

Partitions in Comfort

Comfort can implement up to 4 Partitions which are like independent security systems with their own zones, security armed modes, entry/exit path, entry doors, keypads and door stations, but share a common Siren, Strobe and telephone line.

Minimum System Requirements

- Comfort Firmware 7.163 or above Firmware 7.190 for select area
- UCM 7.124 and above
- Keypad KP04A or KP06A firmware 7.005 or above, KT03 firmware 7.082 or above. KP01, **KP03, KP04/KP05/KP06 (without "A") will not work with partitions.**
- Comfigurator 3.12.16 or above for programming
- Slaves – SEM01C or SEM01-M2 firmware 7 and above can be used for partitions

Partitions

4 partitions are available, numbered 0 to 3 (8 partitions for CM9001-EX). Zones in existing systems are considered in Partition 0 (default). A partitioned system should always have zones in Partition 0, ie partitions should not exclude partition 0, as certain Trouble conditions eg Communications Failure, Power Failure, Low Battery, Phone Trouble are not related to partitions and so will registered to Partition 0

Zones and Partitions

Each zone is assigned to only one partition 0 -3

The screenshot shows the 'Zones/Inputs' configuration window. It contains a table with 7 columns: No, Name, Zone Type, Phrase, Entry, Restore, and Partition. The table lists 17 zones. Zone 5 is highlighted, and its properties are shown in the 'Zone Properties' panel on the right. The 'Partition' property is set to 1. A yellow note at the bottom of the properties panel states: 'Partition: Select a Partition number for this Zone. For non-partitioned systems, select Partition = 0.'

No	Name	Zone Type	Phrase	Entry	Restore	Partition
1	FrontDoor	EntryDoor [2]	Front Door	Yes	No	0
2	Zone02	DoorWindow [1]		No	No	0
3	Zone03			No	No	0
4	Zone04			No	No	0
5	Zone05	DoorWindow [1]		No	No	1
6	Zone06	EntryDoor [2]		No	No	1
7	Zone07	DoorWindow [1]		No	No	0
8	Zone08	EntryDoor [2]		No	No	0
9	Zone09	DoorWindow [1]		No	No	1
10	Zone10	DoorWindow [1]		No	No	1
11	Zone11	DoorWindow [1]		No	No	0
12	Zone12	DoorWindow [1]		No	No	0
13	Zone13			No	No	0
14	Zone14			No	No	0
15	Zone15			No	No	0
16	Zone16			No	No	0
17	Zone17	DoorWindow [1]		No	No	0

Zone Properties

Number: 5
 Name: Zone05
 Zone Type: DoorWindow
 Zone Word 1:
 Zone Word 2:
 Zone Word 3:
 Zone Word 4:
 Entry Path: ☐ No
 Restore: ☐ No
 Partition: 1
 EOL: Use Shunts
 Virtual Input: ☐ No
 Announce: ☒ Yes
 On Response: NullResponse

Partition
 Select a Partition number for this Zone. For non-partitioned systems, select Partition = 0.

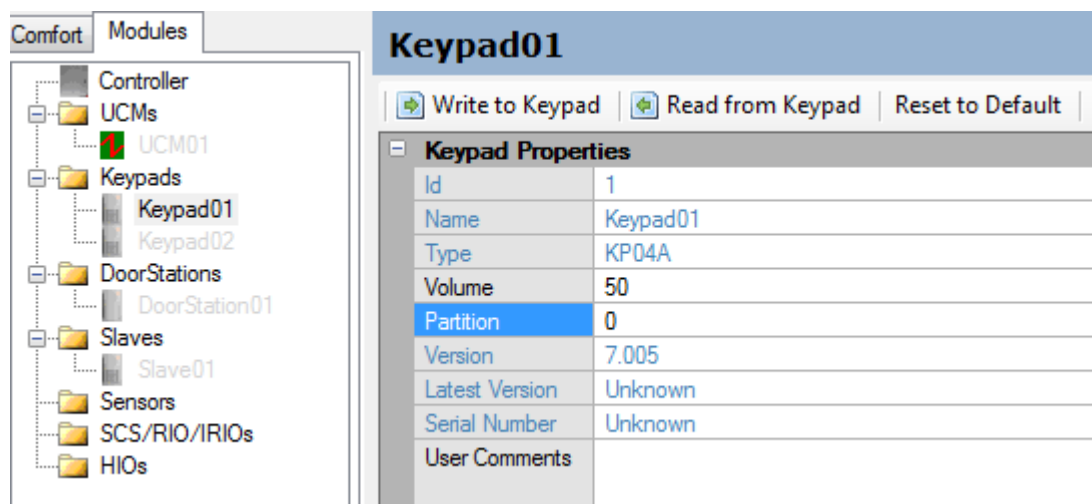
Select Partition 0 to 3 for each zone.

