

Rev ERP2020G through G4 -2004

Dated: 6/29/05

- Changed command in method "CreateBackupTimeArray" from `$Atimes{$i}:=SetDateTimeStamp (Today;$Atimes{$i})` to `$Atimes{$i}:=SetDateTimeStamp (Today;Time(Time string($Atimes{$i})))`. UpdatePlanData
- Sales graph will now also include data from mid-term archives
- Added spell-checker to Text fields in Quotes, Buy Items and Steps-Templates.
- Replaced 2003 backup commands with 2004 commands.
- Added debit-memos to Vendor Purchase Orders
- If an invoice has a miscellaneous charge without any description, the miscellaneous charge was not printed separately. During the print process, "Other-Charges" will be substituted for when field is blank.
- When creating a traveler by lot, date-code will be mandatory if specified as such in the Customer's record.

Added [Lotinfo]ShipTrackingNumber & [Lotinfo]Carrier fields

Added [Receiver]LotsSubT'ShipTrackingNumber & [Archices]LotsSubT'Ship-TrackingNumber fields

Added [Asset_List]SaleInvoiceNumber field

- Update various Grouped-Scrollable-Areas with new List-Box feature in 4D2004.

1* In a traveler-based invoice with multiple lots, the date-shipped could be scrambled between lots

Rev ERP2020G4 through G9 -2004

Dated: 8/01/05 Added tracking capability for Federal-Express & UPS

- **Added "Days Receivable" & "Days Payable" reports**
- **Customer-Financial-Data is available when entering a new customer-purchase-order**
- **Started the concept of user-editable forms. Forms will be released as necessary. First-Form released is [EMPLOYEE] "Certificate"**
- **Reconfigured un-used field in [LOTSTOSUPPLIERS] for CARRIER & TRACKINGNUMBER storage**

Rev ERP2020H -2004

Dated: 8/18/05

2* When the "multiple-ship-address" option is selected in the HK record, the new shipper print-out does not print the lot-ship-memo. Fixed

3* When a shipper is being created or modified, the number of good bins is determined on a total of 10-bins basis instead of the extended 32 bins. This would cause a problem in those rare circumstances when there are more than 9 good bins. Fixed

Rev ERP2020H1-H4 -2004

Dated:9/1/05

- Added traveler-step progress bar to show % completion of a traveler step.
- Modification of User-Attributes record is via a list-box interface
- Added new scheme to save users and passwords. Users, Groups & Passwords (except administrator's password) automatically loaded when administrator first logs in to a virgin structure.
- Upgraded Box-Stock spreadsheets to allow them to be re-sizable.

4* Fixed export bug in Box-Stock lots spreadsheet

- Added automatic-application-build in single user.
- Added [Asset_List]DocumentsinDocServer**
- Added [LotSteps]ProgressBar field**
- Planning Spreadsheet Query option to show LOTINFO records modified in addition to LOTINFO records "moved"
 - When creating a customer-web-login account the user will be alerted if account already exists.
 - Gantt-chart labels restricted to 196 characters to avoid crash.

5* Resource-Time scheduling was being controlled by Admin-Control bit 9 instead of bit12 per docs.

- In the detailed traveler rejects will be shown in red
- Detailed-Traveler header height has been increased by 1 line

6* If no ACTIVE Receivers exist for a customer the device-drop down list (in the WEB interface) is disabled. The device list will now show "all"

ERP2020 Revision History.

Rev ERP2020H5-H9 -2004

Dated:9/25/05

7* Resource-Filter-List in Web-Interface menu to list current records was not correct

8* Sales-Tax Rate missing on Traveler-based Invoice

Rev ERP2020I -2004

Dated:11/1/05

- **Added page buttons in Web-Page Lists**
- **Added FTP repository facility per customer**
- **Added Traveler-Warehousing facility by Customer**
- **Added Customers Spreadsheet in Accounting Menu**

9* Graphical display of resource-time reservations did not exclude voided entries.

