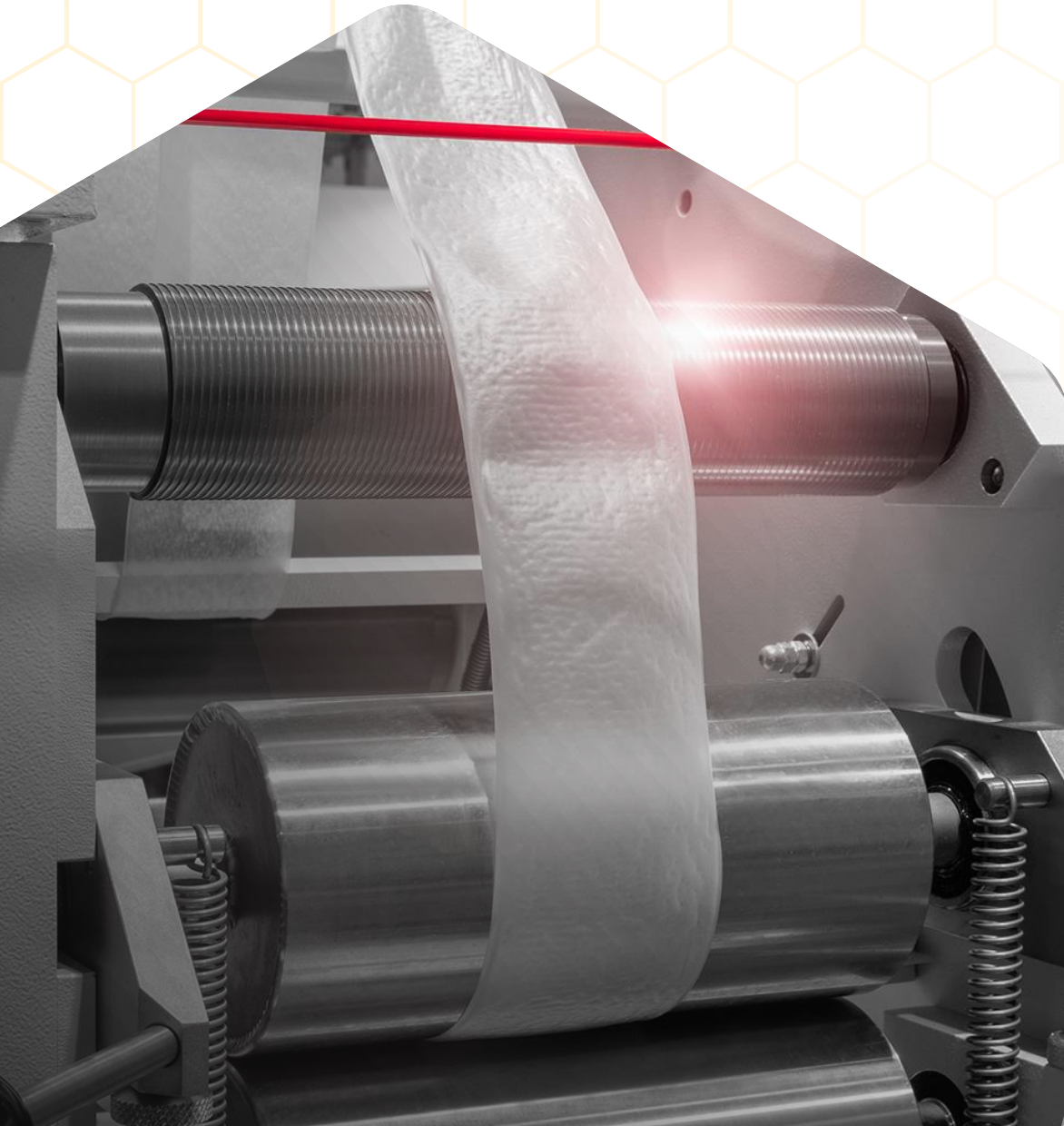


PrintVis

Partner Training 2023

Table Of Contents



Who are we?



Agenda



Get started

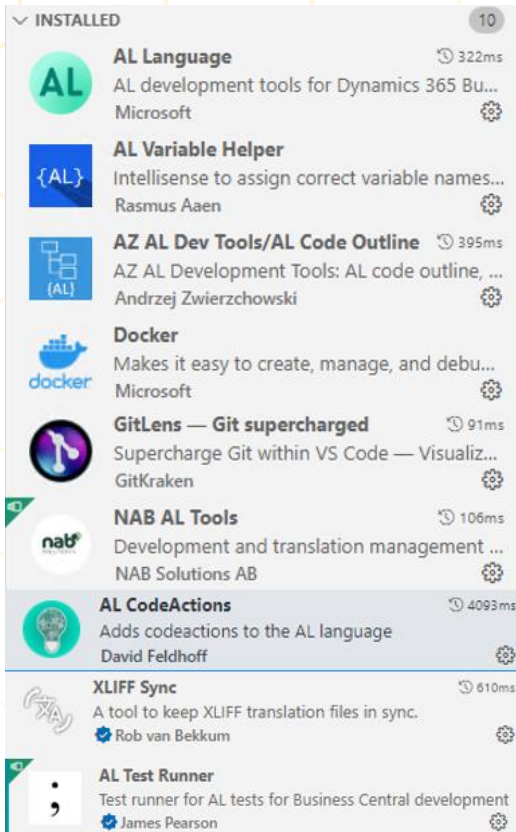


Hands on

Plan

| | 8:30am-10:00am | 10:15am-11:45am | 12:00pm-1:00pm | 1:00pm-2:30pm | 2:45pm-5:30pm |
|-----------|-----------------------------------------------------------------------------|------------------|----------------|-----------------------------------------------|---------------|
| Tuesday | Intro, Demo, Status Code, Calculation formulas, Unit conversion, Userfields | Invoice template | Lunch | ShopFloor Metro, Job Ticket | Upgrades |
| Wednesday | Create case with code | Cloud migration | Lunch | Open session for specific questions | |
| Thursday | One-on-one meetings with a PrintVis developer | | Lunch | One-on-one meetings with a PrintVis developer | |

VS code Extensions



Good looking names on variables
New objects

Makes working with Git easy

Translation tool

Run tests in VS Code

Event Requests

- We are extending PrintVis all the time with new events
 - A new version is shipped every week
 - Use the word document to request
 - We are approving or get back with an alternative solution asap.
-
- If other changes are needed, create a support ticket and explain why.
(we will fix it or guide you to a solution)
 - Local procedures => non-local etc..
 - Adding procedures to PrintVis objects
 - Access to global variables

Bug/issue Reporting

- If you find something that could be a potential bug report it to support365.printvis.com
- Provide as much data as possible, debugger screenshots etc.. Solution proposals.
- If critical, new release ASAP
- If not critical next Tuesday/wednesday
- Support is monitored all business hours (europe) by developer

Demo Data

Demo Data

Trial Data

Trial data can be imported from the *Configuration Packages* page by clicking on the *PrintVis Import and Apply Trial Package* action. It is a smaller demo set that can be used as a sample setup for prospective clients. This does not display all functionality but includes standard commercial print cost centers and sample cases.

Demo database PrintVis 21 (Business Central 21 based)

[Download](#) the release database which contains 7 demo-companies:

- PrintVis Unlimited
- PrintVis Inc.
- PrintVis Bindery
- PrintVis Label
- PrintVis Newspaper
- PrintVis Packaging
- PrintVis JDF Unlimited

Getting started

- Docker containers with traefik
 - Launch files
 - Script used
 - VS Code Extensions ->
- Create extension depending on PrintVis
 - Add something and publish
 - Add dependencies to PrintVis
- Use prefix on all, objects, fields, names
- If ID is used, put in 50000..99999 (even if its not mandatory)

Demo flow – need to know level

- Initial setup
- Estimate
- Quote
- Order
- Material requirement
- Planning
- Planning board
- Shop floor
- Time registration
- Material registration
- Shipment
- Invoicing

Goal:
To be able to follow the flow

PrintVis User

- Change profile to PrintVis Admin
- Create a new PrintVis User
 - Enable: Coordinator, Estimator, Salesperson, Capacity Resource, Assign personal Journal, Allow Archiving, Allow User Field Setup
 - Planning Board: Full Access

Production

Show more

Capacity Manning Co...

Fixed Department

Fixed Department Filt...

In Capacity Group

Shop Floor - Allow C... ☐

Shop Floor - Producti...

