
MaintScape Release Notes

MaintScape enhancements are provided to MaintScape customers with an active product support agreement in place. The agreement entitles a MaintScape customer to unlimited technical support and all available upgrades. The annual product support agreement cost is 15% of the original MaintScape cost. There are no additional upgrade fees.

MaintScape releases are identified by “Build Number”. All customers are notified by email when a new Build is released, and those on active support agreements are sent instructions for downloading their upgrade. An upgrade on physical media (CD-ROM) is available on request.

Please contact GrandRavine Software (using contact information at the bottom of the page) if you wish an upgrade or to inquire about the status of your product support agreement.

The list of enhancements, below, is summary in nature and does not include bug fixes, which are made on a continual basis, or very minor enhancements.

Please don't hesitate to contact us if you have questions or inquiries.

Build 132 (Sept 12, 2011)

1. The printer selection and configuration dialog is now presented each time before a report prints, or once before a batch of reports print. This eliminates the need to use the “Print Setup” function to change printers or printer properties.
2. Attachments related enhancements:
 - Attachments may now be directly associated with work orders. Prior to this release, attachments were indirectly associated to a work order through its equipment, location, procedures, etc.
 - Attachments may now be associated with Purchase Requisitions.
 - The Purchase Order and Purchase Requisition “Attachments” tab pages now show attachments associated with any of the line item parts as well as those associated with the PO or PR themselves. A new menu bar option provides the following options when printing a PO or PR: (1) only print PO or PR auto-print attachments, and (2) also print part auto-print attachments.
 - Attachment code now defaults if not specified when saving a new attachment. This should be especially useful for attachments directly attached to work orders.
3. A new window and process is provided for batch printing part/part-location labels, barcoded and otherwise. It permits a number of labels-to-print to be accumulated, including when receiving parts, and then printed in batches on label sheets using standard printers.
 - The new label batch printing window is accessed from the main menu “Part” icon by clicking the new “Part/Part Location Label Printing Batch” action. The window includes features to avoid waste due to partially printed sheets.
 - Labels can be batched for printing when receiving parts on a PO. This is particularly useful when operating procedures require labels to be affixed to parts as they are received.

Labels can also be batched for printing directly from the Part Inventory Transaction window. This is useful, for example, when there is a need to print labels from non-receipt transactions, or when the receipt was not initiated from a PO, or when a user forgot to batch labels when receiving from a PO.
 - Labels can be batched for printing on an ad hoc basis using a new button next to the inventory locations list on the Part window, Inventory tab.

4. MaintScapeWeb Enhancements:

(MaintScapeWeb is the companion web application to MaintScape implementing functionality used by non-maintenance personnel – in particular, Service Request submission and inquiry.)

- The web page appearance has been enhanced, and the internals upgraded to support the latest Microsoft .NET framework version 4.
- MaintScapeWeb now supports searching for work orders and display a subset of work order information.
- A service request listed following a search includes a link if the service request is linked to a work order. Clicking on the link will show the associated work order(s).
- Requested completion date is no longer required when submitting a service request.
- The Service Request Search page requires at least one search criteria field to be populated rather than “requested by” being a mandatory field.
- Configuration options are now supported to:
 - Restrict the set of permitted work order types when creating a service request and when searching for work orders.
 - Include a “Requestor Location” field on the “New Service Request” and “Search for Service Requests” pages. This field can be set to optional, mandatory, or omitted (not included on the page).
 - Require users to search for work orders by Location.

5. Reporting enhancements:

- A new bar code label report is available from the Part Search window: “Part/Part Location Label - Avery 5260 - small bar code”. This label format is also usable from the new Label Batch Printing Window (described above).
- The layout of the Part Count Sheet report has been updated, and the following new fields appear on the detail line: available quantity, minimum quantity, maximum quantity.
- A new equipment report is provided: “Equipment Meter Cost Summary - By Equipment Class”. This report summarizes information in the already available “Equipment Meter Cost” report.
- A new work order report is provided: “Task – by Work Order”. This report is similar to a work order list report, except it prints a line for each task. Therefore this report is most useful to list multi-task work orders.
- Account level and grand totals for receipt cost added to part inventory transaction report, “Receipt Report - by Receipt Account”.

6. Miscellaneous enhancements:

- Code table data may now be exported to an external file (e.g. Excel spreadsheet) from the system administration “Code Tables” window.
- The process of creating a work order from a service request can now first transition the service request to status ‘Open’ rather than requiring the user to do this in a prior step.
- Service Request can now be directly status transitioned from “planned” to “open” (subject to security).
- The “Status” tab of the work order search window now supports searching for work orders by status change reason. You can search for work orders where any of its status change specifies a particular reason, or where only the latest status change specifies a particular reason.
- MaintScape now prohibits direct issuing parts to equipment that is retired. User must now confirm direct issuing parts to equipment that is out of service.

