SAP Business One
How-To Guide

PUBLIC

SDK Compatibility Issues in SAP Business One

Applicable Release:

SAP Business One 8.8

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All Countries

English

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Purpose

This document lists known compatibility issues for add-ons that are run in SAP Business One 8.8. The issues involve add-ons that were built for releases prior to 8.8 and are now being run in the new release.

The issues also affect existing installations that run add-ons and that are upgrading to 8.8.

The issues involve changes in the application – such as menu changes and new exceptions – as well as to the SDK.

Note

Add-ons that use the `RecordSet` object (for unexposed objects) and that are dependent on the database structure may face additional compatibility issues not listed here.

Additional Information

For compatibility issues from previous releases, see the main SDN page for the following releases:

- SAP Business One SDK Version 2007
- SAP Business One SDK Version 2005 A SP1
- SAP Business One SDK Version 2005

For additional changes to the Stock module, see *Enhancements in Inventory Management* at http://channel.sap.com/sbo/documentation.

For a complete list of changes to the user-interface and the database schema, see the GUI and DB change list (XML files) in the SAP Business One area of SDN.

For changes in patches of 8.8, see the release information for each patch.

Business Logic

This section describes compatibility issues related to the application's business logic.

Master Data

Topic	Description
Setting status of item, business partner, and account	Previously, two checkboxes were used to set the status of an item, business partner, and account: • *Active* or *Valid* • *On Hold* For each selected checkbox, you could enter a date range. A user could enter both an active and inactive date range, and they could overlap. In 8.8, the status is controlled by three radio buttons: • *Active* • *Inactive* • *Advanced* For *Active* and *Inactive*, you can specify a date range. For *Advanced*, you can enter both an active date range and inactive date range, but they cannot be the same range. In addition, the way the application handles active/inactive items, business partners and accounts has changed: • In the *Item Master Data* form, the *Cancel* and *Restore* options are removed. • Item, business partner and account *Choose from List* windows no longer show inactive objects. • Previously, reports included all items and business partners. In 8.8, there is a setting to determine if inactive items and business partners are included. The setting is at *Administration → System Initialization → General Settings.* The logic of the `Cancel` method of the `Item` object has changed. Calling `Cancel` is equivalent to a user in the application setting the item to inactive without setting a date range.
Deleting contact person/address for business partners	When a user deletes a contact person or address in the *Business Partners Master Data* form, a warning dialog is now displayed.
Deleting a warehouse	Previously, a warehouse could not be deleted if it was associated with an item. In 8.8, you can delete a warehouse associated with an item as long as the item has no inventory transactions.
Attaching series	Previously, it was possible to attach a series to all valid business objects, using the `SeriesService` object. In 8.8, you can only attach series to valid objects, such as marketing documents.

Topic	Description
Inactive items in price lists	Previously, inactive (canceled) items were filtered out of price list forms. In 8.8, all items are shown in price list forms.
COFINS tax category	Previously, the valid value for the tax category COFINS was **-9**. The tax categories are managed with the form *Administration* → *Setup* → *Financials* → *Tax* → *Tax Types* form. In 8.8, the value is **-10**.
***BusinessPartners Cancel()* method**	The `Cancel()` method of the `BusinessPartners` object is no longer supported, and now throws an exception when called.

***SpecialPrices.Cardcode* property**	Previously, using the DI API `SpecialPrices`, you could add a special price for a price list by specifying the price list in the `CardCode` property, preceded by an asterisk, as follows:
	`oSPP.ItemCode = "I001"`
	`oSPP.CardCode = "*1"`
	`oSPP.PriceListNum = 1`
	`oSPP.Price = 100`
	`oSPP.Add()`
	In 8.8, you specify a special price for a price list by specifying the price list in the `PriceListNum` property and leaving the `CardCode` property empty, as follows:
	`oSPP.ItemCode = "I001"`
	`oSPP.PriceListNum = 1`
	`oSPP.Price = 100`
	`oSPP.Add()`

Finance

Topic	Description
Setting foreign currency in journal entry/journal voucher lines	Previously, after modifying the local currency value in a journal entry/journal voucher line, the foreign currency value in that line was recalculated. In 8.8, the value is still recalculated for upgraded companies. For newly created companies, the value is not recalculated by default. To restore the old behavior, go to the *Journal Entry/Journal Voucher* form, and then display the *Form Settings* form. On the *Document* → *Table* tab, select the *From LC Field* checkbox.
Aging report	The aging report, available at *Financials* → *Financials Reports* → *Accounting* → *Aging*, has been changed as follows: • The UID of the selection criteria form is changed from `962/963` to `10000800/10000801`. The form is reorganized, with items added and removed. • The UID of the report result form is changed from `964/965` to `10000802/10000803`. The summary grid (UID: 6) and details grid (UID: 7) are combined into one grid (UID: 10000016).

A/R and A/P

Topic	Description
Document Generation Wizard	The following changes were made to the Document Generation Wizard: • Previously, a dropdown list was used for selecting the sort field. In 8.8, a grid is provided for choosing several sort fields and specifying different sort orders. • You can no longer use the wizard to create documents that involve locked batches. • The *Control Account* grid column in the *Customers* pane is changed from a dropdown list to a *Choose from List* (for China, Japan, and Korea).
Specifying *Ship-to* and *Bill-to* addresses in marketing documents	You can no longer edit the *Ship-to* and *Bill-to* address fields on marketing document forms. You must use the new address component form. The DI API is backward compatibility. However, if any address component property in the `AddressExtension` property is set or changed, any direct change of the two address properties is ignored.
Setting *DocRate* for goods receipt/goods issue	When creating a goods receipt/goods issue in the application, the `DocRate` field of the `OIGN/OIGE` table is now set to **`1`** (it was **`0`** in previous versions). This makes the DI API and application behaviors consistent.