Rev ERP02020I2 I7-2004

Dated:11/10/05

- Replaced From and To accounts by Credit and Debit Accounts. Removed Index from original accounts

- Added Customer-Filter in Resource Utilization Plot

10* Resource Utilization Plot footers were off by one column

- [LOTINFO]Comment field will record the actual date and time of when a lot was shipped even if the user set the date-out to a back-date

Added [ATE]TesterType string(40) field

Added [RESOURCE_CALENDAR]TesterType string(40) field

Renamed [Receiver]Tester to [Receiver]TesterType

Renamed [ARCHIVES]Tester to [ARCHIVES]TesterType

Renamed [LOTINFO]Tester to [LOTINFO]TesterType

- [RESOURCE_CALENDAR]TesterType field will store tester-type to allow easy accumulation of testers hours by platform

- Bill of materials can be viewed via punch-in and punch-out forms

- Sales Tax codes list will now be constructed from the SalesTaxTable. Invoices will also save the SalesTaxCode name in addition to the tax-rate.

Added [RECEIVER]SalesTaxCode and [ARCHIVES]SalesTaxCode fields

- Sales-Tax code is selectable in the Traveler-based invoice also.

Rev ERP02020I8-J9-2004

Dated:11/15/05 through 1/25/06

- ERP2020 logfile is now an HTML file instead of text file. All internal ERP2020 emails will be sent to log-file.**
- ERP2020 logfile can be viewed remotely by the administrator via WEB-Server**
- Invoice data can now be fully exported to Excel**
- Mirroring capability upgraded to 4D2004**
- Added check for validity of Binning Control Record.**
- Lots-List in Web-Interface now contains link to Customer's PO and relevant Quotation**
- Traveler can be printed as MS Word Document**
- Quotation can be printed as MS Word Document**
- Invoice-details (inclusive of line-items) can be exported to Excel using XSL**
- Server can print PDF documents. PDF registration installed on Server**
- Chart of Accounts presented as hierarchical lists**
- New server log-file is created if the last log-file is > 100 Meg**
- Customer-Acknowledgement form for system usage made user configurable**
- Added [Archives]Initials field to store Receiving initials**
- Shipping Initials are also saved during Archiving**

Rev ERP02020J10

Dated:1/30/06

- When an invoice is Unarchive an entry is made in the Server-Log. Also the sequence-number offset is now NOT decremented. Email notification is also sent to the Invoice-Change-Notification team
- In the lot-step punch-out screen the fore-ground color of reject bins is turned to white instead of black to offer better contrast

ERP2020 Revision History.

Rev ERP02020J11

Dated:2/20/06

- Company_PO form is user customizable**
- List-Box in Invoice Creation form is now non-enterable**

Rev ERP02020J12

Dated:2/27/06

11* If a lot-shipper printout request was cancelled, all tables on the client could end up in the read-only state

- Added copy and paste functions to alternate-addresses specified in PO_ITEMS
- When manually adding new addresses to a Master-PO the system will check for uniqueness of new address across all address fields.
- When copying/pasting new addresses to a Master-PO the system will check for uniqueness of new address across all address fields.
- Job-acknowledgement-form has been optimized for printing

Rev ERP02020J13

Dated:3/1/06

•Alternate addresses may be copied from an Excel spreadsheet and pasted into the database.

12* If the Balance-Sheet option was not installed then some menus were not properly disabled. Cause cause miss-classification of Chart of Accounts.

13* Items (sub-records) in line-item invoice where not being properly selected when the invoice was being modified.

14* Fables-Snapshot was not excluding voided demand-items.

15* Product-Shipper printout header was not the standard inherited form. Also if the shipper was printed for a posted-job, PO warning messages were issued. Lot-shipper group-box optimized for printing.

16* Transaction-Variable on forms could case an error in a new process

•When adding AML form is set to the left of the screen so that List Windows do not hide behind the form. Work-around till 4D fixes modal-window BUG

•QPIX updated to 3.1

•The ERP2020 now converts scanned documents to PDF before saving on Document Server. This reduces the size of the scanned document.

•A/P spreadsheet shows a row for net of adjustment entries

17* Hold-Plot dialog could lock up in compiled mode.

•BuyOrder-Approver2 name-field in details-form has been made mandatory. Forms open in their own window

Rev ERP02020J14

Dated:3/13/06

- Payables-aging-spreadsheet will properly account for sales-tax payments that debit sales-tax-payable, as opposed to default A/P**
- If admin-control bit24 is set then cost info is suppressed during receipt of ordered material**
- When Lotsteps-spreadsheet selection-size exceed 12,000 the selection will be offered in multiple sessions. If the control-key is pressed a message will be issued if selection-size > 32000 and abort the download.**

Rev ERP02020J15

Dated:3/16/06

- **Compacted with tools & recompiled**
- **Modified Credit-Memo spreadsheet to update single element and allow direct modification of single item, if it is open.**
- **Tips will be set ON by default for A/R and A/P aging pie-charts as well as the binning-distribution pie-chart.**
- **Added Expected-Out and Recommit dates to Lots List in Web-Interface.**

Added [Resource_Calendar]DocumentsinDocServer longint

Added [User_attributes]UserOptionsControl longint

• **Control-Bit in User_Attributes-record determines if Web-Planning-Lots-List has link to PO /Quote**

• **Added capability to scan documents to [Resource_Calendar] records**

18* Menu-call to PDF writer registration was throwing a run-time error

Indexed [Formats]UniqueID and [LotsToSupplier]UniqueID.

