General Improvements for Version 7.3

For more information on the improvements in this release see the following topics:

All Modules

System Administration

SPC Charts and Reports

SPC Data Entry

SPC Designer

Other Utilities

See also:

General Improvements for Version 7.301

GainSeeker 7.301 Release Notes

GainSeeker 7.300 Release Notes

Known Issues in GainSeeker 7.301

Known Issues in GainSeeker 7.3

General Improvements for Version 7.301

The following are enhancements that have been added in version 7.301 of the GainSeeker Suite.

- The FLUSH template command has been updated to work better with Terminal Services (Citrix). The FLUSH command is used to clear all characters from a COM port. See also RS232.

  > **Note:** Although this command has been updated to work better with Terminal Services, it is still not recommended as it may cause the system to become unstable.

- The SQL Utility module has been updated to allow for saving and loading script files. See also SQL Utility

- A new template command, STRINGTERM, has been added. This command can be used to strip off characters at the end of a string.

All Modules

Upgrade without running the Setup.exe for each workstation

When upgrading workstations from version 7.2 to 7.3 of the GainSeeker Suite, you do not need to run the workstation installation. For these workstations that are already on version 7.2, you can just run the workstation upgrade program (WS_UPD.EXE). This will make sure that the workstation has all the latest components. This also assumes that you have not changed the 'config_path=' Cms.ini setting during the the server installation.

Larger Notes with the Defect Management System

When GainSeeker is running with an ODBC database (Oracle or Microsoft SQL Server), the DNote table can be modified to increase the length of DMS Notes. The default length of a DMS note is 480 characters (columns S1 and S2 are each 240 characters). You may increase columns up to 952 characters each to increase the number of characters available for each note. The maximum combined size for the columns is 1904 characters. The database can be modified through administrative software or by using the ALTER TABLE command. GainSeeker will notice the new column sizes and adjust accordingly.

Enhanced Traceability Filter

The traceability filter dialog was improved to make it easier to build powerful filters for analyzing GainSeeker data. The new traceability filter eliminates the need for multiple lines to achieve nesting in a filter. Other enhancements include the ability to preview SQL syntax and a drop-down list that appears for each field.

Update notification

System Administration and Charts & Reports modules will now check our Web site for any new releases made available since your last update. The GainSeeker modules will ask for your permission to

check Hertzler Systems' Web site for updates and give you the option to download or order the latest version. The options for checking are fully customizable.

For more information, see Automatic Update Notification.

Improved support for 21 CFR part 11 FDA requirements

GainSeeker is committed to helping you meet your FDA 21CFR Part 11 requirements. To achieve this, you can require a reason for any change made to your data or configuration setup. The filter contents and retrieval settings have been added to the contents of data tables sent to the editor. Visit www.hertzler.com to learn more about how GainSeeker helps you meet the FDA requirements.

System Administration

Ability to edit statistical labels and real-time messages

A new interface has been created to customize real-time messages and statistical labels. You can use this feature to translate messages to another language or just change to match your terminology. Any statistics labels which you do not use can be removed from the available lists by clearing its label.

