

# Validation Configuration

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## Overview

In Genpact Deduction Management, a case is considered valid or invalid or partially valid for deductions based on some pre-defined rule. The *document-validation-type.yaml* file defines the respective fields from the header, line-level and the POD data, which are considered for validation.

The *document-validation.yaml* file configures the rules for validation of the extracted header, line-item and POD data. Based on fulfillment of these pre-defined rules the deduction case is marked as Valid, Invalid or Partially valid and processed accordingly.

The *caseform-validation-statuses.yaml* file defines the available validation status for a case in the portal and the system.

The *caseform-invalid-reasons.yaml* file configures the deduction invalid reasons that can be chosen and will appear in the case details in the portal.

## Sample YAML settings

caseform-validation-statuses.yaml

```
kind: document
metadata:
  name: deduction/v1/documents/caseform-validation-statuses
spec:
  values:
    - "valid"
    - "invalid"
    - "partial"
    - "empty"
```

Parameter	Description
values	The values for the validation status. <ul style="list-style-type: none"><li>• Valid</li><li>• Invalid</li><li>• Partial</li><li>• Empty</li></ul>

caseform-invalid-reasons.yaml

```

kind: document
metadata:
  name: deduction/v1/documents/caseform-invalid-reasons
spec:
  values:
    - "asaf test"
    - "test"
    - "POD does not support shortages"
    - "POD support partial shortages"
    - "Deducted SKU is not invoiced"
    - "Customer deducted at higher price"
    - "UOM issue"

```

Parameter	Description
values	The reasons for an invalid status.

document-validation-types.yaml

```

kind: document
metadata:
  name: deduction/v1/documents/document-validation-types
spec:
  # -----
  # HEADER
  # -----
  - name: "Header"
    fields:
      - fieldName: InvoiceNumber
        type: "System.String"
        defaultNull:
      - fieldName: ReasonCode
        type: "System.String"
        defaultNull:
      - fieldName: DeductionStatus
        type: "System.String"
        defaultNull:
      - fieldName: CustomerID
        type: "System.String"
        defaultNull:
      - fieldName: Amount
        type: "System.Decimal"
        defaultNull: 0
      - fieldName: InvoiceBillQuantity
        type: "System.Decimal"
        defaultNull: 0
      - fieldName: PO_OrderNumber
        type: "System.String"
        defaultNull:
      - fieldName: Bol
        type: "System.String"
        defaultNull:
      - fieldName: Carrier
        type: "System.String"
        defaultNull:
      - fieldName: CarrierReferenceNumber
        type: "System.String"

