of the programming mode.

Note: The new pass-word should be of four digits (like 4321, 7777, 1111 or 0011, 0404 etc.)

TRUNK GROUP PROGRAMMING

Trunk line can be accessed by extension by dialing `0', `9' or Direct Access (24..29). The trunks can be allocated to either group `0', group `9', Direct Access or Reserved Incoming. For example trunks 27 can be allotted to group `0', trunk 28 to group `9' and trunk 29 to Direct Access `29'. This means when a user dials `0', user can access trunks 27, when user dials `9', user can access trunk 28 and when user dials '29', user gets trunk '29', provided all such access is allowed to that extension. The same trunks can not be allocated to both '0' and '9' groups, while '0' and '9' group trunk can be allotted to direct access by 57 programming to a particular or all extensions. The Direct Access grouping to any trunk will not accessed by '0' or '9' Dial. For simplicity, the trunk lines (normally one) allocated to this group `9', we shall call reserved lines. Access to reserved incoming lines for outgoing call is restricted. To programme this feature for all Trunks, dial,

Password + 

To programme this feature for Particular Trunk, dial,

Password + 

Where Trk. is Trunk Access Code

C=0 is for Group `0'

C=1 is for Reserved Incoming

C=2 is for Direct Access

C=9 is for Group `9'

For example, if trunk 27 is allocated to group `9', then dial,

Password + 

When user dials `9' he will receive dial tone to trunk 27.

For example, if all Trunks are for Direct Access, then dial,

2 0 * 2

Note: Care should be taken in allocating Nos. to trunk lines as Per the Model e.g. for 204, 206, 308, Trunk lines are 27,28,29. For 412, 514, 616, Trunk lines are 24,25,.....29. The Direct access grouping of all trunks can virtually create as many groups as trunks, the direct access to any extension can be allowed individually as per trunk.

LEAST COST ROUTING

The default trunk line access is in round robin way to facilitate equal distribution of outgoing calls amongst all lines. But the same can be programmed for first free first access for both '0' and '9' group. Which can be used so that most of the outgoing calls will be made through first line of the exchange and enables user to take scheme on that line for economy.

This can be done as follows,

Password + **2 0 C T**

Where, C = 0/9 for 0 or 9 Group respectively.
T is type 0/1 for Round Robin or First Free First Access respectively.

For Example, '9' group First Free First Access Setting Dial as follows,

Password + **2 0 9 1**

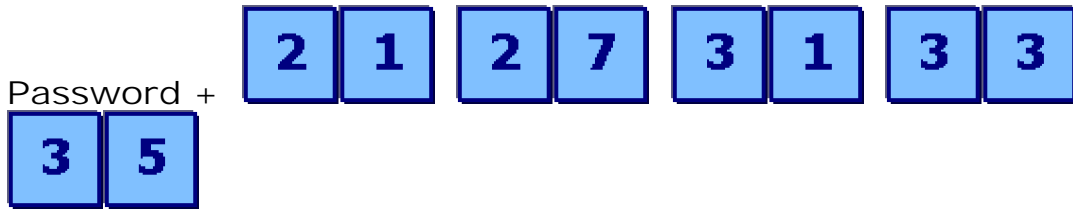
STD CALL RING TERMINATION IN DAY MODE

In the Day mode, an in-coming call on programmed trunk lines will make a different set of extensions ring one after the other, the trunk can be programmed for detecting STD call from Ring cadence or CLID on CLID Detect enabled trunk. Each extension rings, with a different cadence, for number of rings programmed for that extension as ring switch count, before another takes over. This set of extensions (max. 4) can be different for each trunks line and is called STD Call Service Group for that trunk line. To programme a service group dial :

Password + **2 1 Trk Ext Ext Ext**
Ext

Where, Trk. is Trunk access code i.e. 27, 28....etc. and Ext. is Extension.

For example, if you want extension 31, 33 and 35 to ring in sequence when there is an in-coming call on trunk no. 27 which is STD call, then dial,



When there is an incoming call on trunk line 27, the call will first ring extension 31, if it is busy it will automatically go to extension 33 which, if free will start ringing. If nobody picks up till ring switch period for that extension, the ring will go to extension 35, and then back to 31, and so on. Similarly, service groups can be set for the other trunk lines.

