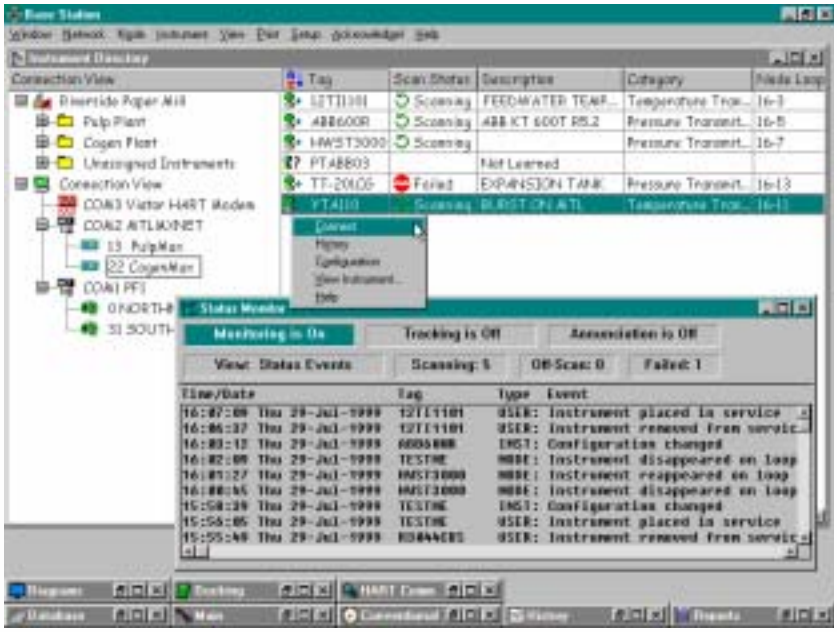
Instrument Status Monitor

- **Plant-wide monitor of HART® instruments**
- **Detect status changes in field devices**
- **Automatically build and update your instrument database**
- **Speed up commissioning by validating "as installed" device configurations**
- **Track and automatically record configuration edits made in the field**



Cornerstone's **Instrument Status Monitor** (ISM) adds device status display, network learn, and configuration tracking features to Cornerstone Base Station or to Cornerstone Configurator. ISM network functions help you realize the full digital benefit of HART interoperability. ISM complements and enhances your existing control solution, without forcing the adoption of a new strategy.

ISM polls networks of HART multiplexers to scan instruments located throughout the plant. This scan retrieves HART process variable and status data. Status changes are posted in the Status Monitor window, and scan status is updated in select display fields, such as those in the graphical Instrument Directory.

A special ISM function performs an Enhanced Network Learn. This powerful feature automates the addition of many new devices to the database in one operation, rather than requiring separate connections to individual instruments. This feature can build your entire instrument database in one automated step.

Cornerstone™

The Open Platform for Instrument Management

You may choose not to run certain ISM functions continuously, but may invoke them for periodic updates. For example, the Configuration Change Tracking option could be used to detect configuration changes made in the field in the last week. This option automatically updates the database to the current instrument configuration. A history record of the changes is created, which makes it possible to reload the previous parameter settings, if desired.

ISM running on a central Cornerstone maintenance station delivers significant time and labor savings. Using the status provided by ISM to identify potential problems, Base Station or Configurator then gives you the ability to connect, configure, self-test, trim, monitor, and diagnose without being forced to send a technician to the instrument location every time.

Instrument Status Monitor Features

- Supports connection and status retrieval using HART communication equipment from many different vendors
- Multiple networks feed a single status log for unified presentation
- Records instrument status changes to an event log file
- Configuration changes trigger the automatic creation of history records
- Log entries include Time and Date, Tag, and status change description
- Each status change detected in a single instrument scan creates a separate status log entry
- Customize status monitor display using configurable filters per tag
- Optional visual and audio alerts announce new status messages
- Print log entries with user-selectable report criteria
- Detects and assists in resolution of duplicate instrument tags
- Auto-learn feature automatically obtains memory contents of all attached instruments and creates Cornerstone database entries if not yet present. Automatically creates your instrument database.

BENEFITS

- **Remote access to smart instruments yields savings on costs of installation, operation, and maintenance**
- **Expanded and immediate knowledge of transmitter status complements and enhances existing control strategies**
- **Configuration change history records support quality program tracking of instrument parameters**
- **Ability to customize on-line status log optimizes operator focus and allows quicker response to process conditions**
- **Report generation filters create tailored input for maintenance schedule preparation**

Instrument Status Monitor Functions *

- Network initialization
- Compile a list of the attached instruments and multiplexers without manual data entry
- Automatically scan all connected instruments for status
- Obtain node (multiplexer or PLC) status, ID, performance information and self-test results
- Add/remove instruments from current scan list
- Edit instrument tags and unique IDs
- Assign computer port, speed, and primary or secondary HART master

* Some functions may vary due to differences in HART multiplexer capabilities.

Requirements

- Cornerstone Base Station or Configurator Software
- Microsoft Windows 98, Windows NT, Windows 2000, or Windows XP
- At least one optional Cornerstone Communications Library (ComLib) for a HART multiplexer
- Computer requirements per the selected ComLib data sheet

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