- The PO window “invoice” tab no longer incorrectly warns “fully invoiced” or “over invoiced” as a result of decimal point rounding errors. The same applies to a number of PO Detail reports.
 - In addition to specifying standard text to print on Purchase Orders in both the System Configuration window and Site Configuration window, a user can now specify the font point size to use when printing the text. The applicable point size default value is copied into a PO record when a PO is created, and can be subsequently modified for the PO.
 - A user is considered to be the ‘Approved By’ individual for a PO when a Pending Approval PO is changed to status Open, or the status of a PO is changed from any status to Approved. Previously the ‘Approved By’ individual was only set when a Pending Approval PO was changed to status Open or Approved.
 - System configuration setting for email integration now supports SMTP Server Port.
7. MaintScape configuration settings and file directory usage has been overhauled to be more native to newer versions of Microsoft Windows and more compatible with Terminal Server deployments:
- The MaintScape configuration file (“maintscp.ini”) has been split into separate application and user configuration files. Each computer running MaintScape will have one application configuration file, however each computer user will have their own user configuration file. As a result, each user will have their own settings. When upgrading MaintScape, the prior configuration file will become a user’s initial configuration file, and thus prior settings should remain in place.

This enhancement is particularly valuable when MaintScape is running in a Terminal Server environment. Each terminal server user will now have their own settings.
 - Some MaintScape customers have more than one production database, and create separate shortcuts to connect to one or the other. They often use different window color schemes to make it clear which database MaintScape is connected to. The MaintScape configuration file split makes the usual way to implement this not practical. Therefore MaintScape now supports a shortcut command line parameter to specify toolbar color. This parameter, along with new override parameters for application and user configuration files, is described in the latest MaintScape Installation Instructions document.
 - MaintScape now writes files into a “MaintScape” folder within the user’s “My Documents” folder. For example, reports requested when bulk generating work orders from maintenance schedules or when performing bulk work order status changes.
 - These configurations settings and file directory usage enhancements will eliminate problems that occurred in Windows Vista and Windows 7 when a MaintScape user did not have permission to the MaintScape file write folder.

Build 131 (July 8, 2010)

- MaintScape support for the Sybase SQL Anywhere version 11 database engine is now fully released.
- Part and Part Location enhancements:
 - You can now change a part’s location in MaintScape Explorer using drag and drop.
 - MaintScape Explorer now supports right mouse actions on parts within part locations such as: create a new inventory transaction, change part location, and view a history of inventory transactions and/or purchases for the part (subject to optional module availability).
 - You can now more easily change a part’s location within the Part window, “Inventory” tab.
 - The Part Inventory Transaction window for ‘transfer’ transactions now makes it easy to change a part’s inventory location. This capability is used by the above described simplified actions in MaintScape Explorer and in the Part window.

- A new Part label report is available for continuous Avery 4013 labels.
- Purchasing enhancements:
 - Tax rules can now be specified for a PO item as well as for a PO as a whole. PO item tax rules can either be in addition to or instead of PO tax rules.
 - A new Purchase Requisition report is available: “Purchase Requisition Detail – by PR Number”.
 - A new variation of the printed PO is now available which displays an item’s account value. A system Configuration option “Account Code on default PO Printout” determines which variation is the default.
 - The “MTBF – by Equipment” report now uses the newly supported failure start/end date search criteria to mark the reporting period when computing mean time between failures. If the failure start date is not specified, the equipment install date is used instead, if available, otherwise the first found failure date is used. If the failure end date is not specified, the equipment retire date is used, if available, otherwise the current date is used. In all cases, the report itself identifies the MTBF reporting period.

Build 130 (November 30, 2009)

1. MaintScape database engine support:
 - Support for Sybase SQL Anywhere version 11 is now released for beta test.
 - Sybase SQL Anywhere version 7 is no longer supported by MaintScape. This version has not been supported by Sybase for quite some time. We are pleased to help you upgrade.
 - Support for Sybase SQL Anywhere version 9 continues for the foreseeable future.
2. MaintScape now issues a friendly error message when it loses its connection to the database, and then closes down gracefully. Such cases are no longer reported as “unexpected errors” nor logged to the error log file.
3. Work Order enhancements:
 - The Labor tab on the work order window now shows both scheduled and actual time at once. Previously a user would flip from one view to another. This could result in a user mistakenly entering actual time as scheduled time or vice versa.
 - Date defaulting for work order actual time record has changed to be more intuitive.
 - The “Quick Close” action to close a newly entered or non-open work order is updated to be more efficient.
 - Work orders can now be searched by more than one work order type at once. This is similar to existing capability for searching by work order status.
4. Equipment enhancements:
 - Equipment records can now record the staff member the equipment is assigned to. This is not necessarily the individual maintaining the equipment – such information is already supported on the “Maintenance” tab page. Equipment can also be searched by assigned staff.
 - Equipment records can now be searched by install date and retired date.
5. Parts enhancements:
 - The parts standard re-order query is now directly accessible from the “Parts” and “Purchasing” main menu icons (the parts inventory control module must be enabled).

