

# General Improvements for Version 7.4

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](#)

[SPC Monitor](#)

[Other Utilities](#)

See also:

[GainSeeker 7.400 Release Notes](#)

[Known Issues in GainSeeker 7.401](#)

## All Modules

### Control of fonts and colors on charts, listings, and tables

There is now the ability to control the font and color properties of charts, lists and tables. See [Changing Fonts and Colors on Charts](#) or [Changing Fonts and Colors on Tables and Lists](#) for more information.

### Temporarily change configuration for a user

GainSeeker now allows you to temporarily change the configuration of a user. This can be done using the new Change Configuration menu option on the file menu. See [Using the Menu Options in Data Entry](#) for more information.

### MINITAB v14 COM Interface

GainSeeker now allows you to take advantage of the COM interface available in the Corporate Edition of MINITAB version 14. This interface allows you to automatically draw charts in MINITAB from the **Send To** menu. See [Exporting data to MINITAB](#) for more information.

This feature is also available as a tab in the Data Entry module, allowing you to generate MINITAB

charts of real time data. See [MINITAB tab](#) for more information.

## Send To, MINITAB file format

GainSeeker now allows you to save a file in MINITAB file format. This allows you to save a file for use later with the MINITAB system. See [Exporting data to MINITAB](#) for more information.

## Use of Windows Login name to automatically login

GainSeeker will now automatically login to the GainSeeker Suite in some circumstances. This occurs when we find the Windows Login name as a valid GainSeeker user and there is no GainSeeker password required.

## Data Group Control Limit Legend now available

When a control chart with [grouped data](#) is displayed, you can view more detailed information and analysis on each data group. A new Data Group Control Limit Legend identifies the distinct characteristic of each data group and displays control limit information for each group. See [Viewing details for data groups](#) for more information.

## Power Tools menu added to more GainSeeker modules

The Power Tools menu was added to the Designer and Planner modules.

## Edit both data and monitor data records

Users now have the option to edit both the data and monitor records on the edit data dialogs. There is an option to edit the monitor information along with the data. If no monitor record exists for the subgroup, the option is disabled for that subgroup.

## User can now create JPG files of a specific size

We now allow for the creation of JPG files of any size. See the Cms.ini setting [html\\_res=](#) for more information.

## Updated settings for chart titles and subtitles

Statistics and other values displayed on chart titles and subtitles can now be displayed with or without the accompanying label. For instructions, see [Changing SPC Chart Titles](#).

For example, you can display the date/time range on the subtitle of a chart as simply

"1/1/1999 0:00:00 - 4/8/2004 23:59:59"

instead of

"Low date/time: 1/1/1999 0:00:00 High date/time: 4/8/2004 23:59:59"

By default, charts now display the part number, description, low date/time and high date/time without

labels in the subtitle. In DMS, the label for Process is also removed, and blank part numbers are displayed as blank instead of "~~001". Because of the new font selection capabilities, the default font for charts may be larger than in previous versions, so this helps to limit the length of the chart subtitle.

## Statistical validation

As with every major release of the GainSeeker Suite, version 7.400 received comprehensive statistical qualification testing. See [Software Validation](#) for more information.

## System Administration

### Delete Range rights now work in conjunction with other delete rights

In the past, there were some discrepancies with the Delete Range rights. We now use the rights in conjunction with other delete rights. For example, if the user doesn't have rights to delete a standard but does have rights to delete ranges, we do not allow them to delete. For deleting ranges, it uses the strictest of the delete and delete range rights.

### New routine to delete temporary files

There is now a routine that will delete any temporary files created by the GainSeeker system. See [Cleaning up temporary files](#) for more information.

## SPC Charts and Reports

### Analyze Data Wizard

There is a new wizard available that allows you to analyze your data for common causes and special causes. This wizard will point out potential problem area in the data so you can zero in on variation in your data. See [Analyze Variation Wizards](#) for more information.

### Summary charts now available

This new feature makes it easier to create summary charts that display how a particular statistic, such as data mean or Cpk, changes over time. See [Statistics Table Summary Chart](#) for more information.