Copying exchange rates to target documents	In the Draw Document Wizard, the new option *Use Document and Row Exchange Rate from Base Document* is the default.
	In the Document Generation Wizard, the *Exchange Rate* dropdown list contains the new option *Use Base Doc. and Row Rate*, which is the default.
	When using the Draw Document Wizard, the current exchange rate is used if there are documents with foreign currency and different exchange rates. In such cases, a warning message is displayed.
	In the following cases, the exchange rate is copied from the base document and a warning message is displayed:
	• Copy from invoice or AR/AP down payment to AR/AP credit memo.
	• Copy to AR/AP correction invoice, AR/AP Correction Invoice Reversal.
	• When source currency is equal to local currency, or system currency is equal to local currency, and the following actions are taking place:
	    ○ Copy from goods receipt PO to goods return.
	    ○ Copy from goods return to goods receipt PO.
	    ○ Copy from A/P invoice to goods receipt PO.
	For India localization, if the user selects *Use Row Exchange Rate from Base Document* and *Copy Tax Amount from Base Document*, a warning message is displayed.

Marketing documents with non-inventory items	In 8.8, you can no longer create marketing documents with non-inventory items not associated with a warehouse.

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td>Document base line</td><td>After setting the base line for a document, you cannot set the line item code, line freight, or other line fields to values different from those in the base line.</td></tr>
<tr><td>Partial delivery check in DI API</td><td>The SAP Business One application does a partial delivery check for item documents in the following scenarios:
Sales order copy to delivery (or delivery copy from sales order)
Sales order copy to invoice (or invoice copy from sale order)
Reserve invoice copy to delivery (or delivery copy from reserve invoice)
Previously, the partial delivery check was not performed when documents were added via the DI API.
In 8.8, the check is performed.
For example:
Add sales order with Item001, quantity = 10, and Partial Delivery not selected on the line.
Using DI API to add delivery from the sales order, change the quantity to 5.
Previously, the delivery was added. In 8.8, the delivery is not added and the following error message is returned:
Order no. 1 cannot be copied partially</td></tr>
</table>

Country-Specific

Topic	Description

TDS (India)	The following new fields in the `OWHT` database table (*Withholding Tax*) are mandatory:
	`Section`, `Threshold`, `Surcharge`, `Concess`, `Assessee`, `ApTdsAcc`, `ApSurAcc`, `ApCessAcc`, `ApHscAcc`, `ArTdsAcc`, `ArSurAcc`, `ArCessAcc`, `ArHscAcc`, `Location`, `ReturnType`.
	
	The following new fields in the `WHT1` database table (*Withholding Tax Lines*) are mandatory:
	`TdsRate`, `SurRate`, `CessRate`, `HscRate`
	
	The following fields in the `OWHT` database table (*Withholding Tax*) are no longer used:
	`Account`, `OffclCode`
	
	The following field in the `WHT1` database table (*Withholding Tax Lines*) is changed to read-only:
	`Rate`
	
	The following changes were made in the user interface:
	• In the *Withholding Tax – Setup* form, the *Account* and *Official Code* columns are hidden. The *Rate* column is now read-only.
	• In the *Business Partner Master Data* form, the *Withholding Tax Report Type* item is renamed to *Assessee Type*.

Invoice, payment and Document Generation Wizard forms (China, Japan, and Korea)	In the invoice forms, the *Control Account* combo box (UID: 2010) is changed to a *Choose from List*, and the control account name (UID: 2012) is hidden. The changes affect the following forms: • A/R Invoice • A/R Invoice + Payment • A/R Credit Memo • A/R Down Payment Invoice • A/R Reserve Invoice • A/P Invoice • A/P Credit Memo • A/P Down Payment Invoice • A/P Reserve Invoice In the *Incoming Payment* and *Outgoing Payment* forms, the *Control Account* combo box (UID: 2001) is changed to a *Choose from List* and control account name (UID: 2002) is hidden. In the Document Generation Wizard form in the *Customers* pane, the *Control Account* grid column is changed from a dropdown list to a *Choose from List.*

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td>GL account determination
(China, Japan, and Korea)</td><td>In the GL Account Determination form:
The Other Receivable account line is removed from the grid on the Sales tab, General subtab.
The Other Payable account line is removed from the grid on the Purchase tab, General subtab.</td></tr>
<tr><td>Business partners
(China, Japan, and Korea)</td><td>In the Business Partners Master Data form, the Other Receivable and Other Payable account items are hidden in the Account tab.</td></tr>
<tr><td>Draw Document Wizard
(India)</td><td>On the initial pane, if the user selects Use Row Exchange Rate from Base Document and Copy Tax Amount from Base Document, a warning message is displayed.</td></tr>
<tr><td>Tax Codes form
(India, Brazil)</td><td>In the Tax Codes form, available at Administration → Setup → Financials → Tax → Tax Codes, the UIDs for the form items are changed as follows:
<table>
<tr><th>Old UID</th><th>New UID</th></tr>
<tr><td>2000</td><td>1</td></tr>
<tr><td>2001</td><td>2</td></tr>
<tr><td>2002</td><td>3</td></tr>
<tr><td>2003</td><td>4</td></tr>
<tr><td>2004</td><td>5</td></tr>
<tr><td>2005</td><td>6</td></tr>
<tr><td>2006</td><td>7</td></tr>
<tr><td>2007</td><td>8</td></tr>
<tr><td>2008</td><td>9</td></tr>
<tr><td>2009</td><td>10</td></tr>
<tr><td>2010</td><td>11</td></tr>
<tr><td>2011</td><td>12</td></tr>
<tr><td>2012</td><td>43</td></tr>
<tr><td>1013</td><td>44</td></tr>
<tr><td>2014</td><td>45</td></tr>
<tr><td>2015</td><td>10000046</td></tr>
<tr><td>2016</td><td>10000047</td></tr>
<tr><td>2018</td><td>10000048</td></tr>
<tr><td>2019</td><td>10000049</td></tr>
<tr><td>2020</td><td>10000050</td></tr>
</table>
No business logic is affected.</td></tr>
</table>

