



ASIC/2 & SINC/3 Reporting

ASI Controls

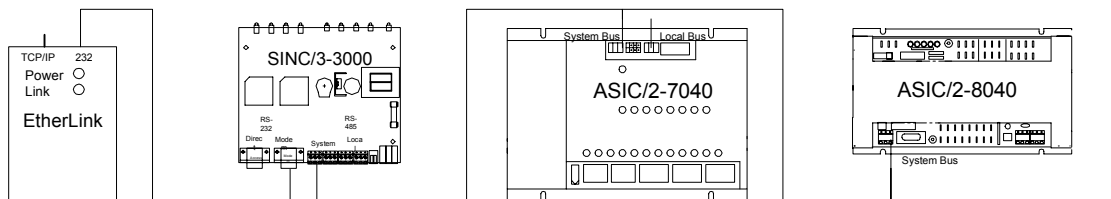
Event and Alarm Notification

ASI Controls ASIC/2 and SINC/3 controllers have been developed with handy reporting capabilities. The controllers can send notification of alarms or event conditions. One of the controllers can inform a remote station of the conditions. The remote station can be contacted either via telephone modem, or Ethernet TCP/IP network. The remote station can use a printer, pager, or a computer with ASI Monitor software to receive alarm information.

Notification

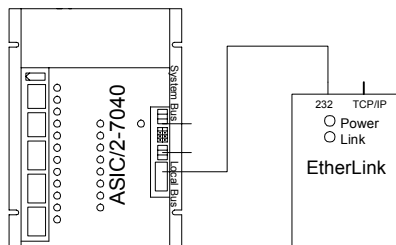
The evaluation of alarms and events takes place within the controller that has the information using notification. The ASIC/2 and SINC/3 controllers have a Notify object that is used to generate time stamp alarms. The notify information can be stored locally in a historical Notify Log, or can be posted on the network by communicating to another ASIC/2 or a SINC/3 for storage and further action. A notification sent to a special global address gets transmitted out of the Modem port of the SINC/3.

For example, supply temperature may require alarming if the value exceeds or drops below particular thresholds. If the evaluation is true and an alarm condition exists, then the occurrence gets a date and time stamp and the notify event is marked active. More than just alarm conditions can be evaluated. Events, change of value, and deviations can be date and time stamped.



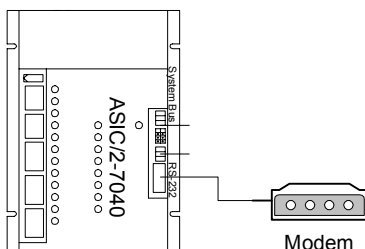
EtherLink Remote Announcement

An ASI EtherLink can be used on the ASIC/2 or SINC/3 controller to forward the notification to one or more designated computers over a TCP/IP network which is running ASI Monitor software. If an EtherLink is used, notifications that are sent to a special global address are forwarded by the ASI Etherlink, via Ethernet TCP/IP network to the ASI Monitor alarm-monitoring program running on a remote PC.



Dial Manager Remote Announcement

Once an alarm or event condition has been evaluated and the information has been posted to a particular device (including itself) the information is ready for announcement. The information can be announced in a variety of ways. Local announcement is done via front-end or hardware such as lights or horns. Remote announcement is done via telephone modem.





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Event and Alarm Notification

A single ASIC/2-7040 controller can do Dial Manager notification. Also Dial Manager notification can be done by a SINC/3 controller connected to multiple ASIC/2-7040, ASIC/2-8040 or SINC/3-3000 controllers on the system bus. The controller using the Dial Manager may also send routine data.

The Dial Manager Object is responsible for coordinating the dialing process. The Dial Manager examines certain conditions, events, or alarms and initiates dialing to a remote location. Different events may be sent to different locations. These locations may have different equipment, such as serial printers, numerical pagers, or a computer with appropriate software.

The Dial Manager may be operated in conjunction with, or controlled by, time schedules, holidays or other events, so that notification may be made to different locations dependent on the time of day or day of the week.

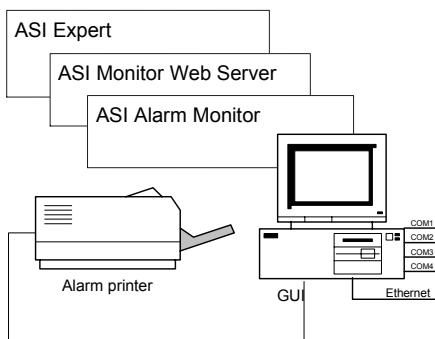
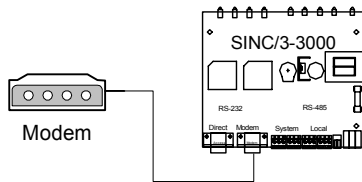
Each event monitored by the Dial Manager can initiate a dial process and sends unique text identifying the controller name or location, a callback number, the specific condition, and optionally a data value to illustrate that condition:

```
Dial Manager 3 EVENT 03/17/03, 13:15:42
FROM South County Center AT 215-555-1212
```

```
NOTIFY 11 Space Temperature DATE 03/17/03
ACTIVE TIME 13:22:25 CONDITION HI Alarm Set
DATA VALUE IS 75.66
```

If dialing the primary phone number fails, a secondary phone number can be attempted. The dial manager can be configured to repeat the event, should the event not clear within a time limit.

The ASIC/2 and SINC/3 controllers use Hayes compatible modems available from ASI Controls. The dial manager contains initialization strings to ensure correct performance of the modem.



ASI Monitor Software

The ASI Monitor software collects and stores the Alarm and Event information and can also log the collected information to a printer. Alarms or events can be forwarded to others via alphanumeric pager, fax, and/or e-mail. Full information management tools are available in the monitoring software that allows the user to sort for particular alarms or groups of events.

The Event and Alarm notification is ideal for remotely located equipment or buildings, particularly those where close to zero downtime and critical operating conditions must be met. The notification can significantly reduce loss-of-service costs and maintenance expenditure.

Applications include remote buildings, unmanned equipment sites, campuses, and utility sites. Manufacturers may embed the controller to provide intelligent equipment. Monitoring includes the notification of equipment failure, intrusion or maintenance.