The STD detect can be programmed by 233 programming and in this mode the DISA is bypassed for that trunk. The CLID direct termination will precede the STD Detection by CLID and the call will be terminated to CLID direct termination extension. In case all extension are busy in a service group the will terminate as a parked call or In-coming trunk queuing on the first extension in the list with no call parked on it.

Note: Care should be taken in allocating Extn. Nos. as per the exchange model i.e., for 204, 206,....616 the Nos. are 30,31,32...45.

DAY MODE SERVICE GROUP PROGRAMMING

In the normal mode, an in-coming call on any of the trunk lines will make a set of extensions ring one after the other. Each extension rings for seconds before another takes over. This set of extensions (max. 4) can be different for each trunks line and is called Service Group for that trunk line. To programme a service group dial :



Where,Trk. is Trunk Access Code i.e. 27, 28....etc. and Ext are Extensions.

For example, if you want extension 30, 32 and 34 to ring in sequence when there is an in-coming call on trunk no. 27, then programme as follows,

Password + **2 2 2 7 3 0 3 2**
3 4

When there is an incoming call on trunk line 27, the call will first ring extension 30, if it is busy it will automatically go to extension 32 which, if free will start ringing. If nobody picks up till ring switch period for that extension, the ring will go to extension 34, and then back to 31, and so on. Similarly, service groups can be set for the other trunk lines. In case all extension are busy in a service group the will terminate as a parked call or In-coming trunk queuing on the first extension in the list with no call parked on it. In DISA mode failure the call will terminate to same set of extensions.

Note: Care should be taken in allocating Extn. Nos. as per the exchange model i.e., for 204, 206,....616 the Nos. are 30,31,32...45.

NIGHT MODE SERVICE GROUP PROGRAMMING

If your EPABX is in Night mode, an incoming call on any trunk line will make specified maximum six extensions ring simultaneously. These specified extensions are called the Night Ring Group.

To program lift the handset and dial,

Password + **1 2 Trk Ext Ext** up to six extensions

For example,if you want extensions 30, 32, 33, 37 to ring when there is an in-coming call on 27 trunk in the Night Mode, then dial,

Password + **1 2 2 7 3 0 3 2**
3 3 3 7 and hang up.

If STD detect is enabled then on STD call the ring cadence will be different while the set of extensions remain the same.

In DISA mode failure the call will terminate to same set of extensions.

DISA Programming for the Trunk in Day/ Night Mode

The DISA feature is highly flexible with lot of option for both day and night mode and each mode can have different set of parameters. The DISA is disabled automatically when STD detect on trunk is enabled, without or with CLID (CLID Local table programmed) and the received call is STD call. The

DISA is also disabled when the received call identified by CLID table as a specified one in table and the call will terminate directly to specified extension provided extension is not busy or do not disturb not set on that extension.

The DISA for individual Day or Night Mode and for individual trunk can be configured, without voice guidance in Basic SECOM series and with voice guidance port-1 or voice guidance port-2 or any free voice guidance port, having voice guidance card attached to the system. The DISA with Voice Message, if programmed along with Call termination after voice guidance over (Code 462) with zero wait period, no DTMF dialing will be accepted, which can be used for giving only welcome message on a Trunk line, disabling DISA.

To disable the DISA program as follows,

Password + **2** **3** **M** ***/Trk** **0**

To Enable DISA program as follows,

Password + **2** **3** **M** ***/Trk** **1** **T**

For MS Series DISA is always without Voice Guidance and program as follows,

Password + **2** **3** **M** ***/Trk** **1**

This will Enable DISA in MS Series.

Where, M(Mode) is 0/1 for Day Mode / Night Mode,

*/Trk is * for All Trunk and Trk is Particular Trunk,

T is type for DISA as follows,

T=0 - DISA without Voice Guidance

T=1 - DISA with Voice Guidance Port 1

T=2 - DISA with Voice Guidance Port 2

T=3 - DISA with any available Voice Guidance Port

For example, DISA on 27 Trunk with Voice Port-2, DISA on 28 without Voice Guidance and on Trunk 29 without DISA is required during Day mode then programme as follows,

Password + **2 3 0 2 7 1 2 F**
2 3 0 2 8 1 0 F
2 3 0 2 9 0

Here Voice Port-1 is not used and can be either used for Night Mode Voice Message or for Security Break Alert for Auto Dialer message.