For more information, see Changing the Statistics Labels.
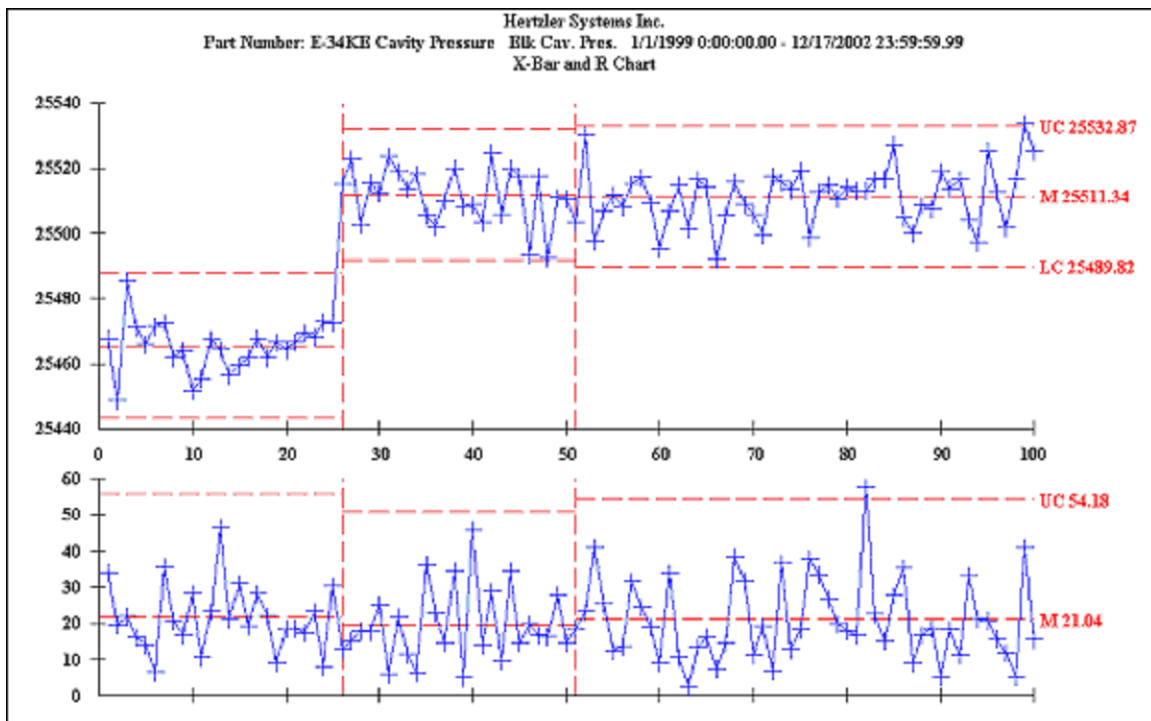
SPC Charts and Reports

Data groups (stepped control limits)

New in GainSeeker 7.3, control charts can display control limits calculated for each group of data on the chart. This is an exciting feature because it allows you to mark shifts or changes in the process and calculate control limits for each group. It provides a powerful tool to analyze your data and use GainSeeker to drill down on each data group on the control chart.

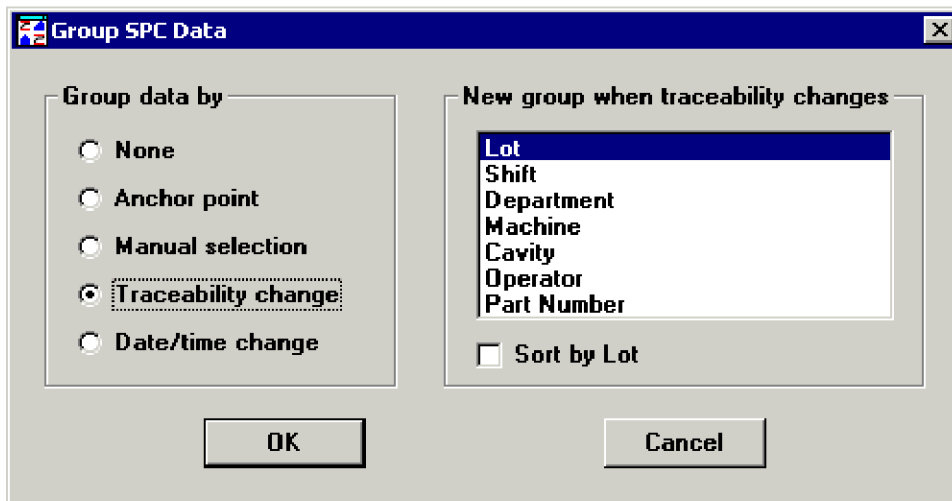For more information on data grouping, see Data Groups - An Overview.

Displaying data groups:

The following chart displays three data groups. Notice that each group has its own control limits. There is a process shift between the first and second group. If all the data was in one group, many of the subgroups would have been outside of the control limits.

Defining a data group

A data group is defined as a set of data points that fall between two group dividers. Group dividers can be defined in multiple ways. Data groups may be defined by assigning anchor points to mark shifts in the process. You can manually define the start and end of each data group, or let the software automatically detect changes in a traceability field. You may also choose to sort your data by the selected traceability field to detect changes between traceability values.

GainSeeker uses a Data Group Control Limit Legend to summarize the data groups on the control chart by reporting the control limits for each group. You may also zoom or generate new charts for the selected groups.

