1. Abstract

This document details the output emanating from the printer port of the Aries Panel.

By default this port is inactive, to enable this the user should access the appropriate menu from the panel.

2. Data Format

The data is presented as:

9600 baud
no parity
8 data bits
1 stop bit
There is no handshaking on this port.

3. Software

Output on this port takes the form of three lines. The first line is the time and date of the event, the second line is the event itself and the third line (when present) is the programmable text string associated with some events.

3.1 First Line Format

The first line features the time and date of the event. The line is terminated with CR (0Dh) LF (0Ah).

For example:

```
10:10 AM 01-02-95
```

3.2 Second Line Format

This line can take a number of different formats depending upon the nature of the event being reported. These can be divided into three sections, detector events, panel events and miscellaneous events. The panel event category can be subdivided into RX/TX events, I/O module events and CCM events.

The line is terminated with CR (0Dh) LF (0Ah).

Note carefully both the spelling and the number of spaces present.

In these lists the following mnemonics are used:

```
Dettype     "AAM"
            "REMOTE RELAY"
            "SIGNAL MODULE"
            "ION"
            "PHOTO"
            "THERMAL"
            "ALARM DEVICE”
            "MANUAL STATION"
            "MANUAL RELEASE",
            "ABORT STATION",
            "SUPERVISION INPUT",
            "WATERFLOW MONITOR",
            "NORMAL INPUT",
            "TROUBLE INPUT",
            "SQUIRT",
            "FAN RESTART",
            "DRILL",
            "SILENCE",
            "RESET",
            "ACKNOWLEDGE",
            "SPURT",
```

"PALM",
"UNKNOWN TYPE"

ONF ON ("ON ", padded with a space)
OFF

addr (each of these will be followed by a one digit number)
SG (On board NAC circuit, 1-4)
RY (RelaY module, 1-3)
AR (Agent Release module, 1-4)

For network systems, events can be preceeded by a node number in the following format, where N01 represent node #1, etc.

N01-005 ALARM ON PHOTO

This node number will only be displayed or transmitted for events that originate from other nodes, not the panel that is connected. All events discussed below can be preceeded by a node number string.

3.2.1 SLC Device Events

These represent events which relate to detectors.

Device 001 is used for illustration, range is 001-255.

001 ALARM *ONF Dettype*
001 ALARM VERIFICATION *ONF Dettype*
001 PAS *ONF Dettype*
001 PRE-ALARM *ONF Dettype*
001 ABORT *ONF* ABORT STATION
001 ABORT TROUBLE *ONF* ABORT STATION
001 SUPERVISORY *ONF Dettype*
001 ALARM ON ACK
001 PREALARM ON ACK
001 SUPERVISORY ON ACK
001 PAS ACK
001 PAS RESET
001 INPUT *ONF* TROUBLE INPUT
001 INPUT *ONF* NORMAL INPUT
001 NOT REGISTERED *ONF Dettype*
001 TROUBLE OPEN *ONF Dettype*
001 RCU PASSED TEST *Dettype*
001 TEST FAILURE TROUBLE *ONF Dettype*
001 EEPROM FAILURE *ONF Dettype*
001 RAM FAILURE *ONF Dettype*
001 CONTACT FAILURE *ONF* Contact Monitor
001 DRIFT ERROR *ONF Dettype*
001 OUTPUT RELAY FAULT *ONF Dettype*
001 9 VDC FAULT *ONF Dettype*
001 LINE POWER FAILURE *ONF Dettype*
001 ISOLATED *ONF Dettype*
001 ILLEGAL TYPE STORED *ONF Dettype*
001 OVERHEAT *ONF* AAM
001 MODULE NOT CONFIGURED *ONF* AAM
001 SENSOR CABLE TROUBLE *ONF* AAM
001 24 VDC FAULT *ONF* SIGNAL MODULE
001 PSU SHORT CIRCUIT *ONF* SIGNAL MODULE
001 PSU OPEN CIRCUIT *ONF* SIGNAL MODULE

```
001 OUTPUT TROUBLE ONF SIGNAL MODULE
001 ALARM RELAY FAILURE ONF SIGNAL MODULE
001 WALK TESTED ON Dettype
001 IS IN DAY MODE Dettype
001 DUPLICATE ADDRESS FAULT ONF Dettype
001 FAN RESTART ONF Dettype
001 DEVICE COMMUNICATION FAULT ONF Dettype
001 SWITCH INPUT ACTIVE ONF Dettype
```

3.2.2 Panel Events

3.2.2.1 On Board Circuit Events

These events relate to the operation of the on board output circutis, NACs, release and relays. A list of the available modules and addresses can be found in 3.2.

```
addr SHORT CIRCUIT ONF
addr OPEN CIRCUIT ONF
addr ISOLATE ONF
ARn SYSTEM RELEASE
addr ACTIVATION FAILURE
```