FLASH TIME PROGRAMMING FOR TRUNK

The Flash on Trunk is given while flashing on conversation with trunk and on getting dial tone, dialing *. This used for activating call waiting facility on Trunk, Telephone exchange registration of the call for malicious call and Trunk cascaded on PBX. The Flash time range is 400 to 990 milliseconds can be programmed individually for each Trunk. The flash time can be programmed for all Trunk or individual Trunk as follows,

Password + **2 3 2 * / Trk SS**

Where, */Trk is * for All Trunk and Trk is Particular Trunk, SS is time in millisecond x 0.1.

For example, Trunk 27 is to be programmed for 550 milliseconds dial as follows,

Password + **2 3 2 2 7 5 5**

For all Trunk time is 650 then dial as follows,

Password + **2 3 2 * 6 5**

This will programme flash time for all extension, 650 m.sec.

STD CALL DETECTION PROGRAMMING

The PBX can identify STD call from either ring cadence or CLID when CLID is available for a trunk line from CLID local number table. In day mode when this feature is activated for a trunk line then different ringing extension can be programmed, while in night mode the extension will remain same but in

both mode the ring cadence will be different while call is terminated or transferred. The DISA feature is bypassed when the identification is activated and call is STD, which enables the caller to save on call charges and call gets attended quickly. To programme this feature dial as follows,

Password + **2** **3** **3** ***/Trk** **C**

Where, */Trk is * for All Trunk and Trk is Particular Trunk, C is 0/1 for Disable/Enable STD detection.

For example, to enable STD detect facility on trunk line 28 programme as follows,

Password + **2** **3** **3** **2** **8** **1**

CALLER ID DETECT ON TRUNK PROGRAMMING

This programming is to enable the detection of incoming calls Caller ID number to the system, when the CLI facility is availed from the telephone exchange and CLI card is attached to the system. The CLI is given to enabled extension (with CLIP phone) as it comes from trunk line.

To programme this feature dial as follows,

Password + **2** **3** **4** ***/Trk** **C**

Where, */Trk is * for All Trunk and Trk is Particular Trunk, C is 0/1 for Disable/Enable CLI detection.

For example, to enable CLID detect facility on trunk line 29 programme as follows,

Password + **2** **3** **4** **2** **9** **1**

Note: Also CLI enable is required for Extension to be displayed on the instrument by programming.

TRUNK STATUS PROGRAMMING

The Trunk line status Tone / Pulse or Out of service must be clearly programmed. Original setting is all Tone lines. To set trunk status programme as follows,

Password + **2** **3** **5** ***/Trk** **C**

Where, */Trk is * for All Trunk and Trk is Particular Trunk, C is 0/1/2 for Out of service / Tone and Pulse respectively.

For e.g. trunk line 29 out of service then dial,

Password + **2** **3** **5** **2** **9** **0**

Note: Always make out of service for the trunk that are not present in the configuration.

EXTENSION OUT-OF-SERVICE

If any of the extension has not been connected to the system then it is deemed to be out of service. This status must be programmed into the exchange otherwise the system will keep giving a ring-back tone if such extension is dialled. To programme dial :

Password + **5** **0** **Ext** **C**

Where, Ext is Extension,

C is code, 0/1 for Out of service or In service.

For example, if extension 36 is out-of-service, then dial,

Password + **5** **0** **3** **6** **0**

Now if anybody dials 36 he will get an engage tone. When, subsequently, an instrument is connected to extension 36 then its in serviced status needs to be programmed, and is done by dialing,

Password + **5** **0** **3** **6** **1**

616 LINE CARD DISABLE

This programme is used to disable 616 upper line card, when removed from the system, while 616 CPU card is attached on main CPU card. As removal of 616 CPU card will reset the system completely and only line card is to be repaired or for up gradation purpose, is to be removed from the system this programming is to be done before removal. In case this programming is not

done and upper line card is removed, keeping 616 CPU card, the system will assume line card is connected and abrupt functioning will occur. Once the upper line card is connected, always enable it again. To programme this dial as follows,

Password +

5	0	*	C
---	---	---	---

Where, C is code, 0/1 for Out of service or In service of 616 upper Line Card.

TOLL CALL CONTROL DAY MODE (OR LOCAL/STD/ISD CALL RESTRICTION)

Toll calling means making control on the outgoing calls on the trunk lines when the system is operating in day mode. Four different status conditions can be programmed for each extension. To programme this feature, dial as follows,

Password +

5	1	* / Ext	C
---	---	---------	---

Where, * for All extensions,
 Ext for Particular Extension,
 C is Code 0 to 3 as follows,
 C=0 All allowed,
 C=1 Denied table numbers not allowed,
 C=2 Restricted table numbers allowed,
 C=3 Intercom and lower memory bank numbers are allowed.

