

# **REDWALL Event Code Specifications**

## **Scope: Devices with PIE-1**

May 11, 2017

### **Purpose**

PIE-1 generates Redwall Event Codes to Network Video Recorder and Video Management Software for control of PTZ cameras and other devices.

### **Communication methods**

Send Redwall Event Codes to assigned port on UDP-broadcast, UDP –unicast and/or TCP.

Alarm codes will be generated for each event once on TCP, 3 to 20 times on UDP. When the alarm status is restored, "CL" code is generated.

Trouble codes (TR , FA and TA ) will be generated once for each event, then continue sending codes every 1 to 3600 seconds until the event is restored. On TCP, time out period can be set from 1 to 3600 sec. When these trouble statuses are restored, event code stops (tr, fa and ta) codes will be generated, respectively.

If device monitoring is enabled, "DM" code is stored in his section and sent repeatedly while there is no other alarm/error. If there is some alarm/error, "DM" is sent again after the alarm/error is cleared. "Transmission Interval of Trouble Code" is applied to "DM" interval.

The values below can be changed in the menu of "Configuration".

#### Setting of transmission interval for trouble event codes (TR, FA, TA and DM)

Set the transmission interval for trouble event codes: 1 - 3600 sec.

#### Setting of delay time for event code stop (CL, tr ,fa and ta)

Set the delay time for transmission: 2 - 60 sec.

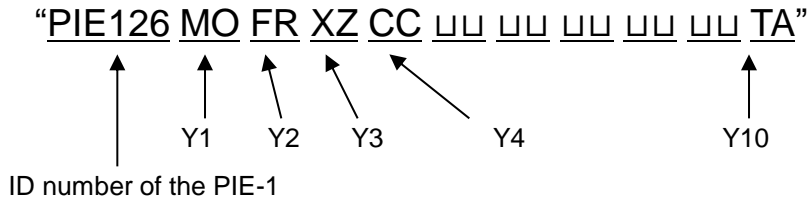
### **Code format**

XXXX\_Y1 to Y10

- "XXXX": ID number of PIE-1 unit consist 6 bytes as follows.
  - PIE + 3 bytes number representing the last group of the host IP address
  - Ex.) PIE126 This is a PIE-1 unit with the IP address setup as  
XXX.XXX.XXX.126
  - Default : PIE126
  - Or, ID number can be set manually (000-999).
- y : Status code of PIE-1 unit (20 bytes).
  - It shows independent status of the PIE-1 unit, as follows.

## \*REDWALL EVENT CODE for Redwall series (With PIE-1)

Redwall series : SIP-3020, 3020/5, 404, 404/5, 4010, 4010/5, 5030, 100

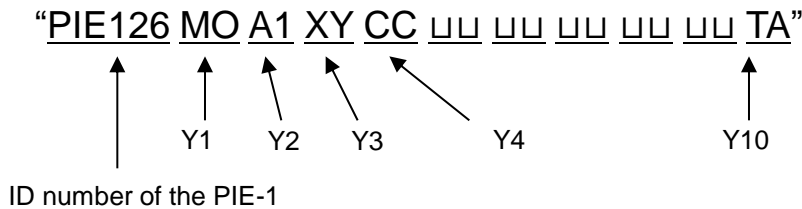


\* When no event, “ ”(space) is generated. (Space is expressed as “ ”, for convenience.)

Position	Status Code	Description
Y1	MO / CL	Master alarm condition / Master alarm condition is restored
Y2	FR/NR/CR/FN	Latest detection indication Far(FR)/Near(NR)/Creep(CR)/Far and Near(FN)
Y3	XY/YZ/XZ	Detection in multiple detection segments (Combination) CR & NR→XY, NR & FR→YZ, CR & FR or FN →XZ
Y4	CC	Detection in multiple detection segments (either combination)
Y5-7	-	Not available
Y8	TR /tr	Sensor error condition / Sensor error condition is restored.
Y9	-	Not available
Y10	TA /ta / DM	Tamper circuit activates / Tamper circuit status is restored Device Monitoring code

## \*REDWALL EVENT CODE for Fiber Sensor series (With PIE-1)

Fiber Sensor series : RFB-APU2, FD-322, 331, 332, 341, 342

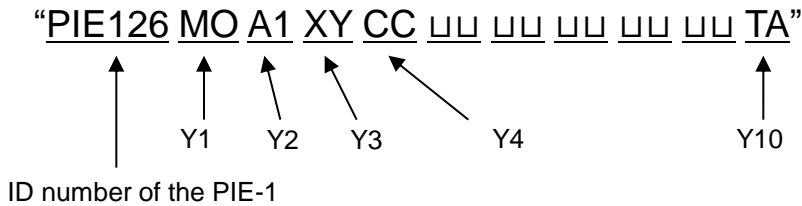


\* When no event, “ ”(space) is generated. (Space is expressed as “ ”, for convenience.)