Other

Topic	Description
Payment Wizard	A Payment Wizard run on a locked period still fails but is no longer removed. In Step 6, the payment amount can no longer be less than the *Minimum Payment* set in the *Payment Run Defaults* form (*Administration* → *Setup* → *Banking* → *Payment Run Defaults*).
Adding sales forecasts	Previously, you could not add a sales forecast if the date of one of the lines was not between the start and end dates. In 8.8, you can add such a sales forecast. The lines not in the date range are ignored.
Adding sales opportunities	You can no longer add sales opportunities with status set to *Open* status if there are reasons specified.
Working with service calls	The following changes have been made to service calls: • You can no longer delete service calls, including via the `ServiceCalls` object. • You can no longer add activities to closed service calls. • You can no longer modify a solution of a closed service call.

Infrastructure

This section describes compatibility issues related to the application’s infrastructure.

SDK

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td>Server type when connecting to DI API</td><td>Previously, the default value of the <code>DBServerType</code> property of the <code>Company</code> object was <code>dst_MSSQL</code> (SQL Server 2000), so you could connect to the DI API without specifying a server type if you were using SQL Server 2000.
In 8.8, you must specify a server type.</td></tr>
<tr><td>Location of DI API files</td><td>Previously, the application DI installation files were copied to <code>\SAP\SAP Business One\DI API</code>.
In 8.8, application DI and DI API installation files are copied to <code>\SAP\SAP Business One DI API</code>.</td></tr>
<tr><td>Setting value of Field object</td><td>Previously, when setting the <code>Value</code> property of the <code>Field</code> object with a string whose integer value exceeded 2,147,483,647, the value was set to the maximum allowed value.
In 8.8, an exception is thrown.</td></tr>
<tr><td>DI Server scripts</td><td>In 8.8, you now need to include all data nodes starting from the root node in a DI Server script.
For example, the following script was valid in the previous version:
<pre>
<dis:Add xmlns:dis="http://www.sap.com/SBO/DIS">
 <Service>JournalVouchersService</Service>
 <JournalEntry>
 ...
 </JournalEntry>
</dis:Add>
</pre>
In 8.8, the script must be written as follows:
<pre>
<dis:Add xmlns:dis="http://www.sap.com/SBO/DIS">
 <Service>JournalVouchersService</Service>
  <JournalVoucher>
   <JournalEntries>
    <JournalEntry>
    ...
    </JournalEntry>
   </JournalEntries>
  </JournalVoucher>
</dis:Add>
</pre>
The first script is now invalid and the following error is returned:
Error '-5002' occurred. Failed to add row</td></tr>
</table>

Topic	Description
Focus when setting value in system matrix	Previously, after you set a value in a system matrix with the UI API, the focus was automatically restored to the item that previously had the focus. In 8.8, the focus remains on the matrix cell.
UDF in grids	The behavior of a UDF column in a grid has been changed as follows: • The UDF column truncates values (from the database) that are longer than the UDF field size. • The UDF column no longer allows entering values longer than the UDF field size.
***EditText* change**	Previously, when an `EditText` was bound with valid values, the UI API returned a `ComboBox` item for the item. In 8.8, an `EditText` is returned.
Stored procedures	The `SBO_SP_TransactionSupport` and `SBO_SP_PostTransactionSupport` stored procedures in company databases are no longer used.

Installation/Upgrade

Topic	Description
B1i	B1i is no longer installed by default when installing the SAP Business One server. The `SPAR` table is cleared from the `SBO-COMMON` database during upgrade.
SDK, DI API, and JCO installation	The server installation wizard no longer enables installation of SDK, DI API, and JCO.
Company upgrade	A company database is upgraded with the new Upgrade Wizard. A company database cannot be upgraded from within the application.
Name of server during installation	When installing the SAP Business One server, you can no longer enter `(local)`, `(127.0.0.1)`, or a period `(.)` for the server name. The name must be a server name or IP address.
Server Tools	The EWA service is removed.

Log

Topic	Description
Log file path for SAP add-ons	The location and name of the log file for SAP add-ons is changed: • **Old Path:** %Temp%\SAP Business One Log\SAPAddOn_01.log • **New Path:** %USERPROFILE%\Local Settings\Application Data\SAP\SAP Business One\Log\Addon\ Addon_<AddonName>_<Num>.txt
Log and log configuration file paths	The following lists the new log file path and log configuration file path for each module: **SAP Business One Client** • %USERPROFILE%\Local Settings\Application Data\SAP\SAP Business One\Log\BusinessOne\ BusinesOne<channel name>Pid<process ID> _<datetime>.txt • B1Client_exe_path\Conf\b1LogConfig.xml **DI API (Multiple Add-On)** • %USERPROFILE%\Local Settings\Application Data\SAP\SAP Business One\Log\DIAPI\ BusinessOneDI<channel name>Pid<process ID> _<datetime>.txt • DIAPIInstallPath\Conf\b1LogConfig.xml **DI API (Basic Add-On connection (Company.Connect))** • %USERPROFILE%\Local Settings\Application Data\SAP\SAP Business One\Log\DIAPI\ <Add-on Name><channel name>Pid<process ID> _<datetime>.txt • addon_exe_path\Conf\b1LogConfig.xml (first use) DIAPIInstallPath\Conf\b1LogConfig.xml (second use) **Upgrade Wizard** • %USERPROFILE%\Local Settings\Application Data\SAP\SAP Business One\Log\ Upgrade Wizard\BusinessOneUpgrade<channel name>Pid<process ID>_<datetime>.txt • UpgradeWizard_exe_path\Conf\b1LogConfig.xml