For example, to programme extension 30 for all calls, 31 & 32 in denied mode and rest all in intercom only, during day mode, dial as follows,

Password +

5	1	*	3
---	---	---	---

5	1	3	0	0
5	1	3	1	1
5	1	3	2	1

Here, by * programming one can reduce programming coding. Now extension 30 can dial all numbers but user still have option to use dynamic

locking of extension, when not present on extension to avoid misuse and at the same time can dial from other extensions by using walk-in class of service. The extensions 31 & 32 will be only allowed to dial number whose starting digits are not in denied table and the numbers in lower memory bank as well in upper bank, but their digits not same as denied table digits, they can still use dynamic locking. While all other extensions are allowed to use intercom and memory numbers in lower bank. By default all extensions are allowed for all calls.

TOLL CALL CONTROL NIGHT MODE

In the Night mode operation of the system, the toll call is controlled by Night Call Control, which has same programming as Day Mode Toll Call Control but the initialisation code is 52 as explained below,

Password +    

Where,* for All extensions,
Ext for Particular Extension,
C is Code 0 to 3 as follows,
C=0 All allowed,
C=1 Denied table numbers not allowed,
C=2 Restricted table numbers allowed,
C=3 Intercom and lower memory bank numbers are allowed.

CALL PICK-UP GROUP

Your PBX has the facility for providing different pick-up groups for incoming calls. The extensions can be put in up to 10 groups and an extension can be in more than one group. All extensions can also be in single group. This programming is useful to create departmental grouping for call pick-up. To programme this feature dial as follows,

Password +      + + . . .

To reset all groups dial,

Password +   

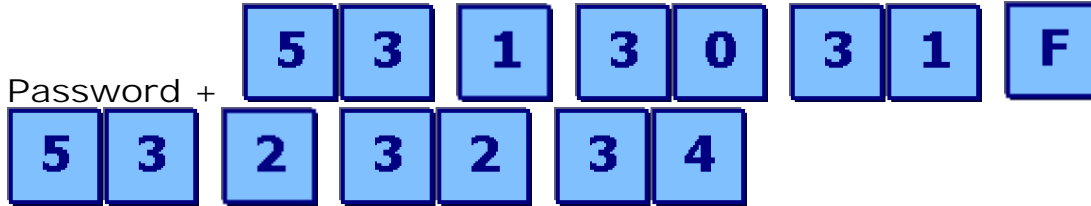
To reset particular group dial,

Password +    

Where, N is Group Number from 0,1 upto 9

Ext is Extension Number.

For example, to put extension 30 and 31 in pick-up group-1 and 32 and 34 in group-2, dial :



Now extension 30 and 31 are in group `1' while 32 and 34 are in group `2'. A ring on extension can be picked up by another extension which is in the same pick-up group, by dialing `8'. To pick up an extension of a different pick-up group you will have to dial 8 + Ex. no.

EXTENSION BARGE-IN LEVEL PROGRAMMING

The barge-in feature is used to listen talks of an extension with other extension or trunk, and when an extension is barged-in conference is established. Barge-in cannot be done to already existing conference. The barge-in is level based and each extensions can have one of the four levels. The call privacy feature is absent only as the barge-in is level based so executive users can have call privacy always activated. The levels are 0-1-2 and 3, level 0 extensions cannot barge-in to any body but can be barged-in by level 1 and 2 extensions users. The level-1 extensions users can barge-in to level-0 extensions users without tone and level-1 extensions users with tone, but cannot barge-in to level 2 and 3 extensions users. The level-2 extensions users can barge in to level 0 and 1 extensions users without tone, level-2 extensions users with tone, but cannot barge in to level-3 extensions users. The level-2 users also have privilege of different ringing pattern when they call any other extensions. The level-3 is created specifically for data and fax extensions, level-3 extensions cannot barge-in to anybody or cannot be barged-in by anybody. This feature is programmed as follows,



Where, * for All extensions
Ext is Particular Extension
C = 0/1/2 or 3 is Barge-in Level of the extension/s.