```

```
type: "System.String"
defaultNull:
- fieldName: PODNumberOfPackages
  type: "System.Decimal"
  defaultNull: 0
- fieldName: Document_provider
  type: "System.String"
  defaultNull:
- fieldName: Carrier_sign
  type: "System.Boolean"
  defaultNull: false
- fieldName: Customer_sign
  type: "System.Boolean"
  defaultNull: false
- fieldName: CustomerName
  type: "System.String"
  defaultNull:
- fieldName: SubjectToCount
  type: "System.Boolean"
  defaultNull: false
```

```
# -----
```

```
# POD
```

```
# -----
```

```
- name: "POD"
fields:
- fieldName: document_provider
  type: "System.String"
  defaultNull:
- fieldName: customer_sign
  type: "System.Boolean"
  defaultNull: false
- fieldName: customer_sign_text
  type: "System.String"
  defaultNull:
- fieldName: carrier_sign
  type: "System.Boolean"
  defaultNull: false
- fieldName: carrier_sign_text
  type: "System.String"
  defaultNull:
- fieldName: subject_to_count
  type: "System.Boolean"
  defaultNull: false
- fieldName: freight_charge_terms
  type: "System.String"
  defaultNull:
- fieldName: total_packages_quantity
  type: "System.Decimal"
  defaultNull: 0
- fieldName: total_lbs_quantity
  type: "System.Decimal"
  defaultNull: 0
- fieldName: Bol
  type: "System.String"
  defaultNull:
- fieldName: TotalShortage
  type: "System.Decimal"
  defaultNull: 0
- fieldName: TotalDamage
  type: "System.Decimal"
  defaultNull: 0
- fieldName: TotalOverage
  type: "System.Decimal"
```

```
type: "System.Decimal"
defaultNull: 0
```

```
# -----
```

```
# PURCHASE ORDER
```

```
# -----
```

```
- name: "PurchaseOrder"
```

```
fields:
```

```
- fieldName: order_number
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: TotalLbsQty
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: TotalPackageQty
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
# -----
```

```
# LINES
```

```
# -----
```

```
- name: "Lines"
```

```
fields:
```

```
- fieldName: InvoiceId
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: InvoiceNumber
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: SKU
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: ProductItemId
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: ItemName
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: CustomerSKU
```

```
  type: "System.String"
```

```
  defaultNull:
```

```
- fieldName: BackupPricePerQty
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: BilledQtyBackup
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: DeductAmt
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: DeductedQty
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: BilledQtyInvoice
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: GrossPrice
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: InvoiceGrossPricePerQty
```

```
  type: "System.Decimal"
```

```
  defaultNull: 0
```

```
- fieldName: InvoiceNetPricePerQty
```

```
  type: "System.Decimal"
```

```

defaultNull: 0
- fieldName: NetPrice
  type: "System.Decimal"
  defaultNull: 0
- fieldName: InvoiceItemDescription
  type: "System.String"
  defaultNull:
- fieldName: InvoiceQtyEach
  type: "System.Decimal"
  defaultNull: 0
- fieldName: Shortage
  type: "System.Decimal"
  defaultNull: 0
- fieldName: Damaged
  type: "System.Decimal"
  defaultNull: 0
- fieldName: Overage
  type: "System.Decimal"
  defaultNull: 0
- fieldName: PackListQuantity
  type: "System.Decimal"
  defaultNull: 0

```

Parameter	Description
name	The name of the type of data, header, line-item or POD.
fields	The fields to be considered for validation.

document-validation.yaml

```

kind: ruleSet
metadata:
  name: deduction/v1/ruleset/document-validation
spec:
  #####
  #####
  # !!!!!!! RULE EXECUTION PRIORITY !!!!!!!
  # Validation rules are evaluated in sequence, from top to bottom.
  # All matching rules will run (not just the first one).
  # However, rules defined earlier take precedence when setting or overriding values.
  # Therefore, place higher-priority or more specific rules at the TOP of each node section.
  # Additionally Any then section must include the line --productItemId: ':it.Line["ProductItemId"]'--
  #####
  #####

  nodes:

  #####
  Clorox #####
  - if: '1 == 1' #'it.Header["CustomerName"] == "Clorox"'
    nodes:

  #####
  # HEADER #####
  - if: 'it.Header["InvoiceBillQuantity"]!=0 and it.Header["InvoiceBillQuantity"] == it.POD["total_packages_quantity"]

