


# AMOS Business Suite

**Version 10.0.00**

## Release Notes

Revision 1, July 2014

# Documentation Copyright And Disclaimer

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# IMPORTANT

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**This release of AMOS Business Suite is a full installation. Please ensure that you follow in-house back-up procedures prior to installation.**

**If you are upgrading from earlier versions of AMOS products than those immediately prior to this release, we recommend that you read all release notes for the version in between to familiarise yourself with the changes that have been made to the application between your current version and this one.**

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**As of this version access to the Hooks which allow customising and extending AMOS Business Suite functionality, is now licensed separately.**

**If your system already has customisations utilising this functionality in place, contact your local support office about extending your license to include access to hooks.**

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**This version of AMOS Business Suite (10.0.00) is the first version to support the entry of Unicode data. Refer to section 6 in these Release Notes for an overview of the requirements related to upgrading to this Unicode compliant version of AMOS.**

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**As of AMOS Business Suite version 9.2.00, to send order forms with multiple pages of items as emails with attachments it is required to install Ghostscript. Ghostscript is available at: http://www.ghostscript.com/**

**For instructions on installing and configuring Ghostscript, see the AMOS Business Suite Installation Guide.**

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**A new parameter was introduced with patch 8.6.19, Prevent Updated on Quotation with Selected Vendor. Customers who applied that patch and set the parameter will need to check/reset the parameter after upgrading to version 9 or above.**

# 1 Introduction

## 1.1 About This Release

**The individual module versions are aligned with the version number of the AMOS Business Suite. This release comprises the following module versions:**

| | |
|---|---|
| AMOS Maintenance & Purchase | 10.0.00 |
| AMOS Quality & Safety | 10.0.00 |
| AMOS Personnel | 10.0.00 |
| AMOS Voyage Management | 10.0.00 |

## 1.2 Compatibility

### 1.2.1 Testing

**The AMOS Business Suite version 10.0.00 has been tested on the following:**

| | Windows 2003 Server Enterprise Edition SP2 | Windows 2008 Server Enterprise Edition | Windows XP SP3 | Windows Vista Enterprise Edition SP1 | Windows 2012 Server | Windows 7 32b (64b) |
|---|---|---|---|---|---|---|
| ASA 11.0.1.2352 | X | X | X | X | | X |
| ASA 12.0.1.3910 | X | X | X | X | | X |
| ASA 16.0.0.1915 | | X | | | | X(X) |
| Oracle 10.02.00.01 | X | | X | | | X |
| Oracle 11.02.00.01 | | X | X | X | | X(X) |
| MS SQL 2008R2 10.50.4000 | | X | | | X | X |
| MS SQL 2012 11.0.2100 | | | | | | X(X) |

**AMOS Business Suite is a 32 bit application. As such, it requires a 32 bit driver to connect to a database. 32 bit database drivers can connect to either 32 bit or 64 bit database servers. It is up to the RDBMS vendor to provide a 32 bit driver compatible with their 64 bit server software.**

### 1.2.2 Support

**AMOS Business Suite supports the platforms listed below within their own boundaries.**

**Regarding MS SQL 2012, AMOS Business Suite 10.0.00 provides support through the ODBC and not using the SQL Native Client. As of version 9.2.00, AMOS Business Suite supports SQL Native Client for MS SQL Server 2008.**

**The AMOS Business Suite version 10.0.00 supports the following:**

**32 bit OS**

- Windows 2003 Server SP2
- Windows 2008 Server
- Windows XP SP3
- Windows Vista SP1
- Windows 2012 Server
- Windows7 (32 bit)

**DBMS**

- ASA 11.0
- ASA 12.0
- ASA 16.0
- Oracle 10.02
- Oracle 11g
- MS SQL 2008
- MS SQL 2012

### 1.2.3 Windows 8

**The development environment of the AMOS Business Suite and its third party components does not support the Windows 8 environment; therefore, AMOS Business Suite does not officially support the Windows 8 platform.**

**However, SpecTec's Quality Assurance department has performed preliminary tests on this platform and found AMOS to be working successfully. Should there be any issues, SpecTec will do its utmost to address them.**

**Be aware that AMOS products rely on third party components and that these must also comply with Windows 8. If the root cause of an issue resides with a third party component, SpecTec may not be able to address the issue.**

**AMOS Business Suite is a 32 bit application; therefore it will not utilise the 64 bit Windows platform to its fullest capacity.**

***NOTE: Warning Raised During Installation on Windows 8.0/8.1***

**While installing AMOS on a system running on Windows 8.0/8.1, the following message could be encountered:**

**'Windows protected your PC. Windows SmartScreen prevented an unrecognised application from starting. Running this application might put your PC at risk.'**

**The issue is in fact with the source the AMOS installer application was downloaded from. For example, it sometimes happens that Windows will flag a file downloaded from the internet as 'unsecure'.**

**You can disregard the Windows SmartScreen message and carry on with the AMOS installation, or, validate the installer.**

**To do that, right-click on the .exe file before launching it. Select 'Properties' from the pop-up menu. At the very bottom of the General tab, click 'Unblock' next to 'Security: This file came from another computer and might be blocked to help protect this computer.'**

### 1.2.4 Other

**AMOS e-Business Direct (AMOS HTML) was tested on the following e-mail clients:**

Microsoft Office Outlook 2007

Microsoft Office Outlook 2010

AMOS Mail version 5.1 and 7.4

**AMOS e-Business Direct (AMOS HTML) is compatible with:**

Microsoft Internet Explorer version 5 or higher.

When utilising either the HTML/JSON or HTML/NoScript solution, AMOS e-Business Direct is now compatible with all major browsers.

**AMOS Business Suite version 10.0.00 is compiled using:**

PowerBuilder version 12.5.2 Build 5602

# 2 Framework

These release notes describe the enhancements and corrections made to the AMOS Business Suite common Framework from version 9.3.00 to 10.0.00.

## 2.1 Enhancements

The following enhancements have been made in this release.

### 2.1.1 Unicode Support

**This version of AMOS Business Suite (10.0.00) is the first version to support the entry of Unicode data.**

Unicode assigns one unique number to every character which exists in the world. A database based on a Unicode code page will accept any character and correctly interpret it in any other Unicode database as well. This means that any character from any Unicode compliant language can be entered in the AMOS database.

To achieve Unicode compliance, it is necessary to change the type of text fields to Unicode data types. Refer to section 6 in these Release Notes for an overview of the requirements related to upgrading to this Unicode compliant version of AMOS.

### 2.1.2 New Methods For Adding Attachments: Import And Browse

Two new methods for adding attachments to AMOS (without first storing them in the Attachments References library) have now been implemented:

- use the new 'Find File' button to browse on your computer for a file.
- use the new 'Import' button to add attachments from a connected device like a camera, phone, scanner, etc.

An Attachment Source with Service Type 'Default Association' is required to add attachments which are not already inserted in the References register. AMOS will list the files added this way in the Attachment tab and in the Attachment References register, with the Code 'DROP'.

### 2.1.3 Send SMS Notifications From AMOS

AMOS can now be configured to send SMS messages to most mobile phones. The users who will receive such messages each need a mobile phone number defined on their address.

- AMOS can automatically send sms messages to a designated user when a record's status is changed using the work flow; and
- AMOS can send sms messages to a designated user to notify him/her if an error occurs when the Task Server is running any import/export task.

This functionality requires a device that is able to communicate with the PC and contains an open and available modem that can transmit sms messages. The PC connects to the mobile device via a COM port - either with a cable or through bluetooth and multiple devices can be connected, as long as the definition for each one references a unique COM port.

### 2.1.4 Translation Window Added To AMOS

Translating text in AMOS has been possible in previous versions using the Babel tool. In this release Babel functionality has been moved into AMOS in a new access controlled Translation window, where users can translate text from inside the application.

### 2.1.5 Logging On With Windows Credentials

A new system parameter 'Allow Windows Login Verification' controls whether or not AMOS will allow users to log in with their Windows login credentials instead of separate, dedicated AMOS credentials. To log in with Windows credentials, a user's AMOS Login ID must be set to match his/her Windows Login ID.

### 2.1.6 Global Search By Installations

Now, when a user activates Global Search in a filter a new 'Departments' tab is added to the window. This tab shows all installation/departments the current user has access to and lets the user flag which ones the global search should consider.

### 2.1.7 Work Flow Configuration Revisions

It is now possible to create a series of revisions for any WorkFlow configuration. When a new revision is ready, approving it renders the previous revision obsolete. Only one active configuration revision and one draft revision can exist tor any selected module in the system, at the same time.

Work Flow revision functionality is activated by setting the new system parameter 'Use Revision' to TRUE. Once set to true and revisions have been created, this setting cannot be changed back to false.

### 2.1.8 Editor - Converted Enhanced Text Type

**#17078**

The table ConvertedEnhancedText by default stores converted RTF data in BMP image files, and is updated whenever users change or print RTF data. To prevent the database from growing unnecessarily large, the new system parameter 'Converted Enhanced Text Type' lets users switch the cache mechanism off to prevent storing any data in the ConvertedEnhancedText table, or select to store the RTF data images in the table in the JPEG format which requires less space.

Note that the ConvertedEnhancedText table is not replicated between AMOS installations: AMOS creates the data automatically as needed. To save space and remove old data from the cache it is safe to schedule a deletion of records for this table, and AMOS will again create records automatically as needed.

A similar parameter was added in the service release 9.3.02 and if this has already been set manually, set it once more after upgrading to 9.4.00. In this case, during database upgrade ensure that any existing records for the 'Converted Enhanced Text Type' parameter defined in the tables SystemSwitch, InstallationSwitch and DepartmentSwitch are removed.

### 2.1.9 Enhanced Editor Defaults

**#4515, 15856**

A new parameter 'Enhanced Editor Defaults' let users define the following settings as defaults when the Enhanced Editor is in use:

- Paper size (formerly set A4)
- Font (formerly set to Arial)
- Font Size (formerly set to 12 points)

### 2.1.10 Support For InfoPath Templates Added

When MS InfoPath is installed, users will now be able to import and assign InfoPath forms as template definitions in addition to PowerBuilder forms. Any window in AMOS which allows templates will accept InfoPath templates via selection from the Edit menu > Change Template.

The two types of templates (InfoPath and PowerBuilder) are differentiated in the Template register.

### 2.1.11 Special Character Support Added

AMOS now supports use of the single ' and double " quote characters throughout the application.

### 2.1.12 Reduce Replication Traffic

The database has been expanded with more columns to reduce the data transmission between two installations. These columns will be used to indicate which data to export and transfer to another installation. All tables containing CLOB or BLOB fields have been expanded with the following new fields:

LastUpdatedBlobUTC and ExportMarkerBlob

### 2.1.13 Port.Code Column Expanded

**#16084**

The column Port.Code has been expanded from varchar (6) to varchar (20).

### 2.1.14 Copy Access Rights

**#11860**

When copying access rights from one user group to another, it is now possible to copy the rights from any or all of the Access Control window tabs in one operation, and not just the rights in the currently active tab. The Copy From Group > Select Group dialog now contains a list with a checkbox for each tab in the window, flagged by default. Users can flag or unflag individual tabs for inclusion or exclusion in the copying operation.