19* [LotsToSupplier]UniqueID is now the PrimaryID for this table. Previous primary ID was not unique

Rev ERP02020J17

Dated:3/26/06

- Added HK variable to set upper-limit to control maximum number of records deleted before invoking a save of the cache to disk.

- Server-delay changed to DELAY PROCESS command. This delay follows the FLUSH-BUFFER command after a partial deletion of a selection of records. (Partial, piece-meal deletion is performed to stay under the max-allowed deletion limit). New command will make CPU time available to the clients during Archive-Level-ii process.

20* Log-File display from Web-Process had a runtime error in compiled version.

- When creating an item for a buy-order if the item is being purchased to stock inventory and a Job Number is also specified, then the record will not be saved and an error-condition will be flagged.

- Added utility to compare MYSQL schemas created by ERP2020.

21* In the resource-time-spreadsheet, if the user reviewed an invoice then the user-acknowledgment form could not be printed unless the spreadsheet was re-loaded.

Rev ERP02020J18

Dated:3/29/06

- Added "Calibration By" fields to Cal_Label and Cal_Sticker forms and made the forms user customizable.

- During the purchasing process, the GL-Account selected will set the value and enterability of the Inventory, Asset and Consumable check-boxes.

Changed table name [Cash] to [Bank]

22* [Lotinfo]Cycled (cycle-time) was in some cases not updated and returned a negative value. It is now updated in the trigger.

- Data-update process (called after structure upgrade) will write to ERP2020 log-file progressively instead of at the end of the entire process.

J18a (ISE only)

23* Menu "Customer WIP status" email-send button not visible

Traveler-Steps-File did not allow entry of negative temperature.

When a traveler step is added manually its ID field is set to a red background to flag its origin. Other steps could also assume this color erroneously.

24* In the Equipment Record form ERP-Suggested-Number will update the Serial# and System# fields only if a new record is being created or if the field in an existing record has a blank value

Logged Resource Hours" plot hangs up

J18C/D (ISE only)

25* Group membership was not being properly updated when restoring the UG in a blank structure

26* Crash occurred in the Invoicing spreadsheet due to corruption of pointers after loading an archived Job

J18E (ISE only)

- Missing will be counted as rejects

J18F (ISE only)

- Tabs and Carriage Returns will be suppressed in MYSQL export of Alpha Fields

J18G (ISE only)

27* Removed erroneous formatting from L_electrical test template

28* Field-Names and Table-Names were disappearing in the Order-By window after updating virtual structure in QA Menu

•Added Pgm_Switch to Universal Layout. Same visibility control as program name

J18G1

29* QA-Templates spreadsheet in the StepsFile Creation dialog is sortable

J18G2

30* Resized [Archives]CustCode to 20 characters

J18G3

31* Time Over-Lap was not checked in the Resource-Calendar when entries were being replicated or voided

J18G4

32* When a human-resource schedule entry was created the "resource-type" field did not reflect "human resource"

Rev ERP02020J19-J22

Dated:4/1/06

Added Trigger to Queue Table

- When a single-job is archived, a check will be done to see if it already exists.
- Added method to update (reset) Customer_Sales Summary record (net of Sales and Credit Memos)
- Credit-Memo will now offset sales-amount in Customer-Sales-Summary record
- Level-2 archiving will create a MISCDATA record by year
- Level-1 Archiving will create an entry in the ERP2020 Server-log-File
- Added option to enforce sequential processing of traveler steps via the Planning Menu
- When updating steps via the planning menu in a non-sequential mode the quantity-into-next-area-field (in a sample step) could have a zero value if the prior-step had not been completed. A loop will now force data-lookup of previous steps until a completed step has been encountered.
- Customer-Sales-Plot via customer-record or purchase-order-record may be plotted for prior years thereby removing current restriction of current year.
- Enhanced the checking of the Backup.xml file for proper functioning of the mirror

33* PO Record could be saved with a space in PO-Number field. PO-Number will be stripped of trailing and leading spaces. Error-checking for mandatory fields has been enabled via code. 4D2004 bug.

