

SAP Business One and SDK 2005 A SP01 and 2005 B Compatibility with Add-Ons

The current document is divided into four sections:

1. **Changes in SAP Business One behavior:**

These changes can cause problems to add-ons that base their logic on the SAP Business One behavior. This section will be part of each new Sap Business One version, since part of the Sap Business One evaluation causes changes to the forms appearance and to the business logic.

2. **Changes in DI API:**

These are changes in the Sap Business One application reflected by the DI API

3. **Changes in UI API:**

In case of new functionality that will require changes in the existing interface, the old interface will stay. In addition, a new interface will be added to support the new functionality. However, some of the changes are the result of fixed bugs. For example, in 2005 A new exceptions are thrown. Each change in this group must be approved by the SDK advisory board. In case the board does not approve, the changes will be fixed only in the next version.

4. **Changes in UDO:**

The interface of one function in the Implementation dll header file has changed. No other changes were made in the UDO.

5. **Important Notes**

New Limitations & Changes in SAP BUSINESS ONE

#	Topic	Short Description	Impact/problem for Add-on	Possible solution	Table name	Field name	Object name (in the DI/UI API)	Method name (in the DI/UI API)
1	Additional expenses flag at company information	Until now Additional Expenses flag at company information was changeable without any conditions. If someone created a document with Additional Expenses and then changed the flag to false, it created mismatch at sum of totals at the document. From 2005 SP1 it will be possible to change the Additional Expenses flag only if there are no documents with Additional Expenses.	If there are marketing documents at the system, with additional expenses (meaning, they were created when the flag was true), then add-ons can't change the field to false, and it will stay true forever (even if documents will be cancelled, they are still regarded). The add-on will receive an error. Type of error is: dbmColumnNotUpdatable (-1029), and message is "There are marketing documents with Additional Expenses. Field cannot change." The error will also specify the problematic field.	Before trying to disable the flag, check if there are marketing documents with additional expenses. If there are, it isn't possible to disable it. You can also simply try to disable it, and the system will do that check, then you only need to check the error: dbmColumnNotUpdatable (-1029). The error will also specify the problematic field	CINF	EnblExpns	EnableExpensesManagement	GetCompanyInfo UpdateCompanyInfo

#	Topic	Short Description	Impact/problem for Add-on	Possible solution	Table name	Field name	Object name (in the DI/UI API)	Method name (in the DI/UI API)
	Line total calculation in marketing document	<p>Another option to calculate the line total in marketing documents is added in 2005 SP1. Each company should choose one of the two options to calculate the line total.</p> <p>1. Existing Way: Line Total = Price after Discount * Quantity. Where Price after Discount = Pre Discount price * (1-Discout)</p> <p>2. New Way: Line Total = Price before discount * (1-Discout) * Quantity. In this case, the 'Pre after discount' will be inactive and informative only</p> <p>Option 1 is the default for upgraded companies. Option 2 is the default for new companies</p> <p>The option can be accessed in the AdminInfo data structure of the CompanyService of the DI. The new property is called CalculateRowDiscount. When set to true the new option will be selected.</p> <p>Detailed explanation is available in the specification</p>	<p>If option 1 is selected, there is no change to the current system behavior and no impact on existing add-ons</p> <p>If option 2 is selected, the system will ignore the 'Price after discount' field sent by an add-on and will use the other fields for the line calculations</p>	<p>There are two options if an existing add-on is not working well due to this change:</p> <p>1. Select to use option 1 in the document settings. 2. Change the add-on to send 'Price before discount' (and discount if relevant) to Sap Business One instead of 'Price after discount'</p>			All documents objects	

DI API

#	Topic	Short Description	Impact/problem for Add-on	Possible solution	Table name	Field name	Object name (in the DI/UI API)	Method name (in the DI/UI API)
1	Payments with credit memo	When paying a credit memo – If the user wants to insert the amount to pay (in field: SumApplied in the invoices sub-object) he should insert it in negative sum like in the UI. This also applies to regular AR/AP invoices (and down payments) that are to be paid in Outgoing/Incoming payments. (respectively)	An error message will be given if the add-on tries to insert a positive amount for a credit memo	Change the add-on	RCT2	SumApplied And Applied FC	SumApplied and Applied FC	Add invoices
2	Line Discount	When adding Price in documents lines object, the discount in line will be calculated relatively to the Unit price	In previous version the discount was Zero and Unit price was copied from the price entered by Add on	If wish to have previous behavior user can enter the price in the new Unit Price Field (without enter discount.	INV1	DiscountPercent	Lines	Add invoices

UI API

#	Topic	Short Description	Impact/problem for Add-on	Possible solution	Table name	Field name	Object name (in the DI/UI API)	Method name (in the DI/UI API)
1	Unfreezing action on a form automatically refreshing the form. There is no need as in previous versions to call the update method for each item.	Unfreezing action on a form was changed inside the application to apply automatically the changes made on the form during the freeze period into the form. This means that inside the unfreeze code we automatically update all the items needed. There is no need to call explicit item.update on each item in the Add-on code.	The same Add-on code will work but slower. Calling the update method by the Add-on itself will not cause any change in behavior, except it might cause the Add-on to work slower.(since this is inefficient to call it twice)	When unfreezing the form, if there is a code in the Add-on that updates all the items, you can remove this code.			Form Item	Freeze (false) update

#	Topic	Short Description	Impact/problem for Add-on	Possible solution	Table name	Field name	Object name (in the DI/UI API)	Method name (in the DI/UI API)
2	New exception is thrown when setting illegal value to invisible user Cell. (That its column bounded to a float or Date field)	<p>In previous versions :</p> <p>When setting Value to invisible Cell (oCol.Cells(1).Specific) oEdit.String = illegal value</p> <p>Which its column was Bounded to DBField: (Ft_Date ,ft_float)</p> <p>Or to user field from types (MEASURE, dt_PRICE, dt_RATE, dt_PERCENT)</p> <p>The value was corrupted but no exception was thrown.</p> <p>In the current version: Setting illegal value will throw exception in the case above.</p>	See description.	Check the value before entering it to the String property Or catch the exception.			(Cell) EditText	String

UDO

#	Topic	Short Description	Impact/problem for Add-on	Possible solution	Table name	Field name	Object name (in the DI/UI API)	Method name (in the DI/UI API)
	Case sensitivity of UDT names on DB2	Example: When UDF e.g. "EarlTest" (=> U_EarlTest) is created then call: oDoc.Lines.UserFields.Fields.Item("U_Earltest") raises an exception: "Invalid Field Name". In 2005 MR the call worked.	If the UDT name referred to in Add-on is not matching exactly its name in DB2 schema then UDT will not be recognized	Align all UDT names references in Add-on to match the respective names in DB2 schemas.	All			

Important Notes

- Partners upgrading to 2005 A SP1 from versions prior to 2004 A or 2005 A should read Known Incompatibility for 2004 A and the 2005A file
Issues such as menu changes, new exceptions and so on must be addressed when upgrading from 6.5 or other versions prior to 2004 A.
- Add-ons that use (for un-exposed objects) the *Record Set* for example, and were dependant on the DB structure can face compatibility problems in case of DB structure change. Look at the list of DB structure changes.
- Major change in the UI of the application was done in marketing document in the push and pull document option. Please pay attention. For the rest if changes in the GUI and in the Database please see the GUI and DB changes report.