- Parts records can now be searched by their taxable status, record creation date, and last update date.
6. Backdated meter readings can now be added as long as the meter reading value is not less than the immediately prior reading or greater than the immediately next reading.
 7. Reporting enhancements:
 - The report selection window accessed from search windows is no longer modal. This means you can switch to other MaintScape windows when the report selection window is displayed. MaintScape also no longer needs to close the report selection window when previewing a report.
 - The report selection window now supports filters for reports where appropriate. For example, you can filter the work orders and inventory transactions that contribute to the costs listed in the Equipment Cost reports. Per the usual MaintScape convention, filters are composed in MaintScape search windows.
 8. Report enhancements:
 - The “Equipment List – Full” report has been reformatted and additional fields are printed.
 - New equipment report “Equipment Meter Cost Summary - By Equipment Class/Type” summarizes information in the already available “Equipment Meter Cost” reports.
 - New equipment report “Equipment Cost Detail - By Equipment” is much more concise than the report it replaces. The prior “Equipment Cost Detail...” reports are now named “Equipment Cost Analysis...”.
 - Parts create/update dates now print on “Part – by ... (Full)” reports, and therefore are available for export.
 - Totaling enhanced in report, “Purchase Order Detail – by Account”.
 - PO Item Receipt Detail report layouts have been improved and now display PO promise date.
 - New purchase order reports “Purchase Order Detail – by Part” and “Purchase Order Summary – by Part” are useful for reviewing purchasing history of parts.
 9. MaintScape supports the Unitech HT630 bar code scanner. This is the successor to the PT600 and PT630 scanners.
 10. MaintScape email records now may be permanently saved when linked to locations, purchase requisitions or purchase orders. Previously, only email records linked to work orders, equipment, or service requests could be saved.
 11. Miscellaneous enhancements:
 - Work order and purchase order comment fields now support right-mouse button clipboard actions in addition to the customer MaintScape actions.
 - Record creation and update time stamps have been added to a number of MaintScape records. This is particularly useful to customers who integrate MaintScape with other systems.
 - MaintScape external application extension support has been enhanced. This functionality lets a third party write program extensions to MaintScape that can reference MaintScape programming objects and can be launched from MaintScape’s main menu.

Build 129 (January 13, 2009)

1. Purchasing and receiving enhancements:
 - Receipt and return part inventory transactions retain their matchings to purchase requisitions or Purchase orders when reversed.

- Part inventory transactions “receipt” reports have been enhanced. New variations are available that group by account.
- A new purchase requisition report is available: “Purchase Requisition Detail - by Account”. This report is similar to the already available purchase order report.
- Multi-site module enhancements:
 - Standard “print on PO” configuration setting can now be set by site when the multi-site module is enabled.
 - New option available when receiving PO and PR items: “Default Receiving Location to PO/PR Site”. When set, MaintScape will attempt to set the receipt transaction location to a candidate part location within the PO or PR site. MaintScape will warn you if no such candidate part location is found.
- Part inventory transaction search enhancements:
 - Search for receipt, return and reversing transactions by matching status is now supported. In particular, search options are: not matched, partially matched, fully matched.
 - Search by transaction type grouping is now supported in addition to the already available search by transaction type. In particular, search options are: adjustment, receiving, usage, and transfer.
 - Shortcuts from a part on the PO or PR window that previously listed only receipt transactions now list all types of receiving transactions (i.e. receipts, returns, and their reversals).
- Terminology change: status “planned” part inventory transaction records are now referred to as status “not finalized”.

2. Miscellaneous enhancements:

- The standard work order status transition options window is now presented when saving a new work order with the standard “save” action. Users can therefore send emails and print work orders when saving a new work order.
- The quick work order window now has a “print after save” option.
- Standard “print on work order” note text can now be defined in the system configuration window. This text is copied into the work order when it is created, where it can optionally be modified by the user.
- Meters, current reading values, and reading values in effect when work order was finalized (closed or cancelled) are now printed on the work order. This space can also be used to write in current reading values when executing the work order. This newly printed information is already displayed in the work order window on tab page “Main – 2”.
- Work order reports that display “initiated by” now display the first known value of: the code of the requesting staff member, the free-form field naming the requesting staff member, the MaintScape user who created the work order.
- Part inventory transaction “Part Inventory Turnover” reports only reported on finalized transactions. This was the case because they displayed costs only known after a transaction was finalized. Variations of these reports are now available that report on all transactions. These new variations do not display costs.