34* In LOT-INFO record with included LOT-STEPS subform, the scroll position is reset each time a lot-step is opened.

35* When a traveler step is added manually its ID field is set to a red background to flag its origin. Other steps could also assume this color erroneously.

- In LOT-INFO record with included LOT-STEPS subform, step-fields, such as date-in, time-in, etc. for un-implemented steps are made invisible.
- Added facility to compare A/R and A/P aging with QB balances

Rev ERP02020J23

Dated: 4/26/06

Added [Check_Register]DocumentsinDocServer field, longint.

36* Legacy Line-Item invoice will print the first item continuously if the line-item description is over 2-lines. This is a recurring 4D error. Invoice has been changed to variable frame. No change to new version of invoice.

37* [QCARS] input form would not show the correct date-time stamps via the Get-DateTime_Stamp buttons.

Added [Receiver]UnarchiveDT [ARCHIVES]JobCreationDT longint fields. When a job is unarchived the [Receiver]CreationDateTimeStamp value will be retain the original value. These fields are used for that purpose.

Rev ERP02020J24

Dated: 5/2/06

- PDF documents sent to DOC server will have metadata information tags.
- Generation of thumbnails during document scanning is user selectable
- Doc-Scanning user-interface has been improved. Scanner settings will be saved during the session
- Aging statement will highlight A/R aged beyond credit-terms defined in Customer's record.
- Added list to flag mirror-setup
- If the data-base is set to play or debug all emails will be sent to client sending the email

38* Line-Item Invoice-Review form could lose selection intermittently. Made it non-selectable

39* Non-Line-Item Invoice-Review form totals were not getting updated real-time for some data-changes.

Rev ERP02020J25

Dated: 5/12/06

- Updated plugins: GMA, 4DWrite, 4DDraw, 4DPack, InternetConnectivityKit

- Added [Lotsteps]DocumentsinDocServer

- Added document scanning to Lotsteps to allow storing DataLogs etc

40* In the Equipment Record form ERP-Suggested-Number will update the Serial# and System# fields only if a new record is being created or if the field in an existing record has a blank value

ERP2020 Revision History.

Rev ERP02020J26

Dated: 5/19/06

41* Logged Resource Hours" plot hangs up

42* Time was not properly displayed on WEB interface.

•Summary is available via Web-Server if Document Server is installed.

Rev ERP02020J27

Dated: 5/24/06

43* WEB planning date pull-down was saved with settings and not initializing to current date "on Load event"

44* Log-File export process was NOT immediately aborting if a transaction was still pending

•Improvements to FTP and EMAIL user-interface dialogs

45* Traveler-Steps-File did not allow entry of negative temperature

Rev ERP02020J28/29

Dated: 5/26/06

- Aging Printout will create Aging Bins by term.

46* Menu "Customer WIP status" email-send button not visible

Renamed [QCARS]Categ to [QCARS]Category

- Added traveler-display link in Lots List in Web-Interface. Link is behind Process Field

47* Steps-File detail form would erase new data if data was incomplete

48* SPC measurements could not be added in table

- Added hyper-links in Time-Billing Session dialog
- Missing will be counted as rejects
- All traveler-layouts will now expand the text field dynamically
- Envelope Form is user customizable

Rev ERP02020J30/31

Dated: 6/26/06

- **Tabs and Carriage Returns will be suppressed in MYSQL export of Alpha Fields**
Added [Log-Book]DocumentsInDocServer field

- **Added QCAR trend-plot**

49* Plot zoom buttons on Quality Plot were not updated for 2004

50* Quality Factory-Plot did not show lots which were not shipped out

- **Quality Incoming-Inspection plot is now based solely on Date-in**

- **Improved QCAR-send-email interface**

- **Added Management-Review data-population Option.**

51* Field-Names and Table-Names were disappearing in the Order-By window after updating virtual structure in QA Menu

- **Added [Supplier]DocumentsInDocServer field**

- **Added FTP facility in Specs/Forms Spreadsheet**

52* Display-Employees menu-item in QA was showing terminated employees also

53* Removed erroneous formatting from L_electrical test template

- **Added two extra lines to traveler-description expansion to compensate for different printer fonts.**

- **Added Pgm_Switch to Universal Layout. Same visibility control as program name**