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td></td><td>The following changes were also made to logging:
By default, the log configuration file for add-ons using the basic (<code>Company.Connect</code>) or Single Sign-on DI API connection and for add-ons using the multiple add-on connection is located at <code><DI API Install Path>\Conf\b1LogConfig.xml</code>. If you want a different configuration for an add-on (not multiple add-on), you need to create the folder <code>Conf</code> folder under the add-on executable file path and copy the files <code>b1LogConfig.xml</code>, <code>b1-config-path.txt</code>, <code>b1-conf.dtd</code>, <code>b1-current-user-template.xml</code> and <code>b1-local-machine-template.xml</code> from the <code><DI API Install Path>\Conf</code> folder.
The log configuration file for the SAP Business One client is located in the <code><B1 Client Executable Path>\Conf</code>.
You cannot modify LogPath and LogPathOverride in <code>b1-current-user.xml</code> to configure log files path.
Only log files for the SAP Business One client are uploaded to the database.
The folder size limitation applies to individual subfolders, but not to the root log directory.</td></tr>
<tr><td>Log forms</td><td>The System Log Message form has been changed as follows:
The number of messages displayed depends on the selection in the Last Messages to Display dropdown list.
The form is automatically docked when opening the application.
The System Log Message, Export Transaction to SAP Business One, Import from Excel, Import Transaction from SAP Business One, Price List, Bill of Exchange Management, Bank Statements Processing, Budget Scenarios, and Document Generation Wizard log forms have been changed as follows:
The message description does not contain the timestamp and message number. These are displayed in new columns.
The form’s tab page title now displays in parentheses the number of messages.
The forms have been reorganized.</td></tr>
</table>

Report

Topic	Description
Report names	You must now provide a unique name for new reports (`Name` property of `ReportLayout` object). There is no upgrade issue because there is no change in the database structure. Duplicates are blocked per document type.
XL Reporter	The XL Reporter is under the control of the add-on manager and is no longer activated by default. When 8.8 is installed, the XL Reporter menu item (UID: 4872) is disabled by default.
Printing	In the *Layout Designer - Selection Criteria* form (when selecting *Print Layout Designer*), the *Edit* button (formerly *Edit Layout*) opens the *Report and Layout Manager* instead of the PLD designer. The *Print* icon in the toolbar sends the current document to the default printer, instead of opening the print dialog. A new wizard, which is implemented based on Crystal Reports instead of the B1i platform, enables users to generate the EU sales report using a new GUI.
***Report Preview* form type**	The form type of the *Report Preview* form is changed from **-9901099** to **10004100**.

UDO, UDT, UDF

Topic	Description
UDF index	The *Create Index* checkbox in the UDF form is removed.
UDF and withholding tax	Withholding tax UDFs are now added at *Master Data* → → *Withholding Tax* (instead of *Accounting* → *Withholding Tax*).
UDO	The value of the key field of a UDO can no longer be changed. The key field is `Code` for master data type UDOs, and `DocEntry` for document type UDOs.

Other

Topic	Description
Main Menu	New invisible columns are added to the *Drag & Relate* and *My Menu* tabs for aligning the folder icons and display names.
***About* form**	In the *About* form, the *Install Number*, *System Number*, *HW Key*, and *Application ID* read-only textboxes have been changed from *EditText* items with multiple lines (`it_EXTEDIT`)_ to regular *EditText* items (`it_EDIT`).
DB2 support	DB2 is no longer supported.
EULA	Users must accept the EULA agreement before doing anything else in the SAP Business One application. When you try to connect to the DI API `Company` object before signing the EULA document, the following error is displayed: *Go to the SAP Business One application, log on, and accept the EULA agreement.* You need to log on to the SAP Business One application to accept the EULA agreement. The EULA agreement also must be accepted in the following cases: • SAP Business One is upgraded to 8.8 version. • License file has changed. The EULA agreement form is displayed when a user logs on to the SAP Business One application.

Security

This section describes security-related compatibility issues.

Topic	Description
Password for *manager* user	On first login, the *manager* user's password must be changed. Add-ons cannot log on with the *manager* user until the password has been changed.
***Choose Company* form**	In the *Choose Company* form, the following changes were made: • The *Change Server* button is removed. A list of servers is retrieved from the license server and is displayed in a dropdown list. • When clicking *New* to create a new company, the user must enter the site user password. • The *New* button for creating a new company is visible only when the client version matches the version of the *Common* database.
Database authentication	Users no longer provide credentials for authenticating to the SAP Business One database, nor do they determine whether NT authentication is used. In 8.8, the credentials and connection method are set in the license server. When configuring the license server, an administrator either provides a database username and password or specifies that NT authentication is to be used. All clients use the same settings to connect to the database.

Licensing

This section describes license-related compatibility issues.

Topic	Description
License files	License files for previous versions are not valid for the 8.8 license server.
***License Administration* form**	In the *Allocation* tab, a new grid (UID: 10000071) is added, and all add-on licenses appear in this new grid.
Initial authorizations for unlicensed user	Previously, a new user who was not assigned a license could open many basic forms. In 8.8, such a user can open only the *License Administration* and *Alert* forms.
License API	The license API has changed as follows: • `GetInstallationNumberList` method replaces the `GetInstallationNumber` method. The new method returns a list of installation numbers for the loaded license file, instead of a single number. • `GetSystemNumber` method's arguments are changed. The installation number is passed to get the related system number. • `IsLicenseFileExist` is no longer supported.
License file and localizations	Previously, you could use the *Choose Company* form to create a company for any localization. In 8.8: • Within 31 days after installation, a user can select the *Trial version* checkbox to create a company for any localization. • After 31 days, users whose systems were upgraded to 8.8 can still select the localization for a new company. For users of systems originally installed as 8.8, the ability to select localization depends on their license.
License for DI API add-on	Previously, a user could access a DI API add-on without any SAP Business One license because he was assigned the compatibility license automatically. In 8.8, the compatibility license is removed. A user now needs at least one of the following SAP licenses to use a DI API add-on: • CRM • SERVICE • PROFESSIONAL • CRM-PROF • FINANCIALS-LTD • LOGISTICS-LTD • INDIRECT • ADDONACCESS

Serial and Batch

This section describes compatibility issues related to serial and batch processing.

