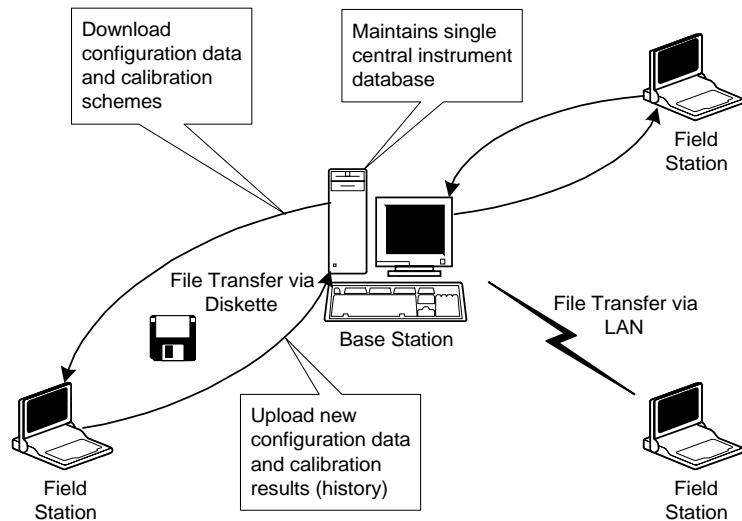




# Field Station Software

- ◆ **Portable Extension of Base Station**
- ◆ **Configure & Calibrate Instruments in the Field**
- ◆ **Exchange Data with Central Base Station**



## Overview

Cornerstone Field Station software provides a portable extension of Base Station capabilities for transport of instrument configuration and calibration data to and from field locations. Utilize Field Station to configure, test, and calibrate smart or conventional instruments located remotely from your Base Station.

Use the calibration route management features of Base Station's Docking window to build routes for Download to your Field Station(s). Downloads combine instrument configuration data with the assigned calibration scheme procedures and criteria for each instrument in the route. Detailed Base Station reports document the work assigned to each Field Station.

All on-line Calibrator Interface Libraries (CalLibs) that are installed on your Base Station are also installed on Field Station. CalLibs allow you to perform semi-automated on-line calibrations in the field, with direct connections between the field station computer, the calibrator, and the instrument.

Upon completion of parts or all of the downloaded calibration route, maintenance history data for those instruments is uploaded into the Base Station database. This integrates all field generated data back into the single central historical record maintained on your Base Station system.

**Cornerstone**<sup>TM</sup>  
*The Open Platform for Instrument Management*

## Field Station Functions

- Database, History, Conventional, and HART Comm window functions similar to Base Station
- Use as an alternative to a HART hand-held communicator
- Use Base Station On-line CalLibs to connect to calibrators and perform on-line calibrations
- Use all Base Station ModLibs to provide instrument specific support for HART<sup>®</sup> instruments
- Add new smart instruments to the central database simply by connecting them to Field Station
- Eliminate clipboards by using the Manual CalLib for immediate one-time entry of field data from stand-alone calibrators

### Add Smart Features to Dumb Calibrators

Field Station on a portable computer essentially turns many inexpensive "dumb" calibrators into more powerful units. This combination has the ability to intelligently direct multi-point test and calibration activities based on prescribed calibration schemes. It displays results in tabular and graphic form and calculates pass-fail status. It retains and uploads historical data for permanent record storage.

## Field Station Capacity

- Database holds up to 500 instruments and calibrators
- Retains history for three connections per instrument before upload is required

## Base Station's Role

- Field Station instrument routes are built using the Docking window on a Base Station
- Base Station route management features track status of Field Station routes
- Checks are made to ensure that you upload to the same Base Station that provided the download
- Base Station can support multiple Field Stations

## Download-Upload

- Field Station database is downloaded from Base Station Docking window
- Field Station calibration results and modified instrument parameters are uploaded back to Base Station
- Upload and download is done via a user specified file path
- Normal transfer mechanism is a single 1.4MB diskette, other removable storage media
- Diskette upload and download allows data transfer to remote locations by mail or courier
- File transfers can also be done via LAN, wired or wireless
- Upload can include the entire Field Station database or just data that is new or was modified in the field
- Results can be returned to the Base Station in multiple uploads as work is completed

## Field Station HART Interface

Single instrument connection is provided by any of the following optional HART modems:

- MACTek Viator<sup>™</sup> PCMCIA card
- MACTek Viator<sup>™</sup> RS-232
- Other HART modems

### Using Field Stations Like a LAN

You can achieve some of the functional advantages of a network based system by using several Field Stations and a Base Station. Field Stations act as temporary repositories for parts of your overall plant database. Maintenance can proceed on these assigned sets of instruments in parallel. This can be very effective if your maintenance operation is suited to being divided into several Field Stations. A regimen of periodic uploads from the Field computers into your Base Station provides the single common database you need for overall recordkeeping and reporting purposes.

## Requirements

- Cornerstone Base Station, running on a separate computer
- Microsoft Windows 98, Windows NT, Windows 2000, or Windows XP
- CD-ROM drive
- SVGA display

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**applied system technologies, inc.**  
p.o. box 309, dunnellon, florida 34430

Telephone: (352) 465-0201  
WEB: [cornerstone-software.com](http://cornerstone-software.com)