- **Added more columns and selection options to Supplier's Spreadsheet**

- **Modify Supplier Menu in QA has been changed to spread-sheet interface**

- **Added Printout for Supplier Audit Status and Schedule. Designer installed option.**

- **Added boolean field [DOC_Control]Addendum**

- **Added Alpha field [DOC_Control]AddendumToSpec**

- **An entry in the Document-Control Index can now be an addendum to an existing spec.**

•**Document-Control Spreadsheet interface enhanced**

•**AML spread-sheet interface enhanced**

54* QA-Templates spreadsheet in the StepsFile Creation dialog is sortable

Rev ERP02020K1

Dated: 7/19/06

- StepsFile Creation dialog has been upgraded to use list-boxes
- Buying Dialog improved to better select critical material and services.

Rev ERP02020K2-K3

Dated: 7/21/06

- **Added Internal Audits Log Book**
 - **In Doc-Control addendums can be opened with the Specs**
 - **Unused Mail_Users table reconfigured and renamed to DocServerIndex**
 - **Unused Debug_Log table reconfigured.**
 - **Supplier history information in Supplier Forms now shows AML /ASL information.**
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- **Supplier Buyer and QA detail-forms show reciprocal status**
 - **Added new Generic interface for External-Document-Server.**
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- **Added new fields to [Suppliers] table**
 - **A supplier may be Customer-Approved**
 - **Added new fields to [DeviceTable]**

Rev ERP02020K4-K5-k5A-k5b

Dated: 8/1/06

●A template may now be configured to use alternate equipment-type, other than those defined as the default equipment-types for Tool1, Tool2 and Tool3

Renamed [Steps_temp] to [StepTemplates]

Changed Unused3 field to StepProperty, from Boolean to Longint

- Internal Buy-Order may be printed without \$ Amounts.
- Equipment-spreadsheet, modification is allowed only in the QA View and NOT the Floor View
- Generic Device-Table entries are now allowed
- Added Process/Process-Qualifier Icon facility. Icons will print on running-traveler-header

●Binning-Control Yield Check will now include checking of good yield also. This will work in addition to the yield specified in Steps-File (Expected yield)

Changed unused field [Lotinfo]DTStampShipped (longint) to [Lotinfo]RescreenLot (boolean). This will a special flag for "bonus" or "rescreen" lots.

Added extra address fields to [OLDPOs]

- Archived PO may be reviewed from PO spreadsheet.

Updated to PrintList 4.4. Mandatory update.

- Scheduled Reports process may be started on Server. Server will still use a connected client to deliver reports.

Rev ERP02020K5c

Dated: 9/8/06

Changed [Receivables]Unused integer to [Receivables]Memo text

- Added Memo capability to A/R

- Added Gross-Die-Per-Wafer and Total-Good-Die counts on dedicated Wafer-Sort traveler layouts.

55* Pointer assignment error in Resource-Scheduling spreadsheet when number of resources > 80. Removed pointers.

- Depreciation Schedule may be printed from the General Journal spreadsheet

- Added option in MYSQL control record to specify format of NULL-Date

56* During MYSQL export a back-to-back export of two large text fields (sum of lengths >32 K) could cause dropping of a tab character.

Added [MISCDATA]WorkFieldText5 , [MISCDATA]WorkFieldText6 and [MISC-DATA]SpareLongInt fields. These fields are used to provide Prefix and Suffix commands to the contents of the MYSQL script files

ERP2020 Revision History.

Rev ERP02020K7D

Dated: 9/22/06

Renamed unused table [DEBUGLOG] to [ERP2020Preferences]

57* Passwords generated for Customer or Supplier WEB-Login could be > 15 characters.

Rev ERP02020K8-11D

Dated: 10/15/06

- **Added limited user-customization to Web-Interface**

58* Time Over-Lap was not checked in the Resource-Calendar when entries were being replicated or voided

- **Added option to send HTML email in mail-merge**

- **Made enhancements to Draw in Resource-Calendar spreadsheet**

- **Resource-Calendar for a resource can be drawn for a whole month and can be printed on an 8x11 paper.**

59* When a resource was changed in the Resource-Calendar, time-overlap was not checked properly.

60* Time-Overlap was not being checked during calendar replication or when an entry was un-voided.