Each Partition has its own exit/entry path, entry door zones, security armed mode, alarm state. If all zones are in the default Partition 0, then the system is not partitioned, even if Keypads and users are assigned to other partitions. As long as 1 zone is in a different partition from 0, the system is partitioned.

Important Note: For a non-partitioned system, ensure that all zones are programmed into Partition 0.

Keypads and Partitions

Each keypad is assigned to one partition 0-3 (default 0).



A Keypad which is assigned to a partition can arm and disarm that partition only. To disarm the partition, a user who signs in on a keypad must also be enabled for the partition.

Keypads will hear the siren sounds for its own partition only eg arming beeps, intruder siren sounds, arming zones, announcements. If there is an alarm the 12V siren will sound, but only the keypads for the alarm partition will hear the keypad siren. Other keypads will not hear, but if a user signs in on a keypad for another partition, the siren is also heard.

Security Check on a keypad will hear only the zones open in that partition and see the zones open on the LCD.

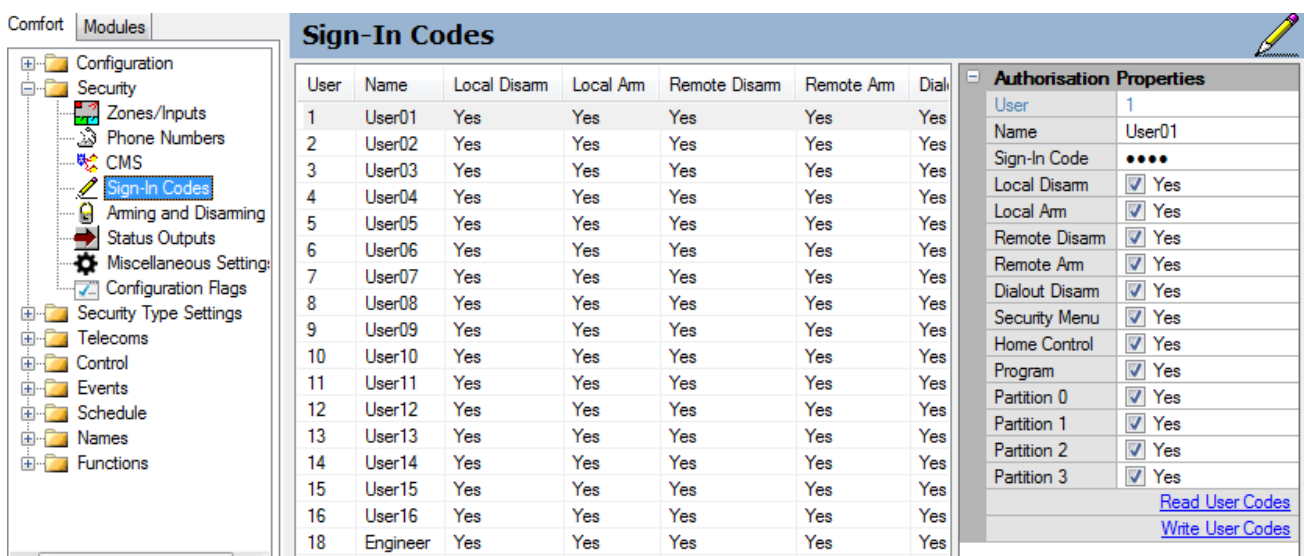
If all zones are in partition 0, there are no partitions, then keypads which are programmed in other partitions will work in Partition 0, ie the keypad partition is ignored.

