# Adding a field in the validation (from version 2.0)

The following uses an example extension to show how, as a developer, you can add fields in the validation (here: document class Invoice/Credit Memo).

## Required integration events including example procedures:

```
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 P. Inv/Crdt Memo Impl.", 'OnBeforeAddLineToDocumentJObj', '', false, false)]
    local procedure SQZPInvCrdtMemoImplOnBeforeAddLineToDocumentJObj(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 P. Inv/Crdt Memo Impl.", 'OnBeforeAddLineJObjToLineJArray', '', false, false)]
    local procedure SQZPInvCrdtMemoImplOnBeforeAddLineJObjToLineJArray(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 P. Inv/Crdt Memo Impl.",
'OnAfterDoHeaderPlausibilityChecks', '', false, false)]
    local procedure SQZPInvCrdtMemoImplOnBeforeDoHeaderPlausibilityChecks(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 P. Inv/Crdt Memo Impl.",
'OnAfterDoLinePlausibilityChecks', '', false, false)]
    local procedure SQZPInvCrdtMemoImplOnAfterDoLinePlausibilityChecks(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 also 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
        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
JObjectLine: JsonObject; var PurchaseLine: Record "Purchase Line")
    begin
        TransferCustomHeaderFieldFromJsonToPurchaseLine(JObjectLine, 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.';
        }
    }
}
```

## Target document (here: purchase document)

```
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 v2"
{
    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;

                trigger OnValidate()
                begin
                    CheckPlausibility();
                end;
            }
        }
        addafter(BuyFromVendorExternal)
        {
```

```
            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.';
            }
        }
    }
}
```

## Target document (here: purchase document)

```
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;
            }
        }
    }
}
```

## Optional helper objects:

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

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

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