61* Comments in Time-Acknowledgement form were not expanding during the printout

Modified [Catalog] Table

- **Improved catalog-item check-in and check-out interface**

Rev ERP02020K12D

Dated: 12/1/06

- **A shipper may be printed if the Job is Archived. Will not work for legacy shippers. Will work for the new shipper format only.**
- **When a detailed traveler is printed for an archived job, the instructions section at the top is suppressed since it reflects the current status of the Hardware/Software record.**

Rev ERP02020K13D & 14D

Dated: 12/15/06

Migrated to 2004.5. Requires updated 4DWrite, 4DDraw, 4DInternetConnection, 4DPack

Removed [Receiver]Time_Created from forms. Field was not being used and information in CreationDateTimeStamp is more meaningful.

Renamed [Contacts]Address3 to [Contacts]City to make it more meaningful

Added hooks for 4D Plug-in 4D-Live-Window. Requires plug-in license

- **Old Log files will be moved to archive-folders by month.**
- **Contacts and Device-Table spreadsheets will allow ranged display**

Rev ERP02020K15D

Dated: 1/12/07

•Mirror data-base server preferences may be automatically loaded from preferences XML file. Preferences include WEB-Server and Client Port-Numbers.

Changed unused field [DEPOSITS]PERIOD to [DEPOSITS]GLACCOUNT string

•Added right-click contextual menus to most spreadsheets.

62* When a human-resource schedule entry was created the "resource-type" field did not reflect "human resource"

•Added "About ERP2020" on the Server

63* When a record was duplicated the DocumentsInDocServer counter was not being reset for new record.

•Balance-Sheet-Start-Date is now kept in the Accounting Transactions Record instead of the HK record.

Added [Resource_Calendar]TimeClassification

64* Read-Write status of a table was not correctly depicted due to a 4D Bug in Display Selection. Added code in Wrapper to force Read-Only-Sate followed by a restore

Rev ERP02020K16D

Dated: 2/6/07

•ERP2020 user-prefs file will now be saved in the Active 4D Folder, so that Client update will not require a new prefs file

•Provision for alternate SMPT server

65* Process-Icon on running traveler-head was giving run-time error

Rev ERP02020K17D

Dated: 2/12/07

| **Added [Customer_log]ResaleLicenseNumber**

66* Voiding a check was presenting the record in read-only-state

| •Added Sales-Tax Audit-export

67* 4D Write Area in setup-sheets menu-bar disabled subsequent to access to setup-sheets in read mode (via the test-floor menu)

68* Resource-calendar, "voided-by" was not saved in comments

| •If a voided entry is duplicated, the comments field will be cleared

| •ResourceCalendar entry-replication is performed within a user-review-able transaction

| •ResourceCalendar spreadsheet allows filtering of voided entries

Rev ERP02020K18D

Dated: 2/26/07

69* PO could be in read-only mode after an invoice-posting error (invoice-spreadsheet only)

•A Step Template Type 0 may now be qualified as a sampling step

•Legacy Traveler Header is user customizable

•Traveler Headers are user customizable

•Added date-column to Setup-Sheet Shpreadsheet in Shop-Floor menu-bar

•Added standard display layout in Setup-Sheet Shpreadsheet in Shop-Floor menu-bar

•Added print option in Setup-Sheet Shpreadsheet in Test-Ware-Control menu-bar

•Removed Job# and Lot# from running header

Rev ERP02020K19D

Dated: 3/6/07

- Setup-Sheet duplication is conducted via a transaction
- Setup Sheet modification is disallowed if Device-Table is impacted
- Steps File modification is disallowed if Device-Table is impacted
- Setup-Sheet Spreadsheet will be automatically updated to reflect change in a modified record.

70* For line-item invoice address in PO was not being updated properly

[IOTSTEPS]DELAY changed to Longinteger from Integer

Rev ERP02020K20D

Dated: 3/9/07

- FTP start-directory in FTP window will have a forced "/" prefix
- FTP dialog allows each client to save multiple sites
- Setup sheets may be called via the lot-record or planning spreadsheet with multiple menu options.
- Setup-sheets and Steps Files being referenced by the Device-Table may be modified via the Device-Table spreadsheet

71* When a setup-sheet was duplicated the wrong layout could be selected.

- Lot on Hold cannot be shipped.
- If Device-Table is installed, Administrator can control printing of Setup-Sheet-Set with Detailed-Traveler printout.

72* Cancelling a Detailed-traveler printout from planning spreadsheet would close the spreadsheet.

- Added Admin-Control for Generic Setup-Sheet
- Improved interface to Traveler Gantt. Removed excessive record updates

ERP2020 Revision History.