For example, if extension 35 (fax extension) is to be kept at level-3, extensions 31 and 32 are executive extensions are to be kept at level-2, extension 30 at level-1 and rest in level-0 then programming is to be done as follows,

Password +

5	4	*	0
---	---	---	---

5	4	3	0	1
5	4	3	1	2
5	4	3	2	2
5	4	3	5	3

This will enable extensions 31 and 32 to barge-in to anybody without tone, each other with tone and 35 cannot be barged-in, with executive ring cadence when they dial other extension numbers. The extension 31 can barge-in to all extension without tone except extensions 31, 32 and 35. Always remember to programme * (for all extensions) programming first and different extension specific programming later, or the extension specific programming will be overwritten.

TRUNK GROUP `0' ON/OFF

The trunk lines are grouped for '0', '9', Direct access or Reserved incoming and the '0' lines access control to extensions is done by this programming. To programme '0' group trunk line access to extensions dial as follows,

Password +

5	5	* / Ext	C
---	---	---------	---

Where, * for All extensions
 Ext is Particular Extension
 C = 0 or 1 is 0 Access Disable or Enable respectively.

For example, if extension 33 is to be barred from access to trunk lines in group `0' then dial,

Password +

5	5	3	3	0
---	---	---	---	---

This status can be changed, if you programme,

Password +

5	5	3	3	1
---	---	---	---	---

Now extension 33 can dial `0' and access trunk lines of this group. By default '0' access is allowed to everybody.

TRUNK GROUP `9' ON/OFF

The '9' access group is reserved group and the access to extensions can be given in same way as '0' group explained previously, but with different coding as follows,

Password +

5	6	* / Ext	C
---	---	---------	---

Where, * for All extensions

Ext is Particular Extension

C = 0 or 1 is 9 Access Disable or Enable respectively.

For example, if extension 37 is to be barred from access to trunk lines in group `9', then dial,

Password +

5	6	3	7	0
---	---	---	---	---

Now when extension 37 dials `9' instead of getting dial tone of trunk lines on this group user will get an engage tone. This status can be changed if you programme,

Password +

5	6	3	7	1
---	---	---	---	---

Now extension 37 can dial `9' and access trunk lines of this group. By default '9' access is disallowed to everybody.

DIRECT ACCESS

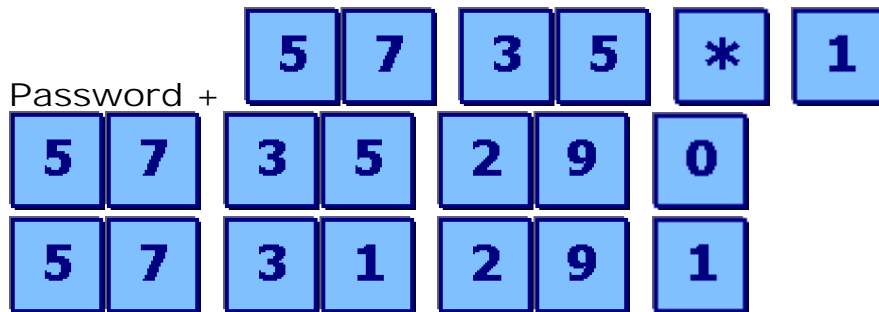
In addition to accessing trunk lines by dialing `0' and '9' it is also possible to access the trunk lines, directly by dialing the trunk numbers 27, 28 or 24, 25. The direct access can be given on selective basis as per individual extension and individual trunk line. The direct access will remain ineffective even '0' or '9' access is given to extensions and direct access can still be given to extensions even the trunk lines are in '0' or '9' group, but not for reserved incoming group trunk lines. To programme this dial as follows,

Password +

5	7	* / Ext	* / Trk	C
---	---	---------	---------	---

Where, * for All extensions or All Trunk where applied
 Ext is Particular Extension
 Trk is Particular Trunk
 C = 0 or 1 is Direct Access Disable or Enable respectively.

For example, if extension 35 is to be given direct access of trunk line 27 and 28 and extension 31 is to be given direct access facility for trunk line 29 in 308 system then programme as follows,



For 616 system do not programme as above, as here 35 extension will have access to 24, 25 and 26 lines as well, so programme individually for each trunks and each extensions. Now when extension 35 dials 27 or 28 and extension 31 dials 29, the extension user will get access to the respective line. By default all extensions are barred from using direct access.

