

# Hinzufügen eines Feldes in der Validierung (bis Squeeze BC APP Version 1.\*)

Im Folgenden wird anhand einer Beispielerextension dargestellt, wie man als Entwickler Felder in der Validierung hinzufügen kann.

## Benötigte Integration Events inkl. beispielhafter Prozeduren:

```
codeunit 50100 EventSubs
{
    //
    //Any header field that you want to transfer to the resulting document, has to be added
to the source JSON Object
    //
    [EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ Document Mgt.",
' OnBeforeAddLineToDocumentJObj', '', false, false)]
    local procedure SQZDocMgtOnBeforeAddLineToDocumentJObj(var DocumentJObj: JsonObject;
DocHeader: Record "DXP SQZ Document Header")
    begin
        AddCustomHeaderFieldsToJson(DocumentJObj, DocHeader);
    end;

    //
    // Any line field that you want to transfer to the resulting document, has to be added to
the source JSON Object
    //
    [EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ Document Mgt.",
' OnBeforeAddLineJObjToLineJArray', '', false, false)]
    local procedure SQZDocMgtOnBeforeAddLineJObjToLineJArray(var LineJObj: JsonObject;
DocLine: Record "DXP SQZ Document Line")
    begin
```

```

        AddCustomLineFieldsToJson(LineJObj, DocLine);
    end;

    //
    // [If you want to perform plausibility checks on the newly added header field, this is
the place]
    //
    [EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ Document Mgt.",
' OnAfterDoHeaderPlausibilityChecks', '', false, false)]

    local procedure SQZDocMgtOnBeforeDoHeaderPlausibilityChecks(DocHeader: Record "DXP SQZ
Document Header"; var PlausibilityCheck: Codeunit "DXP Plausiblity Check Mgt.")
    begin
        CheckCustomer(PlausibilityCheck, DocHeader."Customer No.");
    end;

    //
    // [If you want to perform plausibility checks on the newly added line field, this is the
place]
    //
    [EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ Document Mgt.",
' OnAfterDoLinePlausibilityChecks', '', false, false)]

    local procedure SQZDocMgtOnAfterDoLinePlausibilityChecks(DocHeader: Record "DXP SQZ
Document Header"; DocLine: Record "DXP SQZ Document Line"; var PlausibilityCheck: Codeunit
"DXP Plausiblity Check Mgt.")
    begin
        CheckCustomer(PlausibilityCheck, DocLine."Customer No.");
    end;

    //
    // The value of the previously extended JSON Object now has to saved to the corresponding
field in the SQUEEZE Document Line
    //
    [EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ Document Mgt.",
' OnBeforeModifySQUEEZEDocumentHeader', '', false, false)]

    local procedure SqzDocMgtOnBeforeModifySQUEEZEDocumentHeader(var DocHeader: Record "DXP
SQZ Document Header"; RawJson: JsonObject)
    var
        JSONHelper: Codeunit "DXP Json Helper";
        SQZApiTokenMgt: Codeunit "DXP SQZ API Token Mgt.";
        TokenMgt: Codeunit TokenMgt;

```

```

begin
    DocHeader."Customer No." := COPYSTR( JsonHelper.ValAsTxt(RawJson,
SQZApiTokenMgt.GetHeaderValueByNameTok( TokenMgt.GetCustomerNoTok()), false), 1,
MaxStrLen(DocHeader."Customer No."));
end;

//
// The value of the previously extended JSON Object now has to saved to the corresponding
field in the SQUEEZE Document Header
//
[ EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ Document Mgt.",
' OnBeforeTransferRecognizedValuesOnAfterAssignRecognizedValues', '', false, false)]
    local procedure
SQZDocMgtOnBeforeTransferRecognizedValuesOnAfterAssignRecognizedValues(RowJTok: JsonToken;
var DocLine: Record "DXP SQZ Document Line")
var
    JSONHelper: Codeunit "DXP Json Helper";
    SQZApiTokenMgt: Codeunit "DXP SQZ API Token Mgt.";
    TokenMgt: Codeunit TokenMgt;
begin
    DocLine."Customer No." := CopyStr( JsonHelper.ValAsTxt(RowJTok.AsObject(),
SQZApiTokenMgt.GetCellValueTok( TokenMgt.GetCustomerNoTok()), false), 1,
MaxStrLen(DocLine."Customer No."));
end;

//
// The newly added fields now have to be added to the field mapping
// Otherwise the recognized values will be saved as meta data
// This step is necessary to make sure that the fields can be highlighted in the SQUEEZE
Viewer
//
[ EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP SQZ API Mgt.",
' OnAfterInitMapping', '', false, false)]
    local procedure SQZApiMgtOnAfterInitMapping(var HeaderMapping: Dictionary of [Text,
Integer]; var LineMapping: Dictionary of [Text, Integer]; DocClass: Enum "DXP Document Class")
var
    SQZDocHeader: Record "DXP SQZ Document Header";
    SQZDocLine: Record "DXP SQZ Document Line";
    TokenMgt: Codeunit TokenMgt;
begin