Important Note: if All keypads are in Partion 0, Partitions are disabled even if zones are in different partitions. All zones are considered to be in Partition 0. !1/9/20 NO. changed so that if all keypads are in partition 0, partitions can be enabled, because swithces can be uswed to arm and disarm partitriions

Only KP04A, KP05A, KP06A and KT03 can work in Partitions, and they should be upgraded to the latest firmware. Other keypads will not work in Partitions, and should not be installed in the same system

Users and Partitions

Each User can be assigned to any combination of Partitions 0 to 3. This means that a user can be assigned to more than 1 partition, or all of them.



User	Name	Local Disarm	Local Arm	Remote Disarm	Remote Arm	Dial
1	User01	Yes	Yes	Yes	Yes	Yes
2	User02	Yes	Yes	Yes	Yes	Yes
3	User03	Yes	Yes	Yes	Yes	Yes
4	User04	Yes	Yes	Yes	Yes	Yes
5	User05	Yes	Yes	Yes	Yes	Yes
6	User06	Yes	Yes	Yes	Yes	Yes
7	User07	Yes	Yes	Yes	Yes	Yes
8	User08	Yes	Yes	Yes	Yes	Yes
9	User09	Yes	Yes	Yes	Yes	Yes
10	User10	Yes	Yes	Yes	Yes	Yes
11	User11	Yes	Yes	Yes	Yes	Yes
12	User12	Yes	Yes	Yes	Yes	Yes
13	User13	Yes	Yes	Yes	Yes	Yes
14	User14	Yes	Yes	Yes	Yes	Yes
15	User15	Yes	Yes	Yes	Yes	Yes
16	User16	Yes	Yes	Yes	Yes	Yes
18	Engineer	Yes	Yes	Yes	Yes	Yes

Authorisation Properties

User	1
Name	User01
Sign-In Code	••••
Local Disarm	☒ Yes
Local Arm	☒ Yes
Remote Disarm	☒ Yes
Remote Arm	☒ Yes
Dialout Disarm	☒ Yes
Security Menu	☒ Yes
Home Control	☒ Yes
Program	☒ Yes
Partition 0	☒ Yes
Partition 1	☒ Yes
Partition 2	☒ Yes
Partition 3	☒ Yes

[Read User Codes](#)
[Write User Codes](#)

Each user can select area 0,1,2,3 to be enabled or disabled.

A user who is enabled for the partition is able to sign in on the keypad for the partition. If a user is enabled for all 4 partitions, he can sign in on any keypad for all partitions.

Eg User 1 is enabled for partition 0,1

User 2 is enabled for partitions 2

User 3 is enabled for partition 3

etc

User Log in by Telephone

If a user signs in by telephone, ether local or remote, for dial in or dial-out, he/she will be logged in to the first enabled partition. Hence if the user is enabled for all partitions, he/she will be logged in to Partition 0. From Firmware 7.190 and above, when the user logs in and is enabled for other partitions, the voice menu will say "Select Area". Press the number 0 to 3 (0 to 7 for CM9001-EX). The Area number is announced. If the user is not enabled for the selected partition, the lowest area/ partitionn will be announced – the user will not be able to log in to the unauthorised partutition. If Partitions are not programmed in the system or if the user is not enabled for other partitions, the voice menu will not announce "Select Area".

Arming and Disarming Partitions

Each partition can be independently armed and disarmed with its own entry door and entry/exit path.

Security Mode Responses

The Security Mode Responses ie (Off, Away, Night Day Mode) has separate responses for each partition. Alarms > Partition Events now have Away, Night, Day, Security Off Responses for each partition.

No	Security Off Response	Away Mode Response	Night Mode Response	Day Mode Response	Siren Output
0	NullResponse	NullResponse	NullResponse	NullResponse	Output003
1	NullResponse	NullResponse	NullResponse	NullResponse	Output004
2	NullResponse	NullResponse	NullResponse	NullResponse	
3	NullResponse	NullResponse	NullResponse	NullResponse	

Partition Number	Security Off Response	Away Mode Response	Night Mode Response	Day Mode Response	Siren Output
1	NullResponse	NullResponse	NullResponse	NullResponse	Output004

The keypad and phone will announce the Partition/Area number which has been armed or disarmed

Alarms and Partitions

Each Partition will have its own alarm state, eg a partition can be in Alarm State while other partitions may be in Idle or Trouble state. However if one partition is in Alarm State, then other partitions cannot be armed.