TIME OUT PROGRAMMING FOR EXTENSION

This feature is incorporated to limit and aware the extension user for the time of talks on trunk lines for both incoming and outgoing calls, with time out twin beeps before the time limit is reached, on the time out enabled extensions. The time out duration can be programmed for an extension from 01 to 99 minutes with options of disconnecting the call or without disconnecting the call but beeps will always precede 10 seconds ahead of the timeout and will be repeated for extensions without disconnection feature. This can be programmed as follows,



Where, * is All extensions
 Ext is Particular Extension
 MNT is 01 to 99 Minutes
 C= 0/1 without/with disconnection respectively.

When the time out is programmed as 00 minutes this feature will get inactivated for that extension.

To disable the feature for an extension dial as follows,

Password + **5** **8** *** / Ext** *****

For example, the time out to be set for extension 34 as 3 minutes with disconnection, for extension 31 previously programmed for a time out is to be disabled, and for extension 36 as 5 minutes without disconnection, then programme as follows,

Password + **5** **8** **3** **4** **0** **3** **1**

5 **8** **3** **1** *****

5 **8** **3** **6** **0** **5** **0**

This programming will disconnect all external incoming and outgoing calls for extension 34 after 3 minutes of talk time with preceding beeps. The extension 36 will get beeps ahead of 10 seconds, for every five minutes interval on all external incoming and outgoing calls. By default this feature is deactivated

DISA CALL RECEIVE PROGRAMMING

The extensions can be programmed not to receive DISA calls, when DISA on the trunk is active, and caller dials that deactivated extension number. The default setting is DISA call receive disable for all extensions, hence the programmer have to programme desired extensions DISA enable, while programming DISA activation on the trunk. This can be programmed as follows,

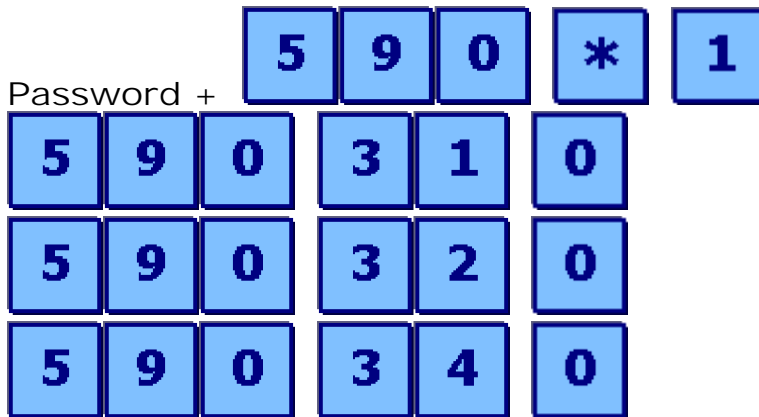
Password + **5** **9** **0** *** / Ext** **C**

Where, * for All extensions

Ext is Particular Extension

C = 0 or 1 is DISA Call Receive Disable or Enable respectively.

For example, the extensions 31, 32 and 34 are executive where the DISA calls should not come without screening and for rest extensions DISA call should be received, then programme as follows,



DOSA PROGRAMMING FOR EXTENSION

This feature activates DOSA capability to the extension user, using personnel password in a DISA call, along with globally DOSA activated in the system. This can be done by programming as follows,

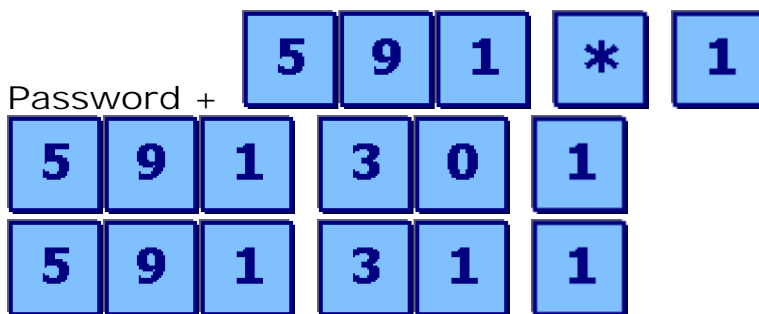


Where, * for All extensions

Ext is Particular Extension

C = 0 or 1 is DOSA Calls Disable or Enable respectively.