### 2.1.15 Portal Setting Added For MTS Portal

**#7891, 18221, 19348**

To provide support for including service lines on orders sent to portal, the following settings have been added to the eBusiness Portals window for drivers of type e4Marine MXML:

**SupportServiceLines**. TRUE/FALSE. Portal supports service order lines or not.

**ConvertRTFtoTXT**. TRUE/FALSE. Comments in enhanced editor mode on service order lines will be converted to plaintext format or left as RTF.

**IncludeWONotes**.TRUE/FALSE. The XML export file will include work order note details on service orderlines or not.

**IncludeJDNotes**. TRUE/FALSE. The XML export file will include work order job description notes, or not.

**IncludeOLNotes**. TRUE/FALSE. The XML export file will include the order line notes or not. Order lines notes assigned to a templatewill not be exported.

When SupportServiceLines is set to false and the form to be exported by an MTS driver contains such a line, the user will be informed that the portal is not configured to support service line items, and one or more service lines has been found.

### 2.1.16 Support For CodePage 1257 In AMOSUtil Added

**#23857**

AMOSUtil version 1.0.8 has been included in this service release, with support added for CodePage 1257 for the use of Baltic languages.

### 2.1.17 Fields Set To Read Only Greyed Out

**#18400**

Any fields which have been rendered read only through a field level access configuration, will now be greyed out to end users to differentiate from editable fields.

### 2.1.18 Switch Department Window Enhancements

**#19441**

The Switch Department window has now been enlarged and the installations and departments appear in an expandable hierarchy. Additionally the label 'Sort By' has been changed to 'Sort/Search By' to make it easier for users to search by installation name as well as by department.

### 2.1.19 Keyboard Shortcut Added For Option Deselect All

**#19122**

A keyboard shortcut (Ctrl+E) has been introduced for the 'Deselect All' option in AMOS on both the Edit menus and on the right-click menus.

### 2.1.20 Field Level Access Configuration

**#20905**

Granting user groups Read and Edit access rights to field level access configurations can now be done directly in the Field Access window itself, instead of from the Access Control window.

### 2.1.21 Copy List Button Added To Some Tabs

**#19922**

To allow copying the contents of one tab (instead of the list part of the entire window) a button 'Copy List' has been added to the following window/tabs:

Component Types/Parts

Components/Parts

Stock Types/Used in Component Types

Stock Items/Components

Stock Items/Component Types

### 2.1.22 Attachment References Button Added To Toolbar

**#18370**

A button labelled 'Attachments' has been added to the Main toolbar, to directly open the Attachments > References register. Access to the button follows access to the register itself.

## 2.2 Corrections

The following corrections have been made in this release.

### 2.2.1 Filter Criteria Did Not Accept ' Or "

**#19171**

Although descriptions containing ' or " could be saved, AMOS would not allow users to filter by any criteria containing these characters.

This is no longer an issue. Support for use of ' and " in names, codes, numbers etc., has been added in this version of AMOS.

### 2.2.2 AUTONR_LAST_ID Changed To Type NUMBER(9,0)

**#12496**

The field AUTONR_LAST_ID in the ELC_TABLES was of type NUMBER(8,0).

It has now been changed to type NUMBER(9,0).

### 2.2.3 Vertical Scrollbar Missing From Address Category List

**#21499**

The Category field list on the Address register was missing a vertical scrollbar.

This has now been added.

### 2.2.4 Amos.getsharing On Oracle Returned Incorrect Value

**#21450**

Running

SELECT amos.getsharing(1,'compstatuslog') FROM DUAL;

on an Oracle database incorrectly returned NULL value.

This has now been corrected.

### 2.2.5 Incorrect Sharing On Hotspots Table

**#21252**

The sharing parameter (Attachments/Reference/Hotspots) for the table Amos.Hotspots was ignored by the system and so hotspots were always shared globally shared amongst all installations/departments.

This has now been corrected. Each installations sees its own hotspots only, when the table Amos.Hotspots has not been shared.

### 2.2.6 Limited Clients Can Login When Other Databases In Use

**#12365**

When running on MSSQL with a dbserver containing other databases besides that for AMOS, the full number of licensed users could not log onto AMOS at one time.

This has now been corrected.

### 2.2.7 Logo Applied Incorrectly On Some Reports

**#23742**

The SpecTec logo was incorrectly applied to some reports. In some places the logo overlapped with report data and in other cases it appeared on reports which should not have had a logo included.

This has now been corrected.

### 2.2.8 Changing Tabs Prevented After Adding New Data

**#16840**

After adding some data to one tab in a multi-tab window and then attempting to change to another tab, the user would be prompted to save the window. If the user clicked No in such a dialog, nothing happened and changing tabs was prevented.

This has now been changed. The prompt allows users to click Ok to save the data and change tabs, or Cancel to remain in the same tab without saving.

### 2.2.9 Option To Change Or Use Existing Path Not Provided During Update

**#18286**

When installing AMOS and selecting to update an existing installation, the files were not written to the existing directory but instead to a default path using a 'SpecTec' folder. No option to change the installation path or use the existing one was given during the update.

This has now been corrected.

### 2.2.10 Validation Prevented Window From Refreshing Correctly

**#23361**

Receiving a validation message in a window interfered with the next refreshing action in the window. Pressing F5 resulted in the Save dialog appearing but the options to cancel the refreshing action or refresh without saving changes, did not work.

This has now been corrected.

### 2.2.11 Export Parameters File

**#24216**

Changing the settings on parameters from global to installation level and back again and then exporting the paramter file, prevented the correct setting from being restored on import.

This has now been corrected.

### 2.2.12 AMOS 9.3 Client Silent Upgrade Issue

**#22790**

The 'Earlier Version Detected' AMOS installation dialog appeared unexpectedly during silent upgrade from AMOS Business Suite version 9.3.00 to 9.3.10.

This has now been corrected.

### 2.2.13 Deleting Tables With Merged Cells From Details Tabs

**#18849**

Multiple rows could not be deleted from a table imported to a Details tab in one action, if the table contained merged cells and the AMOS Enhanced Editor was in use.

This has now been corrected. The option 'Edit > Delete All' has been added to the right-click menu in Details tabs. Choosing it will prompt the user to confirm, and then all selected rows in the table will be deleted.

### 2.2.14 Printing Enhanced Text In History Reports

**#17579**

Due to an issue with access to the Temp folder on some PCs, history written in enhanced text was left out of printed history reports.

This has now been fixed.

### 2.2.15 Select Attachment Window Needed Expansion

**#27931**

The browse dialog opened via the Reference lookup in the Attachment References window, was not a full-sized Windows browse dialog.

This has been corrected.

### 2.2.16 Different Report Directory Locations Could Not Be Used

**#17996**

When differing locations were set for the Report Directory in several different departments, AMOS only used the location set on the Global level.

This has now been corrected.

### 2.2.17 Could Not Create View Due To Character Limit

**#10223**

In certain circumstances due to limitations on the number of allowed characters, user-defined views could not be saved and would appear to be empty.

This has now been corrected.

### 2.2.18 Importing Large Files Caused AMOS To Terminate

**#14557**

When trying to import a large file into a new database, AMOS would terminate and the original file had to be split into files with a maximum size of 5 MB each to allow for import.

This has now been corrected: the parameter 'MaxImportFileSize' has been inserted and can be set to a value in MB, determining the size of each part an import file can be split into.

### 2.2.19 Disabling Dashboard Refresh

**#28637**

AMOS automatically refreshed dashboard alerts at login and upon switching departments even if the check interval was set to 0 (off). A new parameter, 'Manual Refresh Only' has been added and when set to TRUE will prevent all automatic refreshing of dashboard alerts at startup, department switch and the timed refresh interval set on the User Option 'Mailbox/Dashboard Check Interval'.

### 2.2.20 Dashboard Options Overview Now Sorted By Name

**#17925**

The alerts listed in the 'Available Alerts' section on the Options window Dashboard tab were sorted by internal ID.

This has now been changed. Alerts are sorted by name, within their group.

### 2.2.21 Work Flow Mailbox Assignment

**#12390**

When performing a work flow transformation and one of the actions in the dialog did not have a default mailbox, if the user switched focus to an action with a default mailbox and then back again, a default was suddenly set on the first action also.

This has now been corrected.

# 3 Maintenance & Purchase

These release notes describe the enhancements and corrections made to AMOS Maintenance and Purchase from version 9.3.00 to 10.0.00.

## 3.1 Enhancements

The following enhancements have been made in this release.

### 3.1.1 Project Status Access Settings Expansion

**#23760**

Instead of simply defining user group access to Maintenance Projects, sections and jobs, each project now has its own dedicated access control feature to allow or deny different levels of access to any user group according to the project's current status.

The Access tab now contains a list of project statuses and user access to the project, section and job level for the selected group can be flagged or unflagged on every status.

Where no access settings are defined on a particular status, the settings defined under 'General' will then apply.

### 3.1.2 Quotation Compare Scenario Functionality Expanded

The existing Quotation Compare Scenario functionality has been expanded in this release:

- Delete Item and Cancel Item buttons added to allow for quick removal of items from the current scenario and even from related quotations and purchase forms. A Comment button has also been added.
- A new option to show related line items on the matrix.
- 'Item Codes', defined in a new register, can be used inside the matrix to do things like cancel an item in a certain scenario only, or prevent its price from consideration in the grand total, without actually affecting the quotation itself.
- A new option to 'award' some part but not the entire quantity of any item to a particular vendor on the matrix.
- Keep track of comparison history in the form of 'snapshots' in a new History tab. Users can manually record a copy of the matrix at any time, or, a new parameter allows AMOS to create it automatically upon certain events like splitting or cancelling items.
- A new option to change the required quantity on an item on the matrix and update the value on the relevant quotation and purchase order too.
- The possibility to configure and activate custom work flow configurations for use with Quotation Compare Scenarios.

### 3.1.3 Quotations: Alternative, Additional And Related Line Items

It is now possible to add three kinds of extra line items to quotations: 'Alternative' lines, 'Additional' lines and 'Related' lines.

Alternative and additional lines are suggested replacements for an original line on the query form, or extra items added by the vendor. Additional lines are free-text. Alternative/additional lines apply only to the quotation they are specified on, and will transfer to the purchase order form's line items tab only if the relevant quotation is eventually selected.

Relating two items indicates that they should always be ordered together. Related lines only apply to the individual quotation the relation is specified on and will transfer to purchase form line items only if the quotation they are defined on is selected.

### 3.1.4 Stock Grade Functionality Expansion

The following new information can now be added to stock grades:

- An Indicator (low, medium, high) can be defined in the Stock Grade register and then applied to stock types. The assigned indicator will appear on relevant stock items in the purchasing process - on order forms, deliveries and transport documents. Forms, deliveries, transport documents and transfer documents can also be filtered by stock indicator level.
- A free-text comment defined in the Stock Grade register can be included on the order form printouts to communicate extra information to a third party.

Multiple stock grades from the same category can now be added to one stock type/item, by flagging the 'Allow Multiple Stock Grades' checkbox on the Stock Grade Categories register.

### 3.1.5 Purchase History

**#1588, 4261**

The new Purchase History window now stores all ongoing purchase history against stock (types and items), and is accessed from the Stock Types or Stock Items window. Purchase history for individual lines on order forms can also be viewed in the Line Items window from the Options menu.

