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The IDataBook Iinterface defines the possible events that can occur while using DataBooks. These events are triggered on different occasions. The following instructions show the possible event triggers and the exact event sequence.

Triggers

Saving Records



Discarding Changes



Inserting Records



Editing Records





Deleting Records



Row Change



Column Change



Updating Data



Row Change in Master



Examples

Insert

Event	Description
BEFORE INSERTING	• Change current selection, e.g., to always insert in the first or last row • Throw exception to prevent insertion
AFTER INSERTING	Set default values
BEFORE INSERTED	• Input-independent change of values • If writeback is deactivated, a server action can be called to perform the insertion
AFTER INSERTED	Process server-tier data

Update

Event	Description
BEFORE UPDATING	Manual locking
AFTER UPDATING	Control visibility or en-/disable components. For example, when editing is not permitted
BEFORE UPDATED	• Calculate dynamic columns and copy values into writeback columns • If writeback is deactivated, a server action can be called to perform the update
AFTER UPDATED	Process server-tier data

Delete

Event	Description
BEFORE DELETING	• Throw exception to prevent deletion • Delete prompt. For this purpose, the Isolation Level is set to DATA_SOURCE and a dialogue is displayed. Upon confirmation, saveSelectedRow() is called and the Isolation Level is reset. If cancelled, restoreSelectedRow() is called and the Isolation Level is reset.
AFTER DELETING	Call saveSelectedRow() at the DATA_SOURCE Isolation Level
BEFORE DELETED	If writeback is deactivated, a server action can be called to perform the deletion
AFTER DELETED	Calculate sums

Restore

Event	Description
BEFORE RESTORE	Throw exception to NOT discard changes
AFTER RESTORE	Update GUI/status

Value Changed

Event	Description
VALUE CHANGED	• Change dependent values • Reset the changed value • Save row after each value change

Row Selected

Event	Description
BEFORE ROW SELECTED	Throw exception to prevent leaving the row
AFTER ROW SELECTED	Control visibility or en-/disable components after a row change

Column Selected

Event	Description
BEFORE COLUMN SELECTED	Throw exception to prevent leaving the column
AFTER COLUMN SELECTED	Control visibility or en-/disable components after a column change

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