3.2.2.2 IIM and HSD Events

```
IIM COMMUNICATION FAILURE ONF
IIM AUX ALARM PRESENT ONF
IIM AUX ALARM SUPERVISION ONF
IIM AUX TROUBLE PRESENT ONF
IIM AUX TROUBLE SUPERVISION ONF
IIM DIAL TONE SUPERVISION ONF
IIM MEMORY CHECKSUM FAILURE ONF
IIM LOCAL PC IN CONTROL ONF
IIM HSD SUPERVISION FAILURE ONF
IIM MODEM IN CONTROL ONF
IIM STYLE6 NETWORK FAILURE ONF
IIM RS485 CHANNEL 2 FAILURE ONF
IIM MODEM MISSING ONF
IIM NOT REGISTERED ON ANY PORT ONF


HSD001 represents an HSSD (address range is HSD001 – HSD127) which is
connected through an IIM to support Orion systems.

HSD001 ALARM LEVEL 1 ONF      (levels can be 1 or 2)
HSD001 PREALARM LEVEL 1 ONF   (levels can be 1 or 2)
HSD001 ALARM LEVEL 1 ON ACK         (levels can be 1 or 2)
HSD001 PREALARM LEVEL 1 ON ACK      (levels can be 1 or 2)
HSD001 DETECTOR TROUBLE ONF
HSD001 LOW AIR FLOW ONF
HSD001 PSU TROUBLE ONF
HSD001 ISOLATION ONF
HSD001 HIGH AIR FLOW ONF
HSD001 REFERENCE TROUBLE ONF
HSD001 AUTO OFFSET TROUBLE ONF
HSD001 MISSING ONF
HSD001 NOT REGISTERED ONF
```

Pegasys Addressable Loop Module Events (PALM). Address can be 001-255.

001 LOW AIRFLOW *ONF* PALM
001 HIGH AIRFLOW *ONF* PALM
001 DETECTOR TROUBLE *ONF* PALM
001 OFFSET TROUBLE *ONF* PALM

3.2.2.3 Network Events

The following events relate to network operations or problems. Node numbers can be 1 - 32. For events occurring on the connected node, initial node numbers at the start of strings are not displayed ortransmitted. Channels can be 1 or 2.

NETWORK CARD MISSING *ONF*
BAD STYLE OR NODE TROUBLE *ONF*
NETWORK CARD RESET CH: *#*
COMMUNICATION FAILURE NODE/CH: *##/#*
NODE(S) ADDED: *##*
NODE(S) ADDED: *##-##*
NODE(S) REMOVED: *##*
NODE(S) REMOVED: *##-##*
N##-ISOLATED FROM NETWORK
UNMAPPED NODE NODE/CH: *##/#*
TOKEN NOT RECEIVED ON CH: *#*

3.2.2.4 Remote Display & Annunciator Events

The following are events associated with remote displays, RDCM, and remote annunciators, ATM. Addresses of ATMs can be 1-16, RDCMs can be 1-15.

N01-ATM/RDCM## REMOTE PSU FAULT *ONF*
N01-ATM## MONITORED I/P FAULT *ONF*
N01-ATM## MONITORED O/P FAULT *ONF*
N01-ATM/RDCM## COMMUNICATIONS FAILURE *ONF*
N01-ATM/RDCM## NOT REGISTERED *ONF*
N01-ATM## TEST LAMPS INPUT FAULT *ONF*
N01-ATM/RDCM## ISOLATED *ONF*
N01-ATM## SILENCED OUTPUT FAULT *ONF*
N01-ATM## DRILL INPUT FAULT *ONF*
N01-ATM## ACKNOWLEDGE INPUT FAULT *ONF*
N01-ATM## RESET I/P FAULT *ONF*
N01-ATM## SILENCE INPUT FAULT *ONF*

3.2.3 Miscellaneous & System Events

These events do not fit in any of the above categories. Many of these are transient events which are neither alarms nor troubles.

FRESH START, NO EVENT
EVENT BUFFER CLEARED
PANEL RESET
SILENCE
FIRE DRILL
POWER ON
HARD RESET
DAY MODE ACTIVE
DEFAULT CONFIGURATION SET
CONFIGURATION SENT TO PC

```
NEW CONFIGURATION RECEIVED FROM PC
BAD CONFIGURATION ONF
PRINTER FAULT ONF
CONFIG MEMORY CHECKSUM FAILURE ONF
EVENT MEMORY CHECKSUM FAILURE ONF
CONFIG MEMORY WRITE FAILURE ONF
EVENT MEMORY WRITE FAILURE ONF
WALK TEST : ONF
ISOLATION OF ALL LOCAL OUTPUTS ONF
ISOLATION OF ALL LOCAL INPUTS ONF
PSU OVERVOLTAGE FAULT ONF
LOW BATTERY ONF
PSU LOW VOLTAGE FAULT ONF
GROUND FAULT -VDC ONF
GROUND FAULT +VDC ONF
AC FAILURE ONF
BATTERY CHARGER FAULT ONF
BATTERY DISCONNECTED FAULT ONF
SLC COMMUNICATION FAILURE ONF
SLC NOT MONITORING ONF
SLC LOOP ISOLATORS ACTIVE ONF
SLC SHORT CIRCUIT ONF
SLC OPEN CIRCUIT ONF
SLC RESET ONF
SYSTEM CHANGED TO BATTERY POWER ONF
DATE/TIME MUST BE SET TROUBLE ONF
MAIN BOARD VOLT REF FAULT ONF
TIME AND DATE HAVE BEEN SET
CONFIGURATION UPDATED
PROGRAM MEMORY CORRUPT ONF
CONFIG AND EVENT MEMORY CLEARED
NIGHT MODE ACTIVE
BATTERY CHARGING FAULT ONF
SLC CONFIGURATION IN PROGRESS ONF
SYSTEM COUNTDOWN ONF
BATTERY DISABLED ONF
SLC FAILURE ONF
NO EVENT
```

3.3 Third Line Format

This, typically, is a programmable text field, as defined in FCS for a device's Location field. For many events this field is blank. This line is terminated with CR (0Dh) LF (0Ah).