Planning Board

Planning Board

Preferences

Default Salesperson

Default Coordinator

Job Costing Journal

Assign Personal Jour... ☐

Permissions

Allow to edit Customer Accounting Fields ☐

Job Costing

Allow Journal Selection ☐

Allow Journal posting ☐

Post Consumption Journal at Close Window ☐

Case

Allow manual change of status ☐

Allow manual responsible ☐

Allow Archiving ☐

Allow Credit Limit Override ☐

Price

Calc. Rate Cost Price ☐

Calc. Rate Cost Addition ☐

Calc. Rate Total Cost ☐

Calc. Rate Total Cost Mark Up ☐

Calc. Rate Sales Price ☐

Calc. Rate Sales Price Mark Up ☐

Calc. Rate Discount % ☐

Invoicing

Allow manual change of Account ☐

Allow Invoice posting ☐

Order Overview

Sees only Salesperson orders ☐


Allow User Field Setup ☐



PRINTVIS

PrintVis General Setup

PrintVis General Setup

 User Fields  Create PrintVis Standard Bitmaps

Logistics

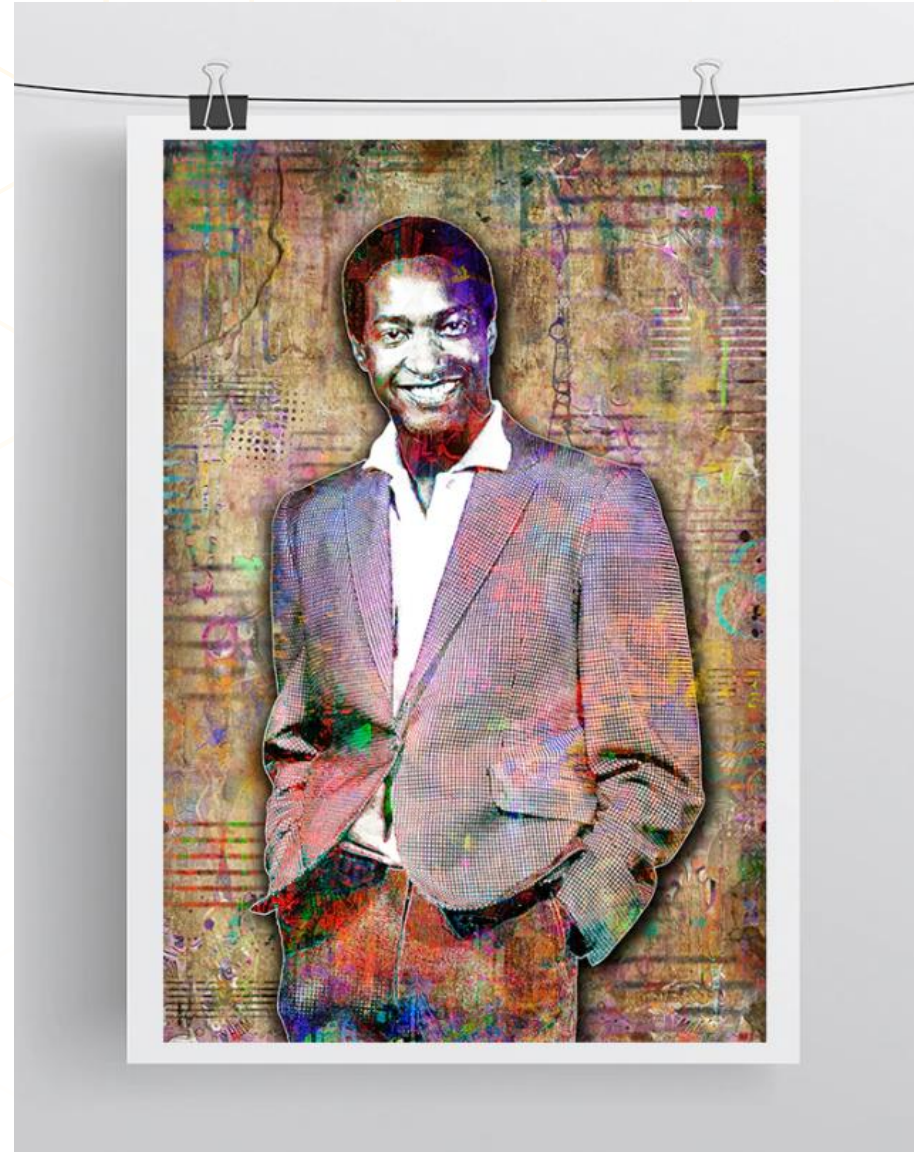
Shipment

| | | |
|---------------------------------|-----------------|---|
| Copy Shipments | Always | ▼ |
| Default delivery address | Sell-To Address | ▼ |
| Receipt Merge Code | | ▼ |
| Way Bill Merge Code | | ▼ |
| Package Labels Merge Code | | ▼ |
| Package Label Text1 | | |
| Package Label Text2 | | |
| Package Label Text3 | | |
| Package Label Text4 | | |
| Package Label Text5 | | |
| Package Label Text6 | | |

| | | |
|-------------------------------------------|-------------------------------------|---|
| Item Journal Template Name | ITEM | ▼ |
| Item Journal Name | PV | ▼ |
| Warehouse Journal Template | ITEM | ▼ |
| Warehouse Journal Batch | DEFAULT | ▼ |
| Create Shipment Item | <input checked="" type="checkbox"/> | |
| Shipment Item Template | ITEM01 | ▼ |
| Shipment Item No. Series | SHIP1 | ▼ |
| Tax Area Code Mandatory on Shipment | <input type="checkbox"/> | |
| Case Shipment Method | No Sales Order | ▼ |
| Shipment Sales Order Removal | On Ship | ▼ |

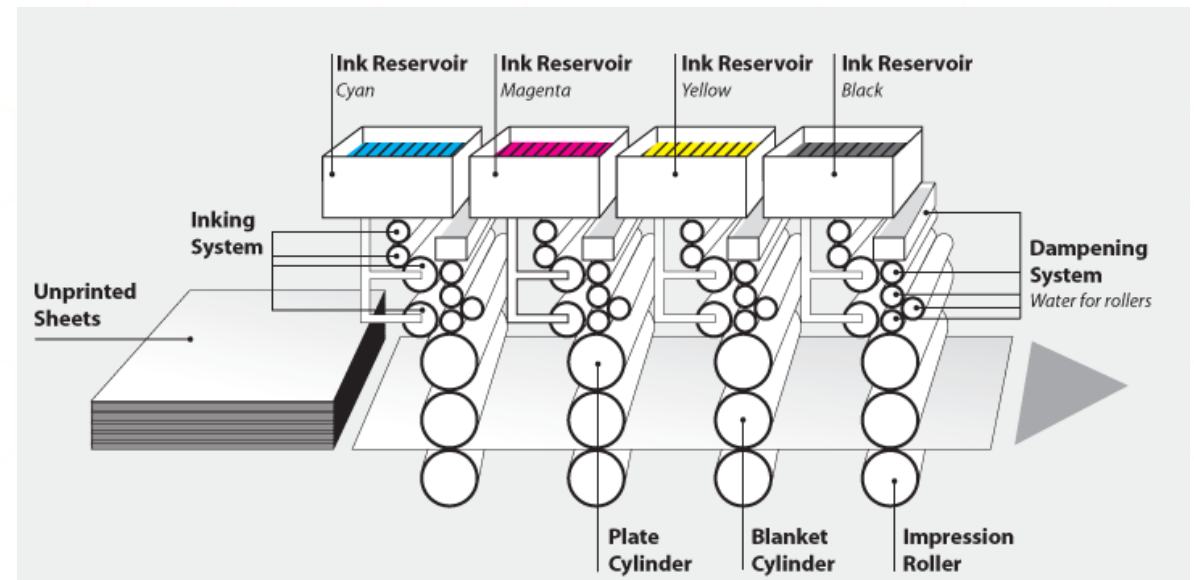
The Product

- Poster
- Size
 - 50 inches width
 - 70 inches height
- Material paper
 - PS-436
 - Finishing 7820
- 4+0 colors



The Process

- Prepress 2 h
- 4 plates
- Ink
- Paper
- Trimming



PrintVis Case

- Case management
- New Case
 - Select Customer
 - Order type DIRECT
 - Product Group POSTER (130)
- Job line
 - Quantity 10000
 - Pages 1
 - Format Code 70x50
 - Colors front 4

This is like the sales order
Describes the business

Format Code 70x50
Width x Length PrintVis General Setup
What unit? See PrintVis Standard Units

PrintVis Standard Units

| Type | Description | Formula Text | Format Factor | Per Paper Weight |
|-----------------|-------------|-------------------------------|---------------|-------------------------------------|
| → Formula | cm | | 1 | <input type="checkbox"/> |
| Margins | mm | cm * 10 | 10 | <input type="checkbox"/> |
| Reel Length | m | cm / 100 | 0.01 | <input type="checkbox"/> |
| Paper Weight | Grammage | Square cm / 1,000 / (100*100) | 0 | <input type="checkbox"/> |
| Paper Thickness | Bulk | cm / Paper Weight * 10,000 | 10,000 | <input checked="" type="checkbox"/> |
| Paper Area | sqm | Square cm / 10,000 | 0.0001 | <input type="checkbox"/> |

PrintVis Job Card

- Job line
 - Click Job Card
 - Select Paper PS-436
 - Select Machine L_5230
 - Add finishing - Optional
 - Check specification

Quantity

Show less

End Quantity

10000

Number of Sheet Sets ..

1

Manual Final Quantity ..

☐

Total

10485

Scrap

485

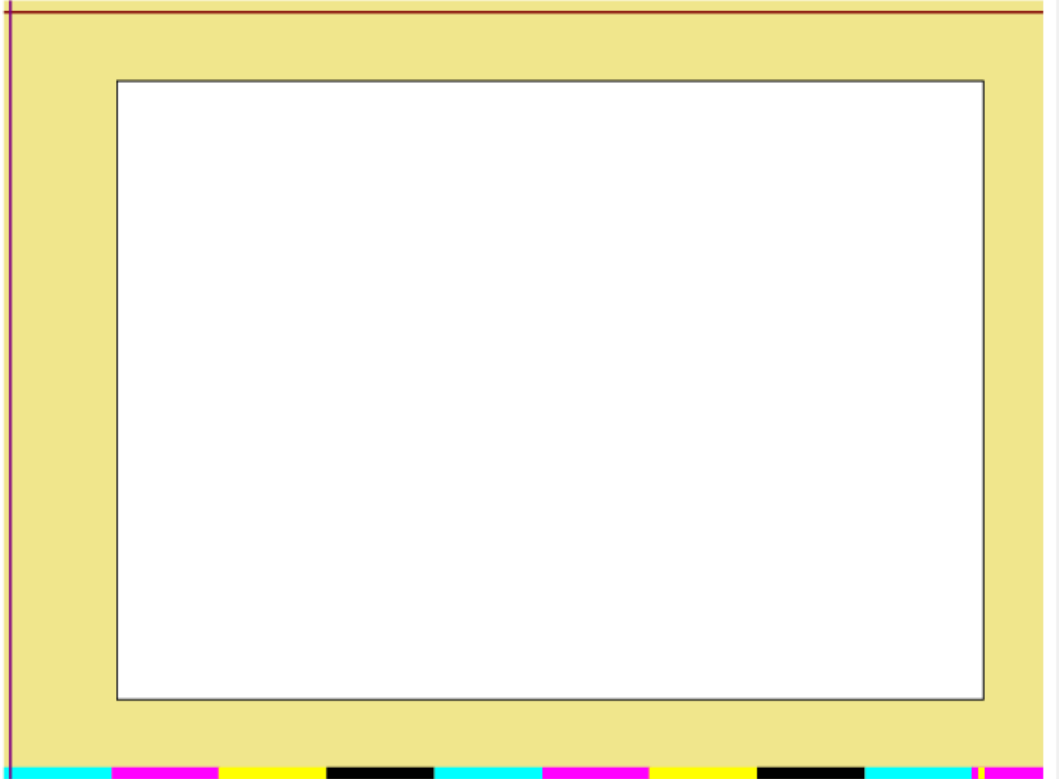
Gross Printed Sheets ..