```

```
]'  
  then:  
    validationStatus: "Invalid"  
    invalidReason: "POD # packages match in invoice"  
    productitemId: ':it.Line["ProductItemId"]'  
    invalidQuantity: ':it.Line["DeductedQty"]'  
    invalidAmount: ':it.Line["DeductAmt"]'  
  
#####  
# INVALID #####  
  
# 1. Invalid: SKU is not invoiced  
- if: 'it.Line["BilledQtyInvoice"] == 0'  
  then:  
    validationStatus: "Invalid"  
    invalidReason: "SKU is not invoiced"  
    productitemId: ':it.Line["ProductItemId"]'  
    invalidQuantity: ':it.Line["DeductedQty"]'  
    invalidAmount: ':it.Line["DeductAmt"]'  
  
# 2. Invalid: Customer deducted at higher price  
- if: 'it.Line["InvoiceNetPricePerQty"] != 0 and ToDecimal(it.Line["BackupPricePerQty"]) > ToDecimal(it.Line["InvoiceNetPricePerQty"]'  
  then:  
    validationStatus: "Invalid"  
    invalidReason: "Customer deducted at higher price"  
    productitemId: ':it.Line["ProductItemId"]'  
    invalidQuantity: ':it.Line["DeductedQty"]'  
    invalidAmount: ':it.Line["DeductAmt"]'  
  
# 3. Invalid: POD does not support shortages  
- if: 'it.Line["Shortage"] == 0'  
  then:  
    validationStatus: "Invalid"  
    invalidReason: "POD does not support shortages"  
    productitemId: ':it.Line["ProductItemId"]'  
    invalidQuantity: ':it.Line["DeductedQty"]'  
    invalidAmount: ':it.Line["DeductAmt"]'  
  
#####  
# PARTIAL #####  
  
- if: 'it.Line["BilledQtyInvoice"] != 0 and  
  it.Line["BackupPricePerQty"] == it.Line["InvoiceNetPricePerQty"] and  
  it.Line["Shortage"] > 0 and  
  ToDecimal(it.Line["Shortage"]) < ToDecimal(it.Line["DeductedQty"]'  
  then:  
    validationStatus: "Partial Valid"  
    validQuantity: ':Math.Min(ToDecimal(it.Line["Shortage"]), ToDecimal(it.Line["DeductedQty"]))'  
    validAmount: ':Math.Min(ToDecimal(it.Line["Shortage"]), ToDecimal(it.Line["DeductedQty"])) * ToDecimal(it.Line["BackupPricePerQty"]'  
    invalidQuantity: ':ToDecimal(it.Line["DeductedQty"]) - Math.Min(ToDecimal(it.Line["Shortage"]), ToDecimal(it.Line["DeductedQty"]))'  
    invalidAmount: ':ToDecimal(it.Line["DeductedQty"]) - Math.Min(ToDecimal(it.Line["Shortage"]), ToDecimal(it.Line["DeductedQty"])) * ToDecimal(it.Line["BackupPricePerQty"]'  
    invalidReason: "Partial Valid"  
    productitemId: ':it.Line["ProductItemId"]'  
  
#####  
# VALID #####  
  
- if: 'it.Line["BilledQtyInvoice"] != 0 and  
  it.Line["BackupPricePerQty"] == it.Line["InvoiceNetPricePerQty"] and  
  it.Line["Shortage"] == it.Line["DeductedQty"]'
```

```

then:
  validationStatus: "Valid"
  validQuantity: ':it.Line["DeductedQty"]'
  validAmount: ':it.Line["DeductAmt"]'
  invalidQuantity: 0
  invalidAmount: 0
  invalidReason: ""
  productitemId: ':it.Line["ProductItemId"]'

```

```

#####
# DEFAULT NO HIT #####

```

```

- if: 'true'
  then:
    validationStatus: "DEFAULT NO HIT"
    validQuantity: 0
    validAmount: 0
    invalidQuantity: 0
    invalidAmount: 0
    invalidReason: "DEFAULT NO HIT"
    productitemId: ':it.Line["ProductItemId"]'

```

```

#####
Amazon #####

```

```

- if: 'it.Header["CustomerName"] == "Amazon"'
  nodes:
    - if: '1 == 1'
      then:
        validationStatus: "Amazon"
        productitemId: ':it.Line["ProductItemId"]'

```

Parameter	Description
if then	The condition based on which the rules will be applied.
ValidationStatus	The validation status of the case based on rules.
ValidQuantity	The deduction quantity in case of valid deduction.
ValidAmount	The deduction amount in case of valid deduction.
InvalidQuantity	The deduction quantity in case of invalid deduction.
InvalidAmount	The deduction amount in case of invalid deduction.
InvalidReason	The deduction reason in case of invalid deduction.
ProductItemId	The unique Id of the product for which deduction is processed.

For example, in the above template:

```
- if: 'it.Line["BilledQtyInvoice"] != 0 and
      it.Line["BackupPricePerQty"] == it.Line["InvoiceNetPricePerQty"] and
      it.Line["Shortage"] == it.Line["DeductedQty"]'
then:
  validationStatus: "Valid"
  validQuantity: ':it.Line["DeductedQty"]'
  validAmount: ':it.Line["DeductAmt"]'
  invalidQuantity: 0
  invalidAmount: 0
  invalidReason: ""
  productItemId: ':it.Line["ProductItemId"]'
```

If the Billed quantity in invoice is not 0 and the price per quantity in the backup file is equal to the net price per quantity in the invoice and the shortage is equal to the deducted quantity then the deduction is considered valid and the case validation status is set to Valid in the portal.