

This AutoScope Supplement Section describes the functions of the AutoScope option for SPC Express for Windows.

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Overview:

This product allows a copy of SPC Express for Windows running on a supervisor's station to see what is happening on all SPCXW stations on the network. Here's how it works:

- When a station starts, it puts its own name (Node ID, as defined in Global Preferences) into a Global Log File whose location is defined on the AutoScope Info Tab of Global Preferences. It also records the location of its own start-up folder. The "Location of the Global Log File" may be a drive/path or a UNC. (ie: \\server2\D-Drive\AutoScope)
- As each station opens a chart, it logs that action into its own Private Scope File. This file is located in the same folder as the Global Log File and has a name based on the station name (Node ID). It also records the last computed Cpk value and whether or not that process is in control.
- Any station (normally the supervisor's station) can then read the Global Log File and find out all of the SPC Express activity on the network.

Files:

- ScopeLog.txt The one and only Global Scope File – contains list of users. It should go in a folder on the server.
- ScopeTab.txt Each user's Config File (holds data from the Global Preferences AutoScope Tab). It is located in the user's start-up folder.
- (StationName).txt Each Users' Private Scope File – contains a list of open windows. Its name is based on the station name (Node ID). It goes in the same folder as the ScopeLog.txt file.

Licensing:

You must obtain a number of Licenses for each station that will included the AutoScope functions. This number of authorized stations is in the License.txt file that should be saved in your SPC Express for Windows start-up folder. You will not be allowed to view more stations than the number of licenses that you have.

Set-Up:

Click on File / GlobalPreferences and go to the AutoScope Settings tab. The first thing you should do is fill in the “Node ID” and the “Location of the AutoScope Log File”. Be sure this folder exists (you may need to create it).

Global Preferences

General Subgroup Entry Graphs and Layouts Input and Conversion AutoScope Settings

AutoScope: Enable/Disable

- ☒ Enable All AutoScope Functions (License Required)
- ☐ AutoScope Manager Mode (License Required)
- ☐ Disable AutoScope Functions

Node ID (Station Name):
Example: Grinding Dept. QC Lab

Location of the Global AutoScope Log File: E:\AUTOSCOPE

Timer Refresh Rate (Seconds): 5

Drive Translation Table:
(none)

Email Outgoing SMTP Server: (none)

Email FROM: (none)

Email TO: (none)

Email CC: (none)

Example: <aa@bb.com> ; <cc@dd.com>

All Done (Save) Cancel

Note: The “AutoScope Manager Mode” allows you to see the processes of other stations, but nobody else can see what your station has open.

You may tell the system (in your Global Preferences) how to resolve drive letters across your network. (ie: G:=\\server2-D-Drive\Ford, etc).

If you have more than one drive letter to resolve, just separate them with commas, like this:

G:=\\server2\G-Drive\Ford,H:=\\server2\SPCData\

Note: For many users, you can just leave this field blank.

If you want to send out emails when a process goes out of control, do so here. You **MUST** specify your SMTP Server name (such as mail.mycompany.com), a FROM address, and a single TO address. If you want, you can enter one or more email addresses on the CC line, separated with semi-colons.

Operation:

There is nothing special that needs to be done at each workstation other than defining the station's name and the location of the Global Log File. The supervisor's station (or any station that wished to monitor the network activity) must also define those items. To see the activity on the SPC Express network, click on the View Menu and choose "View All Stations". You will then see a new window open which shows the names of all of the stations on the network and whether they are Running or are OffLine. If a station is Running, you will be shown how many charts are currently running and the Cpk value for each. As you mouse-over the colored blocks which represent the processes, AutoScope will display the Part number, Characteristic and Dept/Process of each process. You may also click on the Station Name to open up all of the Charts that are currently running on that station.

Technical Information - Files:

FILE: SCOPETAB.TXT

There is TAB (AutoScope Settings) in Global Preferences. All of its info is kept in a txt file called SCOPETAB.TXT (5 records long)

- “ENABLE” / “DISABLE”
- Nodded
- Location of Global Log File
- Timer – Refresh Rate
- Drive Translation Table - This field is VERY IMPORTANT. It defines the UNC for OTHER stations to use for files that THIS station opens.

Example:

ENABLE

QC OFFICE Manager

W:\AUTOSCOPE

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D:=\\server2\d-drive, W:=\\server2\w\$, etc.

FILE: SCOPELOG.TXT

Global Log File Layout SCOPELOG.TXT:

“Name”,Status,TIME,Location of Private Scope File

Example:

“Grinding Dept.”,Running,10-08-2001 12:35:30,G:\Ford [CRLF]

“Welding Dept.”,Running,10-09-2001 18:45:35, G:\Ford [CRLF]

“Sewing Dept.”,OffLine,10-09-2001 18:45:35, G:\Ford [CRLF]

FILE: SCOPE.TXT (StationName.txt)

This is the Private Scope file which contains which windows a single station is running.

Syntax (1 record per active SPC Chart):

FolderName,MDB FileName (or MDB FileName*****Part Number),

Char/Process TableName, Time opened, Cpk

Example:

\\Server2\GM\Parts,38721.MDB, Dia ---- Finish,12/23/2001 12:35, 1.33

\\Server3\Ford\Parts,101.MDB, Len ---- Turning,01/20/2002 11:30, 1.75

It is HIGHLY RECOMMENDED that only UNC path names be written into this file, which means that the station that opens the file must have the drive letter listed in its Drive Translation Table.