To get a better overview of pricing, users can define a 'Best Purchase Price' period against any stock class. AMOS then identifies the lowest price paid for the relevant stock inside of that timeframe and flags it on the Purchase History window.

For systems where stock classes are not in use, or stock without a defined class, the same time period can be set using the new system parameter 'Best Purchase Price Evaluation Period'.

### 3.1.6 Quality Check Window Added With Create Transfer Document Option

**#2062**

Quality checks and claims functionality has been expanded with a new dedicated window for entering new checks or claims against entire forms or individual items on a selected form. Checks and claims entered against forms or order lines in the Forms and Line Items windows also appear here in this new window.

Additionally, the ability to create transfer documents directly from quality checks has been added. Transfer documents can only be created from quality checks registered against individual line items, not entire forms. Quality check order line(s) can be added to existing transfer documents, or, new documents can be created for the items.

When transfer lines are added from quality checks, a new checkbox labelled 'Transfer Updates Stock Levels' is present on the donating installation's Options > Transfer window. Unflagging the box excludes that item from stock level updates and no stock transaction will be generated.

### 3.1.7 Print Transfer Documents

**#5840**

A Print button and menu entry have been added to the Transfer Documents window. If the user triggers the Print dialog without first tagging any documents, he/she can specify a range of documents to print along with filtering criteria. Tagging one or more documents first changes the Print dialog so that the user needs only to choose the output format and sort order.

### 3.1.8 Logistics Enhancements

**#5544**

Several enhancements have been made to the existing Deliveries and Transport Document functionality:

- The Deliveries window can now be accessed directly from the main Purchase menu.
- A new tab, Line Items, has been added directly to the Deliveries window and line items can be viewed in the tab as well as in the separate window accessed from the Options menu.
- When splitting deliveries, line item quantities to split can be set to match the quantity on the delivery automatically, using a new Fill button next to each item in the Split dialog. A Fill All button in the same dialog fills up the quantity to split on every item in the list.
- The Transport Documents and Deliveries windows now both contain a Locations tab which allows a journey to be broken down into individual stages by each interim location.
- Deliveries assigned to each transport document can be viewed directly in the new Consolidated Deliveries tab on the Transport Documents window, as well as in the dedicated window accessed from the Options menu.
- A new parameter 'Inherit Delivery Priority from Purchase Form' controls whether the priority on a purchase form will be inherited onto any relevant deliveries.

### 3.1.9 Delivery Destination Selection Expanded On Purchase Contracts

**#17366**

When adding locations in the Purchase Contracts window Delivery Locations tab, users can now select destinations by Address, Location, Port or Port Call. Any of the four destination options can be set in the dialog and selected to display by default on the main window.

### 3.1.10 Show Split Line Items

A new parameter 'Line Items Displayed by Default' has been added to determine which line items - active, cancelled and split - are shown by default on purchase forms, and how the window 'Show All' option works.

### 3.1.11 Projects: Selecting Work Orders To Add To Purchase Forms

**#4655**

A new system parameter 'Only Allow to Add Project WO for External Disciplines to Order Forms' has been introduced. This parameter provides the option to sub-contract project jobs with any discipline assigned; or, as before, to only allow project jobs with an external discipline to be placed on order forms.

Additionally, it is now possible to tag project jobs for sub-contracting, rather than automatically adding all jobs within the selected discipline(s) (while respecting the new parameter setting). When jobs with different disciplines are tagged, users can flag the new 'Split per Discipline' option on the dialog to place the jobs on separate order forms by discipline.

### 3.1.12 Filter For Employees When Reporting Resources Used

When the parameter 'Log Work With Employee' is set to TRUE, the Report Work dialog Resources Used tab allows selecting employees rather than disciplines, to define against a work report.

The drop-down list has been changed to a lookup to the Employee register, to filter and retrieve active employees. The filter allows for multi-select and includes to option to search only for employees who are linked to the required disciplines on the work order which is being reported.

### 3.1.13 Search In Vendor Reference Also On Stock Wanted Filter

**#2413**

A checkbox labelled 'Search in Vendor Reference Also' has been added to the Stock > Wanted filter. When checked, AMOS consider the vendor reference as well when filtering for 'Maker's Reference'.

### 3.1.14 Create New WO From Component Hierarchy

**#19359**

The option to create new maintenance work orders directly from the current tab has been added to the Component Hierarchy window Jobs tab > Job General sub-tab. Clicking the new 'New WO' button on the tab opens the Work Order window with a newly created work order for the selected job displayed.

### 3.1.15 Indication Of Function Criticality On The Work Order Window

**#12203**

Function Criticality icons are now displayed on the General tab of the Work Orders window, in the list part of the window and to the right of the Function field.

### 3.1.16 Tooltips Added To Included Jobs Tab

**#17287**

Tooltips have been added to the Component and Job buttons on the Work Orders window > Included Jobs tab, to indicate that the buttons will open the attachments for the Component or the Job.

### 3.1.17 Open Hierarchy From Component/Function Window

**#16796**

The Component Hierarchy and Function Hierarchy can now be opened directly from the Component window and Function window respectively. The component/function selected at the time of remote opening the window, is the one which will display in the hierarchy.

This requires that the user has the correct access to the hierarchy window(s).

### 3.1.18 Adding Jobs To Rounds Bypasses Filter

**#16627**

When adding a Job to a round for which the component is already defined, selecting the Job lookup button will no longer present a filter but simply display the list of jobs belonging to the component immediately.

### 3.1.19 Copy Order Form Includes Cancelled Line Items

**#16525, #19290**

Copying a purchase form also automatically included any cancelled line items. It is now possible for users to define whether cancelled items should be copied as well as active line items.

### 3.1.20 Stock Unit On In/Out Of Stock Window

**#14189**

The stock unit for the relevant stock item is now displayed, read-only, on the In/Out of Stock window. As it is now the stock unit is not displayed and you have to look back in the stock item window to find the stock unit.

### 3.1.21 Form Filtering Expanded

**#1894, 2419, 10187**

The Purchase > Forms filter has been expanded to include the possibility to filter for Line Item attributes such as Part No., Description, Details, etc., and is not limited to stock items only but in relevant cases (i.e. Description) also considers free text and service line items.

### 3.1.22 Price Information Removed From RFQ XML Message

**#15552**

Previously, Requests for Quotes sent through a ShipServ portal included existing price information in the XML file.

This information has now been removed from RFQs. Instead, any price information on the XML file is set to zero.

### 3.1.23 Option To Filter By Stock Status Added To Filters

**#23131**

The option to filter by 'Stock Status' with options All, Stocked Items and Non-Stocked Items has been added to the filters for the following windows: Stock Wanted, Stock Control and

Location Inventory. The same option has also been added to the filter for the Stock Items report 'Stock Items - Inventory Control'. The default selection is Stocked Items.

### 3.1.24 Frequency Added To Maintenance Filters

**#22211**

The possibility to filter based on frequency and interval has been added to the Maintenance Work Order, Work Planning and Job Planning filters. A new tab 'Frequencies' allows users to set Periodic Frequency, Counter Frequency, Measure Point Setting, and Events to filter maintenance work by.

### 3.1.25 Cancelling Work Orders Referenced As Active Order Form Line Items

**#5369**

Previously, a work order which was present on a purchase form as an active service line item, could be cancelled without warning to the user that the work order was registered against an order form.

This has now been changed. When a user cancels a work order, if references to either the work order itself or its required parts exist on any order form, AMOS will prompt the user with a message that the work order cannot be cancelled and why. The service line item must be removed from the order form before the work order itself can be cancelled in this case.

### 3.1.26 Copy List Functionality Added To More Windows

**#17916**

Edit > Copy List functionality has been added to the following Maintenance windows:

Counters Update and Counter Log

Measure Points Overview, Measure Points Update, and Measure Point Log

### 3.1.27 Required Disciplines Option Added To Filter

**#16857**

The option 'Include Non-Responsible' has been added to the Only Disciplines section of the Maintenance Work Order, Work Planning and Projects filters. When flagged, AMOS will return work orders where the selected discipline(s) is either the responsible one, or is registered on the Required Disciplines tab.

### 3.1.28 Work Order Tab Added To Round Window

**#17894**

A tab labelled 'Work Order' and listing work orders related to the selected round has been added to the Rounds window. The Maintenance Work Order window can be remote opened, as well as by View and View All buttons.

### 3.1.29 Warning Message When Deleting Parent Components

**#15027**

When deleting a parent component (with child components) from the Component window, users will now be prompted to confirm the deletion with the message that 'This component has

sub-components which will also be deleted' and the options Ok and Cancel.

### 3.1.30 Triggering Round Work Orders By Events

**#16063, 17652, 20937**

AMOS will now allow round work orders to be triggered by events, as well as component job work orders.

A user defines one or more triggers on a round in the Rounds window. When an event is triggered, AMOS will check if any rounds exist for it and reschedule the existing round work order to the current date (the date the event was triggered). If no work order exists for the relevant round AMOS will create one.

### 3.1.31 Copy List Functionality Added To Rounds Window Jobs

**#17865**

A 'Copy List' button and the corresponding functionality has been added to the Rounds window Jobs tab, allowing users to copy the content of the active tab instead of the entire list part of the window.

### 3.1.32 Location Code Must Be Unique

**#19635, 12456, 26325**

No validation check is performed on Location Codes so it is possible that duplicate location codes could exist. A new parameter has been added 'Restrict Location Codes'. Set to FALSE, AMOS continues to work as before and duplicate codes will be allowed. Set to TRUE, AMOS will prevent entering a duplicated code.

### 3.1.33 Confirmation Reference Field On Forms Expanded

**#27370**

The OrderForm.ConfirmationRef field on the Forms filter and Forms window General tab has been expanded to allow up to 50 characters.

### 3.1.34 Audit Trail Reason Code Usage

**#21863**

A reason code which is not flagged on any column in an entire audit trail configuration will be available on every audited field where 'Reason' is flagged.

Icons and tooltips have been added to the Audit Trail Configuration window 'Reason Codes' to make the usage status of each reason code more clear.

## 3.2 Corrections

The following corrections have been made in this release.

### 3.2.1 Null Status On New Work Order For Requisition Work

**#18129**

When workflow was enabled and a user created a requisition work order for a component installed on a function, if the function name contained a ' , the work order was created without a status.

This is no longer an issue. Support for use of ' and " in names, codes, numbers etc., has been added in this version of AMOS.

### 3.2.2 Forms Would Not Accept Vendor With ' Or " In Name

**#19548**

The the name of a vendor contained a ' or " character, AMOS would not accept and save that vendor on a purchase form.

This is no longer an issue. Support for use of ' and " in names, codes, numbers etc., has been added in this version of AMOS.

### 3.2.3 Budget Included Split And Cancelled Line Items

**#20794, #20795**

Budget breakdowns showed all line items linked to the budget, including those which had been cancelled or split.

This has now been changed. Cancelled or split line items are still visible in the breakdown but are greyed out, to indicate that they do not affect the budget totals.

### 3.2.4 Vendor Reference Allowed 14 Characters Only

**#23619**

The Quotation.VendorQuotationRef in the database is defined with varchar 40, but in the on the Quotations General tab the corresponding Vendor's Ref field only accepted 14 characters.