Database Tables

Old tables have been replaced, and views have been created for querying data in order to keep compatibility.

Recommendation

We strongly recommend that you base new add-ons on the new tables and not the views.

The following shows the old and new serial and batch tables:

Category	Old Tables	New Tables
Serial Number	`OSRI, SRI1, OSRD`	`OSRN, OSRQ, OITL, ITL1`
Batch Number	`OIBT, IBT1, OSRD`	`OBTN, OBTQ, OBTW, OITL, ITL1`
Serial Number Draft	`ODSR`	`ODSN, DRF16`
Batch Number Draft	`ODIB`	`ODBN, ODBW, DRF16`

The following sections show the mapping of fields from the old to the new tables.

OBTN (Batch Number Master Data)

OBTN	OIBT
AbsEntry (PK)	
ItemCode (Unique Key)	ItemCode (PK)
SysNumber (Unique Key)	
DistNumber	BatchNum (PK)
	WhsCode (PK)
	ItemName
MnfSerial	SuppSerial
LotNumber	IntrSerial
ExpDate	ExpDate
MnfDate	PrdDate
InDate	InDate
Location (not used for batch numbers; maintained in OBTW by warehouse)	Located
Notes	Notes
	Quantity (on-hand quantity – in stock) After operation or release of transaction, quantity may be updated automatically to reflect real in-stock quantity.
	BaseType
	BaseEntry
	BaseNum
	BaseLinNum
	CardCode
	CardName
CreateDate	CreateDate
Status 0: Released (Default) 1: Not Accessible 2: Locked	Status 0: Released (Default) 1: Not Accessible 2: Locked
	Direction 0: In (default) 1: Out
	IsCommited
	OnOrder
	Consig
DataSource	DataSource
UserSign	UserSign
Transferred	Transferred
Instance	Instance

OBTQ (Batch Number Accumulator)

OBTQ	OIBT
AbsEntry	
ItemCode (Unique Key)	ItemCode
SysNumber (Unique Key)	
	BatchNum
WhsCode (Unique Key)	WhsCode
	ItemName
	SuppSerial
	IntrSerial
	ExpDate
	PrdDate
	InDate
	Located
	Notes
Quantity	Quantity (on-hand quantity –in stock) After creation, quantity may be updated automatically to reflect real in-stock quantity.
	BaseType
	BaseEntry
	BaseNum
	BaseLinNum
	CardCode
	CardName
	CreateDate
	Status
	Direction
CommitQty	IsCommited
	OnOrder
	Consig
CountQty	
	DataSource
	UserSign
	Transfered
	Instance

OBTW (Batch Attributes in Location)

OBTW	OIBT
AbsEntry	
ItemCode	ItemCode
SysNumber	
	BatchNum
WhsCode	WhsCode
	ItemName
	SuppSerial
	IntrSerial
	ExpDate
	PrdDate
	InDate
Location	Located
	Notes
	Quantity (on-hand quantity – in stock)
	BaseType
	BaseEntry
	BaseNum
	BaseLinNum
	CardCode
	CardName
	CreateDate
	Status
	Direction
	IsCommited
	OnOrder
	Consig
DataSource	DataSource
UserSign	UserSign
Transfered	Transfered
Instance	Instance
MdAbsEntry	
ObjType	

OITL (Serial and Batch Transaction Log)

OITL	OSRD
LogEntry	
TransId	
ItemCode	ItemCode
ManagedBy	SrdType
DocType	DocType
DocEntry	DocEntry
DocNum	DocNum
DocLine	DocLineNum
LocType	
LocCode	WhsCode
DocDate	DocDate
CardCode	CardCode
CardName	CardName
	Direction 0: In 1: Out
CreateDate	
ItemName	ItemName
	DataSource
	UserSign
BaseEntry	
BaseLine	
BaseType	
	CreateNew
	ManOutOnly
	Status
	DocOpenQty
DocQty (+): stock receipt (-): stock issue	DocQuty
StockQty (+): stock receipt (-): stock issue (0): stock quantity 0 for documents that do not affect the stock	
DefinedQty Greater than 0. Defined quantity can differ from stock quantity when set to “on release only”.	

OITL	OSRD
StockEff ON_HAND ON_COMMITED NO_EFFECT	
ApplyEntry	
ApplyLine	
ApplyType	

ITL1 (Transaction Log Detail for Serial and Batch)

ITL1	IBT1	SRI1
LogEntry		
ItemCode	ItemCode	ItemCode
SysNumber		SysSerial
	BatchNum	
	LineNum Transaction sequence number for the same BatchNum and ItemCode.	LineNum Transaction sequence number for the same SysSerial and ItemCode.
	BaseType	BaseType
	BaseEntry	BaseEntry
	BaseNum	BaseNum
	BaseLinNum	BaseLinNum
	DocDate	DocDate
	WhsCode	WhsCode
	CardCode	CardCode
	CardName	CardName
	Direction 0: In (default) 1: Out 2: Allocated	Direction 0: In (default) 1: Out
	CreateDate	CreateDate
	ItemName	ItemName
	DataSource	DataSource
	UserSign	UserSign
	BsDocType	BsDocType
	BsDocEntry	BsDocEntry
	BsDocLine	BsDocLine
Quantity (+): In (-): Out	Quantity	
AllocQty (+): Allocation (-): De-allocation		

