


# AMOS Business Suite

**Version 10.3.00**

## Release Notes

Revision 2, November 2019

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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 version 10.0.00 access to the Hooks which allow customising and extending AMOS Business Suite functionality, is 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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**AMOS Business Suite supports the entry of Unicode data as of version 10.0.00. Refer to the Release Notes for that version, for an overview of the requirements related to upgrading to a 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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**The redistributable of Microsoft C++ 2010 (x86) is a pre-requisite of Xgantt.ocx.**

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**To avoid any possible issues (unrelated to AMOS) that could arise after installing a new version of Microsoft Office, ensure that any previous version of MS Office has been fully removed from the system before beginning a new installation.**

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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.**

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**A new parameter has been introduced with version 10.1.00 (Default Settings > 'Weight Identifier'). To avoid issues with your system, it is necessary to set a value on it after upgrade to version 10.1.00 or above.**

# 1 Compatibility

## 1.1 Testing

**The AMOS Business Suite version 10.3.00 has been tested on the following:**

| SQL Anywhere 17<br>17.0.10.5771 | Oracle 12c<br>12.2.0.1.0 | Oracle 18c<br>18.0.0.0.0 | MS SQL 2012<br>11.0.0.7001.0 | MS SQL 2014<br>12.0.6024.0 | MS SQL 2016<br>13.00.0.4001.0 | MS SQL 2017<br>14.0.1000.169 |
|---|---|---|---|---|---|---|
| Windows 2008 Server Enterprise Edition | | | | | | |
| X | | | X | | X | |
| Windows 2012 Server Enterprise Edition | | | | | | |
| X | | | | X | | |
| Windows 10 Pro | | | | | | |
| X | X | | | | X | |
| Windows 2016 Server | | | | | | |
| X | | 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 Support

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

**Regarding MS SQL, AMOS Business Suite 10.3.00 provides support through both the ODBC and SQL Native Client, SpecTec suggests to use the latter driver,**

**The AMOS Business Suite version 10.3.00 supports the following:**

| OS | DBMS |
|---|---|
| Windows 7 with SP1 | SAP SQL Anywhere 12.0/16.0/17.0 |
| Windows 8.1 | Oracle 11g/12c |
| Windows 10 | Microsoft SQL Server 2008/2012/2014/2016 |
| Windows 2008 Server with SP2 | |
| Windows 2012 Server | |
| Windows 2016 Server | |

## 1.3 Windows Operating Systems

**The development environment of the AMOS Business Suite and its third party components officially supports Windows 7, Windows 8, Windows 10, Windows 2008 with SP2, Windows Server 2012 and Windows Server 2016 Operating Systems.**

**Be aware that AMOS products rely on third party components and that these must also comply with these Windows versions. 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***

**While installing AMOS, 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.'**

## 1.4 Other

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

Microsoft Office Outlook 2013

Microsoft Office Outlook 2016

Microsoft Office 365

AMOS Mail version 9.0 and 9.7

**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 Extended Search could be enabled installing the following components:**

Oracle Java JRE version 8, 32 bit.

**AMOS Business Suite version 10.3.00 is compiled using:**

Appeon PowerBuilder version 2017 R3 Build 1880

# 2 Framework

These release notes describe the enhancements and corrections made to the AMOS Business Suite Framework functionality from 10.2.01 to 10.3.00.

## 2.1 Enhancements

The following enhancements have been made in this release.

### 2.1.1 Extended Search

**FD#73, FD#88**

Extended Search is the new way to look for Amos Data, expanding the capability of Standard Filter.

This feature takes advantage of a Java Based Search Engine to retrieve all desired data for a specific Context.

The Extended Search feature is actually available for on Work Orders, Component Types, Component Unit, Functions, Stock Types, Stock Items and Purchase Forms; in future it will be expanded to other windows

Keeping Work Order as example, it is possible to search for one or multiple words that could be present in the title of the Work Order, in the Component Name, in the Function Name or even inside the Job Description Details, configuring properly its entity, namely the several AMOS related tables connected to the context itself.

Furthermore, Extended Search supports Autocomplete facility to increase its usability.

In order to retrieve the results Extended Search Engine creates and uses its own Indexes, built based on Configured Entities.

These indexes are created by Master Index Server storing them in specific files, separated from DB In order to reduce performance impact, then these are replicated to the various client, at each update of the information related to the context.

### 2.1.2 Multiple Sort And Filter

**FD#4318**

The feature is similar to the one available in Microsoft Excel.

The functionality allows to order the data on the list clicking on the related column, but now it is possible to sort on differeent columns using CTRL button, introducing addition levels that were indicated with a number close to the column label identifier.