This has now been corrected and the field accepts the full number of characters.

### 3.2.5 When You Create New Stock Type, Details Disappear If You Haven't Saved Before

**#24818**

If a user created a stock type entry and then attempted to add details without saving the record first, details from a previously entered stock type would appear. Changing the details and saving or refreshing the window caused the information to disappear completely.

This has now been corrected.

### 3.2.6 Address Category

**#22479**

The drop-down lists on the Address filter for both 'Category' and 'Group' were not correctly sorted.

This has now been corrected and the lists are sorted alphabetically.

### 3.2.7 Report Work, Require Reason For Overdue Work For Counter Based Jobs

**#21747, 23871, 20779, 15654**

When the parameter 'Report Work, Require Reason for Overdue Work' was set to TRUE, users were prompted for a reason even when reporting counter-based work orders which were not in fact overdue.

This has now been corrected.

### 3.2.8 Overlapping Columns On Jobs Attached To Components Report

**#14531**

The Component Number column on the 'Jobs Attached to Components' report was too small to show the data.The Component No. and Name columns were overlapped.

This has now been corrected.

### 3.2.9 Alternative Parts On Stock Type Caused AMOS To Terminate

**#23382**

If a user entered some replacement part(s) on the Stock Type window and then double-clicked on the window outside of the replacement part fields, AMOS would terminate.

This has now been corrected.

### 3.2.10 Maintenance: Field Incorrectly Editable

**#23379**

The Incident No. field in the Maintenance Work Orders window > Additional Info Tab was incorrectly editable.

This has now been corrected and the field is read-only and remains empty if no work order is created for an incident record.

### 3.2.11 Copy Order Form Dialog Truncated

**#16572**

If no theme was in use in AMOS, it was not possible to copy purchase order forms to the installation at the top of the installations hierarchy because the Copy dialog was truncated and the installation was not visible.

This has now been corrected.

### 3.2.12 Read Only Access Rights For Components

**#18718**

When the parameter 'Hide Inaccessible Menu Entries' was set to FALSE, and an onboard user with read-only access to components opened an empty instance of the Component Jobs window > Required Parts/Required Disciplines tabs, AMOS would terminate.

This has now been corrected.

### 3.2.13 Saving Did Not Update Function Hierarchy

**#14097**

After creating a new function with number and description, clicking Save or pressing Ctrl+S did not update the Function Hierarchy window. If the user added more information and tried to save again, AMOS would then prevent the save.

This has now been corrected.

### 3.2.14 Global Search For Components Using Function Field

**#13772**

When globally filtering components by function, only installation specific data.

This has now been corrected.

### 3.2.15 Double-Clicking Job Description Opened Another Record

**#12461**

When Job Description Revision Control was enabled, double-clicking a job description in the list would open another instance of the Job Description window, and then open the Details window.

This has now been corrected. Only the Details window opens.

### 3.2.16 Group Boxes Overlapped In Work Orders Filter

**#11370**

When using the Work Flow, if more than 27 statuses existed for work orders, the size of the first group box in the Work Orders filter window changed and overlapped the next group box in the filter.

This has now been corrected. Also, the bottom part of the filter is hidden if no Component/Type UDFs are in use.

### 3.2.17 Commodity Purchase Allowed Items Of Other Stock Classes

**#1953**

AMOS allowed users to add items of a different stock class, to order forms which were created for another stock class.

This has now been corrected. Items of another stock class will not be accepted.

### 3.2.18 New Form Creation Does Not Allow Delivery Location To Be Set

**#21476**

When manually creating a new purchase form of any type, users were prevented from adding a delivery location unless they selected a valid contract first.

This has now been changed. The delivery location lookup in the Form Creation dialog will only be available when a contract is selected. If the form is not for a contract, the user can simply click OK and proceed to the Forms window and specify the location there.

### 3.2.19 Unable To Delete Address With Address Type Assigned

**#22177**

Once an address record had an address type assigned to it, it was no longer possible to delete the address, even after removing the type.

This has now been corrected.

### 3.2.20 Prevented From Deleting User After Moving User Reference

**#21795**

After creating a new user and then moving the references from an existing user with maintenance and purchasing history, deleting the original user was prevented. This occurred because the operation to move user references did not actually move all the references from newer tables.

This has now been corrected. The move references functionality works properly and the old user records can be deleted.

### 3.2.21 Transport Document Lookup Showed Cancelled And Filed Documents

**#4035**

The Document No. lookup for transport documents in the Deliveries window displayed cancelled and filed transport documents.

This has now been corrected. The lookup list only contains active and parked documents.

### 3.2.22 Sorting On Stock Control Windows And Reports

**#20329**

The Stock Control window and Stock Location Inventory window, and the Stock Items - Inventory Control report was consistent but has been improved upon to respect mutiple columns by default.

### 3.2.23 Stock Item Global Search Cleared Total Stock Values

**#24999, 25199**

When the Total Stock column was selected in the Field Chooser to display in the Stock Item window, it displayed normally unless the user filtered the window using global search. This caused the Total Stock column to values to change to 0 and refreshing the window did not correct the column.

This has now been corrected.

### 3.2.24 Excluding Vendor From Comparison Caused AMOS To Terminate

**#25784**

After creating and then autoselecting a Quotation Comparison Scenario, removing a vendor from the comparison in the General tab and then returning to the Compare tab resulted in AMOS terminating unexpectedly.

This has now been corrected.

### 3.2.25 Portal Export Failed When Line Item Quantity Set To Zero

**#16607**

When a user printed to a portal driver (ShipServ or iShipExh) and the quantity on an active order line was set to zero AMOS did not warn the user.

This has now been corrected and AMOS will warn the user if any active order line is set to zero. AMOS also does not set the ordered date or flag the form as queued for e-Business.

Additionally, during validation AMOS would store the portal error in the log (e4m_mxml, AMOSeBusinessDirect, ShipServ, iShipExh), filling up the TempTable. This has now been adjusted: the log is only updated upon real portal export and not during validation. TempTable records created during portal validation error are now deleted.

### 3.2.26 Data Entered In Contract Matrix Cells Disappeared After Opening Dialog

**#22313**

When entering exceptions directly in a matrix cell in the Purchase Contracts > Contract Items tab, the user was not forced to save before opening the dialog for another cell to make changes there. In this case, the data entered in the previous cell was lost.

This has now been corrected. Users will be prompted to save changes in the matrix before they can open the dialog for another cell.

### 3.2.27 Reverse Transaction Did Not Copy All Columns

**#23375**

Reversing the stock transaction created by receiving goods did not copy all the columns from the original transaction into the reversed one.

This has now been corrected and the logged transaction is fully copied to the reverse transaction. Users are still required to manually cancel such items on the order forms if required.

### 3.2.28 Copy Function Did Not Check For Duplicate Function Numbers

**#15206, 16629**

When copying functions from one department to another, AMOS did not check if function numbers would be duplicated as a result of the copying action.

This has now been corrected. AMOS will check for duplicate numbers, only when the user selects to include function codes in the copy, and the copy is to take place across departments. If any of the codes already exist in the destination department the user will be prompted that the numbers already exist and given the option to copy the functions anyway or skip those with a duplicate number and copy the rest.

### 3.2.29 Fields Remained Unlocked In Work Planning Window

**#25567**

Even though fields in the Work Planning window had been added to a user-defined Field Access group, those fields were still available and modifiable for any user.

This has now been corrected: fields are correctly available or not according to access rights.

### 3.2.30 Empty Register Caused Message To Appear In Line Items Window

**#21287**

In systems running on MSSQL, when the Receipt Status register had not been populated and a user tried to open the drop-down on the Line Items window, an error message would appear.

This has now been corrected.

### 3.2.31 Sorting Distorted Quotation Comparison Matrix

**#25776**

Sorting the columns in the Quotation Compare Scenario window Compare tab distorted the matrix.

This has now been corrected: sorting the columns is prevented.

### 3.2.32 Incorrect Numbers Registered During Generate Work Orders

**#25154**

In certain circumstances AMOS generated work orders across several installations incorrectly using the number series from the current installation only.

This has now been corrected.

### 3.2.33 Create Work Order Button Available On All Tabs In Hierarchy

**#19651**

A 'New' button was added to the Component and Function Hierarchy windows to allow creating new work orders. However, it was incorrectly present on every tab.

This has now been corrected: the New button is present on the Job General sub-tab only.

### 3.2.34 Maintenance Log History Template Left Empty

**#22454**

When the parameter 'Use Additional Note Field' was set to TRUE and an enhanced template was assigned to a maintenance work order, during report work the information added to the template and Additional Notes tab did not appear in the resulting Maintenance Log entry.

This has now been corrected.

### 3.2.35 Pre-defined Filters And Custom Work Flow

**#26178**

When a custom Purchase work flow was in use and a user created a private predefined filter for the Forms window, none of the custom work flow statuses included in the filter definition were selected the next time the user opened the filter.

This has now been corrected.

### 3.2.36 Purchase Contracts Window Performance

**#22751**

Opening, editing and saving the Purchase Contracts window took longer than expected when a contract contained a very large number of items. The Contract Items tab was also slow to open.

This has now been corrected and performance has been improved.

### 3.2.37 Quotation Compare Lines

**#25775**

Even when the Quotation Compare Matrix was configured to display the line item's data on one line, some data was still displayed on additional lines and each item used too much vertical space in the matrix.

This has now been corrected: it is now possible to have all the line item data displayed on one line only instead of always utilising multiple lines.

### 3.2.38 Budget Hierarchy Sorted By Internal ID Instead Of Budget Code

**#19380**

The budgets in the Budget Hierarchy window were sorted by their Internal ID rather than by the Budget Code.

This has now been corrected. Budgets are sorted by their codes.

### 3.2.39 Short Column In Stock Report

**#12852**

The first column in the Stock Items Transactions report was not wide enough and so the last three or four digits of each stock item were cut off.

This has now been corrected and the column has been widened.

### 3.2.40 Maintenance Log Filter Date Fields Did Not Accept Four Digit Year

**#18216**

The date fields in the Maintenance Log filter 'Reported in Period' section did not accept four digits entered manually for a year. Only three digits were accepted and then AMOS would return the message that the date was invalid.

This has now been corrected.

### 3.2.41 Incorrect Focus When Scrolling And Clicking

**#27019**

When AMOS was set to open windows in cascade, focus was placed on the wrong column while a user scrolled and clicked in the list part of the Stock Type window Used in Component Types tab.

This has now been corrected.

### 3.2.42 Field Level Access Renders Read Only Fields Grey

**#18400, 27225**

Fields rendered read only to a user through a field level access configuration will now be greyed out, to make it clear which fields are editable and which are not.

### 3.2.43 Filling Delivery Did Not Update Quantities

**#26798**

Quantities remained blank after selecting Options > Fill in the Delivery Line Items window. The user had to save, close and reopen the Delivery Lines and then select Fill again, to successfully fill the delivery quantities.

This has now been corrected.

### 3.2.44 Registering A Form Number Manually During Line Item Split

**#23660, 24014, 23891**

When certain access rights configurations were in place, and a user split a line item from one form to another existing form by typing the existing form number in manually rather than using the lookup, AMOS would generate an exception message.

This has now been corrected.