Build 128 (May 27, 2008)

1. Major purchasing module enhancements:
 - All types of PR/PO items are now received using part inventory transaction records. To support this, Receipt and Return to Vendor part inventory transaction records can now be created for non-inventory controlled parts and non-catalogued items (items described using free-form text). PO items, PR items and receipt/return transactions can take part in matchings regardless of whether they are for inventory controlled parts, non-inventory controlled parts, or non-catalogued items.
 - PO “Receiving Report” variations have been renamed to “PO Item Receipt Summary”. A corresponding set of “PO Item Receipt Detail” reports show all receipts by PO item.
 - Part inventory transaction records may now be searched by matched-from PO or PR. This lets you view and report on receipts/returns for a particular PO or PR. This is especially useful now that all types of PO/PR items are received using part inventory transactions.
2. The MaintScape installation program has been enhanced to ask less information using less screens and to automatically un-install a prior version when upgrading.
3. MaintScape databases for SQL Anywhere version 9 can now support non-latin alphabets by using Unicode character sets. A new database rebuild process will rebuild MaintScape databases preserving the original database’s character set. Please contact GrandRavine Software if you would like your existing database converted to Unicode.
4. When assigning a part with components to a work order, MaintScape asks whether to add the part or its set of component parts instead. This is useful for adding parts in a kit to a work order, rather than adding the kit itself.
5. Work order scheduled time records may now be marked as “complete”. This indicator is optional and is not set automatically. Scheduled time records marked as “complete” will not appear in the drag-and-drop labor schedule window. Work order report “Active Work Orders by Location” now only displays non-completed scheduled hours. Most other reports that report on scheduled time now break out scheduled time by complete or not complete.
6. Miscellaneous enhancements:
 - Maximum number of custom work order types increased from 30 to 50.
 - Purchase Requisitions may now be saved directly as status Open, and transitioned directly to status Open from status Planned.
 - Purchase Requisition records may now be searched for text values in fields: comment, non-catalogued item description, vendor part number, item comment. This is done using the “property search” convention.
 - New Security permissions supported for equipment and work orders: “Update User Field Values”. In the case of work orders, permission to update user field values is set on the “Variable Permissions” tab of the Security Role window by work order status.
 - Equipment cost reports now support report-specific parameters – in particular, cost date range and cost account.

Build 127 (January 30, 2008)

1. Planning Days and Planning Date support:
 - Procedures and work orders now support a “planning days” field. This value indicates how many days of planning are required before a work order is due.

- A work order's planning days value is set to the planning days value of the procedure it is created from. If a procedure is imported into an existing work order, the work order planning days value is set to the procedure value if not already at least as large.
 - The work order supports a "planning date" field which is computed as "planning days" number of days prior to the target date. For example, the planning date would be January 28 for a work order with target date January 30 requiring 2 planning days.
2. Changes to Procedure functionality requesting an e-mail be sent to particular recipients when it is used to create a work order:
 - This functionality has been enhanced such that the email is sent only when the work order's planning date is reached. This makes email notifications useful for future work orders generated from calendar maintenance schedules.
 - A new MaintScape batch processing program must run continuously to support this functionality, usually on the database server computer. Therefore this new functionality does not apply to stand-alone configurations of MaintScape.
 - MaintScape can be configured such that the original behavior is preserved – i.e. an email is sent when the work order is created.
 3. All on-screen fonts have been changed to Tahoma. The original fonts only supported Latin alphabets.
 4. Equipment type records may now be searched by whether or not they are referenced by any equipment records.
 5. MaintScape can now start without a logon window by embedding the user ID and password in the ODBC data source and specifying command line parameter 'noprompt=TRUE'.

Build 126 (December 19, 2007)

1. PT600/630 barcode scanner support enhancements
 - The barcode scanner program now processes part location information that may be included on a part barcode.
 - The barcode scanner program no longer provides a menu option for exiting to the operating system.
 - Documentation has been upgraded to include the newer PT630 model and a new process for uploading batch data.
2. Search window enhancements:
 - Part Inventory Transaction records may now be searched by Account.
 - External Resource records may now be searched by city, state/province, and country.
 - Part records may now be searched by unit of measure.
 - Work Order search provides better results when searching by a labor criteria field plus scheduled or actual time. In particular, a work order matches the search if a labor and its corresponding scheduled/actual time record matches the criteria rather than any such records that may not correspond. This improvement only affects work orders with multiple labor records.
3. Logon window and MaintScape command line start-up parameters have been enhanced to facilitate connecting to MaintScape databases – e.g. server IP address. It should seldom be necessary going forward to create ODBC data source definitions for this purpose. The MaintScape Installation

Instructions document (available on the MaintScape web site) has been updated to describe the new conventions.

4. New permissions available in the Security Level window, tab page “General Permissions”, category “Miscellaneous”:
 - New permission “View Labor Rates” secures ability to view labor rates. A MaintScape user not given this permission will not be able to view work order labor and total costs.
 - New permission “View and Print Reports” secures access to the report selector window accessed from search windows. Users who should not be permitted to view labor rates should also not be permitted to run reports since many work order reports include labor costs.
5. Purchase Order and External Resource (vendor) enhancements:
 - Department added to printed purchase order.
 - Taxable indicator added to PO item indicates whether item is subject to PO tax rates. PO item taxable indicator value defaults to a Part record’s taxable indicator value. Taxable indicators also included on PO for delivery and adjustment costs. Default values for these latter two indicators can be set in the System Configuration window.
 - Default “ship type” values may be specified for vendors. Purchase Orders created for the external resource will be initialized with this value.
 - PO Delivery Instructions may be specified for a vendor address. This field is also newly available for a PO record. Purchase Orders created for the external resource will have their PO delivery instructions value set to the vendor addresses value.
 - Value of received items is displayed along with PO invoices. This will help identify errors when multiple invoices are received for a PO. Received items value includes pro-rated tax, delivery and adjustment costs.
6. Miscellaneous enhancements:
 - Purchase Requisitions may now be duplicated.
 - Equipment and Location records now include a “Copy to Work Order” free form note field which is edited in the “Notes” tab of the respective detail windows. This note is copied into a work order when the equipment or location is assigned as subject of the work order, and the copied note will print on the work order.
 - MaintScape Explorer menu bar option “View”/“Long Folder Name” option lets you choose to view both long and short descriptions. Previously you would have to choose one or the other.