Therefore, on most used registers, it is now present an filter icon on all the fields that allows to access to multifilter feature.

Clicking on it, the system presenting list of all values in the column, with individual selection checkboxes, tagging the desired ones, the system will update accordingly the list with only the ones selected.

It is also possible to access advanced mode where it is possible to configure specific criteria filtering according to the column data type (string, numeric, date)

When a filter is applied on a column, the multifilter indicator becomes red.

Clear filter option is available to return back to complete list.

### 2.1.3 New Hooks

**FD#6142**

New Hooks are available from this Verrsion:

uf_filter_criteria:

This hook is called each time a column in a filter is processed, at this stage the customizer can choose to override, alter or extend the generated where statement.

uf_response_window_access:

called before checking access for a response window; this hook can be used to inherit the access from the parent of a customized window.

uf_sheet_window_access:

called before checking access for a sheet window; this hook can be used to inherit the access from the parent of a customized window.

### 2.1.4 Microsoft Office 365 Support

**FD#12401, FD#11949**

Microsoft Office 365 is supported from AMOS Business Suite 10.3.00.

The Send Mail process is managed now by Outlook Connector, it is necessary to properly configure the ini file to activate the functionality, please refer to AMOS Installation Guide for better details.

### 2.1.5 Microsoft SQL Server Native Client Support

**FD#4590, FD#9797, FD#8665, FD#4590**

Native Client is now supported to connect to a Microsoft SQL Server Database, please refer to AMOS Installation Guide for better details in order to configure the .ini file.

## 2.2 Corrections

The following corrections have been made in this release.

### 2.2.1 Audit Trail Issue

**FD#8900**

Configuring Audit Trail, when the full options (insert, edit and delete) were not selected for all the columns in the configuration for a single table, the consequent generated triggers did not track the information associating to the correct field.

This has now been corrected.

### 2.2.2 Unlock Account External Tool

**FD#10844**

There was a fatal error opening Unlock Account Program.

This has now been corrected.

### 2.2.3 Error Opening Attachments When Graphics Has Specific Sharing Settings

**FD#4674**

When Graphics directory is set on a specific department, but the parameter has a different configuration at global level, in this case, the file is copied to the correct folder, but when it is necessary to view the attachment, the system search the file in the directory set in the Global Setting..

This has now been corrected.

### 2.2.4 Missing Clean Up Of Activesessions On Oracle AmosLogin

**FD#12250**

On Oracle Amoslogin Procedure missed a part of the code regarding the “clean up” of dead connections on activesessions, this leaded to possible issues on login due to license overconsumption.

This has now been corrected.

# 3 Maintenance & Purchase

These release notes describe the enhancements and corrections made to AMOS Business Suite Maintenance and Purchase functionality from 10.2.01 to 10.3.00.

## 3.1 Enhancements

The following enhancements have been made in this release.

### 3.1.1 Manage Note Field To Include On Next Work Order

**FD#781**

A new Tab was introduced on Report Work where it will be possible to insert comment that will be available on the next Work Order on "Comments from Previous WO" Tab.

### 3.1.2 Extend Graphic Indicators To Work Order Priority

**FD#6129**

It is now possible to assign graphic indicators also to Work Order Priority, configuring the following menu Open Register > Maintenance > Priority Indicators

### 3.1.3 Stock Type Filter: Grade Code Should Depend From Its Category

**FD#9771**

Opening Stock Type Filter, if a Stock Grade Category is selected, the drop down of Stock Grade Codes now lists only the Codes belonging to that specific Category

### 3.1.4 Total Amount On Quotation Line Calculated In Also In Current Currency

**FD#635**

On quotation line Total was calculated in Base Currency Only, now an additional calculated field is added for Total in Current Currency.

### 3.1.5 Job Description On Workorder Window

**FD#2137, FD#4488**

Job Description is now present on Workorder General Tab.

## 3.2 Corrections

The following corrections have been made in this release.

### 3.2.1 Maintenance Log Editable For Users With Read Access Only

**FD#5242**

Logging in with a user having Read Access Right only on Maintenance Log, it was possible to edit History and Resource used from corresponding tabs.

This has now been corrected.

### 3.2.2 Link Stock Class To Order Form Content Parameter Does Not Work

**FD#5602**

Setting "Link Stock Class to Order Form Content" Parameter to TRUE did not activate correspondent drop-down in Stock Class Register.

This has now been corrected.

### 3.2.3 Missing Items Expanding Contract Items Hierarchy

**FD#8554**

Opening Purchase > Contracts > Contract Items Tab, on Contract with a large number of items, it was not possible to scroll down to the end of full expanded list.

This has now been corrected, introducing a limit of 300 items per group and showing only one group per time.