### 3.2.45 Voucher Totals On Oracle Rounded

**#27666**

When running on Oracle, AMOS rounded up the total amounts shown on the Vouchers window General tab.

This has now been corrected.

### 3.2.46 Wrong Window Opened Remotely From Receive Window

**#26608**

Double-clicking on a Part No. code in the Receive window opened the Stock Type filter instead of the Stock Item details.

This has now been corrected.

### 3.2.47 Exception Importing ShipServ XML File

**#26670**

Importing an XML file via a defined ShipServ portal resulted in an exception and the import could not be completed.

This has now been corrected.

### 3.2.48 Work Flow Button In Vouchers Window Using Global Search

**#26548**

When Work Flow was in use for the Vouchers window, the Work Flow button was available upon first opening the window in Global Search mode. However, moving to the next voucher in the list permanently disabled the button.

This has now been corrected.

### 3.2.49 PortalLog Table Filled With Records

**#25699**

When running on Oracle and performing a ShipServ import, if an XML file import failed AMOS continued to attempt to import the file. For each attempt a record would be registered in the portal log table, resulting in the table being filled with a very large number of records.

This has now been corrected.

### 3.2.50 'Forms Quality Check' Access Disregarded In Forms Window

**#24604**

A user with read only access to the Forms window could not add or edit quality check records in the Forms window > Quality Check tab, despite having full access to 'Forms Quality Check'.

This has now been corrected. Users with access to 'Forms Quality Check' can add/edit/delete records in the Forms window > Quality Check tab, regardless of their access to the rest of the Forms window.

### 3.2.51 Generating Work Orders Created Records In All Departments

**#26726**

As of version 9.3.17, selecting Maintenance > Generate Work Orders created work orders for all departments instead of just the currently logged in department.

This has now been corrected. Work orders are generated only for the current department.

### 3.2.52 Component Job Templates Missing From Function AMOSAPI Function

**#18973**

Component Job description templates were missing from the 'as_fromdw' list in the AMOSAPI function 'f_printtemplate'.

This has now been added.

### 3.2.53 Remote Work Flow Did Not Work With Lotus Mail

**#23855**

AMOS Remote Work Flow did not work in conjunction with Lotus Mail.

This has now been corrected.

### 3.2.54 Toggling Numbers Option Missing In Stock Type Hierarchy

**#20916**

The option to toggle numbers was missing from the Stock Type hierarchy.

This option has now been added.

### 3.2.55 Moving Address References Did Not Include All References

**#25891**

Addresses with references to a column which was added in version 9.3.00, could not be deleted after moving the address references due to the new column.

This has now been corrected.

### 3.2.56 Filtering Stock Control By Expiration Date Returned All Records

**#21241**

Setting a range of expiration dates in the Stock Control filter still returned all items in the system, even though items with an expiration date inside the set timeframe existed.

This has now been corrected.

### 3.2.57 Using Custom Work Flow Incorrectly Left Some Work Orders Active

**#27280**

When customised work flow was in use for Maintenance, setting the component a work order was for, to scrapped, did not remove the work order from the list.

This has now been corrected: indicating which status is 'Cancelled' in the custom work flow is required.

### 3.2.58 Adding Voucher/Additional Cost To Form Caused Budget Date Message

**#27768**

Adding a voucher and an additional cost to a form, and then clearing the Budget Code on the cost to select a new one caused AMOS to ask the user to set the Budget Date first - althought it was already set.

This has now been corrected.

### 3.2.59 Filtering For Requisition WOs By Component Returned All Requisitions

**#24977**

When several requisition work orders for different components existed, filtering the Work Orders window for requisition work orders by one of the components returned all requisition

work orders in the system.

This has now been corrected.

### 3.2.60 Component Type Field Expanded On Component Level

**#15485**

The Type field for looking up a Component Type on the Component window was too small to display all inherited text.

This has now been corrected - the field has been expanded.

### 3.2.61 Work Order Filter Select All

**#20006**

Clicking Select All on the Work Orders filter correctly checked all work order status options. The user then expected AMOS to return a full list of all work orders in the system. However, because Select All checked the Filed status also, only work orders with Filed flagged were returned.

This has now been corrected. When the user clicks the Select All button to check all statuses including Filed, AMOS considers the state of the Filed checkbox as optional and all work orders are listed, whether flagged as filed or not.

### 3.2.62 Cost Overview Not Updated With Additional Costs

**#20836**

The Cost Overview on purchase forms linked to filled vouchers marked as final invoice, did not include additional costs added to the form. The Forms window Vouchers tab did show the correct value for Total Amount but the Form Amount did not include the additional costs either.

This has now been corrected.

### 3.2.63 Global Search On Filter Caused Counter Window Log To Hang

**#16838**

The Counter Log window became unresponsive during re-filtering records using Global Search.

This has now been corrected.

### 3.2.64 Database Error Registering Delivery Against Service Line Item

**#26799**

Registering a quantity for a service line item on a purchase form delivery resulted in an error upon saving the Delivery Line Items window.

his has now been corrected. Quantities are not entered for service line items on deliveries.

### 3.2.65 Inventory Control Report Line Spacing

**#17083**

After version 9.3.xx the Inventory Control report line spacing was increased and so the number of pages required to print the report increased considerably.

This has now been changed. The vertical line space has been reduced, but there is still room for two lines per record.

### 3.2.66 Predefined Filters Did Not Apply To Work Planner

**#16473**

Predefined and saved filter criteria did not appear in the Work Planning filter upon reopening the window the next time.

This has now been corrected and predefined filters can be applied to both the Work Planning and Job Planning windows.

### 3.2.67 Component Field Adjusted On Rounds Window

**#23875**

The Component Number field on the Rounds window Jobs tab was too small to show the full component code.

This has now been corrected. The field has been expanded.

### 3.2.68 Refresh Or Refilter Required To View Newly Copied Job Description

**#21341**

After copying a job description, the newly created copy could not be viewed until refiltering or refreshing the window and the focus jumped to an unrelated record at the bottom of the window.

This has now been corrected. Refreshing or refiltering is not required and the focus moves to the newly created job description.

### 3.2.69 Job Description Revision Control Parameter Check Too Restrictive

**#26330**

Once the parameter 'Job Description Revision Control' has been set to TRUE, it cannot be reverted to FALSE. This is correct.

However, when the parameter is not set on a global level, setting it to TRUE on one installation/department then prevents it from being set to TRUE on any other individual installation/department.

This has now been changed. AMOS will allow the parameter to be set to TRUE on more than one installation/department, instead of just at global level. As before, the setting at any level cannot be reverted to FALSE after it has been set to TRUE.

### 3.2.70 Wrong Item Removed From Purchase Contract

**#22946**

When stock types were added to a purchase contract out of sequence according to their codes, if a user selected one and attempted to delete it AMOS would remove the wrong one.

This has now been corrected.

### 3.2.71 Incorrect Number Mask For Budget In Report Work

**#27123**

When more than one stock budget existed and a user added a part to the Stock Used tab while reporting on a work order, the budgets available using the lookup had incorrect number masks.

This has now been corrected.

### 3.2.72 Copy Order Form Copied Budget Code Regardless Of Status

**#25695**

When copying a purchase order form, the budget of the originating form was copied regardless of whether the currently logged user had access to that budget or whether the budget was even valid, or was in draft status.

This has now been corrected. AMOS validates budget codes for copying in the same way it validates which budgets can be selected on a newly created order form. If the budget code is not valid for copying, the user will be informed that the code will not be copied.

### 3.2.73 Changing Filed Purchase Order To Active Possible Via Quotations

**#10198**

AMOS allowed users without access to convert forms, to change the status of a filed purchase order to active by selecting a different vendor's quotation in the Quotations window.

This has now been corrected. Users without access to convert forms will not be allowed to change the vendor and reactivate a filed form.

### 3.2.74 Commodity Purchasing Created Forms Without Stock Class

**#28056**

When the parameter 'Commodity Purchase' was set to TRUE and a user entered a wanted quantity on a stock item without a stock class in the Stock Wanted window, tagged that item and then generated forms, AMOS would generate a form without prompting for a stock class.

This has now been corrected.

### 3.2.75 Adding Work Order As Service Line To Form Caused Exception

**#26851**

Adding a work order to an existing purchase form as a service line item from the Work Orders window resulted in AMOS returning a 'Specify Retrieval Arguments' message.

This has now been corrected.

### 3.2.76 AMOS Slowed Down Adding Budget Codes To Budget Code Access

**#27910**

AMOS slowed down considerably when adding Budget Codes to the Budget Code Access list for user groups.

This has now been improved.

### 3.2.77 Vendor Code Disappeared When Selected On Auto-Created Form

**#17080**

Trying to select and copy the vendor code on an automatically created purchase form and moving to another form to paste the code caused the code to disappear completely from the auto-created form.

This has now been fixed.

### 3.2.78 Portal Validation On Purchasing Unit

**#22366**

Changes made to the purchasing unit for an item were not synced from the order lines to the quotation lines automatically, and so printing to portal would result in a portal validation message.

This has now been corrected. AMOS will always sync the order and quotation lines automatically before executing the portal export task.

### 3.2.79 Syncing Quotations Automatically Before Portal Export

**#24492, 22366, 12741**

If order lines and quotation lines for a form were not synced before attempting portal export, a 'No matching data found' message would appear and prevent the export.

This has now been corrected: AMOS will always sync the order and quotation lines automatically before executing the portal export task.

### 3.2.80 Issue Opening Alternative Parts Tab On Stock Item

**#28615**

Opening the Stock Items window Alternative Parts tab when no parts were defined resulted in a fatal exception message.

This has now been corrected.

### 3.2.81 Unable To Delete Project Jobs

**#26239**

Users with all access rights to a project but without the access to delete a work order, could not remove a project job if a work order was already tied to it.

This has now been corrected. The user can delete the project job, but will be notified that the work order exists and will not be deleted.

### 3.2.82 Replication Failure Related To Crewing Registers

**#21578**

Registering a stock control transaction via the Stock module populated the PeriodID column in the SparePartLog table. However, PeriodID is only used in crewing (slopchest) stock transactions, and so the use of the unlicensed crewing\payroll register caused replication imports to fail.

This has now been corrected: the field is left empty when a stock control transaction is registered via the Stock module. The PeriodID is set only if there the system license includes Personnel Onboard and/or Personnel Admin.

### 3.2.83 Component Jobs Window Inconsistencies

**#19362**

The number of tabs and their content on the Component Job window differed from the number and content of sub-tabs on the Jobs tab in the Function and Component Hierarchies. An 'Attachments' tab was present on the hierarchy windows Jobs tabs, and job descriptions on the Component Job window were accessed from the Options menu rather than contained in a tab.

These inconsistencies have now been corrected. A job description tab is now present on all three windows and labelled 'Job Specific Details' (and the option to view the job description has been removed from the Options menu on the Component Job window). The 'Included in Round' tab is now labelled 'Included in Rounds' (plural). The Attachments tab is present on all three windows and labelled 'JD Attachments'. All tabs are displayed in the same order in each window.

### 3.2.84 Lookups On Stock Transactions Filter Required Full Access Rights

**#25834**

Users required execute access to 'Complete System' in order to use the lookups on the Stock Transactions filter.