OSRN (Serial Number Master Data)

OSRN	OSRI
AbsEntry (PK)	
ItemCode (Unique Key)	ItemCode
SysNumber (Unique Key)	SysSerial Different ItemCode can have same SysSerial.
MnfSerial	SuppSerial
DistNumber	IntrSerial
LotNumber	BatchId
ExpDate	ExpDate
MnfDate	PrdDate
InDate	InDate
GrntStart	GrntStart
GrntExp	GrntExp
	WhsCode
Location	Located
Notes	Notes
	Quantity (line quantity)
	BaseType
	BaseEntry
	BaseNum
	BaseLinNum
CreateDate	CreateDate
	CardCode
	CardName
	ItemName
Status (Only used for batch numbers.)	Status (SysSerial Open Status) 0: Available 1: Unavailable If released, status updated to **1**. Status updated after add automatically when released.
	Direction
DataSource	DataSource
UserSign	UserSign
Transfered	Transferred
Instance	Instance

OSRQ

OSRQ	OSRI
ItemCode (Unique Key)	ItemCode
SysNumber (Unique Key)	SysSerial Different ItemCode can have same SysSerial.
	SuppSerial
	IntrSerial
	BatchId
	ExpDate
	PrdDate
	InDate
	GrntStart
	GrntExp
WhsCode	WhsCode
	Located
	Notes
Quantity (Quantity is **0** or **1**.)	Quantity (line quantity)
	BaseType
	BaseEntry
	BaseNum
	BaseLinNum
	CreateDate
	CardCode
	CardName
	ItemName
	Status
	Direction
	DataSource
	UserSign
	Transferred
	Instance
CommitQty	
CountQty	

Merging

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td>Merging batches</td><td>
Batches with the same batch number but located in different warehouses are merged if their properties are the same (some <code>OIBT</code> entries are merged into a single <code>OBTN</code> entry).
Batches with the same batch number but located in different warehouses and with different properties are not merged, but the batch numbers are modified to eliminate duplicate batch numbers.

Properties: The following properties are compared when deciding whether to merge batches: <code>SuppSerial</code>, <code>IntrSerial</code>, <code>ExpDate</code>, <code>PrdDate</code>, <code>Located</code>, <code>Notes</code> and all the UDFs.
The following rules apply for comparing multiple batches:

If all batches have the same property values, then all batches are merged.
If some batches have blank properties and the others have the same, non-blank property values, then all batches are merged.
If some batches have blank properties and the others have different non-blank property values, the blank batches are merged into one batch and the other batches with non-blank values remain as separate batches. If among the batches with non-blank values there are batches that have the same values, these are also merged into a new batch.

Batch Numbers: If more than one batch remains after an attempt to merge batches with the same batch number, then a sequence number is added to the batch number so the remaining batches have different batch numbers.
For example, if there are 10 batches with the batch number <code>123</code> and they were merged into three batches, the batch numbers would be <code>123</code>, <code>123-1</code>, and <code>123-2</code>.
Status: Batches are merged without regard to status. After the merge, each merged batch is assigned a status, as follows:

If the component batches had the same status, the merged batch is given this status.
If the component batches had different statuses, then the most restrictive status from the component batches is used for the merged batch.
For example, if BatchA existed in WH01 in status Released and in WH02 in status Locked, than the new batch should have status Locked.
The following are the statuses, from most restrictive to least: Locked, Accessible, Released

</td></tr>
</table>

Topic	Description
Merging UDFs	User-defined fields of *Serial Number* and *Batch Number Master Data* are merged into the new tables `OSRN` and `OBTN`. New UDFs are also placed in `OSRN` and `OBTN`. UDFs with the same name in `OSRI` and `OIBT` are merged as follows: 1. If a UDF has the same `AliasID` (*Title* in the UDF management window) for `OIBT` and `OSRI`, the `AliasID` of the one in `OSRI` is renamed to **`XXX_1`**. 2. If the new name is too long for `AliasID` (the maximum length for `AliasID` via the GUI is 18 characters in 2007 A), it is renamed as **`XX_1`**, and the extra characters in the old `AliasID` are trimmed accordingly. 3. If the new name already exists, then the name is changed to **`XX_2`**, then **`XX_3`**, and so on until a valid `AliasID` is found. 4. The same merge logic is applied to the field `CUFD.Descr` (*Description* in the UDF management window), for which the maximum length is 30.

Business Logic

Topic	Description
Batch location attribute in batch details form	Since the location attribute of a batch is handled differently from the others, the same batch may have different values of the location attribute in different warehouses, that is, the attribute is master data that depends on where the batch is located. The location attribute is removed from the *Batch Details* form but a new column is added to the *Quantities* form grid. Since the new column is editable, the *Quantities* form allows Update mode. In the *Serial* and *Batch Number Transactions* report, each sales order line quantity-related transaction (create, update, cancel) is presented as a separate line.
Warehouse field	In the *Serial Number* details form and transaction report form, the *Warehouse* field is empty if the status is *Unavailable*. Previously, the warehouse is displayed but meaningless when the status is *Unavailable*.
Types of serial and batch transactions	New serial and batch transaction can be identified as either stock postings or initial quantity transactions, which is reflected in the *Origin* field of the journal entry • **ST** (stock posting) • **OB** (initial quantity) For serial and batch transactions created before upgrading to 8.8, the two types both appear as **ST**.
GUI bindings	All GUI bindings related to serial and batch are changed to new tables.
DI API changes	• You can now receive more items to an existing batch. • Serial and batch numbers are now validated in A/R goods returns, which is the same as the application behavior.
Other minor changes	• In the serial and batch selection form, when a user clicks the *Create* button, the message *Do you want to save changes?* no longer appears. • When the serial and batch selection form is opened automatically with objects on the selected side, after changing the filter, the objects stay as if the user chose them and updated the form. • If the quantity in the target row is equal to the quantity in the base row, the available objects appear in the selected side even if not all of the row quantity is available.