10485

Manual Printing Sheets ..

☐


Imposition









PrintVis Estimate

✓ Saved  

Estimating |  Search  New  Edit List  Delete  Specifications  Purchase Guide | More options   

| Unit | Text | Info | Sheet No. | Process | Total Time | Offered Price | Error Text |
|--------|----------------------|-------------------------------------------------------------------------------------|-----------|---------|------------|---------------|------------|
| 3000 | DTP operations |  | — | | 2.00 | 163.80 | — |
| 4002 | CTP Plates 76x106 L | + | 1 | 1 | 0.42 | 49.88 | — |
| P_5230 | Paper KBA Rapida 105 | + | 1 | | | 594.04 | — |
| → 5230 | : | + | 1 | 1 | 2.03 | 621.88 | — |
| 7820 | Trimming Pack | + | 1 | 2 | 1.40 | 73.72 | — |
| | | + | | | | | |

Calculation Details |  Manage  Item  Userfields  Change Filter  Fewer options 

| Type | Operation | Item Type | Item No. | Info | Text | Formula Code | Quantity | Ma... Qua... | Unit | Speed | Hours | Ma... Hours | Cost Price | Cost Price is Calculated by |
|------------|-----------|-----------|----------|------|--------------------------|--------------|-----------|--------------------------|------|----------|--------|--------------------------|------------|-----------------------------|
| Hour | 120 | | | + | Plate adjustments | 10 | 4.00 | <input type="checkbox"/> | Pcs. | 6.15 | 0.65 | <input type="checkbox"/> | 223.00 | Hours |
| Hour | 200 | | | + | Printing | 22 | 10,485.00 | <input type="checkbox"/> | Pcs. | 9,263.19 | 1.1319 | <input type="checkbox"/> | 223.00 | Hours |
| Hour | 300 | | | + | Turning/tumbling | 27 | | <input type="checkbox"/> | Pcs. | | | <input type="checkbox"/> | 223.00 | Hours |
| Hour | 400 | | | + | Cleaning special colours | 167 | | <input type="checkbox"/> | Pcs. | | | <input type="checkbox"/> | 223.00 | Hours |
| Material | | Ink | C | + | Cyan | 160 | 4.40 | <input type="checkbox"/> | Kg | | | <input type="checkbox"/> | 1.05998 | Kg |
| Material | | Ink | K | + | Black | 160 | 4.70 | <input type="checkbox"/> | Kg | | | <input type="checkbox"/> | 1.05998 | Kg |
| Material | | Ink | M | + | Magenta | 160 | 4.99 | <input type="checkbox"/> | Kg | | | <input type="checkbox"/> | 1.05999 | Kg |
| → Material | : | Ink | Y | + | Yellow | 160 | 6.75 | <input type="checkbox"/> | Kg | | | <input type="checkbox"/> | 1.05998 | Kg |

- DTP operation
 - Add hours on a line
- Sheet Offset Printer
 - Notice all processes

Estimate contains all time and material for the job

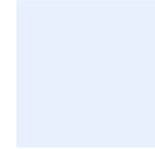
PrintVis Quote

- Case card
 - Change status to Quote
 - Report -> Print/Send -> Quote

Job line is changed from
Request to Quote

Quote

612 South Sunset Drive
Spotsmeyer's Furnishings
Miami, US-FL 37125
USA



| Quote No. | Quote Date | Your Reference | Responsible |
|-----------|-------------------|----------------|----------------------|
| Q-000098 | February 18, 2023 | | Thomas Beck Andersen |

We thank you for your inquiry and hereby take pleasure in offering you our best Price and Services for the following job specification:

Job Name: Poster example

| Quantity | Description | Unit Price | Total price in USD |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| 10000 | 10 000 Posters, size 50X70 in 4+0 colours Pages: Text 1 Size: Text 50X70 Paper: Text Tauro Offset Weight:90.00 Offset: L_5230 Colors: Text 4/0 Finishing: Trimming | 0.15 | 1,503.16 |

We sincerely hope that our quotation will meet your expectation and look forward to serving you in this matter.

Best Regards,
John Roberts

- Job Line
 - Planning
 - Plan from shipment date

Requested Shipment Date 2/27/2023 4:00 PM

Earliest Start Date

Rough Planning Time Date

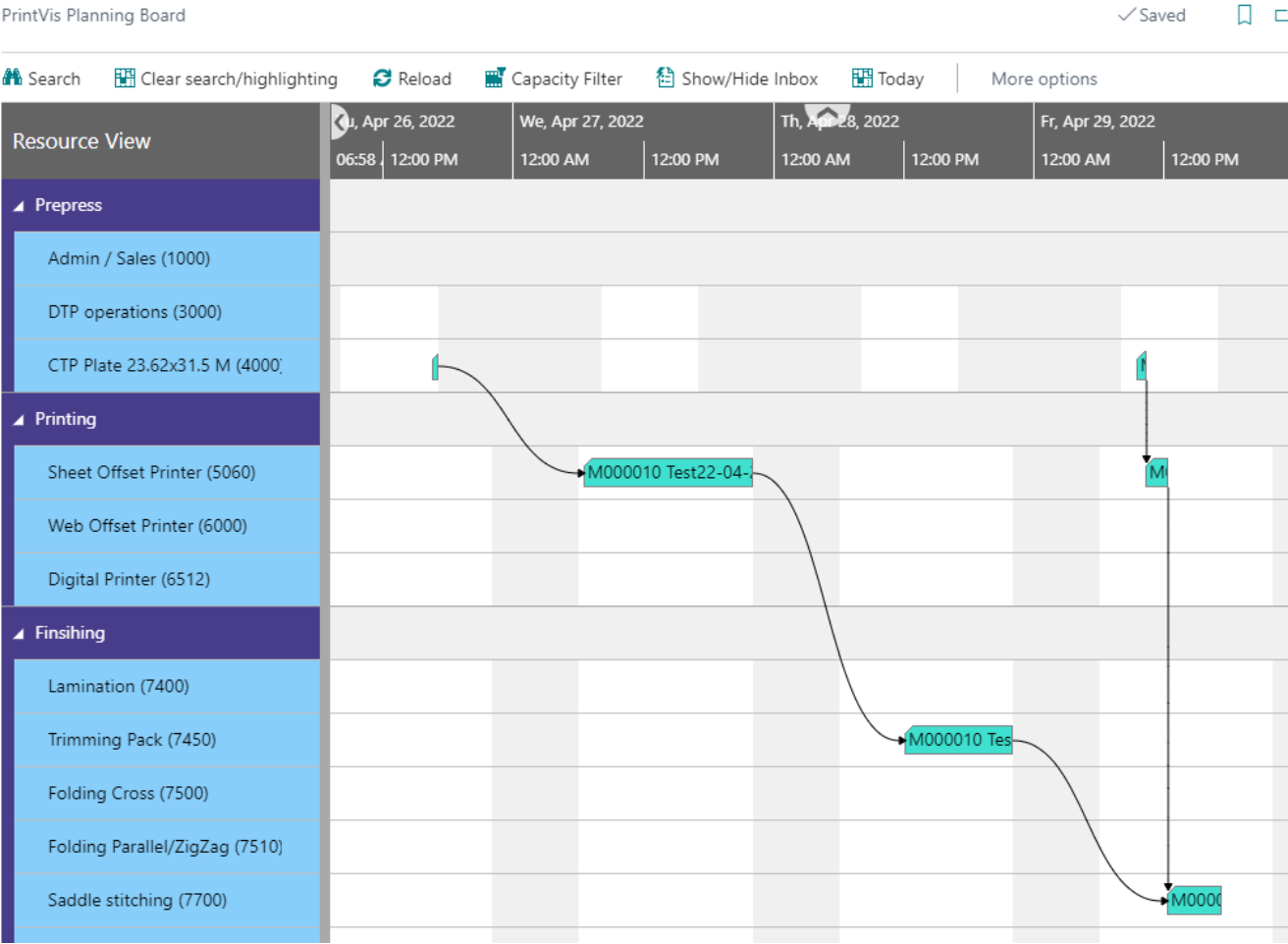
| Planned Orientation | Delivery Date |
|---------------------|---------------|
| | |

[Manage](#)
[Order Plan on Start date](#)
[Order Plan on Shipment date](#)
[Order Plan from Bottlenecks](#)
[Plan Line from Start](#)
[Plan Line from End](#)
[More options](#)

[illegible]