The keypad and phone will announce the Partition/Area number which has the alarm

Trouble Alarms and Partitions

Trouble alarms (eg Communications Failure, Phone trouble, Power Failure, Low Battery Tamper) except for Zone Trouble will be registered in Partition 0, although all keypads will show the trouble condition. The trouble alarm can be acknowledged only on keypads in Partition 0

This applies from Firmware 7.157 as a bug earlier versions may register trouble alarms to other partitions, hence the trouble alarm may not be cleared or acknowledged from partition 0 keypad and may require a system reset to clear it)

This does not apply to Zone Trouble alarms which are registered in the specific zone partition

Sirens and Partitions

The 12V siren is used in common for all partitions. Any full alarm will turn on the siren. If one or more partitions have a full alarm, the 12V siren output will not turn off when a partition is disarmed, unless all partitions are also disarmed.

Note: if a partition has a full alarm, other keypads signing in may also hear the siren sounds on the keypad. This is because siren sounds cannot be disabled on the keypad in voice menu.

Each Partition will have a programmable Siren output for each partition, in Alarms > Partition Events as shown below.

Comfort	Modules	Partition Events					
Configuration	Alarms	No	Security Off Response	Away Mode Response	Night Mode Response	Day Mode Response	Siren Output
Zones/Inputs	Zone Types	0	NullResponse	NullResponse	NullResponse	NullResponse	Output003
Non-Detector Alarms	Alarm Types	1	NullResponse	NullResponse	NullResponse	NullResponse	Output004
Sign-In Codes	Partition Events	2	NullResponse	NullResponse	NullResponse	NullResponse	
Phone Numbers		3	NullResponse	NullResponse	NullResponse	NullResponse	

The Output assigned to each partition acts like a dedicated 12V Siren Output for the partition in addition to the common 12V Siren Bellbox.

Note that a 12V relay must be connected to the Output for the siren. The 12V output is not able to drive the external 12V siren directly. The RLY01 with 4 Relays can be used for this purpose.

Speaker Output and Partitions

The Speaker Output (SPK- to 12V) will produce sounds regardless of which partition is armed and alarmed. In a partitioned system, if the speaker is required the Siren Outputs mentioned above can be used to switch the Speaker (SPK-) output to 4 different speakers

Double Pole Relays should be connected to the programmed Output for each partition. 1 pole is for the Siren (Bellbox), while the other pole is to switch the Speaker Output to the selected Partition.

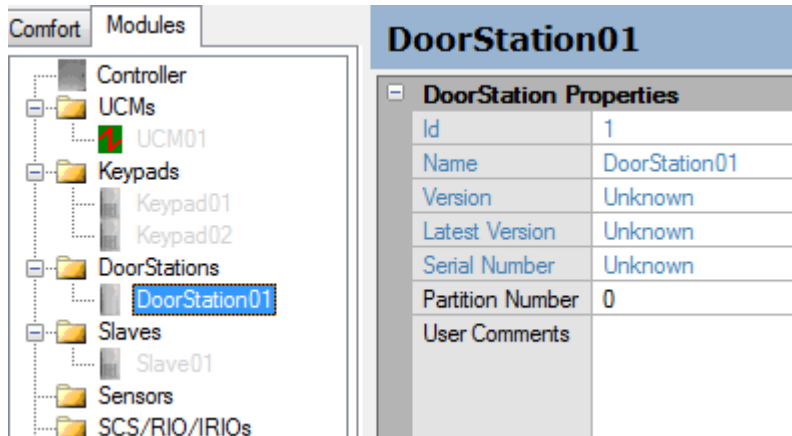
The Partition Siren Output turns on when there is an alarm which activates the Siren in a non-partitioned system. This means that Trouble beeps and arming beeps which do not activate the Siren would not be heard on the switched Speaker output

Dial to CMS

Dial to cms will show the partition number that caused the alarm but it will be numbered as Partition 1 to 4 not 0 to 3 to conform to conventional understanding. if the system has no partition, it will report partition as 0