Build 125 (August 6, 2007)

7. Main menu ‘Maintenance Schedule / Generate All...’ action now indicates whether the action is required. This will be the case if at least one non-floating calendar maintenance schedule is found with next generate date less than or equal to a specified amount of time into the future (default: 1 month). This specified amount of time is a new system configuration parameter.
8. New ‘Generate Now’ action for meter maintenance schedules permits generating a work order from a meter maintenance schedule before it is due. This functionality is in addition to the more specialized “Manual Generate” functionality already in place.
9. The work order window now displays meter readings in effect when the work order was closed and current meter reading values. An action is provided for work orders that are not yet closed to enter a new meter reading. This action is useful for entering current meter readings when processing a work

order.

10. All search windows now have a “Export” button to export all or part of the search results to an external file (e.g. Microsoft Excel).
11. All MaintScape reports now display licensee name in the top-right corner.
12. Purchasing Module enhancements:
 - Purchase Requisitions may now include “non-catalogued” items, which are free-text item descriptions in place of parts referenced from the parts file. Purchase Orders already have this capability. Non-catalogued purchase requisition items may be generated into non-catalogued purchase order items.
 - New “Purchase Order Detail - by Account (Wide)” report displays prorated adjustment, delivery and tax costs for each PO item.
 - New security permission is available for Purchase Orders: “Receive non-Inventoried Part”. This circumvents a problem whereby a user who did not have update permission on a PO could not receive non inventory controlled parts.
13. Miscellaneous minor enhancements:
 - Manufacture Date field added to equipment record.
 - Classification drop-down field added to the External Resource record. Selectable values are user defined.
 - Subassembly types now supported for tasks of Location work orders.
 - MaintScape administrator (log on user “dba”) may now drop connections when viewing connected MaintScape users.
 - A new system configuration option is available to select whether default search window criteria should include active or viewable sites. This option only applies when multi-site site functionality is enabled. Up until now, the default was always ‘viewable sites’.
 - Equipment printout enhanced to (1) display part bill of material, (2) display child equipment hierarchy as well as equipment ancestors. Part printout enhanced to display part explosion.
14. MaintScape Installation program supports Windows Vista.

Build 124 (February 8, 2007)

1. The enhanced maintenance scheduling module is now fully released. Customers upgrading to this MaintScape release will have their maintenance schedules converted. The original maintenance scheduling functionality is no longer available.
2. PO items for catalogued parts not under inventory control may now be received the same way that non-catalogued parts are received.
3. Status “Approved” is now supported for Purchase Orders and Purchase Requisitions. This optional status occurs in the life cycle between status “Pending Approval” and status “Open”.
4. External Resource records support tax rules which will default Purchase Order tax rules when the external resource is assigned as a vendor to a Purchase Order.
5. Non-adjustment meter reading can now be saved when the reading value is the same as the previous reading.
6. System configuration window now supports:
 - Standard text to print on a Purchase Order.
 - Option to display a warning when closing a work order with actual downtime of zero (0).

Build 123 (December 1, 2006)

7. Invoices may now be recorded against Purchase Orders. Purchase orders can be searched for according to their invoicing status, and a new report “Purchase Order Invoice – by PO No” is available.
8. Purchase Order reports “Purchase Order Detail - by PO No” and “Purchase Order Detail - by Vendor” have been enhanced to provide more detailed information. A new variation of this report is available: “Purchase Order Detail - by PO Account, PO No”.
9. Enhanced maintenance scheduling functionality supports the following extra fields (note that this functionality is still in beta test):
 - “Supplemental task description” text will appear before the procedure task description text in the task description of work orders generated from the maintenance schedule. This new capability allows slightly different task descriptions in work orders generated from maintenance schedules that reference the same procedure.
 - “Account override” populates the work order account field of generated work orders. Normally the work order account field is set to the procedure account value, or if not specified, to the maintained equipment or location maintenance account value.
10. Customer name (as recorded in the MaintScape license) is now printed in the top-right corner of the work order printout. This should soon appear on all reports.