PrintVis Planning Board

- Planning board
- Search For PrintVis Planning Board
















PrintVis Material Requirement

- Case Card
 - Material Requirement
 - Shows the requirement for the case

PrintVis Material Requirement

✓ Saved   

 Search
  Edit List
  Delete
  Purchase Guide
  Item Card
  Reserve...
  Item Replacement...
  Order
  Job
   

| Order No. | Item Type | Item No. | Description | Quantity | Ma... Qua... | Quantity Needed | Reserved Quantity | PV Reserved Quantity | Open Qty. From Purchase Orders | Inventory available date | Inventory | Sub Con... | Customer No. | Job Name |
|----------------------------|-----------------------------------------------------------------------------------|----------|-------------|----------------|-----------------|--------------------------|-------------------|-------------------------|-----------------------------------|--------------------------------|-----------|--------------------------|-----------------|----------|
| → O-000218 |  | Ink | C | Cyan | 4.40 | <input type="checkbox"/> | 4.40 | — | — | — | 1,676.09 | <input type="checkbox"/> | 01121212 | Poste |
| O-000218 | | Ink | K | Black | 4.70 | <input type="checkbox"/> | 4.70 | — | — | — | 1,862.93 | <input type="checkbox"/> | 01121212 | Poste |
| O-000218 | | Ink | M | Magenta | 4.99 | <input type="checkbox"/> | 4.99 | — | — | — | 859.68 | <input type="checkbox"/> | 01121212 | Poste |
| O-000218 | | Ink | Y | Yellow | 6.75 | <input type="checkbox"/> | 6.75 | — | — | — | 806.09 | <input type="checkbox"/> | 01121212 | Poste |
| O-000218 | | Paper | PS-436 | Tauro Offset | 10,485.00 | <input type="checkbox"/> | 10,485.00 | — | — | — | 0 | <input type="checkbox"/> | 01121212 | Poste |
| O-000218 | | Plates | PL4000-300 | Plate 76x106 L | 4.00 | <input type="checkbox"/> | 4.00 | — | — | — | 4,773 | <input type="checkbox"/> | 01121212 | Poste |

Reservation Entries

PrintVis Shop Floor

All



- Change Role to PrintVis Shop Floor Worker
 - Login with PPR
 - Select Cost Center Sheet Offset Printer
 - Find the job and start production

Show Completed Show Prod. Plan Manning Code Filter Job Ticket

General

| | | | |
|--------------------|-----------------|-----------------|--------------------|
| Back | QA Checklist | Comments | Signature 0 |
| Consume Mater... | Return to Stock | Produced Output | Output Semi - F... |
| Release Finishe... | Ship Product | | |

Job Control

| | | | |
|--------------------------|-------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Setup/Make rea... 100 | Production 200 | STOP JOB  | JOB COMPLETE  |
|--------------------------|-------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

Waste Codes

| | | | |
|------------------|----------------------|----------------------|--------------------|
| 'No Waste' -- | Internal error 10 | Customer error 20 | Vendor error 30 |
|------------------|----------------------|----------------------|--------------------|

Login **Peter Printer (5230 | KBA Rapida 105)**

Job Information

| | |
|-----------|-----------------------|
| Order No. | O-000217 |
| Job Name | Poster example |
| Sheet ID | 1 |
| Net Qty | 10,000 |
| Scrap Qty | 485 |
| Total Qty | 10,485 |

ToolTip

Order No.: O-000217
 Job Name: Poster example
 Planning Status: Variable Planned
 Ending: 02/27/23 11:12 AM
 Start: 02/27/23 11:12 AM
 Buffer Time: 0
 Capacity Unit Name: Trimming Pack
 Start: 02/27/23 01:35 PM
 Requested Delivery Date/Time: 02/27/23 04:00...
 Colors: 4+0: CMYK
 Paper Name: Tauro Offset
 Number of Sheet Sets: 1
 Width: 88
 Length: 63

PrintVis Shop Floor

- Consume material
 - Consume some paper
- Click stop
 - Time is registered
 - Complete the job
- Log out!

PrintVis Shipment

- Change back Role to PrintVis Admin or PrintVis Coordinator
 - Open the case card again
 - Click on Shipments
 - Put in quantity to ship
 - Ship
 - Change status to INVOICE
- Methods
 - Create sales order per shipment
 - Just mark it as shipped

PrintVis Invoice

- Form the case card
 - Click on Invoice Guide
 - Click new
 - Click build
 - Post

Workshop run the demo flow

- Run through the demo flow
 - When you have a posted invoice, you are done.

Data Structure

The PrintVis Base App has around 250 tables which are a mixture of setup and transactional data.

PVS Case

PK: ID

| | |
|------------------------------|------------------------------------|
| Table:PVS Case | |
| Key field:ID | |
| Commonly used Fields | |
| Sell To No. | Who is ordering |
| Job Name | Text field for describing the case |
| Status Code | Current Status of the Case |
| Product Group and Order Type | Define type of case |

The most central table in the system. Think of the case as a placeholder for all information about a particular customer task.

The primary key for the case is simply an entry no. called “ID”. During its lifecycle the case will change status, starting off as “request.” When the case changes status to “Quote” it will get a quote No. assigned (from a no. series) and when the case change status to “Order” it will get a Order No. assigned (from a no. series).

When there are no activities expected on a case it will be marked as “Archived” (a simple Boolean field) and assigned an “Archived Date.” This is typically done when an order is invoiced, or a quote is rejected. This can be reverted, and the case can again be removed from archive (simply by setting the Boolean field “Archived” to false)

PVS Job

PK: ID, Job, Version

The job table is the main placeholder for describing the product that we want to produce. In many companies you only have one job per case, whereas other companies are used to working with several jobs per case. This is a matter of company policies. The primary keys for the job are ID, Job, Version. Where the ID is the reference to the case, Job is the job no. and version gives you the opportunity to have several versions of the job. Only one if these versions will be the active version that is going to be produced.

| ID | Job | Version | Status | Active | Quantity |
|-----|-----|---------|--------|--------|----------|
| 123 | 1 | 1 | Quote | Yes | 5000 |
| 123 | 1 | 2 | Quote | No | 10000 |
| 123 | 1 | 3 | Quote | No | 15000 |

| ID | Job | Version | Status | Active | Quantity |
|-----|-----|---------|--------|--------|----------|
| 123 | 1 | 1 | Quote | No | 5000 |
| 123 | 1 | 2 | Quote | Yes | 10000 |
| 123 | 1 | 3 | Quote | No | 15000 |
| 123 | 1 | 4 | Order | Yes | 7000 |

```
PVSJob.Setrange(ID,123);
PVSJob.Setrange(Active,true);
PVSJob.Setrange("Quote Calculation",true);
if PVSJob.FindSet() then...
```

| | |
|----------------------------|-----------------------------|
| Table:PVS Job | |
| Key field:ID, Job, Version | |
| Commonly used Fields | |
| Quantity | Ordered/estimated quantity |
| Quoted Price | Quoted price for the line |
| Active | Check if the line is active |
| Requested Delivery Date | Requested Delivery Date |

The job item tables is used to describe the different parts of a product.
Book = Cover + Text part.
It's here where the main machine is connected to the job.

 Estimating
 Automate all sheets
 Userfields 1
 Actions
 Fewer options

 Create Sheet
 Delete Sheet
 Extra Job Item
 Delete Extra Job Item
 Job Signatures
 Specification
 Consumables
 Versions/Variants
 Combined Sheets
 Ex

| No. ↑ | Sheet No. | Quantity | Component Type | Pages with Print | Ma... Pages | Colors Front | Colors Back | Job Item Format | Paper Weight | Paper Quality | Paper Item No. | List of Units |
|-------|-----------|----------|----------------|------------------|--------------------------|--------------|-------------|-----------------|--------------|---------------|----------------|---------------|
| → 1 | 1 | 50000 | FLAT | 1 | <input type="checkbox"/> | 4 | | 10X10 | 80,0000 | GLOSS | 68102104 | WEBOFFSET |

PVS Sheet

PK: Sheet ID

The Sheet table stores information about the sheet, on the sheet the Job Item is produced/printed.

Information that is useful from here could be
Size of the sheet. Quantity needed for producing the product.

← Specifications

✓ Saved

Web 1/1 | Flatwork - Sheet | Flatwork - Sheet

Scrap

Process Flow

More options

Web Information

Show more

Paper Item No.

68102104

...

Description

White Gloss

Paper Quality

GLOSS

...

Weight

80,0000

Weight Unit

BOOK

▼

Reel Width

35,0000

Reel Length

0,0000

Number of Reels

1,00

Print Reel Width

35,0000

Cut Off

23,0000

Print Width/Reel Width

1

Quantity >

Imposition

PVS Job Process

PK: Process ID

The Job process tables stores information about the different processes, scrap is probably the most important thing to mention here.

Edit - Technical Specifications: Advanced - 230

Manage Page

Process

ProcessID 2 Cost Center... 6000 Web ID 1
Process Name Web Offset Printer Cost Center... Web Offset Printer

Process Details >

Processes in Job Item / Job >

Scrap Process

| | | | |
|-------------------------|-------------------------------------|----------------------------|-------------------------------------|
| Start Scrap | <input type="text"/> | Scrap for Following Pl... | <input type="text" value="50"/> |
| Scrap % Running | <input type="text" value="2"/> | Man. Scrap for Followi... | <input checked="" type="checkbox"/> |
| Manual Scrap % | <input checked="" type="checkbox"/> | No. of Shifts / Stops | <input type="text"/> |
| No Of Webs Sets | <input type="text" value="1"/> | Man. No. of Stops | <input checked="" type="checkbox"/> |
| Per Section Scrap | <input type="text"/> | Per Stop Scrap | <input type="text" value="150"/> |
| Man. Section Scrap | <input checked="" type="checkbox"/> | Man. per Stop Scrap | <input checked="" type="checkbox"/> |
| Section Following Scrap | <input type="text"/> | No. of Plates to change | <input type="text" value="0,00"/> |
| Man. Section Following | <input checked="" type="checkbox"/> | Man. No. of Plates to ... | <input checked="" type="checkbox"/> |
| Processing Per Web | <input type="text" value="1"/> | Per Plate in Shift Scrap | <input type="text" value="50"/> |
| Manual Processing | <input checked="" type="checkbox"/> | Man. per Plate in Shift... | <input checked="" type="checkbox"/> |
| Per Processing Scrap | <input type="text" value="150"/> | | |
| Man. Per Processing S | <input checked="" type="checkbox"/> | | |

Close

PVS Job Calculation Unit

PK: ID, Job, Version, Entry No.

A puzzle piece of the estimation. The Calculation unit could be connected to a Sheet and a Process.