Door Stations and Partitions

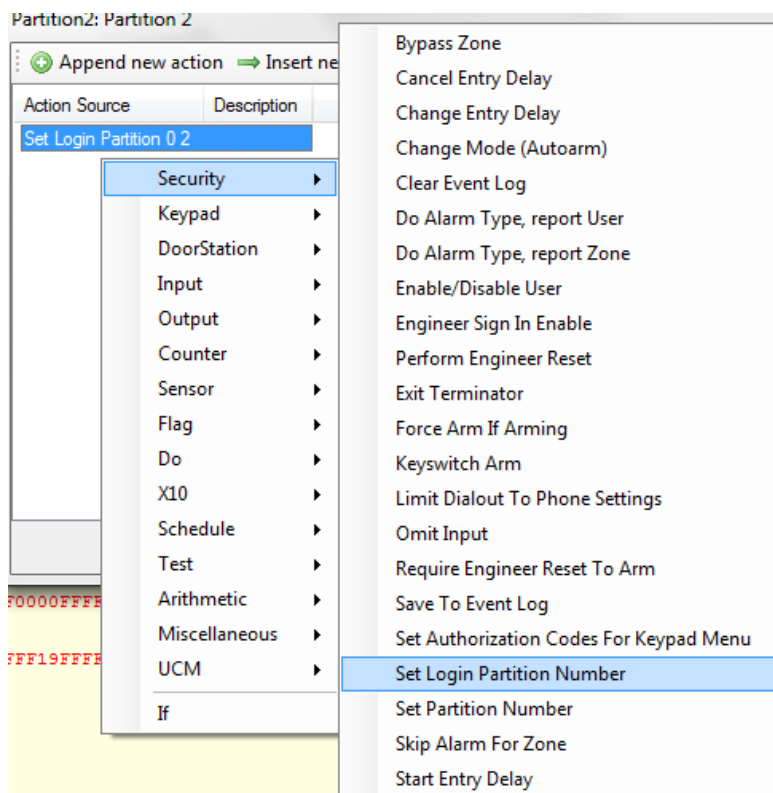
Each door station is assigned to a partition. When the door station is pressed, only the keypads in the same partition will have the Doorbell chime. However any keypad in any partition can press a key to talk to the door station.



UCMs/ Cytech App and Partitions

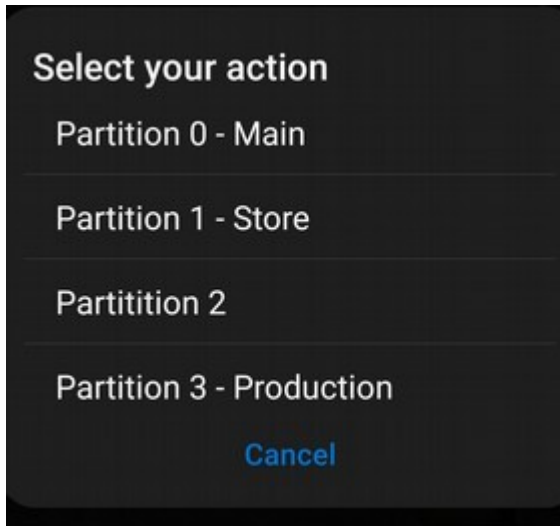
A User who signs in on a UCM with their user code will log in to the 1st partition they are enabled for. Eg user 1 is enabled for partition 0, 1,2, 3. When the user signs in, he/she is logged into partition 0 not 1. This user can arm and disarm partition 0 only.

From Comfort Firmware 7.163 and UCM 7.124, The Set Login Partition Number Action (161) has been added



Select Partition 0 to 3 to change the partition number. This allows a user which is enabled for more than 1 partition to select the other partitions for arming and disarming. The user must be enabled for the new selected partition

This action can be used in the Control Menu to change partition number as shown below.



UCMs for 3rd Party Systems and Partitions

For UCMs for KNX, Cbus, Modbus, Universal etc, the specific UCM firmware 7.123 and above is required to read the status for Alarms and Zones when partitions are implemented. Eg UCMKNX2 7.123, UCM/Cbus2 7.123, UCM/Modbus 7.123 etc are required.