This has now been corrected. Read only access to Stock Transactions is sufficient access to use the lookups on the filter.

### 3.2.85 Copy Tooltip Missing From Counter/Measure Point Overview

**#20938**

The Copy Tooltip functionality was missing in the Counter Overview and Measure Point Overview windows.

This has now been added.

### 3.2.86 Deleting Counters From Component Type Jobs

**#26475**

Deleting a counter from a component type job and applying the changes to component jobs based on the type, did not remove the counter from the component job(s).

This has now been corrected. When a user deletes a counter from a component type job and confirms that the change should be replicated, the counter is now deleted from component jobs as well.

### 3.2.87 Purchase Work Flow In Global Search Mode Did Not Save Some Values

**#28696**

When a user approved or issued a purchase form opened in global search mode, AMOS did update the status of the record but upon refreshing or re- opening the same form the ApprovedBy/IssuedBy and ApprovedDate/IssuedDate values were gone.

This has now been corrected.

### 3.2.88 Contact Lookup On Order Form Returned Delivery Locations

**#24366**

Clicking the lookup button on the 'Contact' field below the 'Vendor' on a purchase form opened a list of delivery locations instead of contacts registered for the vendor.

This has now been corrected.

### 3.2.89 Incorrect Actual Cost On Project Cost Overview

**#28106**

When different costs were added to a project work order during work reporting, the Actual Cost on the Projects window Cost Overview tab was not correctly updated.

This has now been corrected.

### 3.2.90 Project Job Code Not Validated When Added From Work Orders Window

**#28110**

When a user added a job code to a project by selecting a work order in the Work Orders window, AMOS did not validate the job code to make sure no duplicates were created.

This has now been corrected.

### 3.2.91 Move Job Reference Generated Exception

**#28255**

Moving the references to a job description used on a round, to another job description in the register and then deleting the first job description would result in an exception message from the system and no changes were saved.

The the Move References option in the Job Descriptions register is now disabled, when the parameter to use job description revisions was set to TRUE and the selected job description already has an existing revision.

### 3.2.92 Issue Filtering Counter Log On Function

**#28145, 28368**

Filtering the Maintenance > Counter Log by function resulted in an exception.

This has now been corrected.

### 3.2.93 Option To 'Include On Next PM Work Order' Did Not Work

**#19446**

History added while reporting a work order with the option flagged to 'Include on Next P.M Work Order' did not appear in the printout for the next generated work order, if the Maintenance Type Editor was set to Enhanced.

This has now been corrected. The history will be included on the next printout if 'Include on Next P.M Work Order' is flagged, regardless of the editor in use.

### 3.2.94 'Max Counter Value Per Day' Check Option Added To Counter Type

**#10020, 26623, 26853**

The 'Max Counter Value per Day' check was performed against the average number of hours per day since the counter's start date.

This has now been expanded. The check can also be performed on the number of hours since the last counter update. When creating a counter type the user can select to perform the check on the counter's average value, its value at update or on average and update values. By default the check is set to average.

### 3.2.95 Quotation Compare Window Adjustments

**#23739**

Some adjustments have been made to the Quotation Compare window:

- after splitting a line on a form, it will be disabled on the matrix with option to show all/hide, and grouped separately to make it clear that it is no longer active.
- sorting the matrix has been disabled.

### 3.2.96 Copy Functions Feature Defaults

**#22837**

To prevent unnecessary duplication in the Function hierarchy, some default settings in the Copy Functions dialog have been reset.

The 'Parent' and 'Child' function options (which will also copy the related functions) are unchecked by default and the user must check them if needed. These two options have been moved to the bottom of the list and separated from the others.

### 3.2.97 Possible To Reschedule Work Order With Read Only Due Date

**#28476**

A user could still reschedule a work order in the Work Planning window even when the Due Date of the work order was rendered read-only through Field Level access.

This has now been corrected. Field level access settings correctly override group access settings and so a user who has been prevented from access to work order due dates via a field level access configuration will not be able to reschedule work orders in the Planner.

### 3.2.98 Payment And Delivery Terms Not Updated Upon Quotation Select

**#27899**

After selecting a quotation the vendor was updated on the relevant form, but any payment and delivery terms that were already registered there for another vendor were not updated to the selected vendor's specified terms. If no terms were already specified on the form, the selected vendor's still were not added.

A new option has been added in the Select Quotation dialog and when flagged (as by default) the form's payment and delivery terms will be updated to the vendor's terms. If the selected vendor does not have any terms, the terms on the form will be cleared. If the user unflags the

options, AMOS will work as before and so the form's terms will not be added or updated during quotation select.

# 4 Risk Management

A new module has been added with this release.

## 4.1 Risk Management Module Introduced

The new AMOS Risk Management module provides shipboard personnel with an interactive means to identify, record, analyse and safeguard against potential risks, assisting in meeting mandatory safety management objectives and helping to avert potential problems or accidents before they occur.

- Create fully customisable Likelihood/Severity matrices, selecting the 'Risk Index Method' and 'Risk Level Method' which AMOS will use to calculate risk index and level values during an assessment.
- Define a list of 'generic' Risk Scenario Types including hazards and safeguards, and link these types with the component jobs they apply to. Scenario/types and assessments can also be linked directly to existing work orders and requisitioned work. Distribute the types to the installations where they apply.
- Work orders are generated on-site with assessments for linked scenario/types in place. Create scenarios based on the types, and perform the risk assessments before reporting work orders.

Each of the main entities - Risk Matrix, Scenario Type, Scenario and Assessments - requires a customised work flow configuration to allow for issuing and revising records throughout the entire risk management and assessment process.The same scenario can be assessed multiple times as separate revisions.

**IMPORTANT: Issuing Revised Risk Scenario/Types Updates Links to Maintenance**

The link established between a Component/Type Job and a Scenario/Type is actually a link to a scenario/type revision. When a revision is eventually filed, the link is no longer valid and this could cause a non-conformity.

Upon issuing a new revision of either a risk scenario or a scenario type, AMOS will check for items linked to the previous revision and if any are found:

- the existing link will be replaced with a link to the new revision's ID, and
- the linked records will be updated automatically, with no notification to the user.

The Component Job table is usually updated regularly onboard. To avoid possible discrepancies with data in either direction, it is important that the selection files and/or replicating rules (for AMOS Replication and AMOS Replicator) exclude the fields RMScenarioID and RMScenarioTypeID when importing data in the office, if records already exist.

# 5 Quality & Safety

These release notes describe the enhancements and corrections made to AMOS Quality and Safety from version 9.3.00 to 10.0.00.

## 5.1 Enhancements

No enhancements have been made in this release.

## 5.2 Corrections

No corrections have been made in this release.

# 6 Personnel

These release notes describe the enhancements and corrections made to AMOS Personnel from version 9.3.00 to 10.0.00.

## 6.1 Enhancements

No enhancements have been made in this release.

## 6.2 Corrections

The following corrections have been made in this release.

### 6.2.1 Drag And Drop Attachments Functionality Unavailable

**#18114**

Dragging and dropping attachments onto records in the Personnel module windows was not available.

This has now been corrected and attachments can be dragged and dropped, when the user has read, edit and insert access to employee attachments.

### 6.2.2 Exiting AMOS While Crew Planner Was Open Caused Failure

**#11305**

If a user tried to exit AMOS while the employee Planner window was open, AMOS would not close correctly.

This has now been fixed.

### 6.2.3 Issues With Worksets

**#24996**

When creating a work set, AMOS did not include the employees who worked during the selected payroll period, and payroll was not calculated for completed services.

These issues have now been corrected.

### 6.2.4 Prevented From Adding Variable Transactions

**#22784**

Although it was possible to enter variable transactions for employees without a current service, the transactions could not be saved and no message was presented to the user.

This has now been corrected: AMOS will present a message that the employee does not have a current service and so the variable transaction cannot be added.

### 6.2.5 Totals From Separate Contracts Always Summarized In Payslip

**#25050**

When a crew member had two contracts on the same vessel during one period, for example by fulfilling two different ranks, AMOS would add up the amounts owed for the payroll and show

the overall total on the Payslip tab.

To allow for the option of keeping separate totals, a new parameter 'Summarise Payroll Transactions' has been added with values TRUE and FALSE. AMOS will consider and show amounts in the payslip accordingly.

### 6.2.6 Two Service Count For Payroll Calculation Period

**#25049**

If an employee had services in two ranks or on two vessels during the same period, the Payslip tab did not clearly indicate which rank or vessel each transaction came from.

This has now been corrected. Two new columns, 'Rank' and 'Vessel' have been added to the Payslip tab, to differentiate between transaction entries.

# 7 Unicode Compliance In AMOS Business Suite 10.0.00

## 7.1 Introduction

To meet the requirements of many customers and prospects SpecTec PD is proud to announce that this version of AMOS Business Suite (10.0.00) is the first version to support the entry of Unicode data.

The following sections in these Release Notes is intended as a brief overview of the requirements and considerations related to Unicode supported versions of AMOS. More resources are available - please refer to the following documentation:

- *Unicode Compliant Versions of AMOS*
- *Unicode Compliance Verification*

## 7.2 Information For Existing Customers

What does this mean to our existing customers, who upgrade to Unicode versions?

### *Database Schema Changes*

To achieve Unicode compliance, it is necessary to change the type of text fields to Unicode data types. Due to database backend limitations this means that the maximum field size needs to be reduced.

This applies to ALL existing AMOS installations - regardless of whether Unicode data is going to be entered or not.

### *Data Truncation*

The aforementioned database schema change means that in certain cases you need to update the AMOS database PRIOR to migrating to the new version.

The varchar columns in the current AMOS versions support up to 4000 characters:

varchar(4000) = 4000 bytes = depending on the character set, up to 4000 characters

Technically this means that all "varchar" columns will be converted to "nvarchar", with a maximum size of 2000 characters.

This applies to ALL existing AMOS installations - no matter if Unicode data is going to be entered or not.

### *Database Upgrade*

During an automatic upgrade from an older version to a new version, if the routine identifies text data which would be truncated, the upgrade will be prevented.

This is why it is fundamental to carry out a compliance check BEFORE initiating the upgrade on a production environment.

### *Database Unicode Field Length Compliance Check*

Please refer to the document *Unicode Compliance Verification* for an explanation of how to use the new Unicode Compliance Verification tool to perform a database field length compliance check.

### *Database Requirement For Unicode*

Successfully completing the migration does NOT mean that you can automatically use Unicode characters. To enter Unicode data into your AMOS database, it must meet the requirements listed below.

If Unicode support is required but your database does NOT meet these requirements, re-create and re-load the database. If no Unicode data will be entered, no action is required.

The supported database collations for Unicode are:

**ASA**

1. Collation Requirements

   ASA Database for AMOS with Unicode support should obtain following settings:

   CHAR collation UCA

   NCHAR collation UCA (default)

   Also, UTF8BIN is also acceptable for both.

2. DB Upgrade

- Unicode data entry required: If CHAR collation is non-Unicode type, then a new database should be created with CHAR collation UCA (or UTF8BIN) and data should be reloaded with full export/import (Sybase Upload Utility).
- Unicode data entry NOT required: CHAR collation could be any available on ASA.