The Calculation Unit is also connected to a Planning unit, with the field Plan ID

←

23-1-2 Order-22-04-25 13:19

✓ Saved

🔗 ↗

Estimating

🔍 Search

+ New

📋 Edit List

🗑 Delete

📄 Specifications

📊 Purchase Guide

More options

🔗 🔍 ⓘ

| Unit | | Text | Info | Sheet No. | Process | Total Time | Offered Price | Error Text |
|--------|---|------------------------|------|-----------|---------|------------|---------------|------------|
| 3000 | | DTP operations | + | — | | | 0,00 | — |
| 4000 | | CTP Plate 23.62x31.5 M | + | 1 | 1 | 0,50 | 133,36 | — |
| → 6000 | ⋮ | Web Offset Printer | + | 1 | 2 | 2,19 | 1 201,85 | — |
| 7450 | | Trimming Pack | + | 1 | 1 | 1,61 | 321,07 | — |
| 7450 | | Trimming Pack | + | 1 | 1 | 1,61 | 321,07 | — |
| 9000 | | Shipping | + | — | | 0,83 | 103,75 | — |
| | | | + | | | | | |

PVS Job Calculation Detail

PK: ID, Job, Version, Entry No., Line Type, Unit Entry No.

The smallest puzzle piece of the estimate.
It could either be a material line or an hour line.

Material line:

Item

Quantity

Cost and sales prices

Hour line:

Operation (what to do)

Hours

Cost and sales prices

Both lines have also:

Cost Center – what machine/resource

Unit of measure – how to consume

Line Type – Normal or additional

PVS Job Planning Unit

PK: Simulation Version, ID, Job, Plan ID, Entry No.

Things that needs to be planned or are already planned. Planning against capacity units.

To get the Calculation details connected to the planning unit, the Plan ID is the field that exists in both tables.

Case Card
Saved

Edit - Job Planning - M000013

Set Limits

Requested Shipment Date 2022-04-30 00:00

Earliest Start Date

Method

Rough Planning Time Date

Planned Orientation

Manage
Order Plan on Start date
Order Plan on Shipment date
Order Plan from Bottlenecks
Plan Line from Start
Plan Line from End
Drop an action here
Actions
Related
Reports
Fewer options

| Mar... | Capacity Unit | Unit | Sorting Order ↑ | Text | Start | Ending | Loc... | Plan Status | Calc. Total Time | Planned Time | Ma... Plan... Time | Roughly Planned Start no earlier than | Ma... Earli... Start | Roughly Planned Latest Start |
|----------------------------|---------------|-----------|-----------------|----------------------------------|------------------|------------------|-------------------------------------|-------------|------------------|--------------|--------------------------|---------------------------------------|--------------------------|------------------------------|
| <input type="checkbox"/> | | PROOF-OUT | 30 | Proof sent to customer by | | | <input type="checkbox"/> | Not planned | | | <input type="checkbox"/> | | <input type="checkbox"/> | 22-04-25 09:00 |
| <input type="checkbox"/> | | PROOF-OK | 40 | Proof approval from customer ... | | | <input type="checkbox"/> | Not planned | | | <input type="checkbox"/> | | <input type="checkbox"/> | 22-04-25 10:00 |
| <input type="checkbox"/> | | PAPER | 60 | Paper in house by | | | <input type="checkbox"/> | Not planned | | | <input type="checkbox"/> | | <input type="checkbox"/> | 22-04-25 17:00 |
| <input type="checkbox"/> | 3000 | PREPRESS | 3000 | Prepress | | | <input type="checkbox"/> | Not planned | | | <input type="checkbox"/> | | <input type="checkbox"/> | 22-04-25 17:00 |
| <input type="checkbox"/> | 4000 | PLATES | 4000 | Plate production | 2022-04-26 00:00 | 2022-04-26 00:30 | <input checked="" type="checkbox"/> | Locked | 0,50 | 0,50 | <input type="checkbox"/> | | <input type="checkbox"/> | 22-04-29 16:05 |
| → <input type="checkbox"/> | 6000 | PRINTING | 6000 | Printing | | | <input type="checkbox"/> | Not planned | 2,19 | 2,19 | <input type="checkbox"/> | 2022-04-26 00:30 | <input type="checkbox"/> | 22-04-29 16:35 |
| <input type="checkbox"/> | 7450 | FINISHING | 7450 | Trimming Pack | | | <input type="checkbox"/> | Not planned | 3,22 | 3,22 | <input type="checkbox"/> | 2022-04-26 02:41 | <input type="checkbox"/> | 22-04-29 18:46 |
| <input type="checkbox"/> | 9000 | SHIPPING | 9000 | Shipping | | | <input type="checkbox"/> | Not planned | 0,83 | 0,83 | <input type="checkbox"/> | 2022-04-26 06:24 | <input type="checkbox"/> | 22-04-29 23:09 |

PVS Job Costing Journal/Line

PK: Simulation Version, ID, Job, Plan ID, Entry No.

When users reporting time or material everything ends up in this PrintVis Job Costing Journal. Then when the Journal is posted different thing will happen with lines of type time and material.

PVS Job Costing Labor Entry
Contains all posted time

PVS Job Costing Entry
Contains all posted time and material, has connection to Item Ledger Entry or PVS Job Costing Labor Entry. Also contains information of posted invoices.

PVS Shop Floor Journal Entry

PK: Simulation Version, ID, Job, Plan ID, Entry No.

Used on shopfloor to track ongoing time reporting.

Also used to collect the reporting from shop floor if realtime posting is deactivated.

PVS Template

Template is just a normal case.
On the Job line its possible to mark it as a template.
Template could be connected to Product groups or Items.



Workshop Status Code

- Status Codes are used on Cases
- Triggers functionality / checking data
- Used in all installations

- What to extend?
- Check data before status change
- Modify data after status change

1. Before status change to Quote, check Quoted Price on the Job, if > 1000 then error out
2. Create a table + List Page
 1. PTE Status Change Log
 1. ID PK
 2. Entry No. PK
 3. Old status Code[50]
 4. New status Code[50]
 5. On the page add system field modified at
 2. Add record after status code is changed

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Main", 'OnCaseBeforeStatusChange', ''
```

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Main", 'OnCaseAfterStatusChange', ''
```

Workshop User Field 1/2

- Can be set for different tables
 - PVS Case, PVS Job, Customer, etc.
- Can be grouped and assigned to a PrintVis Department
- Can be used in
 - Calculation formulas
 - Merge fields
 - Printed reports

Use the **PVS Userfield Management** codeunit

```
UserfieldManagement.Get_UserField_Value(...);
```

```
UserfieldManagement.Set_UserField_Value(...);
```

Workshop User Field 2/2

- Task 1
 - Create user field on case level
 - Extend Report PVS Word Dataset Case Quote (6010405) with the created user field
 - Create custom layout and add the field
 - Run the report with the custom layout
- Task 2
 - Create user field on job level
 - Modify the user field with the current date time when Case status changes to Plan
 - Subscribe to [OnCaseBeforeStatusChange](#) event in PVS Main codeunit
 - Add the userfield value to the job list part on the case card.

Workshop Calculation formula 1/3

- Could be used in several places
 - Estimate
 - Machine setup
 - Speed / scrap tables
 - Pricelists
- Triggers functionality / checking data
- Used in all installations

```
codeunit 50151 "PTE Calculation Formula"
{
    trigger OnRun()
    begin
        SingleInstance.Get_Current_CalcUnitDetailRec(JobCalculationDetail);
        JobCalculationDetail."Qty. Calculated" := 0; // Clear the field to be calculated
        JobCalculationDetail."Qty. Calculated" := Random(10000); // Assign value
        SingleInstance.Set_Current_CalcUnitDetailRec(JobCalculationDetail); // Push back the result
    end;

    var
        JobCalculationDetail: Record "PVS Job Calculation Detail";
        SingleInstance: Codeunit "PVS SingleInstance";
}
```

Workshop Calculation formula 2/3

Calculation Formulas

- Some data is calculated on temp tables
 - Calculation Details
`SingleInstance.Get_CalcUnitDetailsRecTmp(JobCalculationDetailTemp); //read calculation lines`
 - Sheet
`SingleInstance.Get_SheetRecTmp(JobSheetTemp); // Use this if you need info from the sheet`
 - Process
`SingleInstance.Get_ProcessRecTmp(JobProcessTemp); // Need info from the process`
- The rest is possible to read as normal

```
codeunit 50152 "PTE Calculation Formula 2"
{
    trigger OnRun()
    begin
        SingleInstance.Get_Current_CalcUnitDetailRec(JobCalculationDetail);
        SingleInstance.Get_SheetRecTmp(JobSheetTemp);
        JobCalculationDetail."Qty. Calculated" := 0; // Clear the field to be calculated
        JobSheetTemp.SetRange("Sheet ID", JobCalculationDetail."Sheet ID");
        if JobSheetTemp.FindFirst() then
            JobCalculationDetail."Qty. Calculated" := JobSheetTemp.Weight;
        SingleInstance.Set_Current_CalcUnitDetailRec(JobCalculationDetail); // Push back the result
    end;

    var
        JobSheetTemp: Record "PVS Job Sheet" temporary;
        JobCalculationDetail: Record "PVS Job Calculation Detail";
        SingleInstance: Codeunit "PVS SingleInstance";
    
```

Workshop Calculation formula 3/3

Calculation Formulas

- Task 1
 - Create formula 1010 that returns the weekday (DATE2DWY(TODAY(), 1);)
- Task 2
 - Create formula 1011 that returns the area of the printed sheet
 - Sheet.width x Sheet.length
- Create both formulas in same codeunit

```
case JobCalculationDetail."Formula Code" of
    1010:Formula_1010_Weekday();
    1011:Formula_1011_Area();
end;
```


Workshop Shop Floor 1/3

Shop Floor

- Most common is to add an extra tile
- Two events are used

- One for adding the tile

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Shop Floor JS Add-in Mgt", 'PVSAAddMoreTilesJobCard'
```

- One for processing the click

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Shop Floor JS Add-in Mgt", 'OnAfterClickTileJobTicket'
```