### Non-symmetrical control limits

[Non-symmetrical control limits](#) can be calculated for non-normal, modeled data sets when the subgroup size is one. There is an option on the [Non-normal Options](#) screen in the Administration module to choose how to calculate the control limits in this case. This setting can also be [changed temporarily](#) from the retrieval settings dialog in SPC Charts and Reports.

## Improved accuracy of statistics for non-normal data

GainSeeker 7.4 now calculates Mean +/- 3SD more accurately for data that is non-normal and modeled. For a more detailed explanation, [click here](#).

Because this tends to slightly widen the reported spread of the data, you may find that Cpk calculations for non-normal data are lower than those reported by previous versions of GainSeeker for the same data set. [Other statistics](#) whose calculations are based on the Mean +/- 3SD will also be affected.

If you must use the earlier, less accurate approximation of the data spread, add [mn\\_sd\\_old=1](#) to Cms.ini.

## Set whether lower control limits can be less than zero

There is a new setting in which you can specify that a lower control limit for a standard cannot be less than zero. See [Creating a new standard](#) for more information.

## Add arrow or pointer annotations to charts

You can now add arrows or pointers to charts. See [Adding Text to Charts](#) for more information.

## Date labels changed

When displaying date labels on charts where the data falls within a date range, efforts were made to make the date labels better. For example, instead of displaying "1/1/2003 01:01 through 1/31/2003 23:59" we now display "January 2003".

## Statistics Table can now be sorted by a column

The statistics table can now be sorted by any column. This allows you to draw a bar chart in order from low to high. To sort the table, simply click on the column title. Click again to change the sort order from ascending to descending.

## Remove part numbers with no data from statistics tables

A new Cms.ini setting, [nodata\\_stattable\\_spc=0](#), allows you to remove statistics table rows where no data was retrieved for the part number.

## Manual scaling settings now stored in desktops

Control charts and histograms can be manually scaled. In the past, these settings were not stored in desktops. Now, these settings are stored in desktops. Every time the desktop is opened the scaling will be the same.

## Updated legend for Combined Control Chart

The legend for a combined control chart has been updated to display the mean. This updated legend is

also displayed when a combined control chart is sent to HTML, WordPad, or File (saved in .htm or .rtf format).

## **New statistics available**

The following new statistics are available in the GainSeeker Suite:

LCLx sub for zones - Lower subgroup control limit used for zone checking when the 'Values cannot be less than zero' option is used.

LCLx ind for zones - Lower individual control limit used for zone checking when the 'Values cannot be less than zero' option is used.

Values cannot be less than zero - Standard setting whether or not values can be less than zero.

Count above control - Number of subgroups above control limits.

Count below control - Number of subgroups below control limits.

Count out of control - Number of subgroups outside control limits.

Count in control - Number of subgroups inside control limits.

## **DMS Charts and Reports**

### **Drill Down Wizard available in DMS Charts and Reports**

There is a new wizard available that helps you to analyze your data. This wizard will point out potential problem areas in the data so you can zero in on biggest defects. See [Using the Drill Down Wizard](#) for more information.

### **Defect Detail in DMS Charts and Reports now displays Sample Size**

Sample size is now an option in the display columns for the Defect Detail table. Depending on the retrieval type, the sample size may be NA.

## **SPC Designer**

### **File Import Wizard**

There is a new wizard available that quickly creates a template to read in text files. See [File Import Wizard - Overview](#) for more information.

## **Email templates**

There is now the ability to email a template directly from the Designer module. See [Launching the Designer](#) for more details.

## Right-click menu available

A menu is now available by right-clicking on the list of templates. This menu gives you easy access to some of the most commonly used functions.

## New commands for data entry display and list options

The new [DE\\_OPT](#) command allows you to set font and color options for the data entry input box, to display an alternate character for sensitive information such as passwords, and to override the configuration settings for storing or displaying real-time failure notes.

The new [LIST\\_OPT](#) command allows you to set display and selection options for list windows generated by the LIST\_F, LIST\_P and LIST\_Q commands.