SMS (UCM/GSM4) and Partitions

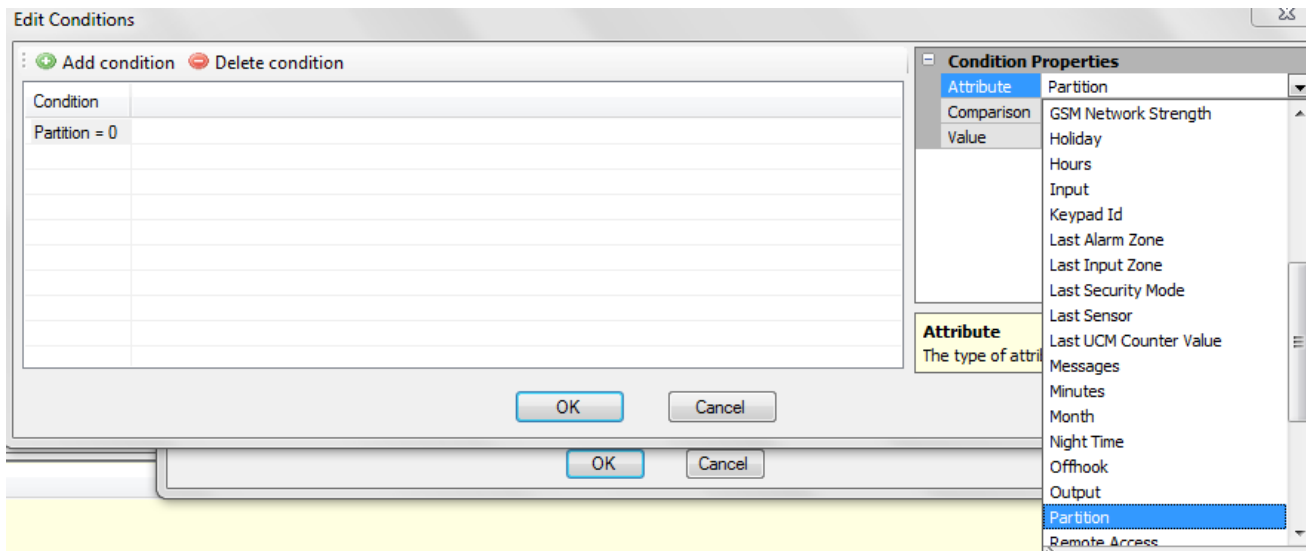
Arming and disarming of any partition is reported by SMS (using UCM/GSM4). However currently Arming and disarming by SMS to C9001 will work for Partition 0 only.



Action Codes for Partitions

Testing for Partitions in Responses

It is necessary in some Responses to know what security Partition is active. For example in Intruder Alarm Response, turn on Lights. Which partition caused the alarm? There is a new “If Partition..” action



eg
If Partition = 0 Then
 Do Lights On
Else
 If Partition =1 Then
 Do Lights 2 on
 Endif
Endif

Set Partition (Action 80)

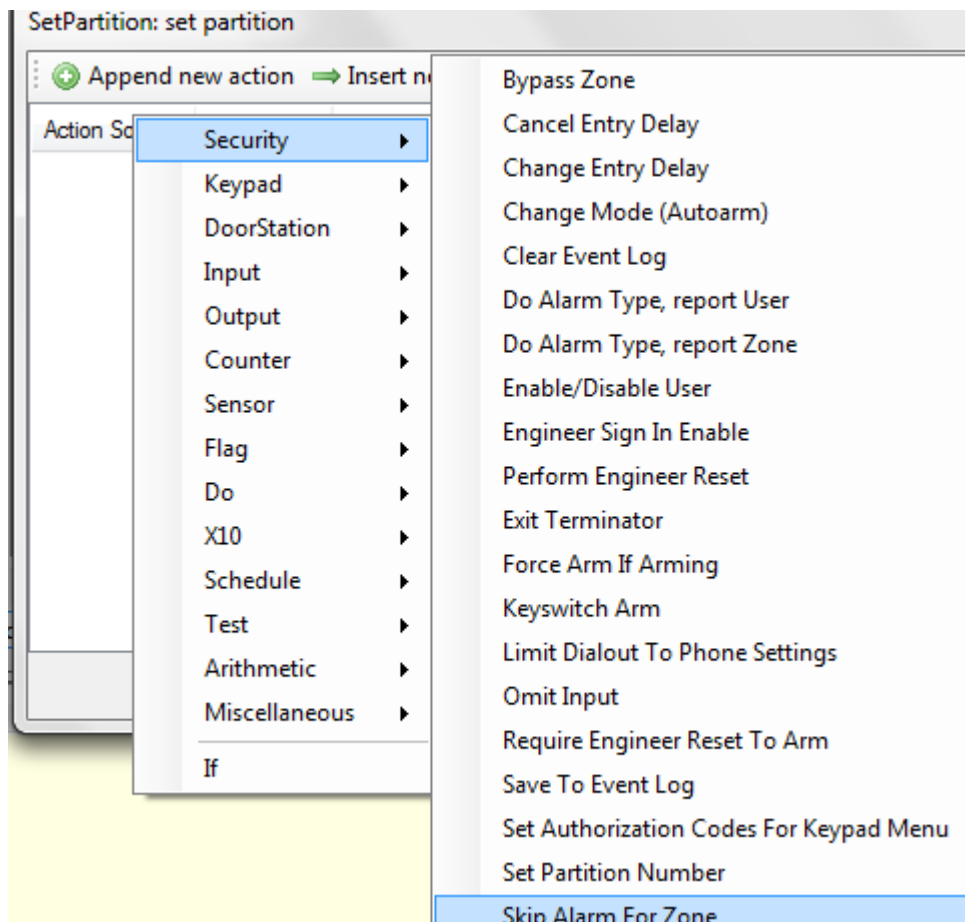
Many of the security-related actions are applied to a Partition
eg

