

# ERP-203 Icertis Total Contract Value calculation with multiple amendments

Status	Approved
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Jira Request ID	<div style="border: 1px solid orange; padding: 5px;">  ERP-151 - Jira project doesn't exist or you don't have permission to view it.         </div>
Jira Development ID	<div style="border: 1px solid orange; padding: 5px;">  ERP-203 - Jira project doesn't exist or you don't have permission to view it.         </div>

## High- Level Specification

Parameter	Value
Application System	Icertis
Business Process Reference	03.03.04.01 Create Agreement/Amendment

## Functional Overview

This enhancement enables automated calculation and tracking of the **Total Contract Value (TCV)** for agreements in Icertis, including all amendments, so that the correct calculation can be sent to ECC Outline Agreement. The TCV is defined as the sum of the original contract value and the values of all amendments in local currency.

## Scope and Objectives

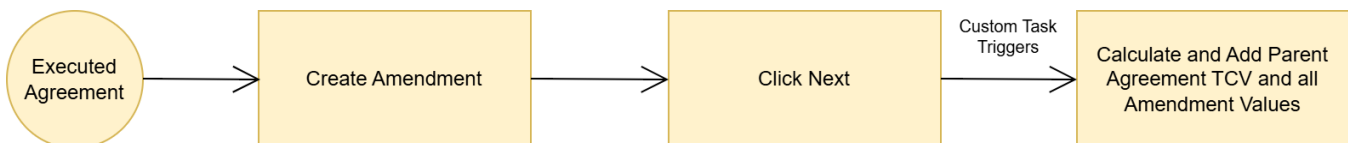
### Scope:

- Automate the calculation of TCV as:  
 $TCV = \text{Original Contract Value} + \text{All Amendment Values}$
- Support both agreement creation/update and amendment (supersede) events.

### Objectives:

- Eliminate manual calculation or entry of TCV by users.
- Send updated TCV value to ECC.

## Process Flow Diagram



Step	Description	Comment
1	User creates or updates an Agreement	Contract Value is entered/updated

2	On "Next" (UI) or Save, system copies Contract Value to TCV	UI-level customization
3	User creates an Amendment	Amendment Value is entered
4	Custom Task on Supersede Event triggers	Event Custom Task
5	System sums Parent Agreement TCV + all Amendment Values	Automated calculation
6	System updates Agreement's TCV field	TCV reflects all amendments

## Assumptions

- Contract values and amendment contract value are maintained in Euro. The Total Contract Value will be done in Local currency
- Amendments are always linked to their parent agreement
- The custom fields for TCV and Previous TCV exist and are available for use.
- The system can trigger custom tasks on both UI actions and workflow events.
- ECC will use business APIs to retrieve the correct values for Outline Agreements

## Dependencies

- Data migration for existing agreements/amendments may be required.

## Security, Integrity and Controls

NA

## Configuration Requirements

- Custom fields for TCV and Previous TCV must be configured in Icertis.
- Event Custom Task must be configured for the Supersede Event.
- UI customization on the "Next" button for agreement creation/update.

## Language Requirements

NA

## Special Requirements

NA

## Design Rationale

## Functional Requirements

- **Automated TCV Calculation:**
  - On agreement creation or update, TCV is set to the contract value.
  - On amendment creation, the amendment value is added to the parent agreement's TCV.
  - On supersede event, TCV is recalculated as the sum of the original contract value and all amendments.
- **UI and Workflow Integration:**
  - TCV field is updated on "Next" or "Save" actions in the UI.
- **Validation:**
  - Contract and amendment values must be in the same currency.
  - System prevents saving if required values are blank or currencies mismatch.
- **Audit and Logging:**
  - All changes to TCV and Previous TCV are logged for audit purposes.
- **Error Handling:**
  - User is notified if values are missing or currencies do not match.

## Proposed Technology to Use

ASP.Net MVC

## Data Source Considerations

Not Applicable

## Data Validation Considerations

Not Applicable

## Custom Tables

Not Applicable

## Master Data

Not Applicable

## Configuration Table

Field	Description	Data Type/Length	Validation rule/ Value Help

## Selection Screen Enhancement

Not Applicable

Field Name	Description	Select:	Data Type/Length	Default Value/ Validation rule/ Value Help	Selection Logic

## Processing Logic

- **Agreement Creation/Update**
  - When a user creates or updates an agreement, the system captures the Contract Value (in Euro or local currency).
  - On clicking "Next" or "Save," the system copies the Contract Value to the TCV field.
  - If the agreement is being updated, the TCV field is overwritten with the new Contract Value.
- **Amendment Creation**
  - When a user creates an amendment, the system requires the Amendment Value and ensures the currency matches the parent agreement.
  - If the currency does not match, the system throws a validation error and prevents the amendment from being saved.
- **Supersede Event (Amendment Activation)**
  - When an amendment is activated (supersede event), a custom event task is triggered.
  - The system retrieves the parent agreement's TCV and all related amendment values.
  - The system calculates the new TCV as:  
$$\text{TCV} = \text{Original Contract Value} + (\text{All Amendment Values})$$
$$\text{TCV} = \text{Original Contract Value} + \sum (\text{All Amendment Values})$$
  - The Previous TCV field is updated with the last known TCV before recalculation.
  - The TCV field is updated with the new cumulative value.
- **Validation and Error Handling**
  - The system validates that all required fields (Contract Value, Amendment Value) are populated.
  - If any required value is missing or currencies do not match, the system prevents saving and displays an appropriate error message.
  - All changes to TCV and Previous TCV are logged in the audit trail for traceability.
- **Audit Logging**
  - Every update to TCV and Previous TCV, as well as amendment creation and supersede events, are recorded in the audit log for compliance and review.