## EMAIL command updated

The EMAIL command has been updated to allow you to attach a file to email instead of attaching a chart.. See [EMAIL](#) for more details.

## DB\_DATA\_AUX\_SQL command updated

The DB\_DATA\_AUX\_SQL command has been updated to allow you to ask if there is data that has been set and needs to be stored. See [DB\\_DATA\\_AUX\\_SQL](#) for more details.

## DB\_STD\_SQL command updated

The DB\_STD\_SQL command has been updated to allow you to use the DMS parameter. In the past it only worked with the SPC parameter. See [DB STD SQL](#) for more details.

## Record Buffer commands updated

Several record buffer commands were updated to accept a DMS\* or SPC\* parameter. This new parameter returns a complete SQL insert string to add a row to a table. See [DB\\_DATA\\_SQL](#), [DB\\_NOTE\\_SQL](#), [DB\\_DATA\\_AUX\\_SQL](#), or [DB\\_STD\\_SQL](#) for more details.

## Various other commands added

New template commands include the ability to parse columns with any specified delimiter, define a timer for amounts less than one second, return files in a folder, increment a date string, format a date string, display a formatted list box, and access FTP sites.

[COLUMN](#), [SLEEP](#), [DIR](#), [DATE\\_INCR](#), [DATE\\_FORMAT](#), [INP\\_TAB](#), [FTP\\_CONNECT](#), [FTP\\_GET](#), [FTP\\_PUT](#), [FTP\\_DELETE](#), [FTP\\_DISCONNECT](#), [PREP\\_Q](#)

# SPC Data Entry

## Chart captions are now printed with Charts

The captions on data entry charts are now printed with the charts. These captions are definable in the Template Designer module and can consist of any of almost 250 different statistics.

## New options for making data entry faster

Several speed enhancements have been made to the SPC Data Entry module. Some of these enhancements depend on configuration settings in the program.

- When a data entry session is running in the SPC Data Entry module, you can click the Session menu and then click Data Entry to select which components to display on the data entry screen for this workstation. The SPC Data Entry module has been optimized so that data entry speed increases as you turn off [visual components](#).

A new component, [Default Prompt Message](#), has been added to this list of options. It allows you to hide the prompt message displayed above the input box on the Data Entry screen.

Minimizing the SPC screen during data collection also increases the speed.

- When a data entry session is running in the SPC Data Entry module, you can click the Session menu and then click Retrieval Settings to select which historical data will be retrieved for calculation of real-time control limits and other statistics. The SPC Data Entry module has been optimized so that data entry speed increases when [Recalculate control limits every n new data points](#) is set to 0. The program runs faster because it does not re-retrieve the data after every n new data points. This option can also be set from the [Administration module](#) as Number of new points before data is refreshed.
- The Data Entry module now works faster by re-reading the standard from the database less frequently than before.

This optimization could affect templates that dynamically update the standard in the database and expect to access that updated standard information each time the data set is refreshed. In this case, use the [REFRESH](#) command in the template to re-read the standard.

# SPC Monitor

## Filter failure window to only show specific real-time failures

You can now create a filter for the failure window. This filter will allow you to only show subgroups that have failed specific real-time tests. See [Filtering by Real-time Failures](#) for more information.

## Real-time failure colors are now used on the combined monitor window

The combined monitor window in the SPC Monitor module shows both good and failure records. In the past, these records were either green for good or red for failure. We now can display the real-time failure color for failure records. The real-time color dialog, in the System Administration module, defines which colors apply to which failure. The dialog also defines the precedence for multiple failures. This dialog now also includes an option to display these colors in the Monitor module.

## Other Utilities

### Note Manager reports enhanced.

You can now specify whether data and corrective action information is printed with the notes. See [Printing notes](#) for more information

### SQL Utility now supports stored procedures

The SQL Utility now supports calling stored procedures. See [Using Stored Procedures in SQL Utility](#) for more information.

### New instructions for YESTERDAY

The Online User Guide has been updated with a formula that produces yesterday's date. For details, see [DATE\\_INCR](#), [FORMAT](#) or [NOW](#).