Build 122 (October 27, 2006)

11. Enhanced maintenance scheduling functionality is released for beta test. Enhancements include:
 - Nesting of calendar and meter maintenance schedules. Two nesting options are supported for the generated work order: (1) include only the procedure from the less frequent coinciding schedule, (2) include procedures from all coinciding schedules.
 - One-step process to adjust a calendar maintenance schedule, generate new work orders, and delete scheduled work orders that had been previously generated. This is helpful when changing scheduling parameters, or when cleaning up a situation where previously generated work orders were not properly processed.
 - Specify one or more days of the week for the target date of generated work orders (both calendar and meter schedules). For example, this functionality permits generating work orders for Monday to Friday only.
 - Enhanced options for specifying the target date of work orders generated from calendar schedules include:
 - Weekly schedules can specify specific days of the week.
 - Monthly schedules can specify specific offset from beginning or end of month.
 - Annual schedules can specify specific month, as well as an offset from beginning or end of month.
 - Meter schedules can specify margin for triggering work orders. For example, a 500 hour schedule can specify that the work order should generate when a meter reading is entered within 10 hours of the next due reading.
 - Smoother and more efficient processing in general.
12. System Configuration window supports new defaulting options:
 - New manually created work orders default to maintain either “equipment” or “location”.
 - New maintenance schedules default to schedule by either “calendar” or “meter”.

Build 121 (April 14, 2006)

1. An e-mail automatically sent when a work order is created from a particular procedure can now be sent to multiple recipients of varying recipient types (e.g. "to", "cc", "bcc").
2. MaintScape no longer supports SQL Anywhere database version 5. This database software version was itself archived by Sybase in June 2002. MaintScape continues to support SQL Anywhere database versions 7 and 9.

Build 120 (March 7, 2006)

1. Cost may now be manually assigned within a work order to catalogued parts not under inventory control. If this option is not used, and as was the case prior to this enhancement, part usage cost is set to the part average price when the work order is closed. A new system configuration option is available defining whether non-inventoried parts default to manual costing. This configuration option defaults to "no" to preserve compatibility with prior behavior.
2. Function key F5 re-retrieves displayed data on windows supporting "Refresh" functionality. Previously, F5 displayed a right-mouse button pop-up menu if available for the current field. This is now done using F3.
3. Work is in progress on enhanced Maintenance Scheduling functionality. This functionality is not yet released.

Build 119 (December 1, 2005)

4. The following new reports are available from Work Order search window and are similar to the existing "Actual Total Hours ... - by Labor, ..." reports:
 - Actual Total Hours - by Type (Labor Rate Basis), Day
 - Actual Total Hours - by Type (Labor Rate Basis), Week
 - Actual Total Hours - by Type (Labor Rate Basis), Month
5. The following new reports are available from Part search window.
 - Part Inventory at Part Location - by Part
 - Part Inventory at Part Location - by Part Location

These new reports report on inventory levels at particular inventory locations. They do not report on quantities requisitioned or ordered as such quantities are not by part location.
6. You can now select multiple Purchase Requisition items within the Purchase Requisition window. This is very useful for ordering multiple PR item lines to a Purchase Order with just one click.
7. Purchase Order now supports a price adjustment value and description. This is useful for incorporating a price adjusting factor into a purchase order price that cannot be accommodated by other means.
8. The following bar coding enhancements are implemented:
 - You can now specify a starting position on the label stock and the number of copies to print of each label when printing standard bar code labels. Labels may be printed from search and detail windows for supported MaintScape objects (e.g. Parts).

- The bar code terminal now supports receiving parts into inventory and direct-issuing parts from inventory. This is in addition to the previously supported functions of assigning parts to work orders and inventory counts.
 - Bar code labels can now be printed for received parts from the window that processes batched bar coded transactions. A label will be printed for each unit of measure of part received – i.e. 3 labels will be printed for part X if 3 units of part X are received.
9. The following Procedure enhancements are implemented:
- You can now specify a target date offset number of days for a procedure. When a work order is created from the procedure by any means other than a calendar schedule, the work order target date is offset into the future by the specified number of days. If no offset is specified for the procedure, then the System Configuration offset number of days is used.
 - You can now specify that an e-mail should be sent to a particular recipient when a work order is created from a procedure.
 - You can now search for procedures by email notification text and whether the procedure issues a notification email.
10. A new option is supported for predictive maintenance triggers to generate a work order only if the triggering reading or maintenance event occurs on a second consecutive day.

Build 118 (August 30, 2005)

1. MaintScape SMTP e-mail send functionality now supports user id and password values along with SMTP server identifier.
2. A new system configuration option is available to indicate that only auto-print attachments should be listed in the attachments list of a printed work order.
3. Purchase Order enhanced to support an extra 2 tax items for a total of 4 tax items.
4. All MaintScape windows but the current window can now be closed with one click from the toolbar.