- Get Security Mode
- Get alarm state
- Get last security mode
- Get entry alert
- Get last zone
- Get arming
- Get entry alert
- Get alarm type
- Get away/vacation
- Start entry delay
- Cancel entry delay
- Set exterminator
- Skip alarm
- Key arm
- Auto arm
- Bypass zones
- Unbypass zones
- Get input state
- Do alarm report zonepartition
- Do alarm report user

- Alternate entry time

if the Response “Knows” the Partition then it will work as expected, For example a Zone Response will set the active partition according to the Zone Partition, so the Response actions will have the correct partition. Keypad and Door station Responses also know the partition because each keypad and Door station has a partition.

However other events like Time Programs do not have an assigned partition. A Time program will work on default partition 0. eg the Auto Arm and Auto Disarm Time programs will work on Partition 0. For Time programs to work on other partitions, the Set partition action is needed



eg to Arm Partition 2 to Night mode from Security Off,

```
Set Partition = 2
SecurityMode = SecurityOff Then
  AutoArm NightMode
End If
```

Set Login Partition (Action 161)

This allows a user which is enabled in more than 1 partition to log in to another partition by UCM. Eg User 1 is enabled for Partitions 0,1,2,3. When the user logs in using his code, he is logged into the lowest partition ie 0. if the user wants to arm or disarm another partition, The set Login Partition action can be used to address the other partition. This can be done using the Control menu, with menus programmed for

```
0 = Partition 0
1 = Partition 1
2 = Partition 2
3 = Partition 3
```

The action works only if the user is enabled in the new partition. If the user is not enabled for the selected partition, the partition remains unchanged

The action 160 returns the value of the selected partition, or the exiting partition if the user is not

enabled for the selected partition

Compatibility with Non-Partitioned systems

In an existing system or non-partitioned system, zones and keypads are assigned to partition 0. Old keypads can be used with new firmware if there are no partitions. If partitions are used, new keypads KP04A or KP06A firmware 7.005 and above which support the partitions feature must be used.

If old keypads are used with Partitioned systems, they can still be used to arm and disarm Partition 0, but they will not hear or see the zones, security mode or beeps when the partition is armed or disarmed.

Programming by Keypad

Zone Menu 1

Enter Zone Number and # key

When the zone number and # key are entered, the following menu is played e.g..

Zone 2, Bedroom window
Zone Type 2, Entry Path Off,
Zone Response 0, OFF Response 0
Press 1 for Description,
2 for Zone Type,
3 for Entry Path
5 for Zone Response
6 for Off Response
7 for Area

Zone menu 1,7

Area 0
Enter area 0-3

Menu announces Area is 0 (eg)

Enter the area or partition 0-3 to be assign to this zone. Each zone is assigned to 1 partition.