Rev ERP02020K21D

Dated: 3/24/07

- Forced a "none" procedure on every user to improve security

Rev ERP02020K22D

Dated: 4/13/07

73* A voided-generic Device-Table record was not suppressed from choice list.

- Added process-qualifier filter to cycle-times plots
- Added process-qualifier filter to hold-times plots.
- PO Archiving process has been improved to provide hyper-links to Jobs and Resource-Calendar entries.
- Added option to lock invoiced (and posted) Resource-Calendar entries.
- Binning-Control record may be added in Step-Type 5 in addition to Step-Type 999

Changed name of field [Resource_calendar]InvoicedandDeletable to [Resource_Calendar]Closed

- OC temperature allowed in Steps File. Default temperature for new step will be 25C. Expanded with of test-time field in printout.

74* Single-PO time-billing invoice could not take place if other POs referenced in the selected time-period were not valid.

- Added option to "Refresh" archives so that any LOTINFO/LOTSTEPS stamping missed on first pass may be re-done. Selection on these table is made via records in Archives Table

Rev ERP02020K23-24D

Dated: 4/18/07

- **Added PO-unarchiving option**
- **Added 2 extra fields to [OLD_POs]**
- **Added extra information in Archives Dialog**

Rev ERP02020K25D

Dated: 4/23/07

- **A posted invoice will not be un-posted if the PO does not exist (has been archived)**

- **Gantt chart will show current step punch-in marker**

- **Added Generic Symbol to Device-table form.**

Added [DeviceTable]Division

- **Added Division Column & Filter in Device Table Spreadsheet.**

- **Added Division Column & Filter to Device Table printout.**

- **Expanded scope of [DeviceTable]TypeCode to include Customer-Specific generic entries.**

- **Changed Device-Table dropdown to Hierarchical list to allow better selection during Job-Creation process.**

- **Added color-code to Device-Table Hierarchical list.**

- **Changed Device-Table dropdown to Hierarchical list on [lotinfo] modification form.**

- **Removed redundant Box-Stock drop-down in Job-creation form.**

75* When a time-billing invoice is unposted, all Resource-Calendar entries, irrespective of whether or not the corresponding line-item exists in the invoice (it may have been manually deleted), will be un-posted.

- **Added button in Time-Billing invoice to browse associated Resource-Calendar records.**

Added [Hardware]Void boolean field

- **Added Active/Void filter in PO Spreadsheet**

76* Removed CR, TAB, LF from PO field if value was pasted.

[DeviceTable]Device is now 50 characters instead of 60

[DeviceTable]Revision is now 8 characters instead of 2

- **Step Files and SetupSheets offered in Device-Table record will be division-specific if the Device-Table record is division specific.**

Rev ERP02020K26D

Dated: 5/11/07

77* Export problem with Box-Stock-Lots spreadsheet

- **Added Traveler-Creation link in Consulting&Hardware planning spreadsheet.**
- **Device-Table selection allowed during creation of traveler for Line-Item-Lot.**
- **Added menu-access to Device-Table menu items**

Rev ERP02020K27D

Dated: 5/14/07

•Added late PM report in Quality Alert

78* If a setup-sheet was NOT defined for a Device-Table, the Setup-sheet List-Box in Job-Traveler-Creation Dialog-Box was not being reset.

79* Asset Write-Off Journal Entry in QB could have a Reference-Number > 11 characters.

80* PO could not be marked for removal if related Address-Items existed

ERP2020 Revision History.

Rev ERP02020K28D

Dated: 5/30/07

81* Run-Time error in WORKFIELD3PARAMETERS

Rev ERP02020K29D

Dated: 6/10/07

- **Server Backup-Start Process has a 15-minute time-out in the transaction polling loop.**
- **QCAR target-implementation date will issue warning if date is > current date + 365 days. Date closed cannot be in the future**
- **Added Date-Range in Time-Billing Invoices. Admin Control via Lot-Flow Control**
- **Enhancements in Time-Billing interface**
- **Enhancements to Quotes Spreadsheet.**
- **Device-Table list will be sorted by name.**
- **Printed Shipper will have Bin-Names instead of Bin-Number if BC record is specified**

Rev ERP02020K30D

Dated: 7/25/07

- Added export buttons to PO & Contacts spreadsheets
- Added index to Response-Date in Quotations table.
- Export to QB will automatically open QB Log File with NotePad
- Added enhancements to Supplier Spreadsheet

