

# inu:it



inu:it

# Mogens Mortensen



- Uddannet maskinarbejder i 94
- Maskinarbejder, Konstruktor og IT
- 13 år hos Cimbria
- 3,5 år hos inu:it
- Arbejdet sammen med NTI over 20år



# inu:it og NTI

Cimbria : Bedre datasikkerhed og effektivitet

- Hvem er jeg og inu:it
- Cimbria
- Projekt beskrivelse og Målet
- Udfordringer
- Beskrivelse af Cimbria CAD Setup før projekt start
- Hvad vi har lavet og hvordan



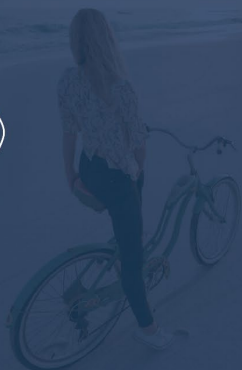
**Inuit betyder menneske på grønlandsk.  
Og hos inu:it er IT til mennesker i fokus.**

IT-løsninger i både Danmark og  
Grønland

Kontorer i Nuuk, Thisted, Vejle og  
Støvring

Mere end 25 års erfaring

**inu:it**



## inu:cloud



zero trust  
managed workstation  
sikkerhedspolitikker  
automatisk opdatering  
flatrate support

## NaaS



firewall  
hardware  
driftsstabilitet  
løbende opdatering  
overvågning

## hosting



sikkerhed  
løbende opdatering  
remote backup  
overvågning  
24-7 vagt

## sikkerhed



360° analyse  
sårbarhedsscanning  
netværksscanning  
fysisk inspektion  
teknisk rådgivning

## rådgivning



smv:digital

D-mærke  
smv:digital  
NIS2 & GDPR  
risikovurdering  
procesoptimering

## web



hosting af websider  
konfiguration  
cookie administration  
grafik & visualisering  
animation

## Kort om Cimbria

Cimbria is a leading company within industrial processing, handling and storage of grain, seed and food products.

We offer project design, engineering, process control – as well as development, manufacturing and service of customized systems and turnkey installations.