## Volumetrics

Not Applicable

# Performance Considerations

Not Applicable

# Error Handling

Not Applicable

# Testing

## How to Test

This section outlines the test scenarios, conditions, and expected results to validate the enhancement for Total Contract Value (TCV) calculation.

## Test Conditions and Expected Results

ID	Condition	Expected Result
1	Agreement Creation - Create a new agreement with a Contract Value in local currency. Click "Next" or Save.	TCV field is populated with the same value as Contract Value.
2	Agreement Update - Update the Contract Value of an existing agreement. Click "Next" or Save.	TCV field is updated to reflect the new Contract Value.
3	Amendment Creation - Create an amendment linked to an existing agreement. Enter Amendment Value.	Amendment is created successfully.
4	Supersede Event Trigger - Supersede the agreement via amendment. Trigger Event Custom Task.	Previous TCV field is updated with the last known TCV.
5	TCV Recalculation - After supersede, verify that $TCV = \text{Original Contract Value} + \text{All Amendment Values}$ .	TCV field reflects the correct cumulative value.
7	Currency Validation - Create agreement in local currency (e.g., INR, USD).	TCV calculation uses local currency. No conversion to Euro.
7	Amendment Currency Mismatch - Create amendment with a different currency than parent agreement.	System throws validation error. Amendment cannot proceed.
8	Audit Log Verification - Perform agreement update and amendment creation.	Audit log captures changes to TCV and Previous TCV.
9	Error Handling - Leave Contract Value or Amendment Value blank.	System prevents save and displays appropriate error message.

## Test Considerations/Dependencies

Not Applicable

## Other Information

Not Applicable

## Development Details

### Package

Package Name	Parent Package

## Enhancement Implementation

Enhancement Type	Standard Definition Name	Custom Implementation Name	Design Rationale Reference
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## Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

## Appendix

### Custom Authorization Group Naming Convention

This table is based on the Syensqo development standards document. It provides the naming conventions for authorization groups to associated with custom reports and tables to comply with security requirements.

<b>ABAP</b>	ZFI	ZMM	ZPS	ZCO	ZSD	ZBC	ZFI	ZCA
<b>TABLES</b>	ZFIT	ZMMT	ZPST	ZCOT	ZSDT	ZBCT	ZFIT	ZCAT

## See also

File	Modified
Microsoft Word Document CustomEventTask UT.docx	Apr 15, 2026 by TILBEE-ext, Amanda
Microsoft Word Document CustomHookUT.docx	Apr 15, 2026 by TILBEE-ext, Amanda
File -TCV Value.tmp draw.io Draft	Oct 22, 2025 by RAI-ext, Praveen
File TCV Value draw.io diagram	Oct 22, 2025 by RAI-ext, Praveen

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## Change log

Version	Published	Changed By	Comment
<b>CURRENT (v. 12)</b>	<b>Oct 24, 2025 14:05</b>	<b>WENNINGER-ext, Sascha</b>	
v. 11	Oct 22, 2025 09:17	RAI-ext, Praveen	
v. 10	Oct 22, 2025 09:15	RAI-ext, Praveen	
v. 9	Oct 22, 2025 09:07	RAI-ext, Praveen	
v. 8	Oct 22, 2025 08:52	RAI-ext, Praveen	
v. 7	Oct 20, 2025 09:13	RAI-ext, Praveen	
v. 6	Oct 20, 2025 09:11	RAI-ext, Praveen	
v. 5	Oct 20, 2025 09:09	RAI-ext, Praveen	
v. 4	Oct 12, 2025 18:04	RAI-ext, Praveen	
v. 3	Oct 12, 2025 17:54	RAI-ext, Praveen	

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# Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Oct 24, 2025	Actor	Type	Activity	Version
Approved	 WENNINGER-ext, Sascha	Edit	updated the page at 2:05 pm	
	 TILBEE-ext, Amanda	State	changed state to <b>Approved</b> at 12:49 pm	v12
Lead Approval	 TILBEE-ext, Amanda	State	gave <i>POD Lead Review</i> approval at 12:49 pm	
	 WENNINGER-ext, Sascha	State	changed expiry date to '31 Oct, 2025 01:07 pm' at 12:07 pm	
		State	changed state to <b>Lead Approval</b> at 12:07 pm	v12
Tech Review	 WENNINGER-ext, Sascha	State	gave <i>Tech Review</i> approval at 12:07 pm	
			<i>Reviewed and endorsed by Wytse as per page comment</i>	