```

```

// The standard (without installed extensions) supports one Document Class
case DocClass of
    DocClass::"DXP Invoice / Credit Memo":
        begin
            HeaderMapping.Add( TokenMgt.GetCustomerNoTok(),
SQZDocHeader.FieldNo("Customer No."));
            LineMapping.Add( TokenMgt.GetCustomerNoTok(), SQZDocLine.FieldNo("Customer
No. "));
        end;
    end;
end;

//
// The value in the JSON Object now has to be transferred to the Purchase Header
//
[EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP Document Transfer Mgt.",
'OnAfterCreatePurchaseHeader', '', false, false)]
    local procedure DocTransferMgtOnAfterCreatePurchaseHeader( var JObject: JsonObject;
PurchaseHeader: Record "Purchase Header")
    begin
        TransferCustomHeaderFieldFromJsonToPurchaseHeader( JObject, PurchaseHeader);
    end;

//
// The value in the JSON Object now has to be transferred to the Purchase Line
//
[EventSubscriber(ObjectType::Codeunit, Codeunit::"DXP Document Transfer Mgt.",
'OnBeforeInsertPurchaseLine', '', false, false)]
    local procedure DocTransferMgtOnAfterInsertPurchaseLineOnBeforeAddDimensions( var
JsonObjectLine: JsonObject; var PurchaseLine: Record "Purchase Line")
    begin
        TransferCustomHeaderFieldFromJsonToPurchaseLine( JsonObjectLine, PurchaseLine);
    end;

    local procedure TransferCustomHeaderFieldFromJsonToPurchaseHeader( var JObject:
JsonObject; PurchaseHeader: Record "Purchase Header")
    var
        JsonHelper: Codeunit "DXP Json Helper";
        TokenMgt: Codeunit TokenMgt;
    begin

```

```

        PurchaseHeader.Validate("DXP Customer No.", JsonHelper.ValAsTxt(JObject,
TokenMgt.GetCustomerNoTok(), false));

        PurchaseHeader.Modify();

    end;

    local procedure TransferCustomHeaderFieldFromJsonToPurchaseLine( var JObjectLine:
JsonObject; var PurchaseLine: Record "Purchase Line")
    var
        JsonHelper: Codeunit "DXP Json Helper";
        TokenMgt: Codeunit TokenMgt;
    begin
        PurchaseLine.Validate("DXP Customer No.", JsonHelper.ValAsTxt(JObjectLine,
TokenMgt.GetCustomerNoTok(), false));
    end;

    local procedure AddCustomHeaderFieldsToJson( var DocumentJObj: JsonObject;
SQZDocumentHeader: Record "DXP SQZ Document Header")
    var
        TokenMgt: Codeunit TokenMgt;
    begin
        DocumentJObj.Add( TokenMgt.GetCustomerNoTok(), SQZDocumentHeader."Customer No.");
    end;

    local procedure AddCustomLineFieldsToJson( var LineJObj: JsonObject; SQZDocumentLine:
Record "DXP SQZ Document Line")
    var
        TokenMgt: Codeunit TokenMgt;
    begin
        LineJObj.Add( TokenMgt.GetCustomerNoTok(), SQZDocumentLine."Customer No.");
    end;

    [ TryFunction]
    local procedure CustomerExists( CustomerNo: Code[ 20] )
    var
        Customer: Record Customer;
    begin
        Customer.Get( CustomerNo );
    end;

    local procedure CheckCustomer( var PlausibilityCheck: Codeunit "DXP Plausiblity Check

```

```

Mgt."; CustomerNo: Code[20]): Boolean
begin
    if CustomerNo = '' then
        exit(false);

    if not CustomerExists(CustomerNo) then begin
        PlausibilityCheck.AddPlausibilityCheckEntry(GetLastErrorText(), Page: "Customer
List");
        exit(false);
    end;

    exit(true);
end;
}