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td>Print layout changes</td><td>The following lists the changes in serial and batch reports:
<table>
<tr><th>Report</th><th>Changes</th></tr>
<tr><td>Batch Number Report (IBT1)</td><td>In the repetitive area, all columns are bound to new tables <code>RBTN</code> or <code>OBTN</code> instead of <code>OIBT</code>.</td></tr>
<tr><td>Batch Number Transactions Report (IBT2)</td><td>In the repetitive area header, all columns are bound to new tables <code>RBTN</code> or <code>OBTN</code> instead of <code>OIBT</code>.
In the repetitive area, all columns are bound to new table <code>RITL</code> instead of <code>IBT1</code>.
The report Var 102 and 104 are no longer supported. They are replaced by binding to a table’s field:
Var 102 now binds to <code>RITL.CardCode</code>.
Var 104 now binds to <code>RITL.Quantity</code>.</td></tr>
<tr><td>Batch Report In Document Structure (IBT3)</td><td>In the repetitive area, all columns are bound to new tables <code>RBTN</code> or <code>OBTN</code> instead of <code>OIBT</code>.</td></tr>
<tr><td>Serial Number (SRI1)</td><td>In the repetitive area, all columns are bound to new tables <code>RSRN</code> or <code>OSRN</code> instead of <code>OSRI</code>.</td></tr>
<tr><td>Serial Number Transactions Report (SRI2)</td><td>In the repetitive area header, all columns are bound to new tables <code>RSRN</code> or <code>OSRN</code> instead of <code>OSRI</code>.
In the repetitive area, all columns are bound to new table <code>RITL</code> instead of <code>SRI1</code>.</td></tr>
<tr><td>Serial Numbers Structures (SRI3)</td><td>In the repetitive area, all columns are bound to new tables <code>RSRN</code> or <code>OSRN</code> instead of <code>OSRI</code>.</td></tr>
</table></td></tr>
<tr><td>Goods return and availability calculation</td><td>Previously, if the first A/P action with a batch was a goods return, the availability calculation was not affected by the goods return.
In 8.8, all transactions affect the availability calculation.</td></tr>
</table>

Stock

This section describes compatibility issues related to the stock engine.

Major business logic changes are described in *Enhancements in Inventory Management* at http://channel.sap.com/sbo/documentation.

Database Tables

The following tables were added:

- **OILM, OIVL:** Previously, stock transactions were recorded in `OINM`. In 8.8, `OINM` table is divided into `OIVL` and `OILM`. Each row in `OILM` represents one line from the document.
- **IVL1:** Stock layer level. Includes all types of valuations, regardless if multiple layers or a single layer is used per document line; contains foreign key `TransSeq` to `OIVL`.
- **OIVQ:** Open entry FIFO layer.
- **OIVE:** Open exit FIFO Layer.

`OINM` will be kept as a view in the new version. All fields are supported except:

- `BaseLine`: Previously, `BaseLine` was filled in case a FIFO item was used in the following transactions: Goods return based on GRPO, return based on delivery, AP/AR CM based on AP/AR invoice, correction invoice. The value of the field was the row number of the current transaction's base line.

  In 8.8, in order to simplify its creation, the `BaseLine` field is filled for all based transactions.
- `LastInst, PrevTrans, HtransSeq`: These fields remain in the `OINM` view but are not supported and are set to **`NULL`**.
- When upgrading, any user-defined fields in the `OINM` table are removed. The user-defined field data is stored in the `TINM` table, which is a backup of the `OINM` table from the previous version.

Business Logic

Topic	Description
***CostMethod* field in OINM**	The `CostMethod` field was added in 2005 SP1. The column represents the valuation method for the item in the transaction: `F=FIFO`, `A=Moving Average Price`, `S=Standard`, `N=Not defined`
OIQR, IQR1	The new `IQR` business object (including `OIQR` and `IQR1` tables) is created to replace the functionality of the `INM` business object. No conversion of existing data from `INM` tables to `IQR` tables is provided.
***AvgPrice* field in OITM, OITW table for FIFO Items**	The `AvgPrice` field in `OITM` is used for FIFO items to store the static price. Previously, this field was updated when there was an exit and the quantity reached zero or became negative. In 8.8, this field is updated whenever there is an entry and the quantity is positive.
MRV2 table	The `INMTransNm` and `INMInst` fields are no longer supported. Previously, they were used to connect the `MRV2` record to a corresponding `OINM` record. In 8.8, the `OINM` table is replaced with new tables (`OIVL`, `IVL1`, `OIVQ`, `OIVE`). Therefore, two new fields were added to `MRV2` – `IVLTransSe` and `IVLLayerI` – to connect records to corresponding records in the new stock tables.
Order of WTR actions in stock logs	Previously, the first action written to the stock logs was an entry action, then the exit. In 8.8, warehouse transfer actions are handled in the correct order: exit and then entry based on exit. This order is reflected in the stock tables.
A/R invoices on inventory when based on A/R delivery	Since there is no impact from the A/R invoices on inventory when based on A/R delivery, this transaction is no longer recorded in the stock tables.
Updating inventory revaluation	You can only update the following properties of the `MaterialRevaluation` object: • `DocDate` • `Reference2` • `Comments` • `JournalMemo`

<table>
<tr><th>Topic</th><th>Description</th></tr>
<tr><td>Calculating gross profit</td><td>
The logic of calculating gross profit has changed. Previously, the calculation was based on each item.
In 8.8, it is based on the total to avoid rounding issues. The calculation is based on the new field Total Base Price. When selecting Item Cost in the Base Price by field, the base price is based on the inventory value except for reverse documents (for example, credit memos and goods returns) and invoices based on deliveries. The reverse documents are calculated according to the base document's base price.
The upgrade logic performs the following actions on existing fields:

The field <code>OINV.GrosProfit</code> is filled with <code>sum(INV1.GrssProfit)</code>; the same logic applies to <code>OINV.GrosProfFc</code> and <code>OINV.GrosProfSy</code> with the relevant line fields.
In service documents, the field <code>INV1.GrssProfit</code> is filled with <code>INV1.LineTotal * (1 - OINV.DiscPrcnt)</code>; the same logic applies to <code>INV1.GrssProfFC</code> and <code>INV1.GrssProfSy</code> with the relevant line fields.