For example, the extensions 30 and 31 are required to be programmed for DOSA capability and rest are to disabled then programme as follows,



By default all extensions are disabled for DOSA. Always enable global DOSA before activating DOSA for any extension.

EXTENSION PROGRAMMING CAPABILITY SETTING

This feature enables the extension to configure the system with appropriate password for system and user setting, as well as activating remote programming. All extensions will be enabled by default setting and 30 will always be enabled for programming apart from other extensions enabled by programming this feature. To programme this dial as follows,

Password + **5** **9** **2** ***/Ext** **C**

Where, * for All extensions

Ext is Particular Extension

C = 0 or 1 is Programmin Disable or Enable respectively by that Extension.

For example, the extensions 32 and 34 are required to be programmed for programming capability apart from extension 30 then programme as follows,

Password + **5** **9** **2** **3** **2** **1**
5 **9** **2** **3** **4** **1**

EXTENSION EXECUTIVE STATUS PROGRAMMING

This feature enables extension user to use most exclusive features of the system, for e.g. recording of extension conversation, listen the premise conversation by remote MICs, electric devices control and usage of these same features from DISA call with personnel password. This feature can be programmed as follows,

Password + **5** **9** **3** ***/Ext** **C**

Where, * for All extensions

Ext is Particular Extension

C = 0 or 1 is Executive Features Disable or Enable respectively.

For example, the extensions 31 and 32 are required to be programmed for executive features then programme as follows,

Password + **5** **9** **3** **3** **1** **1**
5 **9** **3** **3** **2** **1**

By default all extensions are disabled from using these features.

CALLER ID RECEIVE PROGRAMMING

The CLIP facility on extensions is to be activated when CLID phones are connected to the extensions. The CLID is given to extension irrespective of

CLID card connected to the system but the only difference is that with CLID Card connected to the system, user will get CLID on incoming calls which are directly terminated or transferred to extensions, from CLID enabled Trunk line, with the same activated from P & T line, while without CLID card the extensions will get CLID of transferred calls for outgoing calls. The feature can be programmed as follows,

Password +

5	9	4	* / Ext	C
---	---	---	---------	---

Where, * for All extensions

Ext is Particular Extension

C = 0 or 1 is CLI Disable or Enable respectively.

For example, the extensions 34 and 35 are having CLID phones are required for activation of this feature then programme as follows,

Password +

5	9	4	3	4	1
---	---	---	---	---	---

5	9	4	3	5	1
---	---	---	---	---	---

Always enable this feature to extensions when CLID phones are connected to that extensions or the system resources are wasted and the ring cadence for the first ring will be different. By default all extensions are disabled for this feature.

PERSONNEL PASSWORD RESET

The extensions are required to use personnel password for many purposes and on first time usage of the extension the password is to be changed from default (5678) to a new password to enable dialing and to access various executive features. The personnel password can be and should be different for each extensions and global passwords. When the user forgets for some reason, the personnel password then programmer can reset the password to default one and user is required to re-programme from user's extension only. This can be done as follows,

Password +

5	9	5	* / Ext
---	---	---	---------

Where, * for All extensions

Ext is Particular Extension for which Data is to be Reset

For example, password of extensions 33 is to be reset then do as follows,

Password +

5	9	5	3	3	1
---	---	---	---	---	---

RING SWITCH EXTENSION PROGRAMME

This feature is used for switching the ringing extensions when call is terminated on extension in day mode or call is transferred to an extension in any mode. In day mode the incoming call is terminated to first free available extension and after certain ring, on no reply from this extension, the call is switched to another free available extension as per programming. The switching time or the ring count after which this switching is done is determined by this programming. The same is the case when the call is transferred to an extension in any mode, it comes back to transferee, on no reply from transferred extension after the programmed ring count. This feature should be programmed in such a way that the user's with habit of fast picking up the hand set, should have lesser ring count, and the extensions which are placed at a longer distance or with the user's having habit of picking up hand set slowly having more ring counts. This can be programmed as follows,

Password +

5	9	6	* / Ext	N
---	---	---	---------	---

Where, * for All extensions

Ext is Particular Extension

N = 3 to 9 is Ring Count for that Extension.

For example, ring count of 3 and 9 is required for extension 31 and 34 respectively and at rest of places the ring count is to be 6 rings then dial,

Password +

5	9	6	*	6
---	---	---	---	---

5	9	6	3	1	3
5	9	6	3	4	9

By default the ring count for all extensions are 7 counts.