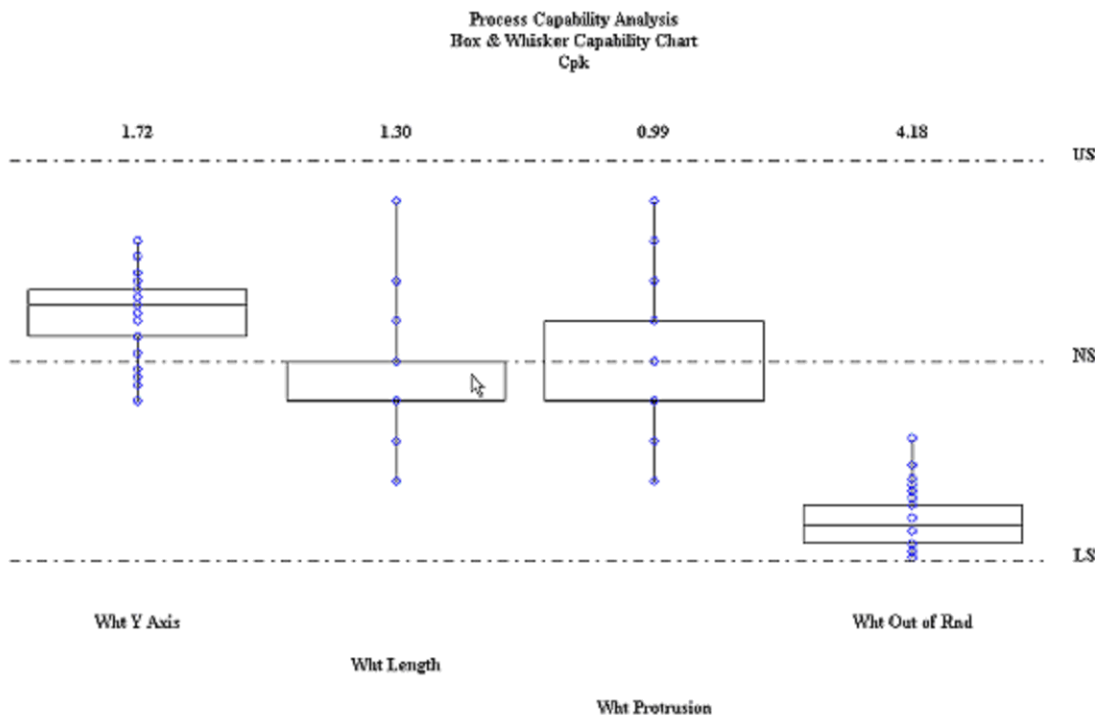| Group	Start/End	UCLx sub	Mean	LCLx sub	UCLr sub	R-Bar sub	LCLr sub
1	1 - 8	25482.63	25466.18	25449.74	41.39	16.07	0.00
2	9 - 39	25501.51	25481.02	25460.53	51.58	20.03	0.00
3	40 - 70	25529.84	25509.22	25488.61	51.90	20.15	0.00
4	71 - 88	25536.78	25511.79	25486.79	62.92	24.43	0.00
5	89 - 104	25533.11	25513.39	25493.67	49.63	19.28	0.00

On this dialog, you can highlight one or more data groups and click the **New Charts** menu to generate one or more new charts for each selected group. This option gives you access to use any of the chart types offered by GainSeeker to analyze this subset of your data.

Box and Whisker chart type

Box and Whisker charts are useful for displaying the distribution of the data by quartiles. The center of the box is located on the median value of a group of individual data points. The edges of the box are located on the first and third quartile values. The whiskers extend to the maximum data value on each end.

Displaying the Box and Whisker chart

The Box and Whisker chart type is available as an option for a multiple capability chart. The following example displays a Box and Whisker chart for each characteristic in the D-34KW family. Notice that you can now also display the raw data values for each characteristic for all graph types.

New Statistics and date/time periods

A number of new statistics have been added to help analyze your data.

