Change Note for Pacom 2030, version 7.38.000 and above

1.   Alarm base number of the AIU.

a.   Prior to version 7.38.000.

The number of the AIU's used in the system was limited to four in the system (stand alone or networking). The other limitation was that all of the AIUs had to be connected to one node only.

b.   Version 7.38.000 and above.

It is now possible to define the starting physical alarm number for each AIU by putting the alarm number into keyboard number field in the 'scp' file. The alarm numbers are counted from one (not from 0).
The number of the AIU's connected to each node is still limited to four, but there is no limitation for global number of AIU's used in network system.

The total number of alarms that can be defined and use by the system cannot exceed 5000.

E.g.   The four AIUs is used in a two nodes system. Two AIU's are connected to Node 1 and two AIU's to Node 2. For that configuration we can define the physical alarms from 1 to 512 for AIU's connected to Node 1 and 1000 to 1512 for AIU's connected to Node 2.

.scp for Node 1
Port	Equip	Baud Rate	KBNum
6	1	4800 E	1 (or 0*)
7	1	4800 E	257 (or 0*)

.scp for Node 2
Port	Equip	Baud Rate	KBNum
5	1	4800 E	1000
9	1	4800 E	1257

* The previous 'scp' file format defined the values of the KBNUM field for all AIUs to zero. Version 7.38.000 can automatically adjust the value of the KBNUM field to maintain backward compatibility with the previous versions of the set-up files. This means that alarms for the first AIU will be mapped to physical addresses 1 to 256. The alarms for the second AIU will be mapped to physical addresses 257 to 512 etc.

2. Alarm Monitor Group.

a. Prior to version 7.38.000

When an alarm was triggered, the armed cameras were switched to alarm monitors that were defined to the corresponding keyboard in the 'scp' file. The camera-monitor assignment was based on the alarm mode defined in the 'sym' file. The maximum number of alarm monitors was limited to ten for each keyboard.

b. Version 7.38.000 and above.

For each alarm defined in the 'alm' file a new parameter for a monitor group number can be assigned. The range for the monitor group number is 1 to 5.
This is located in the last field of second line (see below) in the 'alm' file structure.

Alarm file structure:

Alarm logical number, Alarm ID, Macro, 6 fields of operator access

Auto reset time, Dwell time, Cam1, Preset1, Cam2, Preset2, Cam3, Preset3, Cam4, Preset4, Cam5, Preset5, *Monitor group*

When an alarm is triggered, the associated alarm cameras will be switched to a specified group of alarm monitors. Up to five monitor groups can be defined and as previously there are 10 monitors allocated to each group. The monitors for those groups are defined in the 'scp' file.

SCP file structure:

Equipment number, Baud rate info, KBNum, Priority, Start macro, Alarm end macro

1st group of 10 alarm monitors, reserve, 2nd group of 10 monitors, reserve, 3rd group of 10 monitors, reserve, 4th group of 10 monitors, reserve, 5th group of 10 monitors, reserve

**the five reserve fields are not used in version 7.38.000.

Representation for Alarm Mode 1
e.g. Alarm 1 has two alarm cameras 11 and 12 and its alarm monitor group is one
Alarm 2 has three alarm cameras 21, 22 and 23 and its alarm monitor group is 2
First group of alarm monitors for keyboard 1 are: 1,2,3,4,5
Second group of alarm monitors for keyboard 1 are: 10,11,12,13,14

(Second line of keyboard 1 "SCP" file is 1,2,3,4,5,0,0,0,0,0,0,10,11,12,13,14,0,0,0,0,0,0, …..)

Operation:
The operator of keyboard 1 has armed alarms 1 and 2, and both alarms are triggered. The two alarms are presented to the keyboard 1.
Cameras 11 and 12 will be switched to monitors 1 and 2.
Cameras 21, 22, 23 will be switched to monitors 10, 11 and 12.