82* Shipping a lot to a sub-con from the Supplier menu did not update the Lot-Record properly

Retyped and Renamed two unused date fields in Quotations table

Rev ERP02020K31D

Dated: 8/20/07

- **Enhancements made to Mail-Merge**
- **Windows notification will be issued on Server during flush-buffers command**
- **Mirror will request FTP from Master for a missing Log File**
- **Invoice format changed to expand PO field on printout.**
- **Added enhancements to Buy-Order payment-log printout**
- **PrintList Formatted Invoices in Receiver and Archives Table are user-editable**
- **Added [RESOURCE_CALENDAR]LockedByAcc Boolean field**

- **An open invoice may lock time-slips to prevent modification**
- **Orphan Time-Slips will be automatically reset (Invoice#=0 and Lockedby-Acc=false)**
- **Tools used in LotStep will be shown with LotStep binning dialog on WEB**

Rev ERP02020K32D

Dated: 9/24/07

- **During check-writing, the check-number will be validated in the user-dialog loop**
- **"Engineer"List is now not User-Modifiable**
- **"Hold_Codes"List is now not User-Modifiable**
- **Human Resource Drop-down list will be division-specific.**
- **"Startup" method changed to be version V11-SQL compatible**

ERP2020 Revision History.

Rev ERP02020K33D

Dated: 10/15/07

•Administrator may now force the "user-modifiable" status of the list via the List-Housekeeping menu

Rev ERP02020K34D

Dated: 10/31/07

Added Parameter Measurements to PlainUniversal template

83* Setup-Sheets print-confirmation (when printing detailed traveler) did not suppress printout

Added [Lotsteps]Datalog Blob and [Lotsteps]Unused fields

•Added 4DWr layout in Traveler Templates

Changed Primary-Key for [Catalog] to [Catalog]UniqueID

Rev ERP02020K35D

Dated: 11/1/07

Added DatalogTable

- **Added capability to print PM stickers**
- **Added capability to expand tool-with-calibration-date-list to more than 30 characters.**
- **Removed ability to edit customer-record via modify menu**

Rev ERP02020K36D

Dated: 12/15/07

- **Added option to store StepsFiles in Blobs**
- **Improved StepsFile interface**
- **Improved StepsFile Global Find and Replace facility**
- **Improved AVL interface**
- **Added Query Button to Customer-Log spreadsheet**
- **Sales-Tax Item Name for a Sales-Tax record will be created dynamically from the rate so that a name change does in ERP2020 does not effect QB**

Rev ERP02020K37D

Dated: 2/22/08

- Certification Bagde added to user modifiable forms**
- Traveler Gantt start and stop values can be changed via Gantt Start & Stop Columns**
- Added selection dialog to Equipment Up/Down interface**
- Added [Inventory]Property**
- Added [AVL_Supplies]Property**
- Added [CodesTable]Auxillary**
- Added [Inv_Usage_Many]Property**
- Added [Inv_Usage_Many]LotNumber**

- Added child-lot quantity in the description field of the mother-lot split-documentation step.**

Rev ERP02020K38D & 39D

Dated: 3/24/08

- **Added Test-Window controls in Template-Definiton record.**
- **Added "Lite Receiving" option, whereby a job can be received in the system without the need to define Process and Device.**
- **WIN2PDF can be used as pdf creator. PDFWriter 5.0 does not work under Vista**
- **PDF writer setting s are stored in the Preferences Folder to avoid Vista default permissions**
- **Log-File transfer mechanism can now use Web-Services in addition to FTP**
- **Added full-backup with RAR and FTP in Server About Menu**
- **If the name of an existing Device-Table record is being modified, the system will issue a warning if the Device-Table record has existing lots referencing it.**
- **Upgraded to 2004.7R3**

Rev ERP02020K40D

Dated: 5/1/08

84* Gantt Chart issues runtime error if there are no traveler steps

- Log book chapters include Departments in addition to Areas
- Removed GL Posting from Chart of Accounts S/S

Rev ERP02020K41D

Dated: 5/16/08

- **Improved GLAC selection in Buy-Order**
- **Added Recurring-Entries creation in Buy_Order**
- **Removed 'Expense' field from Buy-Order. Redundant field**
- Renamed [Suppliers]Comments to [Suppliers]QA_Comments to reflect its usage**
- Added [Suppliers]WebsiteURL**
- Added [Customer_Log]WebsiteURL**

85* Array-Sorting error in PO-list in receiving and shipping forms