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Shop Floor JS Add-in Mgt", 'PVSAAddMoreTilesJobCard', '', false, false)]
```

```
local procedure PVSAAddMoreTilesJobCard(var TempPVSSortingBuffertTiles: Record "PVS Sorting Buffer"; var isHandled: Boolean);
```

```
begin
```

```
    TempPVSSortingBuffertTiles.Init();
```

```
    TempPVSSortingBuffertTiles.PK1_Integer1 := 1;
```

```
    TempPVSSortingBuffertTiles.Text1 := '#CUSTOMSHIP#';
```

```
    TempPVSSortingBuffertTiles.Text2 := 'Shipments';
```

```
    TempPVSSortingBuffertTiles.Insert();
```

```
    isHandled := true;
```

```
end;
```

OnAfterClickTileJobTicket

Check inControlID is the same as the value in Text1 '#CUSTOMSHIP#'

Perform logic

In the end deselect the button with ReturnFlag := 2;

Workshop Shop Floor 2/3

Shop Floor

- Another change could be that the customer would like to have more info on right side

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Shop Floor JS Add-in Mgt",
'OnAfterBuildPanelBuffer', '', false, false)]
```

```
SF_FIELDINFO: label 'FIELDINFO', Locked = true;

if pagename <> 'JobCard' then
    exit;

PlanRec.SetPosition(JSAddinMgt.DecodeBase64ElementName(in_ControlID));
PlanRec.Find('=');

CaseRec.Get(PlanRec.ID);
```

```
in_PanelBuffer.Reset();
in_PanelBuffer.SetRange(Code1, SF_FIELDINFO);
if in_PanelBuffer.FindFirst() then begin
    TempSortingBuffer := in_PanelBuffer;
    TempSortingBuffer.Text1 := 'Customer';
    TempSortingBuffer.PK1_Integer2 := 1;
    TempSortingBuffer.Text2 := CaseRec."Sell-To Name";
    in_PanelBuffer.Init();
    in_PanelBuffer := TempSortingBuffer;
    if not in_PanelBuffer.Insert() then
        in_PanelBuffer.Modify();
end;
```

```
in_PanelBuffer.reset;
Page.Run(Page::"PTE Sorting Buffer", in_PanelBuffer);
```

Login **Alex Accountant (4000 | CTP Plate 23.6**

Job Information

| | |
|-----------|----------------------------|
| Customer | PrintVis Inc. |
| Order No. | M000004 |
| Job Name | Spring Catalog 2020 |
| Sheet ID | 1 |
| Net Qty | 3 000 |
| Scrap Qty | 1 345 |
| Total Qty | 4 345 |

ToolTip

M000004
Spring Catalog 2020
Status: Not planned
 Part: Text block

Previous:
Starting:
- Buffer: 0 hours
 Next:
 Starting:
 Delivery:

Colors: 4+4: CMYK
 Paper Name: White Gloss
 Number of Sheet Sets: 3
 Width: 35
 Length: 23

Finishing
 Random: \$TEST

Comments

Workshop Shop Floor 3/3

Shop Floor

- Task 1
 - Add a tile to open the shipment list filter on the Case ID
- Task 2
 - Add customer name in panel on right side
- Task 3
 - When shopfloor start and stop, send a Post to webhook.site with the Cost Center, Order No and Started/Stopped as text or json

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Shop Floor Management", 'OnBeforeJournal_Special_Start_Stop', '', false, false)]
```

```
local procedure sendToSomewhere(TextToSend: Text)
var
    myHttpClient: HttpClient;
    myResponseMessage: HttpResponseMessage;
begin
    myHttpClient.Get('https://webhook.site/9113df2f-c59d-4823-9408-610cf80774e6?string=' + TextToSend,
myResponseMessage);
end;
```

Workshop Invoice Template 1/6

- Invoice templates are used to generate invoices
 - Possible to add "custom" lines when invoice is built up
 - Possible to manipulate the invoice line before insert
 - Possible to replace with custom build

Workshop Invoice Template 2/6

Invoice Template

- Possible to add "custom" lines when invoice is built up

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Invoice Template Mgmt", 'BuildInvoiceTemplateLine', '', false, false)]
procedure BuildInvoiceTemplateLine(var SalesHeader: Record "Sales Header"; var InvoiceTemplateHeader: Record "PVS Invoice Template Header";
var InvoiceTemplateLine: Record "PVS Invoice Template Line"; var Job: Record "PVS Job");
var
    InvoiceTemplateManagement: Codeunit "PVS Invoice Template Mgmt";
    InvoiceTemplateLineTemp: Record "PVS Invoice Template Line" temporary;
begin
    IF InvoiceTemplateLine."No." <> 'TEST' then
        exit;
    InvoiceTemplateLineTemp.init;
    InvoiceTemplateLineTemp.Type := InvoiceTemplateLineTemp.Type:"G/L Account";
    InvoiceTemplateLineTemp.Description := 'This line is created by special function';
    InvoiceTemplateLineTemp."Manual Description" := true;
    InvoiceTemplateLineTemp.Quantity := 123;
    InvoiceTemplateLineTemp."Unit Price" := 100;
    InvoiceTemplateLineTemp.Insert();
    //Insert Invoice line
    InvoiceTemplateManagement.Insert_Salesline_New(SalesHeader, InvoiceTemplateLineTemp, InvoiceTemplateHeader, Job, '', '', '', '', '');
end;
```

Workshop Invoice Template 3/6

Invoice Template

- Possible to manipulate the invoice line before insert

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Invoice Template Mgmt", 'Insert_Salesline_New_OnBeforeModify', '', false, false)]  
local procedure Insert_Salesline_New_OnBeforeModify(var SalesHeader: Record "Sales Header"; var SalesLine: Record "Sales Line"; var  
InvoiceTemplateHeader: Record "PVS Invoice Template Header"; var InvoiceTemplateLine: Record "PVS Invoice Template Line"; var Job: Record "PVS  
Job");  
begin  
    if InvoiceTemplateHeader.Code <> 'STD' then  
        exit;  
    if InvoiceTemplateLine.Type <> InvoiceTemplateLine.Type::"Main Invoice" then  
        exit;  
    SalesLine.Description := SalesLine.Description + 'X';  
end;
```

Workshop Invoice Template 4/6

Invoice Template

- Possible to replace with custom build
- The Case ID could be picked up from the Sales Header, apply it on all lines that are created

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS Invoice Template Mgmt", 'BuildInvoiceTemplateHeader', '', false, false)]
local procedure BuildInvoiceTemplateHeader(var SalesHeader: Record "Sales Header"; var InvoiceTemplateHeader: Record "PVS Invoice Template Header");
var
    SalesLine: Record "Sales Line";
begin
    if InvoiceTemplateHeader.Code <> 'TEST' then
        exit;
    SalesLine.Init();
    SalesLine."Document Type" := SalesHeader."Document Type";
    SalesLine."Document No." := SalesHeader."No.";
    SalesLine."Line No." := 10000;
    SalesLine.Insert();
    SalesLine.Validate(Type, SalesLine.Type::"G/L Account");
    SalesLine.Validate("No.", '6110');
    SalesLine.Validate(Quantity, 123);
    SalesLine.Validate("Unit Price", 1);
    SalesLine."PVS ID" := SalesHeader."PVS Order ID";
    SalesLine.Modify(true);
end;
```

Workshop Invoice Template 5/6

Invoice Template

- Task 1
 - Build one invoice line per Calculation Unit
- Setup a new Invoice Template Line
- Find all calculation units for the Job
- Insert new Sales Line for each CalcUnit

Invoice Template

Invoice Template Assign Type

General

Code CALCUNITS Build from Order

Description Invoice Method Invoice based on Case level

Invoice Template Line | [Manage](#)

[New Line](#) [Delete Line](#) [Card](#)

| Level | Type | No. | Description | Ma... Des... | Quantity | Quantity Type |
|-------|----------------|----------|-------------|--------------------------|----------|------------------|
| Case | Merge Fields | INV | | <input type="checkbox"/> | | |
| Case | Special Fun... | CALCUNIT | | <input type="checkbox"/> | | |
| | | | | <input type="checkbox"/> | | |

20-1-2 Order-22-04-25 08:5722-04-25 09:44

Estimating | Search | + New | Edit List | Delete | Specifications

| Unit | Text | Info | Sheet No. | Pro... | Total Time | Offered Price | Error Text |
|--------|--------------------------------|------|--------------|--------|------------|---------------|---------------|
| 3000 | DTP operations | + | - | | | 0,00 | - |
| → 4000 | CTP Plate 23.62x31.5 M | + | 1 | 1 | 0,50 | 133,36 | - |
| 5060 | Sheet Offset Printer | + | 1 | 2 | 1,51 | 556,64 | - |
| P_5060 | Substrate Sheet Offset Printer | + | 1 | | | 302,58 | - |
| 7450 | Trimming Pack | + | 1 | 1 | 10,91 | 2 177,26 | - |
| 7450 | Trimming Pack | + | 1 | 1 | 0,83 | 166,46 | - |
| 9000 | Shipping | + | - | | 0,33 | 41,50 | - |
| | | + | | | | | |

Page Inspection

See information about the page, its different elements, and the source behind the data it displays.

Page

PVS Job Calculation Unit 1 (6010376, List)

Table

PVS Job Calculation Unit (6010321)

[View table](#)

Table Fields | Extensions | Page Filters

ID (1, Integer, PK)
20
PrintVis

Job (2, Integer, PK)

Workshop Invoice Template 6/6

Invoice Template

- Task 2
 - Round the unit price on the main invoice line.
Find the template that has an invoice line of type "Main Invoice"
Use Validate() to Round the Unit Price

←

Invoice Template

STD

×

Reminder: your work date is 2022-04-11

Use today | Change to...