Position	Status Code	Description
Y1	MO / CL	Master alarm condition / Master alarm condition is restored
Y2	A1 / A2	Latest detection indication A1/A2
Y3	XY	Detection in multiple detection segments (Combination) A1 & A2→XY
Y4	CC	Detection in multiple detection segments (either combination)
Y5-7	-	Not available
Y8	FA /fa	Fault circuit activates / Fault circuit status is restored
Y9	-	Not available
Y10	TA /ta / DM	Tamper circuit activates / Tamper circuit status is restored Device Monitoring code

## \*REDWALL EVENT CODE for Redbeam series (With PIE-1)

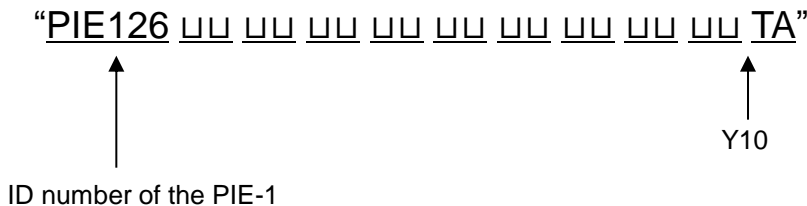
Redbeam series : RBM-60QN-IP, 100QN-IP, 200QN-IP



\* When no event, “ ”(space) is generated. (Space is expressed as “ ”, for convenience.)

Position	Status Code	Description
Y1	MO / CL	Master alarm condition / Master alarm condition is restored
Y2	A1/A2	Latest alarm indication A1/A2
Y3	XY	Detection in multiple detection segments (Combination) A1 & A2→XY
Y4	CC	Detection in multiple detection segments (either combination)
Y5-9	-	Not available
Y10	TA /ta /DM	Tamper circuit activates / Tamper circuit status is restored Device Monitoring code

## \*REDWALL EVENT CODE for Tamper/Trouble (With PIE-1)



\* When no event, “ ”(space) is generated. (Space is expressed as “ ”, for convenience.)

Position	Status Code	Description
Y1-7	-	Not available
Y8	TR /tr	Trouble circuit activates / Trouble circuit status is restored
Y9	-	Not available
Y10	TA /ta /DM	Tamper circuit activates / Tamper circuit status is restored Device Monitoring code

## -Source address (Default value)

IP address: 192.168.0.126

Subnet mask: 255.255.255.0

Default gateway:

\*The values above can be changed in the menu of "Configuration".

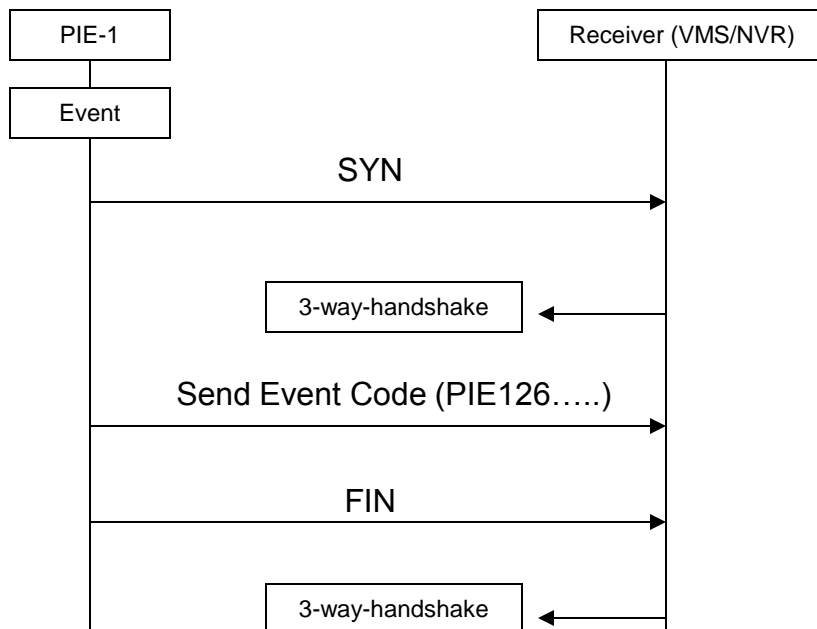
## -Destination address

Broadcast address on UDP-broadcast

Assigned one address on UDP-unicast and TCP independently

Port number: (Default value) 1234, select from 0 to 65535

## - Event code sequence



PIE-1 : For F/W ver. 1.2.0 or later

End