Control Menu 4

Press 1 for Phone Settings
2 for Entry/Exit Time
3 for Security Options
4 for Control Station
5 for Keypad Area

Keypad Area (4,5)

Each keypad can be assigned to 1 partition 0-3

Keypad, enter keypad & # key

Enter Keypad 1 to 8 and # key

Eg Keypad 1 is entered

Keypad, 1, area 0, enter Area &
kev

Enter area (partition 0 to 3), eg enter 1 and # key

Select a new keypad to assign partition or press # for previous menu.

Program Menu 5

User Number (5,3)

This is to assign users to Partitions (applicable to Comfort Firmware 7.108 and above). Each user can be assigned to any combination of 4 partitions 0,1,2,3.

Enter User number and # key

Enter the user no eg 1

User number 1
Area 0,1..

The menu announces the assignment to combinations of Areas (or partitions) eg 0 for partition 0 only, or 0,1,2,3 for all 4 partitions.

Enter Area 0 to 3

Select an Area (partition) 0 to 3 to enable to disable this area.

Area 0, press1 for On, 0 for off

Press 1 to enable, 0 to disable the user for this area (Partition)

Select the other areas 1 to 3 and enable to disable. If the user is enabled for all partitions the menu announces

User 1, area 0,1,2,3

If the user is enabled for partition 3 only the menu says eg

User 8, area 3

If the user is enabled for partition 1 and 3 only the menu says eg

User 7, area 1,3

Security Mode Responses

Engineer Menu 3, 5 Security Mode Responses are for Partition 0 only

Press 0 for Security off
1 for Away Mode
2 for Night Mode
3 for Day Mode

To program Security Mode Responses for Partitions 0 to 3 use Location Menu (Engineer 7,4,1)

The table below is for OPTIMUM only.

The numbers in the table are Location numbers

eg Away Mode Response for Partition 2 is Location 1612

Partition	1	2	3
Security Off	1607	1611	1615
Away	1608	1612	1616
Night	1609	1613	1617
Day	1610	1614	1618

Door Station Partitions

Each Door station can be assigned to 1 Partition

Use Location (Eng Menu 7,4,1) to enter the partition number for each Door stations

The table below is for OPTIMUM and Ultra

Door Station	OPT Location	ULTRA Location
1	1607	824
2	1608	825
3	1609	826

Siren Outputs for Partitions

Partition	Location
0	1664
1	1665
2	1666
3	1667

Arm all partitions using 1 keypad

need firmware 7.181

Keypad Arm Function key should have response

If KeypadId = 1 Then

Set Login Partition 0 0

KeyswitchArm NightMode

Do ArmPartition1 After 5 Seconds Using _TPartition(9)

End If

ArmPartition1:

If SecurityMode <> SecurityOff And Arming = 0 Then

Set Login Partition 0 0

KeyswitchArm NightMode

Do ArmPartition2 After 5 Seconds Using _TPartition(9)

Else

Do ArmPartition1 After 2 Seconds Using _TPartition(9)

End If

ArmPartition2:

If Arming = 0 And SecurityMode <> SecurityOff Then

Set Login Partition 0 0

KeyswitchArm NightMode

```
Do ArmPartitionEnd After 5 Seconds Using _TPartition(9)
Else
Do ArmPartition2 After 2 Seconds Using _TPartition(9)
End If
```

ArmPartitionEnd :

```
If Arming = 0 Then
  If SecurityMode <> SecurityOff Then
    Set Login Partition 0 0
    If SecurityMode = DayMode Then
      KeyswitchArm NightMode
      Do ArmPartitionEnd After 5 Seconds Using _TPartition(9)
    Else
      Do SetPartition0
    End If
  End If
  Do ArmPartition3 After 5 Seconds Using _TPartition(9)
End If
```

Doc History

12 June 2016 – Initial Release,
1 October 2016 – corrected Response to arm partition 2 to night mode
11 Sept 2017 – added Siren Output for Partitions
1 April 2018 – added Bug in Keypad Menu 4,5 for partition announcement
15 April 2018 – Alarms & Partitions – System cannot be armed if any partition is in alarm
11 February 2019 – Added Trouble alarm and Partitions
4 June 2019 – added Speakers in Partitions

23 July 2019 - Added SMS for Partitions,
27 July 2019 - added Set Login Partition Action 161, External UCMs and Partitions
1 Sept 2020 - if all keypads are in partition 0, partitions can be enabled. Added Partition Events
10 March 2021 – added Partition Events. Added log in by telephone