

# Adding a field in the validation (up to Squeeze Version 1.\*)

The following is an example extension that shows how developers can add fields in validation.

Required integration events incl. sample 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 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
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));
    end;

```

```

        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: purchasing 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"  
{  
    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(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.';
            }
        }
    }
}

```

## Target document (here: purchasing 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 auxiliary objects:

```

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

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

```

---

Revision #2

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