```

## Table Extensions:

### SQUEEZE 4 BC

```

tableextension 50100 "SQZ Doc. Header Ext." extends "DXP SQZ Document Header"
{
    fields
    {
        field(50100; "Customer No."; Code[20])
        {
            TableRelation = Customer;
            ValidateTableRelation = false;
            Caption = 'Customer No.';
        }
    }
}

```

```

tableextension 50101 "SQZ Doc. Line Ext." extends "DXP SQZ Document Line"
{
    fields
    {
        field(50100; "Customer No."; Code[20])
        {
            TableRelation = Customer;
            ValidateTableRelation = false;
        }
    }
}

```

```

        Caption = 'Customer No.';
    }
}
}

```

## Zielbeleg (hier: Einkaufsbeleg)

```

tableextension 50102 "Purchase Header Ext." extends "Purchase Header"
{
    fields
    {
        field(50100; "DXP Customer No."; Code[20])
        {
            DataClassification = CustomerContent;
            TableRelation = Customer;
            Caption = 'DEXPRO Customer No.';
        }
    }
}

```

## Page Extensions:

### SQUEEZE 4 BC

```

pageextension 50100 "SQZ Document Ext." extends "DXP SQZ Document"
{
    layout
    {
        addafter(BuyFromVendorInternal)
        {
            field("Customer No. Internal"; Rec."Customer No.")
            {
                ApplicationArea = All;
                ToolTip = 'Specifies the value of the Customer No. field.';
                trigger OnAssistEdit()
                begin
                    MarkField(Rec.FieldNo("Customer No."), Rec."Customer No.",
Rec);
                end
            }
        }
    }
}

```

```

        end;

        trigger OnValidate()
        begin
            CheckPlausibility();
        end;
    }
}
addafter(BuyFromVendor)
{
    field("Customer No."; Rec."Customer No.")
    {
        ApplicationArea = All;
        ToolTip = 'Specifies the value of the Customer No. field.';
        trigger OnAssistEdit()
        var
            ApiMgt: Codeunit "DXP SQZ API Mgt.";
            ViewerResident: Codeunit "DXP SQUEEZE Viewer Resident";
        begin
            MarkField(Rec.FieldNo("Customer No."), Rec."Customer No.",
Rec);
        end;

        trigger OnValidate()
        begin
            CheckPlausibility();
        end;
    }
}
}

local procedure MarkField(AppFldNo: Integer; FieldVal: Variant; DocHeader: Record "DXP
SQZ Document Header")
var
    ApiMgt: Codeunit "DXP SQZ API Mgt.";
    ViewerResident: Codeunit "DXP SQUEEZE Viewer Resident";
begin
    ViewerResident := GetViewerResident();
    ApiMgt.MarkField(AppFldNo, FieldVal, ViewerResident, DocHeader);
end;

```

```
}
```

```
pageextension 50101 "SQZ Document Sf. Ext." extends "DXP SQZ Document Subform"
{
    layout
    {
        addafter("No.")
        {
            field("Customer No."; Rec."Customer No.")
            {
                ApplicationArea = All;
                ToolTip = 'Specifies the value of the Customer No. field.';
            }
        }
    }
}
```

## Zielbeleg (hier: Einkaufsbeleg)

```
pageextension 50102 "Purchase Invoice Ext." extends "Purchase Invoice"
{
    layout
    {
        addafter("Buy-from Vendor No.")
        {
            field("DXP Customer No."; Rec."DXP Customer No.")
            {
                ToolTip = 'Specifies the value of the DEXPRO Customer No.
field.';
                ApplicationArea = all;
            }
        }
    }
}
```

```
pageextension 50103 "Purchase Inv. Sf Ext." extends "Purch. Invoice Subform"
{
    layout
    {
        addafter("No.")
```

```

        {
            field("DXP Customer No."; Rec."DXP Customer No.")
            {
                Tooltip = 'Specifies the value of the DEXPRO Customer No.
field.';
                ApplicationArea = all;
            }
        }
    }
}

```

## Optionale Hilfsobjekte:

```

codeunit 50101 TokenMgt
{
    procedure GetCustomerNoTok(): Text
    begin
        exit( CustomerNoTok);
    end;

    var
        CustomerNoTok: Label 'customerNo', Locked = true;
}

```

---

Revision #9

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