Some of the new statistics include:

- New and improved statistics for reporting bypassed data

- Calculating centered capability values (Cp, Cr) for unilateral specs

- New statistics for the number and type of data groups

- Ten new date/time statistics (current date and time, high and low date and time, high and low date and time retrieved)

The new date/time periods include:

- One day ending now

- Last [x] hours ending now

- Last three months

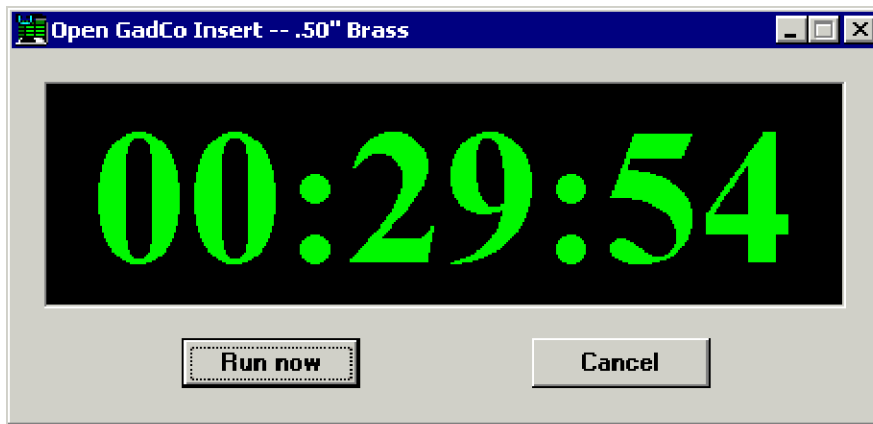- Last six months

SPC Data Entry

Data entry timed start

Now you can schedule data entry sessions to run when a timer expires or at a specified time of day. This helps to make sure that checks are done on time. The timed start is available as a menu option in data entry or can be launched through template commands and the command line. You may select to open a template, planned session, or stored session, and the time to start may be based on a specific time of day or a countdown time. You may also elect to restart a selected session on a regular basis.

For more information on data entry timers, see Timer Menu.

Control over timer display

In the following example, the data entry timer was set to launch planned session "GadCo Knob—White" in 30 minutes. The command buttons available on the timer dialog are configurable and can be eliminated. This allows you to customize the timer for the needs of your operators.

Open GadCo Insert -- .50" Brass

00:29:54

Run now   Cancel

Data groups (stepped control limits)

Data entry can display data groups. Real-time checks are always performed on the most recent data group.

Smart Dialogs

The dialogs where you pick your Template, Planned Session, or Stored Session have been enhanced. They now remember which template or session was picked last time and default to it.

SPC Designer

Connect to devices via the network protocol

New template commands have been added to read and write to TCP/IP devices on the network. Some of the devices readily available in the market are several devices by Zumbach Electronics and the GageWay series by Microridge Systems. This new feature will make it possible to access any device where connecting via the serial port is not feasible.

For more information, see TCP/IP.

Template management

Now you can keep templates that are still being developed hidden from all users until they're completed. You can also hide out of date templates without having to delete them. Access to hidden templates is a user right and can be set by system administrators.

Various other commands

New template commands include the ability to create DMS defects, compare two strings, display the note dialog, execute an ODBC SQL command that does not return results, enhanced GVID template commands and the ability to require a note to be entered for real-time failures while running the template.

STRCOMP, DE_NOTE, DEFECTCREATE, DEFECTID, GROUP_DATA, GVID_MISC, Q_EXECUTE, TIMER_DELAY, TIMER_RUN,TCPIP_RCV, TCPIP_CONNECT, TCPIP_DEBUG, TCPIP_DISCONNECT, TCPIP_ERROR, TCPIP_ERRORDESC, TCPIP_SEND, TCPIP_SENDRCV

In addition to the new commands above, the GVID_SHOW command has been updated.

Other Utilities

SPC Database Monitor

All the 'Send To' functionality has been added to the SPC Database Monitor module. It is now more powerful than ever. With the Send To functions, you can send the information you want to almost any source.

For more information on data grouping, see Monitoring Your Database.

Import/Export Manager

To capitalize on the record buffer feature added in version 7.2, you now have the ability to map XML tags in Import/Export Manager. This is a good integration tool between GainSeeker and other systems since it can be used to easily import or export data from other systems.

This version of the Import/Export Manager has also removed columns from XML file that were empty. This reduces the size of XML files and makes them more manageable.

For more information, see Import Export Manager.

SQL Utility

A results grid has been added to SQL Utility. The new grid can be used to execute SQL commands and view the results. Syntax checking is done on SQL commands and reserved words are highlighted.

For more information, see SQL Utility.