Build 117 (June 7, 2005)

1. Service Request “requestor” need not exactly match a Staff record. This is especially useful when using Web Service Request functionality where there are a large number of potential requestors.
2. A work order type may be marked as “default”. This value will be the initial work order type of a manually created work order.
3. A new system configuration value identifies the number of days a work order’s target date should be offset from the date the work order is manually created. Previously the target date was set to the create date.
4. The following new reports are available from Work Order search window:

Variations of the Work Order List reports:

Work Order List with Hours

(Displays scheduled and actual hours instead of downtime)

Work Order List with Hours – Wide

(Displays scheduled and actual hours in addition to downtime)

Failure Meter Reading - by Subject

(Displays meter readings for failure work orders and is useful for analyzing meter intervals between failures. Only equipment with meters appear on this report.)

Schedule Hours Summary - by Labor**Schedule Hours Summary - by Work Order Type****Schedule Hours - by Work Order Type, Schedule Date**

The Following reports are similar to existing “Actual Total Hours ... - by Labor, ...” reports:

Actual Total Hours - by Work Order Type, Day/Week/Month

Actual Total Hours and Type - by Work Order Type, Day/Week/Month

Build 116 (May 8, 2005)

This release consists primarily of bug fixes. Development effort was expended towards upgrading programming environment and tools which is not reflected in this release.

Build 115 (March 12, 2005)

1. Predictive Maintenance module is now supported for multi-site environments.
2. Department code added to Purchase Requisition and Purchase Order.

Build 114 (February 26, 2005)

1. Purchase Requisition and Purchase Order items may now specify which equipment and/or location the parts are purchased for. The respective search windows can search by this criteria.

Build 113 (January 22, 2005)

1. Staff record supports user defined fields.
2. Default equipment search omits retired equipment. Equipment search window supports new search criteria, ‘omit retired equipment’.
3. Work Order and Procedure task descriptions can be entered in “fixed space fonts”. This allows vertical alignment of characters between lines.
4. New Parts label reports for Avery 5260 and 5262 label sheets. These new labels do not have bar codes.

Build 112 (October 16, 2004)

1. Purchase Requisitions support vendor part numbers for parts, and accounts at the PR and item level.
2. Can now search for Procedures by Craftsman.
3. MaintScape initialization file can be specified as a parameter to the command which runs MaintScape.

Build 111 (August 26, 2004)

1. New function to import actual labor hours from a text file and record the hours against Work Orders. This function is available from main menu window, “Work Order” icon.

Build 110 (July 31, 2004)

1. Reference information may now be recorded in parts explosion. This information is useful for referring to an "item number" in an explosion diagram.
2. Work Order reports which report by labor now only show labor, scheduled time or actual time which match specified labor search criteria. Previously, if a Work Order had a single matching record, all data for the work order was included in the report.
3. New time reporting reports are available from Work Order search window.
 - Actual Total Hours - by Labor, Day/Week/Month
 - Actual Total Hours and Type - by Labor, Day/Week/Month
4. Can now search for Meter Readings by equipment filter.

Build 109 (April 28, 2004)

1. User Fields supported for External Resources.
2. Work Order search supports searching by Subassembly Type.
3. Quick Work Order window supports modifying equipment location from the equipment default location.

Build 108 (February 08, 2004)

1. New capability to import changes to External Resource file from external system.
2. New Reports accessible from Part Inventory Transaction search window: "Part Inventory Count Report - by Part" and "Part Inventory Count Report - by Part Location". Reports print count transactions and the discrepancy between count and actual.

Build 107 (October 20, 2003)

1. User notification that an invalid value has been entered into a code field now helps the user obtain a valid value. This enhancement will mostly benefit novice users of MaintScape.
2. The parts bill-of-material tracking process has been enhanced, including the ability to search for equipment and equipment types by parts used.

Build 106 (September 29, 2003)

1. This release comprises of mostly performance improvements. In particular, some inefficiencies introduced when implementing Multi-Site functionality (Build 102) have now all been removed.
2. New report accessible from Part Inventory Transaction search: 'Part Inventory Turnover - by Part Class'. This is a variation of an existing report that sorted by Part code.

Build 105 (August 16, 2003)

1. Term "Recurring WO Schedule" has been replaced by "Maintenance Schedule" throughout MaintScape.
2. Main menu icons have been rationalized and re-sequenced. New tab page on main menu describes MaintScape license and provides information on contacting ASD.

Build 104 (July 16, 2003)

1. 'Quick Work Order' window is now available for easily creating Work Orders by specifying the most important information on a single screen. The Work Order can be either directly saved, or populated into the standard Work Order window. Shortcuts are available where applicable to open the 'Quick Work Order' window pre-filling the Work Order subject field (e.g. Equipment ID).
2. Functionality is now available to duplicate Work Orders and Purchase Orders.
3. Custom reports may now be integrated into MaintScape. The custom reports will appear together with the built-in reports in the list of reports accessible from search windows.