Previously, in the Gross Profit form for marketing documents, there was one column for Gross Profit (Column UID: 6) that displayed the local, system or foreign currency.
In 8.8, there are three columns for these three values:

If document display is local, then the Gross Profit column is UID: 6.
If document display is system, then the Gross Profit column is UID: 10000056
If document display is foreign, then the Gross Profit column is UID: 10000058

</td></tr>
<tr><td>Changing moving-average cost for item</td><td>You can no longer change the moving-average cost for an item when there is no transaction.</td></tr>
<tr><td>Pick and Pack</td><td>
Previously, in the Pick and Pack Manager, the quantity of an item that could be released or picked could not cause the item quantity to become negative.
In 8.8, the quantity of an item that can be released or picked is based on the Response to Release of Inventory below the Minimum Level – Block negative Inventory setting (Administration → System Initialization → Document Settings).
In the application, if the new quantity reduces the on-hand quantity below the minimum level and the system settings do not allow negative inventory, an error is displayed.
When adding or updating a customer's pick list, the system now displays a warning message if the customer's credit/commitment limit has been exceeded.
</td></tr>
</table>

Down Payment

This section describes compatibility issues to the down payment process:

***Down Payments to Draw* form**	The following changes were made to the *Down Payments To Draw* form (form type: 60511): • *Down Payment Type* combobox (Item UID: 10000100) is hidden in all localizations. Previously, the item had been visible in the CZ and SK localization. • *Down Payments To Draw* grid mode is changed to expand/collapse mode. In 8.8, both a down payment invoice and down payment request can be linked to an invoice. Therefore, the *Down Payment Type* combobox is hidden and the document type is displayed in the *Down Payments To Draw* grid (column: 380000134).
Down payment DI API	The `PeriodCategory` object (`OACP`) now exposes the following new mandatory properties: • `SalesDownPaymentInterimAccount` • `PurchaseDownPaymentInterimAccount`. The `BusinessPartners` object (`OCRD`) now exposes the property `DownPaymentInterimAccount`, which is mandatory for the down payment process.

<table>
<tr>
<td>Down payment business logic</td>
<td>
Previously, down payment requests had to be paid in two stages:

When the customer paid, a payment was created and linked to the down payment request.
After an invoice was created, another payment was created for the difference between the down payment request and the invoice. During this stage, the invoice, the second payment, and the down payment request were linked together in the banking module.

In 8.8, there is no second stage. When the down payment is paid, a payment is created and linked to the down payment request. When the invoice is created, the related down payment request is linked to it. If there is any outstanding amount (the difference between the down payment request and the invoice), it is paid in the banking module.
Interim Account is Mandatory
The down payment interim account for business partners is now mandatory when implementing the down payment process.
Upgrade Logic
Down payments created before version 8.8 that are not yet linked to an invoice must be manually reposted. A user query to find such down payments is provided.
Posting Change

There is a new down payment interim account for use in the down payment invoice process.
In the previous version, the header discount from the base document of a down payment (e.g., sales order) was distributed to the rows of the target document and the down payment percentage in the header stayed 100%
In 8.8, the header discount from base documents is reflected in the down payment percentage of the target document. For example, if the sales order has a header discount 10%, the target down payment document would have a down payment percentage of 90%.

</td>
</tr>
</table>

Appendix

Menu Changes

Changed Menu IDs

Name	Previous ID	New ID	Path
Aging	43548	4096	Reports → Financials → Accounting → Aging
Customer Receivables Aging	4112	4098	Reports → Financials → Accounting → Aging → Customer Receivables Aging
Vendor Liabilities Aging	4113	4099	Reports → Financials → Accounting → Aging → Vendor Liabilities Aging

Changed Menu Names (English)

ID	Previous Name	New Name	Path
14085	*Inventory Valuation Report*	*Inventory Valuation Simulation Report* The name is changed only if the company manages a perpetual stock.	Modules → Reports → Inventory → Inventory Valuation Simulation Report
1765	*Inventory Valuation Report*	*Inventory Valuation Simulation Report* The name is changed only if the company manages a perpetual stock.	Modules → Inventory → Inventory Reports → Inventory Valuation Simulation Report
1558	*Mail Settings - E-Mail Signature*	*E-Mail Settings*	Modules → Administration → System Initialization → E-Mail Settings
1559	*Services Settings*	*Electronic Report*	Modules → Reports → Sales and Purchasing → Electronic Report Previously, the menu was located at: Modules → Administration → System Initialization → Services Settings

Removed Menus

Menu Name	Menu ID	Path
Legal Lists	43559	Modules → Reports → Legal Lists
Legal Lists	3604	Modules → Reports → Legal Lists → Legal Lists

Menus with Changed Position

Menu Name	Menu ID	Old Path	New Path
Password Administration	1588	Modules → Administration → Setup → General → Password Administration	Modules → Administration → Setup → General → Security → Password Administration
Change Password	4128	Modules → Administration → Setup → General → Change Password	Modules → Administration → Setup → General → Security → Change Password
Services Settings (*Electronic Report* in 8.8)	1559	Modules → Administration → System Initialization → Services Settings	Modules → Reports → Sales and Purchasing → Electronic Report
System Message Log	5600	Tools → System Message Log	Windows → System Message Log

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