**ORA**

1. Collation Requirements

   Oracle database for AMOS should obtain following NLS settings:

   Database Character Set AL32UTF8

   National Character Set AL16UTF16

2. DB Upgrade

- Unicode data entry required: If Oracle database instance with different collation than Database Character Set AL32UTF8 and National Character Set AL16UTF16 then oracle database instance should be recreated. Data content should be reloaded with full export/import (Oracle Export/Import utility).
- Unicode data entry NOT required: Database Character Set could be any available on Oracle.

**MSS**

1. Collation Requirements

   There are no requirements for collation. Any suitable collation for customer needs is acceptable.

2. DB Upgrade

- No specific actions are required.

### *Heterogeneous Fleet Environments*

Entering Unicode data may only begin when ALL vessels in the fleet have been updated to a Unicode compliant version. Customers can continue to enter data as they did before, using all of the characters they used prior to the upgrade.

Even when the office is upgraded to a newer version, they can only begin entering the Unicode characters after all databases have been updated as well (otherwise it will not be possible to interpret the entries).

## 7.3 Information For New Customers

We recommend that all new customer databases be created with Unicode compliant collation settings (see above). The AMOS database utilities will suggest the related settings as default.

## 7.4 Database Replication

### *General Note*

AMOS Business Suite < 10.0.00 databases do NOT support Unicode.

**This means that before starting to enter Unicode data into AMOS, it is a mandatory that ALL vessels in the fleet have been updated to a Unicode compliant version of AMOS.**

### *Native Import/Export*

AMOS's native import/export engine supports replication of Unicode data, as of the Unicode compliant versions of AMOS.

In both AMOS suites there is a parameter available for switching the replication file format from "Non-Unicode" to "Unicode". The "Unicode" file format can only be understood by the Unicode compliant AMOS versions, so it must ONLY be activated when the entire environment is Unicode compliant.

### *AMOS Replication*

AMOS Replication versions 6.4.00 and onwards, support replication of Unicode data.

We strongly recommend updating older installations of AMOS Replication to version 6.4.xx, even in the case that you are not going to enter Unicode strings.

Before installing a Unicode compliant version of AMOS, ensure that Replication 6.4.xx is installed on the site.

### *AMOS Replicator*

All versions of AMOS Replicator support replication of Unicode data.

## 7.5 Existing Customisations

As usual any customization or interface work must be checked, and then moved to Unicode compliance. Do this before the update is carried out in a production environment.

# 8 System Parameters

This section lists new system parameters implemented in this release. References to related entries in these Release Notes have been included where applicable.

See the User Documentation for AMOS Business Suite version 10.0.00 for further information about setting these parameters to enable certain aspects of new functionality.

## 8.1 Options

The following new parameters have been added to the Options folder at Tools > Configuration > Parameters > Options > .

### 8.1.1 'Manual Refresh Only'

> Options > General > Dashboard >

When set to TRUE will prevent all automatic refreshing of dashboard alerts at startup, department switch and the timed refresh interval set on the User Option 'Mailbox/Dashboard Check Interval'.

Default setting: FALSE

See section 2.2.19: Disabling Dashboard Refresh

### 8.1.2 'Converted Enhanced Text Type'

> Options > General > Editor >

The table ConvertedEnhancedText by default stores converted RTF data in BMP image files, and is updated whenever users change or print RTF data. To prevent the database from growing unnecessarily large, use this parameter to switch the cache mechanism off, or to select to store the RTF data images in the JPEG format which requires less space.

Default setting: BMP

See section 2.1.8: Editor - Converted Enhanced Text Type

### 8.1.3 'Enhanced Editor Defaults'

> Options > General > Editor >

This parameter allows you to define default values for the font and page size applied wherever the enhanced editor is in use.

See section 2.1.9: Enhanced Editor Defaults

### 8.1.4 'Report Use Plain Style'

> Options > General > Report >

This parameter allows you to choose to print AMOS reports in grey scale mode. By default the reports are printed in colour gradients. If this parameter is set to TRUE, reports will be printed in grey scale.

Default setting: FALSE

### 8.1.5 'Allow Windows Login Verification'

> Options > General > System Access >

Setting this parameter to TRUE allows any user with their AMOS Login ID defined to match their Windows login ID to enter their Windows password to log onto AMOS.

Default setting: FALSE

See section 2.1.5: Logging on with Windows Credentials

### 8.1.6 'Use In Purchase Quotation Compare'

> Options > General > Workflow >

This parameter enables use of custom defined work flows in the Quotation Compare Scenario window.

Default setting: FALSE

See section 3.1.2: Quotation Compare Scenario Functionality Expanded

### 8.1.7 'Use Revision'

> Options > General > Workflow >

This parameters allows for creating and using WorkFlow revisions. Once set to TRUE and revisions have been created, the setting cannot be changed back to FALSE.

Default setting: FALSE

See section 2.1.7: Work Flow Configuration Revisions

### 8.1.8 'Restrict Location Codes'

> Options > General >

Set to FALSE, AMOS continues to work as before and duplicate codes will be allowed. Set to TRUE, AMOS will prevent entering duplicated Location codes.

Default setting: FALSE

See section 3.1.32: Location Code Must be Unique

### 8.1.9 'Only Allow To Add Project WO For External Disciplines To Order Forms'

> Options > Maintenance >

This parameter determines whether a project job with any discipline assigned to it can be sub-contracted, or only those jobs with an 'external' discipline assigned.

Default setting: TRUE

See section 3.1.11: Projects: Selecting Work Orders to Add to Purchase Forms

### 8.1.10 'Summarise Payroll Transactions'

> Options > Payroll > General >

Set to TRUE and a crew member has two contracts on the same vessel, AMOS will add up the amounts owed for the payroll and show the overall total on the payslip. Set to FALSE AMOS will keep separate totals in the payslip.

Default setting: TRUE

See section 6.2.5: Totals From Separate Contracts Always Summarized in Payslip

### 8.1.11 'Best Purchase Price Evaluation Period'

> Options > Purchase >

To help establish the best possible purchase price on stock items and limit the records presented in the Purchase History window, a default time period (days, weeks, months) can be applied to individual stock classes, or set using this parameter. AMOS will then show the historical purchasing information and flag the best price for relevant stock inside of the set time frame only.

Default setting: M3

See section 3.1.5: Purchase History

### 8.1.12 'Inherit Delivery Priority From Purchase Form'

> Options > Purchase >

Set to TRUE, the priority on a purchase form will be inherited on any deliveries created for that form.

Default setting: FALSE

See section 3.1.8: Logistics Enhancements

### 8.1.13 'Line Items Displayed By Default'

> Options > Purchase >

The setting of this parameter determines which line items - active, cancelled and split - are shown by default on purchase forms, and how the window 'Show All' option works.

Default setting: ACTIVE

See section 3.1.10: Show Split Line Items

### 8.1.14 'Quotation Compare, Auto Create History'

> Options > Purchase >

Quotation Comparison history can be created manually or automatically. The changes which trigger automatic creation are controlled by this parameter.

Default setting: NEVER

See section 3.1.2: Quotation Compare Scenario Functionality Expanded

## 8.2 User Defined Fields

The following new user defined fields have been added to the folder at Tools > Configuration > Parameters > User Defined Fields > :

> Transport/Deliveries >

- transport.userdefdate1
- transport.userdefval1
- transport.userdefprice1
- transport.userdefprice2
- transport.userdefcurr1
- transport.userdefcurr2

> TransportLogistics >

- transportlogistics.udfforwarderreference
- transportlogistics.udfcomment1

> TransportDocLogistics >

- Transport Doc Logistics.udfforwarderreference
- Transport Doc Logistics.udfcomment1

# 9 Customisation

## 9.1 Changes To AMOS Hooks Functionality

In order to use Hooks, as of AMOS Business Suite version 10.0, a license key that contains the customisation license (amoshooks) is required.

The following new hooks have been added in AMOS 10.0.00:

| **Function Name** | **Arguments and Types** | **Return** |
|---|---|---|
| uf_email_login | Decimal{0} al_amosuserid<br>String as_amosloginid<br>Ref String as_logindetails | 1, 0, or -1 |
| uf_email_details | Ref String as_to<br>Ref String as_cc<br>Ref String as_bcc<br>Ref String as_subject<br>Ref String as_message | 1, 0, or - 1 |
| uf_project_itemchanged | String as_ColumnName<br>String as_OldValue<br>String as_NewValue<br>Decimal al_ProjectID | 0, 1, or 2 |

The new hook uf_email_login supports two mail protocols, MAPI and SMTP. MAPI has limitations such as the mail client needs to be running and the mail "profile" needs to be configured on the client.

Refer to the document '*AMOS Business Suite Vrs. 10.0.00 Hooks*' for more information.

# 10 Database

This section outlines the changes to database structure from AMOS Business Suite version 9.3.00 to version 10.0.00.

## 10.1 New Tables Including Fields

**NOTE:** New sharing settings have been added for all new tables, at Tools > Configuration > Parameters > Sharing > Tables > .

| **New Table** | **New Fields** |
|---|---|
| ImageIndicator | ImageIndicatorID<br>HotSpotID<br>IndicatorMaximum<br>IndicatorMinimum<br>VisualIndicator<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| NotificationConfiguration | NotificationConfigurationID<br>Code<br>Description<br>DeviceIdentification<br>ServerIdentification<br>Type<br>Status<br>ComPort<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| NotificationMessage | NotificationMessageID<br>NotificationConfigurationID<br>PhoneNumber<br>Subject<br>MessageText<br>Status<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| QuotationCompareHistory | QuotationCompareScenarioID<br>QuotationCompareHistoryID<br>CompareSnapshot<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| QuotationCompareItemCode | QuotationCompareItemCodeID<br>Code<br>Active<br>Quoted<br>InUse<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| QuotationCompareJunction | QuotationCompareJunctionID<br>QuotationCompareScenarioID<br>QuotationID<br>QuotationLineID<br>OrderLineID<br>CompareComment<br>AwarderQuantity<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| QuotationCompareLineCode | QuotationCompareLineCodeID<br>QuotationCompareScenarioID<br>QuotationLineID<br>QuotationCompareItemCodeID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMAssessment | RMAssessmentID<br>RMScenarioID<br>Status<br>WorkFlowStatusID<br>CreatedBy<br>CreatedDate<br>AssessedBy<br>AssessedDate<br>CancelledBy<br>CancelledDate<br>FiledBy<br>FiledDate<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMAssessmentActionLog | RMAssessmentActionLogID<br>RMAssessmentID<br>Description<br>LogNotes<br>DueDate<br>CompletedDate<br>ResponsibleID<br>Status<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMAssessmentImpact | RMAssessmentImpactID<br>RMAssessmentValueID<br>RMImpactAreaID<br>RMSeverityID<br>Certainty<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMAssessmentValue | RMAssessmentValueID<br>RMAssessmentID<br>RMScenarioConsequenceID<br>RMLikelihoodID<br>RiskValue<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMCategory | RMCategoryID<br>RMClassID<br>Code<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMCause | RMCauseID<br>RMCauseTypeID<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMCauseType | RMCauseTypeID<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMClass | RMClassID<br>Code<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMConsequence | RMConsequenceID<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMGroup | RMGroupID<br>RMCategoryID<br>Code<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMHazard | RMHazardID<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMHazardCause | RMHazardCauseID<br>RMHazardID<br>RMCauseID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMHazardConsequence | RMHazardConsequenceID<br>RMHazardID<br>RMConsequenceID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMImpactArea | RMImpactAreaID<br>Description<br>Active<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMLikelihood | RMLikelihoodID<br>RMMatrixID<br>Code<br>Description<br>Value<br>LikelihoodNotes<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMLossCategory | RMLossCategoryID<br>Description<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMMatrix | RMMatrixID<br>Code<br>Description<br>RevisionNo<br>Status<br>AcceptanceLevel<br>WorkFlowStatusID<br>OldRevisionMatrixID<br>CreatedBy<br>CreatedDate<br>IssuedBy<br>IssuedDate<br>FiledBy<br>FiledDate<br>DefaultMatrix<br>LayoutID<br>Notes<br>RiskIndexMethod<br>RiskLevelMethod<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |

| New Table | New Fields |
|---|---|
| RMMatrixCell | RMMatrixCellID<br>RMMatrixID<br>RMLikelihoodID<br>RMSeverityID<br>RMRiskIndexAcceptabilityID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMRiskIndexAcceptability | RMRiskIndexAcceptabilityID<br>RMMatrixID<br>SequenceNo<br>Description<br>ColourRGB<br>IndexNotes<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMRiskLevelAcceptability | RMRiskLevelAcceptabilityID<br>RMMatrixID<br>FromValue<br>ToValue<br>Description<br>ColourRGB<br>LevelNotes<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeSafeguardNote | RMScenarioTypeSafeguardNoteID<br>RMScenarioTypeID<br>Description<br>SafeGuardNotes<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMScenarioTypeSafeguardProc | RMScenarioTypeSafeguardProcID<br>RMScenarioTypeID<br>ProcedureHeadID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenario | RMScenarioID<br>Code<br>Name<br>RMScenarioTypeID<br>Description<br>RMGroupID<br>RMMatrixID<br>RevisionNo<br>Status<br>WorkFlowStatusID<br>OldRMScenarioID<br>CreatedBy<br>CreatedDate<br>IssuedBy<br>IssuedDate<br>CancelledBy<br>CancelledDate<br>FiledBy<br>FiledDate<br>UDFText1<br>UDFDate1<br>Notes<br>LayoutID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| RMScenarioCause | RMScenarioCauseID<br>RMScenarioHazardID<br>RMCauseID<br>FromType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMScenarioConsequence | RMScenarioConsequenceID<br>RMScenarioHazardID<br>Description<br>RMConsequenceID<br>RMLossCategoryID<br>FromType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioHazard | RMScenarioHazardID<br>RMScenarioID<br>RMHazardID<br>FromType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioSafeGuardImg | RMScenarioSafeGuardImgID<br>RMScenarioID<br>FromType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioSafeGuardNote | RMScenarioSafeGuardNoteID<br>RMScenarioID<br>Description<br>SafeGuardNotes<br>FromType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioSafeGuardProc | RMScenarioSafeGuardProcID<br>RMScenarioID<br>ProcedureVersionID<br>FromType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMScenarioType | RMScenarioTypeID<br>Code<br>Name<br>RMGroupID<br>RMMatrixID<br>RevisionNO<br>Status<br>WorkFlowStatusID<br>OldRMScenarioTypeID<br>CreatedBy<br>CreatedDate<br>IssuedBy<br>IssuedDate<br>CancelledBy<br>CancelledDate<br>FiledBy<br>FiledDate<br>UDFText1<br>Notes<br>LayoutID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| RMScenarioTypeAvailable | RMScenarioTypeAvailableID<br>RMScenarioTypeID<br>AvailableDeptID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeCause | RMScenarioTypeCauseID<br>RMScenarioTypeHazardID<br>RMCauseID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMScenarioTypeConsequence | RMScenarioTypeConsequenceID<br>RMScenarioTypeHazardID<br>RMConsequenceID<br>RMLossCategoryID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeDistrGroup | RMScenarioTypeDistrGroupID<br>RMScenarioTypeID<br>AvailableGroupID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeDistrInst | RMScenarioTypeDistrInstID<br>RMScenarioTypeID<br>AvailableInstID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeHazard | RMScenarioTypeHazardID<br>RMScenarioTypeID<br>RMHazardID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeSafeGuardImg | RMScenarioTypeSafeGuardImgID<br>RMScenarioTypeID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMScenarioTypeSafeguardProc | RMScenarioTypeSafeguardProcID<br>RMScenarioTypeID<br>ProcedureVersionID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| RMScenarioTypeTeamMember | RMScenarioTypeTeamMemberID<br>RMScenarioTypeID<br>UserID<br>Name<br>MemberNote<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMSeverity | RMSeverityID<br>RMMatrixID<br>Code<br>Description<br>Value<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RMSeverityNote | RMSeverityNoteID<br>RMSeverityID<br>RMImpactAreaID<br>SeverityNotes<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| RoundTrigger | RoundTriggerID<br>JobTriggerID<br>RoundID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| SQLCommand | SQLCommandID<br>SQLCmd<br>TableName<br>ErrorText<br>SessionID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |

| New Table | New Fields |
|---|---|
| TransportDocLogistics | TransportDocLogisticsID<br>TransDocID<br>CurrentLocation<br>ForwarderID<br>ReceivedForwarder<br>UDFForwarderRef<br>ForwarderConfirmation<br>DestinationAddressID<br>DestinationDeliveryPlaceID<br>DestinationPortID<br>DestinationVoyagePartID<br>DefaultDestination<br>ReceivedDestination<br>DestinationFromStatus<br>DestinationToStatus<br>Location<br>UDFComment1<br>LocationSequence<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| TransportLogistics | TransportLogisticsID<br>TransportID<br>CurrentLocation<br>ForwarderID<br>ReceivedForwarder<br>UDFForwarderReference<br>ForwarderConfirmation<br>DestinationAddressID<br>DestinationDeliveryPlaceID<br>DestinationPortID<br>DestinationVoyagePartID<br>DefaultDestination<br>ReceivedDestination<br>DestinationFromStatus<br>DestinationToStatus<br>Location<br>UDFComment1<br>LocationSequence<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

| New Table | New Fields |
|---|---|
| WorkFlowRevision | RevisionID<br>ModuleID<br>Title<br>Description<br>CreatedDate<br>CreatedBy<br>ApprovedDate<br>ApprovedBy<br>ChangeReason<br>Status<br>ObsoleteDate<br>ObsoleteBy<br>Revision<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |
| WorkOrderAssessment | WorkOrderAssessmentID<br>RMAssessmentID<br>WorkOrderID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC |

## 10.2 New Fields In Existing Tables

| Existing Table | New Fields |
|---|---|
| Accident | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| AccidentDamageReport | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| AccidentReport | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Address | MobilePhone<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| AuditTrailLog | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| BudgetCode | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| BudgetCodeDef | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Claim | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ColumnInfo | HandlingRule |
| CompJob | UseRiskAssessment<br>AllowPrevAssessment<br>RMScenarioTypeID<br>RMScenarioID<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| CompJobCopy | UseRiskAssessmentCopy<br>AllowPrevAssessmentCopy<br>RMScenarioTypeIDCopy |
| ComponentType | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ComponentUnit | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| CompTypeJob | UseRiskAssessment<br>AllowPrevAssessment<br>RMScenarioTypeID |

| Existing Table | New Fields |
|---|---|
| ConfigWindow | LongFilterCriteria<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ContractDeliveryPlace | DestinationID<br>DeliveryPortID<br>VoyagePartID<br>DefaultDelivery |
| ContractItemDiscount | DefaultDelivery |
| Convention | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ConvertedEnhancedText | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| CounterType | MaxDailyCheckType |
| CustomClearanceContract | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| CustomClearanceForm | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| DataWindowDetail | LongModifyString<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| DeliveryTerm | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| DocTemplate | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| EmpImageDoc | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Employee | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| EmpPicture | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| EmpRemark | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| FailureDescription | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| FailureDetectionsMethod | ExportMarkerBlob<br>LastUpdatedBlobUTC |

| Existing Table | New Fields |
|---|---|
| FailureEffect | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| FailureMode | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| FailureSeverity | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| FailureWorkOrder | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| FilterDefinition | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Functions | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| History | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| HistoryArchive | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ImageCertificate | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ImageFile | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ImageNextOfKin | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Images | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ImportExportSchedule | ErrorUserID |
| InstCompany | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| JobDescription | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| JobVersion | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Layout | LayoutType<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| MaintenanceLog | ExportMarkerBlob<br>LastUpdatedBlobUTC |

| Existing Table | New Fields |
|---|---|
| MaintenanceLogArchive | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Manual | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| MobileSubscriptionCriteria | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| MultiVendor | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| NonConfDetail | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| OrderForm | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| OrderFormPortal | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| OrderLine | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| OrderPriority | UseInTransport |
| OverviewPanelGauge | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| PaymentTerm | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| PortalLog | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| PredefinedFilterCriteria | LongAttributeValue<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ProcedureDocVer | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Project | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| ProjectAccess | ProjectStatus<br>Active |
| ProjectDetail | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| PurchaseContract | ExportMarkerBlob<br>LastUpdatedBlobUTC |

| Existing Table | New Fields |
|---|---|
| QACode | Indicator<br>PrintDescription<br>Description<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| QACodeCategory | AllowMultipleStockGrades |
| QualityCheckFormLog | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| QualityCheckLog | TransferLineID<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Quotation | Notes<br>LayoutID<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| QuotationCompareBestSelect | QuotationLineID<br>AdditionalCostQuotationID |
| QuotationCompareScenario | LayoutID<br>Notes<br>WorkflowStatusID<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| QuotationLine | Name<br>RelatesType<br>RelatesToID |
| QuotationPortal | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| RotationLog | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Round | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| SpareType | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| SpareUnit | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| StockClass | FrequencyPeriod<br>Frequency |

| Existing Table | New Fields |
|---|---|
| TMSAKPI | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| TMSAScore | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| TransferDocument | PrintedBy<br>PrintedDate<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| TransferLine | UpdateStockLevel<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Transport | OrderPriorityID<br>ETAOnSite<br>UserDefDate1<br>UserDefCurr1<br>UserDefPrice1<br>UserDefCurr2<br>UserDefPrice2<br>UserDefVal1<br>Notes<br>LayoutID<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| TransportDocument | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| TransportPortal | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| VesselDetails | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| VMMCargo | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| VMMCargoOperation | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| VMMNoonReport | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| VMMVoyage | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| Voucher | ExportMarkerBlob<br>LastUpdatedBlobUTC |

| Existing Table | New Fields |
|---|---|
| WindowProperty | LongPropertyValue<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |
| WorkFlowLockType | RevisionID<br>OldRevisionLockTypeID |
| WorkFlowMailbox | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| WorkFlowModuleDiagram | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| WorkFlowStatus | RevisionID<br>OldRevisionStatusID |
| WorkFlowTransform | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| WorkOrder | ExportMarkerBlob<br>LastUpdatedBlobUTC |
| WorkPermit | ExportMarkerBlob<br>LastUpdatedBlobUTC |

## 10.3 Renamed Columns

No columns have been renamed in this release.

| Table/Column | New Column Name |
|---|---|
| | |
| | |