Turn off reminder

Invoice Template Assign Type

General

Code

STD

Build from

Order

Description

Standard

Invoice Method

Invoice based on Case level

Invoice Template Line

[Manage](#)

New Line

Delete Line

Card

| Level | Type | No. | Description | Manual Descripti... | Quantity | Quantity Type | Unit Price | Use Item No. | Comment |
|--------|----------------|-----|--------------------------------|-------------------------------------|----------|---------------|------------|--------------------------|---------|
| → Case | ⋮ Merge Fields | INV | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| Case | Main Invoice | | One invoice line per case | <input checked="" type="checkbox"/> | | | | <input type="checkbox"/> | |
| Case | | | Text line in bottom of invoice | <input checked="" type="checkbox"/> | | | | <input type="checkbox"/> | |

Workshop Job Ticket 1/8

- Most complex report in PrintVis
- Very often customized
- OLD - Dataset based on PVS Buffer Table
- New - temporary table PVS Job Ticket Temp

Set up which report to use on the PrintVis Report Selection Setup page

Workshop Job Ticket 2/8

OLD Job Ticket

7. February 2021
KT 12:08:35 Page 1/1

| | | | | |
|----------------------|----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| My Company | | Order No. M000001-1 | | |
| Header | customer: PrintVis Inc. 315 West Ponce de Leon Avenue Suite 440 30030 Decatur | | cust. no.: PVS-C0001 phone no.: fax no.: e-mail: info@printvis.com | salesperson : SAS coordinator : COC quote no.: Q000003 copied from: |
| | contact: | | customer supply: PDF ready for CTP | Eco-label |
| | reference: | | | |
| | quantity: 1.000 format: 6X9 shipment: | | | |
| Line 2 – section 3 | Greatest Airplane Stories | | | |
| Line 4 – section 2 | 1,000 books, 64 pages in size 6X9 and 1+1 colors | | | |
| Prepress | | | | |
| Line 8 – section 4 | | | We supply | Proof, CTP Plates, Print and Finishing |
| | | | Proofs | Yes |
| | | | Proof type | Electronic |
| | | | Number of | 1 |
| Line 12 – section 20 | 3000 DTP operations | 0,50 Hours | 0,00 | Imposition Standard |
| Line 14 – section 2 | 3000 Aligning pages | 0,50 Hours | 0,00 | |
| Plate production | | | | |
| | 4000 CTP Plate 23.62x31.5 M | 0,50 Hours | 0,00 | SheetID 1 |
| Printing | | | | |
| Line 18 – section 50 | Printing Machine | Sheet | Print-Method | Printed |
| Line 19 – section 51 | | | | Printing sheet Net Gross Paper |
| | Text block, Colors: 1+1 Black | | | |
| | Web Offset Printer | 8 Perf | 25,0 x 9,70 0 | 8000 9135 68102415 White Offset Roll Husky |
| | | | | 60,00 00 25,0000 x 9,7000 |
| | | | | 9135 |
| | Cover, Colors: 4+0 Cyan toner Black toner Magenta toner Yellow toner | | | |
| Line 22 – section 52 | Digital Printer | 2 wk/Th | 14,0 x 10,00 0 | 2000 2010 68102167 C15 Cover Tango |
| | | | | 10,00 00 14,0000 x 10,0000 |
| | Sheeter | 2 wk/Th | 14,0 x 10,00 0 | 2010 2010 68102167 C15 Cover Tango |
| | | | | 10,00 00 14,0000 x 10,0000 |

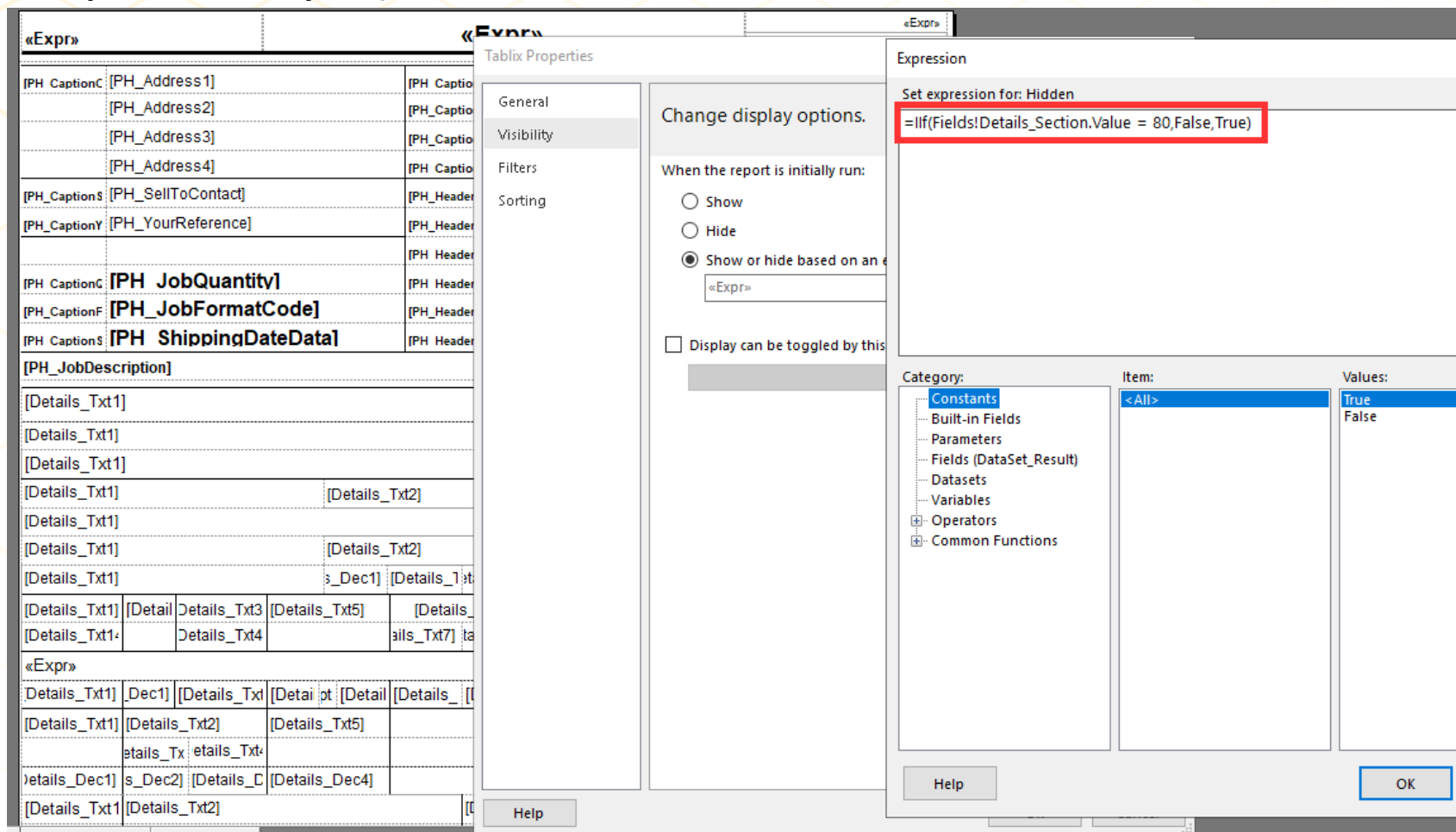
LineType:

- 1 : Delimiter Line
- 2 : Header (Department Name etc.)
- 3 : Comment Text (Full Width)
- 4 : Side by Side: Comment Text (Half Width) + UserFields
- 5 : UserFields
- 6 : Side by Side: Comment Text (Half Width) + UserFields (Same as 4)
- 7 : UserFields (Same as 5)
- 20 : Calc. Unit Details
- 50 : Press - Process Head
- 51 : Press - Process Subject Body
- 52 : Press - Process Body
- 55 : Press - Plate Change Head
- 57 : Press - Plate Change Body
- 60 : Postpress - Process Head
- 61 : Postpress - Process Subject Body
- 62 : Postpress - Process Body
- 70 : Press Continuous - Process Head
- 71 : Press Continuous - Process Subject Body
- 72 : Press Continuous - Process Body
- 80 : Shipments

Workshop JobTicket 3/8

Job Ticket

Layout visibility expression for each section based on section value



Tablix Properties

General
Visibility
 Filters
 Sorting

Change display options.

When the report is initially run:

☐ Show
☐ Hide
☒ Show or hide based on an expression

«Expr»

☐ Display can be toggled by this

«Expr»

Expression

Set expression for: Hidden

=IIf(Fields!Details_Section.Value = 80,False,True)

Category:

- Constants
- Built-in Fields
- Parameters
- Fields (DataSet_Result)
- Datasets
- Variables
- Operators
- Common Functions

Item:

<All>

Values:

True
 False

Help OK

Workshop JobTicket 4/8

OLD Job ticket has 1 Event for customization

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS JobTicket Management", 'OnAfterGetReportBuffer', '',
true, true)]
    local procedure OnAfterGetReportBuffer(var in_JobRec: Record "PVS Job"; var in_VERSION_COUNTER: Integer;
var Out_BufferRecTmp: Record "PVS Sorting Buffer" temporary; var Result: Boolean)
begin
    // the generated dataset is in Out_BufferRecTmp
    // this can now be manipulated
end;
```

- Task 1
 - Change Job Item Description

Workshop JobTicket 5/8

| «Expr» | | [Caption OrderNo] [Order No. 1] | | «Expr» | |
|------------------------------|-----------------------|---------------------------------|------------------------|-----------------------|-----------------------|
| [PH_Address1] | [PH_SellToNo] | [PH_SellToNo] | [PH_SellToNo] | [PH_SellToNo] | [PH_SellToNo] |
| [PH_Address2] | [PH_PhoneData] | [PH_PhoneData] | [PH_PhoneData] | [PH_PhoneData] | [PH_PhoneData] |
| [PH_Address3] | [PH_MailData] | [PH_MailData] | [PH_MailData] | [PH_MailData] | [PH_MailData] |
| [PH_Address4] | | | | | |
| [PH_SellToContact] | [PH_BelongsToProject] | [PH_BelongsToProject] | [PH_BelongsToProject] | [PH_BelongsToProject] | [PH_BelongsToProject] |
| [PH_YourReference] | | | | | |
| [PH_DeliveryToSubcontractor] | [PH_HeaderFieldTx1] | [PH_HeaderFieldTx1] | [PH_HeaderFieldTx1] | [PH_HeaderFieldTx1] | [PH_HeaderFieldTx1] |
| [PH_ShippingDateData] | [PH_HeaderFieldTx2] | [PH_HeaderFieldTx2] | [PH_HeaderFieldTx2] | [PH_HeaderFieldTx2] | [PH_HeaderFieldTx2] |
| [PH_CustomerDeliveryDate] | [PH_HeaderFieldTx3] | [PH_HeaderFieldTx3] | [PH_HeaderFieldTx3] | [PH_HeaderFieldTx3] | [PH_HeaderFieldTx3] |
| | [PH_HeaderFieldTx4] | [PH_HeaderFieldTx4] | [PH_HeaderFieldTx4] | [PH_HeaderFieldTx4] | [PH_HeaderFieldTx4] |
| [PH_JobDescription] | | | | | |
| [Department_Name] | | | | | |
| [Comment_Text1] | [Comment_Text1] | [Comment_Text1] | [Comment_Text1] | [Comment_Text1] | [Comment_Text1] |
| [@Caption_RelatedCases] | | | | | |
| [RelatedCases] | | | | | |
| | | | | | |
| [Job_Item_De] | [Tool1_Name] | [Tool1_Descr] | [Tool2_Name] | [Tool2_Descr] | [Tool3_Name] |
| [Tool3_Descr] | [Tool4_Name] | [Tool4_Descr] | [Tool5_Name] | [Tool5_Descr] | [Tool6_Name] |
| [Comment_Text1] | [UserField_Name] | [UserField_Value] | [UserField_Name] | [UserField_Value] | [UserField_Name] |
| [UserField_Name] | [UserField_Value] | [UserField_Value] | [UserField_Value] | [UserField_Value] | [UserField_Value] |
| [Comment_Text1] | [UserField_Name] | [UserField_Value] | [UserField_Name] | [UserField_Value] | [UserField_Name] |
| [UserField_Name] | [UserField_Value] | [UserField_Value] | [UserField_Value] | [UserField_Value] | [UserField_Value] |
| [Calc_Unit_Desc] | [Quantity] | [Quantity] | [Sheet_No] | [Sheet_No] | [Sheet_No] |
| [@Caption_Press] | [Caption_PrintSiz] | [@Caption_PrintQty] | [Caption_U] | [Caption_Inline] | [Caption_Inline] |
| [@Caption_Press] | [Caption_PrintSiz] | [@Caption_PrintQty] | [Caption_U] | [Caption_Inline] | [Caption_Inline] |
| [PressSubjectBody] | | | | | |
| [Machine] | [Method] | [Full_Format] | [Sheet_No] | [Sheet_No] | [Sheet_No] |
| [Caption_Change] | [Caption_Color] | [@Caption_PrintQty] | [@Caption_Description] | [Description_Caption] | [Description_Caption] |
| [Caption_Change] | [Caption_Color] | [@Caption_PrintQty] | [@Caption_Description] | [Description_Caption] | [Description_Caption] |
| [Change_No] | [Front] | [Change_Net] | [Change_Gross] | [Change_Description] | [Change_Description] |
| [@Caption_Qua] | [@Caption_Dat] | [@Caption_Tir] | [@Caption_Name] | [@Caption_Ci] | [@Caption_Qi] |
| [@Caption_Qua] | [@Caption_Dat] | [@Caption_Tir] | [@Caption_Name] | [@Caption_Ci] | [@Caption_Qi] |
| [Shipment_Qu] | [Shipment_Dat] | [Shipment_Tir] | [ShipTo_Name] | [ShipTo_City] | [ShipTo_Qty_per_Pack] |
| [Shipment_Qu] | [Shipment_Dat] | [Shipment_Tir] | [ShipTo_Name] | [ShipTo_City] | [ShipTo_Qty_per_Pack] |

Tablix Properties

- General
- Visibility
- Filters
- Sorting

Help

Change display

When the report

☐ Show

☐ Hide

☒ Show or hide

«Expr»

☐ Display can

Expression

Set expression for: Hidden

=IIf(Fields!Details_SectionName.Value = "Tool Information", False, True)

Category:

- Constants
- Built-in Fields
- Parameters
- Fields (DataSet_Result)
- Datasets
- Variables
- Operators
- Common Functions

Item:

<All>

Values:

True

False

Help

OK

Cancel

Workshop JobTicket 6/8

OnBeforeCalculateQtyPerPlateChange
 OnBeforeDepartmentHeader
 OnBeforeDepartmentLines
 OnBeforeFindJobShipments
 OnBeforeFooterLines
 OnBeforeGetPlateChanges
 OnBeforeGetPressBody

OnBeforeGetPressSubject
 OnBeforeHeaderLines
 OnAfterGetPressBody
 OnAfterGetJobTicket
 OnAfterHeaderLines
 OnAfterDepartmentLines
 OnAfterFooterLines

Change the Press Subject Body example

```

[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS JobTicket Management", 'OnBeforeGetPressSubject',
'', true, true)]
local procedure OnBeforeGetPressSubject(var in_JobItem: Record "PVS Job Item"; in_DepartmentRec: Record
"PVS Department"; var PressSubjectTemp: Record "PVS Job Ticket Temp" temporary; var lastentry: Integer; var
isHandled: Boolean)

begin
    PressSubjectTemp.PressSubjectBody := in_JobItem.Description;
    PressSubjectTemp."Report Section" := "PVS LineTypes"::"Press - Process Subject Body";
    LastEntry += 1;
    PressSubjectTemp.PK1_Integer1 := LastEntry;
    PressSubjectTemp.KEY_Sorting_Decimal1 := LastEntry * 1000;
    PressSubjectTemp.Insert();
    isHandled := true;
end;
  
```

Workshop JobTicket 7/8

Add extra line under each printing process

- Create new line after the PressBody with a new key – use PK1_Integer2
- Set a new report section and a new text field to be printed
- Add new section in the layout

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::"PVS JobTicket Management", 'OnAfterGetPressBody', '', true, true)]
local procedure OnAfterGetPressBody(var in_SheetRec: Record "PVS Job Sheet"; in_DepartmentRec: Record "PVS Department";
var PressBodyTemp: Record "PVS Job Ticket Temp" temporary; var lastentry: Integer)
begin
    //Logic
end;

procedure GetJobTicketTemp(var JobTicketTemp: Record "PVS Job Ticket Temp")
begin
    JobTicketTemp := Global_JobTicketTemp;
end;

procedure SetJobTicketTemp(var JobTicketTemp: Record "PVS Job Ticket Temp")
begin
    Global_JobTicketTemp := JobTicketTemp;
end;

var
    Global_JobTicketTemp: Record "PVS Job Ticket Temp";
```


Workshop JobTicket 8/8

```

tableextension 50100 "PTE Job Ticket" extends "PVS Job Ticket Temp"
{
    field(50100; CustomTextField; Text[50])
enumextension 50101 "PTE Line Types" extends "PVS LineTypes"
{
    value(50100; MyNewSection)
    {
        Caption = 'My new section', Locked = true;
reportextension 50101 "PTE Job Ticket 2" extends "PVS Job Ticket 2"
{
    dataset
    {
        add(LINE_DETAILS)
        {
            column(CustomTextField; JobTicketTempS.CustomTextField){}
        }
        modify(LINE_DETAILS)
        {
            trigger OnAfterAfterGetRecord()
            var
                PTEJobTicket: Codeunit "PTE Job Ticket";
            begin
                PTEJobTicket.GetJobTicketTemp(JobTicketTempS);
            end;
        }
    }
}
var
    JobTicketTempS: Record "PVS Job Ticket Temp";
}

```

Workshop KPI 1/2

KPI Calculations

Possible to calculate/update 10 KPI fields on PVS Job
KPI's can be set on different product groups

Example:

```
[EventSubscriber(ObjectType::Table, Database::"PVS Job", 'OnAfterValidate_Price_Method', '', true, false)]  
procedure OnAfterValidate_Price_Method(var in_Rec: Record "PVS Job");  
var  
KPI_Value1, KPI_Value2, KPI_Value3: Decimal;  
begin  
    // If you only want to calculate for a certain prod group you can add this check  
    if in_Rec."Product Group" <> 'POSTER' then  
        exit;  
    // Calculate up to 10 KPI values somehow  
    KPI_Value1 := 13;  
    KPI_Value2 := 23;  
    KPI_Value3 := KPI_Value1 + KPI_Value2;  
    // Assign the KPI values to the Job  
    in_Rec."Misc. 1" := KPI_Value1;  
    in_Rec."Misc. 2" := KPI_Value2;  
    in_Rec."Misc. 3" := KPI_Value3;  
end;
```

Workshop Unit Conversion

In the printing industry, many different units are used.
For example, paper could be handled in weight *and* pieces.
On the item the consultant/user has entered known information about the item's dimension, and with help of that we have standard functions to transform/convert from different units.

PrintVis Standard Units

```
PVSItemManagement.Item_InventoryUnit_Factor(Item, FromUnit, ToUnit) = factor
```

Workshop KPI 2/2

KPI Calculations

- Task 1
 - Create KPI field that displays cost of all plates in the estimate connected to the job
Use CacheManagement.READ_Tmp_Job_CalcUnitDetails to get the Calc Unit Details
Filter on Item Type
- Task 2
 - Create KPI field that displays the price per 1000pcs for the selected Paper
 - Convert the value of previous KPI from pcs to Weight
 - Convert the value of previous KPI from pcs to Area
 - Add the KPI fields next to the quoted price on the job list part on the case card.

Thank You

See You Next Time!