### 3.2.4 Validation Issue Using Stock Items On Report Work

**FD#8587**

When"Allow Removal of more Item than In Stock" Parameter is set to FALSE, reporting a Work Order when Used Quantity is greater than In Stock, a message appears preventing to proceed.

At that point modifying the used quantity setting again it to zero, the error is not expected to be present anymore, but it was still displayed.

This has now been corrected.

### 3.2.5 Wrong Order Line Sequence During Receive Order

**FD#8978**

Receiving a Purchase Order, the lines were not presented following item number sorting.

This has now been corrected.

### 3.2.6 Component Type Validation Error

**FD#8027**

**Trying to insert more than 40 symbols in Component Type Hierarchy Window, a data error message was displayed.**

This has now been corrected.

### 3.2.7 Purchase Workflow Standard Action Issue

**FD#8290**

**Applying a Transformation on Purchase WorkFlow wirh Standard Action Print, the focus change to first orderform in the list**

This has now been corrected.

### 3.2.8 Error Setting Predefined Fields On Stock Type Vendor

**FD#6697**

**Configuring a Private user Defined Field for Stock Type Vendor, when this window is reopened, this to a Syntax Error retrieving the code of the Predefined Field itself.**

This has now been corrected.

### 3.2.9 Stock Type Number Rule Issue

**FD#7801**

**Setting a number rule for a Stock Item having "Use Stock Types" Parameter set to FALSE, the code was not generated according to configuration.**

This has now been corrected.

### 3.2.10 Cannnot Update Counters Even With A Particular Access That Should Allow It

**FD#10893**

**Users belonging to Groups with Read Access on Components and Execute Access on Counters are not allowed to update counters using the buttons that are designed to perform this action.**

This has now been corrected.

### 3.2.11 Job Specific Details Down Arrow Missing In Function And Component Hierarchies

**FD#11417**

In Function and Component Hierarchies, the lower arrow was missing to scroll through the job specific details.

This has now been corrected.

### 3.2.12 Job Description Revision Was Editable

**FD#12371**

Opening Job Description Register, creating a new revision, it was possible to edit the revision field, even inserting a text.

This has now been corrected.

### 3.2.13 Missing Copy Budget Icon On Toolbar

**FD#10072**

Logging in with a user that have access to copy budget, the relevant. icon is missing from the Toolbar

This has now been corrected.

### 3.2.14 Issue During DB Upgrade Process

**FD#9855**

During DB upgrade process, if the original department with deptid = 1 was deleted, it is necessary to insert it again before the upgrade, then after its completion, if necessary it could be removed again.

### 3.2.15 First Transaction Created Is Greyed Out

**FD#8442**

Selecting a Stock Item and inserting a Stock Transaction from relevant tab, this was not editable, it was necessary to create another transaction to be able to modify it.

This has now been corrected.

### 3.2.16 Quotation Decimal Places

**FD#11077, FD#4997, FD#7490, FD#8121**

On Quotation, quotation price was displayed with 6 decimals, instead of 2.

This has now been corrected, only tooltip now displays the full 6 decimal value.

### 3.2.17 Estimated Misc. Cost Issue On Project

**FD#36257**

Estimated Miscellaneous cost was not properly calculated in Project Cost Overview,

This has now been corrected.

# 4 System Parameters

The following new system parameters have been added in this version.

## Directory Settings

Tools > Configuration > Parameters > Directory

**Index Client Directory**

This directory defines where the Client Indexes are located.

See "Enhancements" on page 6.

**Index Server Directory**

This directory defines where the Master Indexes are located.

See "Enhancements" on page 6.

## Extended Search

Tools > Configuration > Parameters > Options > Extended Search

**Enable Extended Search**

Setting this to TRUE activates the functionality, starting the generation of the indexes and displaying the extended search visual control in the filter. Possible values: True, False.

See "Enhancements" on page 6.

**Extended Search Log Mode**

This parameter manages the log level.

- NOTHING, no log is created
- ERROR only issues are included in AmosExtedSearch.log located in AMOS Installation Folder
- INFO all information are included in AmosExtedSearch.log

Possible values: Nothing, Error, Info.

See "Enhancements" on page 6.

**Index Replication Frequency**

This parameter indicates the frequency (expressed in minutes) used by the Master Index Service to update indexes, this is also used by AMOS to reopen the local ones.

See "Enhancements" on page 6.

**Index Server Address**

This parameter identifies the host where the Amos Replication Client should connect to replicate (e.g. the server host name as MyServerHostName or its IP address as 10.22.4.1).

See "Enhancements" on page 6.

**Requisition work, Report Attachments by Default**

This parameter controls whether the Report Attachments option when reporting requisition work orders is switched on or off by default. It's possible to override the default setting on a

requisition work order itself or from the Requisition Work dialog window. The default setting is taken from the value set on 'Report Attachments by default'. Possible values: True, False.