Build 103 (June 4, 2003)

1. Meter maintenance schedules may now be 'floating'. When the latest Work Order for a floating meter schedule closes, the maintenance schedule is adjusted to next trigger at the specified number of meter units from the latest meter reading in effect. This is most useful when Work Orders triggered from meter maintenance schedules are not completed soon after they are created.
2. New reports and report enhancements:
 - New report accessible from Work Order Search: 'Work Order, Meter Reading - by Subject'. This report lists closed Work Orders and meter readings in effect on the closing date.
 - Work Order Maintenance History detail report now shows meter readings in effect at the time the Work Order was closed.
3. Miscellaneous enhancements:
 - Work Order window (and printout) for an active Work Order indicates whether the equipment is under warranty.
 - One-click action available to create a new corrective Work Order for an equipment when viewing a Work Order for that equipment in the Work Order window.
 - Rejected Purchase Orders may now be re-opened.

Build 102 (April 29, 2003)

1. New 'Multi-Site' module supports MaintScape usage by multiple Sites in different geographic locations. Each site has its own data such as equipment, work orders, parts inventory and parts warehouses. Coding data is shared between the sites for reporting consistency. All data is kept in a single central database.
2. MaintScape administrator may now see which users are logged on to MaintScape and disable further logons. Disabling logons is useful to prepare for shutting down the database server.
3. Enhancements to search windows:
 - Search for Parts that have an inventory location or have no inventory location.
 - Search for Equipment or Equipment Type that have a meter, no meter, a measurement/reading point, or no measurement/reading point.
 - Search for Purchase Orders by whether or not they have been fully received.
4. New reports and report enhancements:
 - Task notes are now printed on the "Maintenance History Detail" report.
 - New report accessible from Purchase Order Search: 'Purchase Order Detail - by Account'.
5. Miscellaneous enhancements:
 - Retired equipment no longer appears in MaintScape Explorer tree structure.

- New equipment status value, 'standby'. Standby status behaves identically to status 'Out of Service'.
- Improved defaulting of date when entering actual labor hours on a work order.

Build 101 (October 19, 2002)

1. Equipment usage costs may now be recorded on a Work Order - for example, 2 hours usage of a hoist to repair a press. Equipment used for this purpose are recorded in the equipment file, and default usage costs per meter unit may be specified at the equipment and/or equipment type level. All Work Order cost reports have been updated to report equipment usage costs.
2. The report preview window now has buttons to scroll to first page, scroll to last page, and scroll to any user-specified page.
3. Enhancements to reports:
 - Equipment meter cost reports accessible from the equipment search window has been enhanced and now supports specifying date ranges for the set of meter readings to include.
 - New reports available from Work Order search window: "Cost Summary – by Initiate Type" and "Cost Detail – by Initiate Type". These are similar to existing cost detail/summary reports, except reporting is by how report was initiated – e.g. schedule, manual, service request, etc.
 - New reports available from Purchase Order search window: "Purchase Order Detail - by Vendor, PO No" and "Purchase Order Detail - by PO No". These reports are like the PO list report except they additionally display PO line items.
 - Vendor phone and fax numbers now print on POs.
4. Equipment right-mouse-button shortcuts are now available in MaintScape Explorer to create Meter Readings and Measurement/Readings for the selected equipment.
5. MaintScape Explorer response time problem introduced in Build 99 has been fixed. Slow response was apparent when expanding parent nodes that had many children.
6. Equipment and Equipment Type search windows now support searching by meter type and measurement/reading type.

Build 100 (August 30, 2002)

1. MaintScape Explorer enhancements:
 - Capability to merge one part location into another is now supported. All references to the merge-from part location, such as inventory transactions, are modified to reference the merge-to part location. The merge-from part location is then deleted. This functionality is useful when simplifying a part location tree structure, or re-organizing store rooms.
 - Right-mouse-button drag-and-drop is now supported. A popup menu of 'drop' actions that can take place is presented.
2. Reports enhancements:
 - PO report, 'Receiving Report – by Vendor' has been renamed to 'Receiving Report – by Vendor, PO No'. New PO report, 'Receiving Report – by PO No', differs only in sort order.
 - New report available from Inventory Transaction Search: 'Receipt Report - by Purchase Order/Requisition'. This report lists receipt/return transactions matched a to PO and or PR.
3. Part Inventory Transaction enhancements
 - Part average price calculation changed to more accurately reflect inventory value.
 - New inventory transaction types supported: Receipt Reversal, Return to Vendor, Return to Vendor – Reversal, Adjustment – Reversal, Count – Reversal. Return to Vendor transactions may also be

matched to POs and/or PRs. For example, a PO Item may indicate 3 units were received (matched to receipt transaction) and 1 unit was returned (matched to return transaction).

- Transaction cost has been made more readily visible on screens and reports.
- 'Action' button has been added to the main page of the Inventory Transaction window. This button supports actions such as 'Reverse', 'Return'. Some actions were available as right-mouse button actions on data fields, however they are now more readily apparent.
- 'Return' button has been added to PO and PR window to return PO/PR items. This new 'return' button is immediately adjacent to the existing 'receive' button.

4. Purchase Orders now support Attachments.

Build 99 (June 6, 2002) and prior

Please contact GrandRavine Software Limited for release notes pertaining to builds prior to Build 100.