See "Enhancements" on page 6.

This parameter indicates the port where the service should listen and Amos Client have to connect for replicating indexes.

# 5 Database

This section outlines the changes to database structure from AMOS Business Suite version 10.0.30 to version 10.1.00.

## 5.1 New Tables Including Fields

**NOTE:** New sharing settings have been added for all new tables, at Tools > Configuration > Parameters > Sharing > Tables, except the ones that does not contain DeptID field.

| **New Table** | **New Fields** |
|---|---|
| PriorityIndicator | PriorityIndicatorID<br>Priority<br>IndicatorFile<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |
| SearchContextConfig | SearchContextConfigID<br>TableInfoID<br>EntityQuery<br>EntityQueryUpdCheck<br>ResultSetPBL<br>ResultSetDataObject<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite<br>ExportMarkerBlob<br>LastUpdatedBlobUTC |

| New Table | New Fields |
|---|---|
| SearchIndexLog | SearchIndexLogID<br>Performed<br>Sequence<br>Status<br>LogMessage<br>Hostname<br>Type<br>Amosversion<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |
| WebForm | WebFormID<br>Code<br>Name<br>Status<br>Description<br>JSONSource<br>ApplicationID<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |
| WebFormRender | WebFormRenderID<br>WebFormID<br>FileType<br>FileContent<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |

| New Table | New Fields |
|---|---|
| JobDescWebForm | JobDescWebFormID<br>JobDescID<br>WebFormID<br>SortOrder<br>TemplateType<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |
| MaintLogWebForm | MaintLogWebFormID<br>MaintLogID<br>JobDescWebFormID<br>JSONSource<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |
| MaintLogWebFormRender | MaintLogWebFormRenderID<br>MaintLogWebFormID<br>FileType<br>FileContent<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>ExportMarkerBlob<br>LastUpdatedBlobUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |

| New Table | New Fields |
| --- | --- |
| QuotationCompareContractLn | QuotationCompareContractLnID<br>OrderLineID<br>QuotationCompareContractID<br>UnitID<br>Quantity<br>Factor<br>Price<br>CurrencyCode<br>DeptID<br>ExportMarker<br>LastUpdated<br>LastUpdatedUTC<br>LastTouchedUTC<br>LastImportedUTC<br>UpdateSite |

## 5.2 New Fields In Existing Tables

| Existing Table | New Fields |
|---|---|
| CompTypeCounter | AverageCalcMethod |
| CompCounter | AverageCalcMethod |
| ComponentType | AvailableForDefects |
| Workorder | JobDescID<br>NextWOComment<br>PrevWorkOrderID<br>VisualInspection |
| WoJob | JobDescID |

Therefore the following fields were introduced in all the tables:

- LastTouchedUTC
- LastImportedUTC
- UpdateSite

Except the tables below listed:

- ActiveDesktopQueue
- ActiveDesktopRule
- ActiveDesktopRuleUser
- ActiveSessions
- ApplicationInfo
- ARaddress_book
- ARapp_version
- ARobj_application
- ARobject
- ARref_error
- ARref_error_field
- ARReg_section
- ARReg_section_value
- ARreg_sys_par
- ARrepl_audit
- ARrepl_field
- ARrepl_obj

- ARRepl_schedule
- ARSetting_section
- ARSetting_section_value
- ARsite_setup
- ARts_ab_audit
- BlobTransfer01
- ClientFields
- ClientUpgrade
- ClientUpgradeFile
- CompJobReschedule
- ConfigWindow
- DatawindowDetail
- Days
- DBError
- DefaultScreenConfig
- DefaultUserOption
- DeleteLog
- DeleteLogP
- elc_tables
- HelpFile
- HistoryArchive
- ImportExportLog
- ImportExportSchedule
- MaintenanceLogArchive
- MobileConsConnection
- MobileDevice
- MobileImpExpTask
- MobileIncomingTask
- MobileSubscriptionCriteria
- MobileSubscriptionLog
- MobileSynchronisation

- ObjectWindow
- Portal
- PortalFormat
- PortalLog
- PredefinedFilter
- PredefinedFilterCriteria
- PredefinedFilterGroup
- Printer
- PrinterJob
- PrinterTask
- ScreenConfig
- ScreenConfigGroup
- sys_datawindows
- sys_module_group
- sys_props
- sys_query
- sys_window_help
- SystemError
- SystemInfo
- SystemModule
- temp1
- TempTable
- UpgradeInfo
- UserOption
- UserOptionSetting
- VoucherChanges
- VoucherLineChanges
- WindowProperty