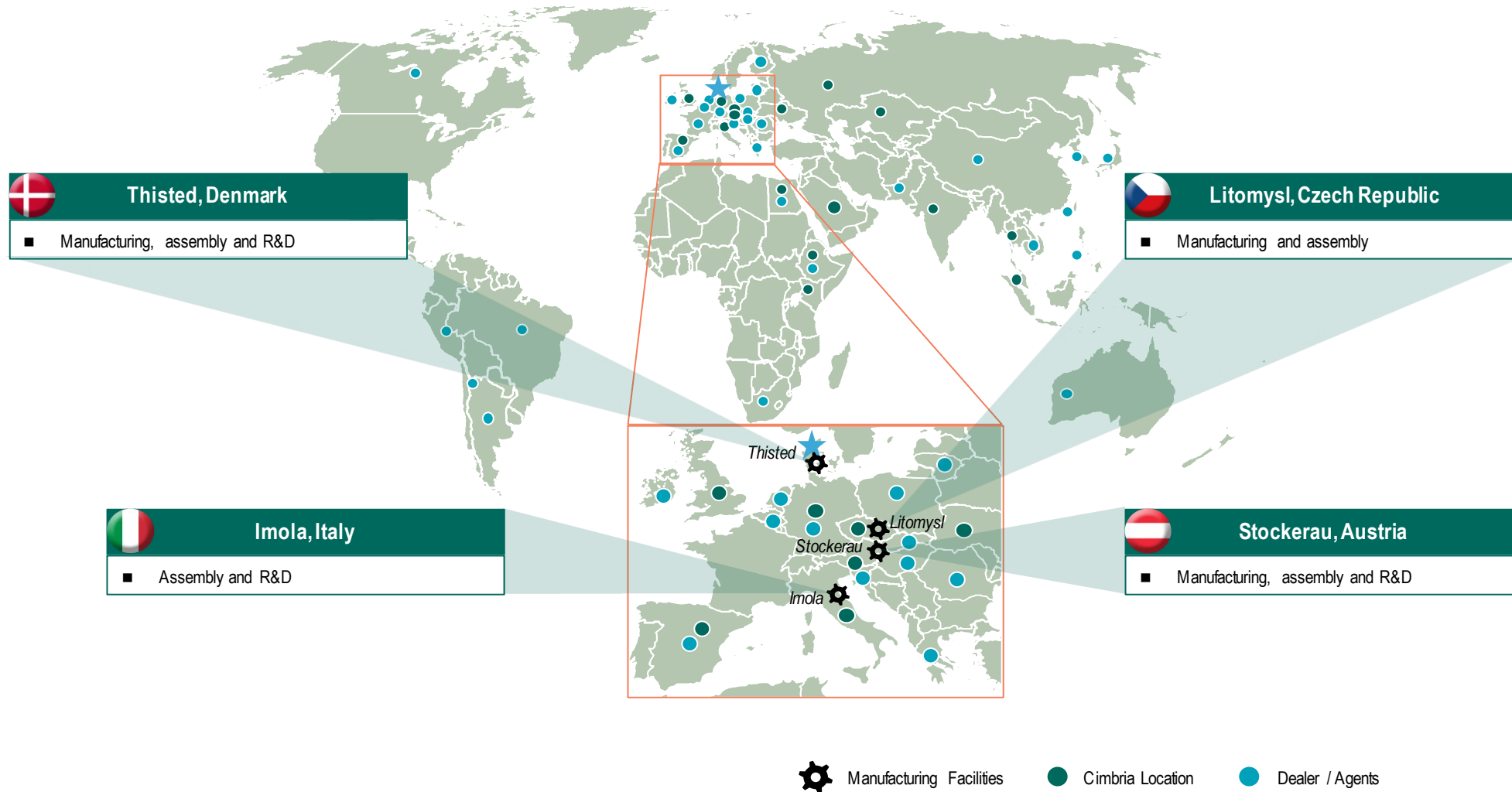


# Our History

**In 1947, brothers Erik, Svend and Henry Olesen started designing and building agriculture machinery in Denmark, with one dream: to stand together with their customers and help them grow.**



# Global network







## SEED PROCESSING

World class reputation based on years of experience with seed processing solutions.



## GRAIN STORAGE

Custom solutions for grain storage and handling in steel, concrete, or flat storage.



## FEED MILLING

High capacity, high quality and cost effective equipment for feed milling



## FOOD PROCESSING

In-depth knowledge designing a range of creative solutions for the food industry



## EAR CORN PROCESSING

Market leading experts in designing ear corn drying and processing facilities.



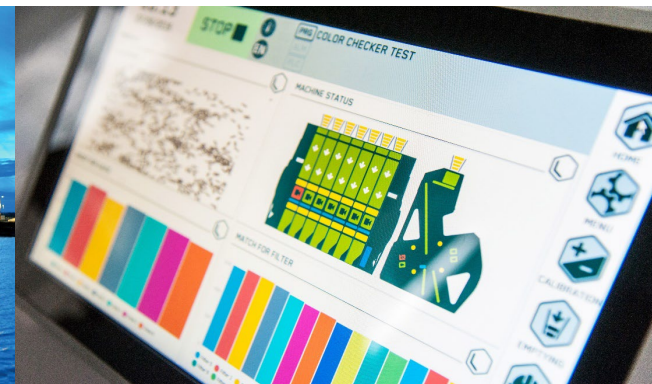
## GREEN COFFEE PROCESSING

Provide solutions for efficient production and enhanced quality of final product.



## PORT TERMINALS

Experts in high loading capacity and equipment reliability for terminals.

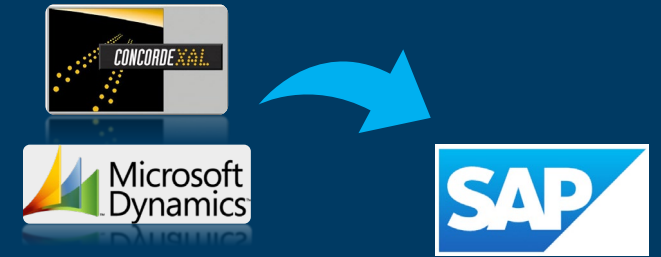


## CONTROL & AUTOMATION

Automation systems that ensure operational efficiency and stress free maintenance.

# Projektet beskrivelse

- Opgradering af CAD setup fra 2021 til 2024
- XAL udskiftes med SAP
- Flyt alt CAD data ind i Vault
- Brug af nye NTI funktioner på Jobservere
- Næsten 1.000.000 filer i Engineering, hvor der skal data vaskes!
- NTI Integration til Excel export, for manuel overførsel til SAP
- Deployment af CAD Software fra Microsoft Firma Portal



2021 -> 2024

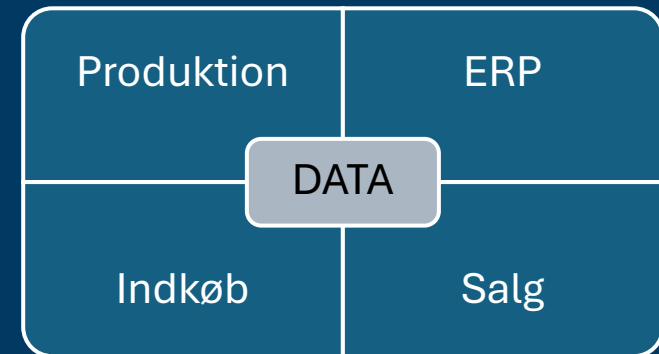


# Projektet målet

- Alle arbejder med ens CAD setup  
*Sikrer ensartet data kvalitet*
- Alle har adgang til ens data  
*Sikrer korrekt data til alle*
- Vault data er 100% korrekt  
*Data i Vault er styrende*
- Vault data overføres automatisk til SAP  
*Minimere fejl og manuel indtastning, spare tid*



Autodesk 2024





# Hvilke programmer arbejdes der med

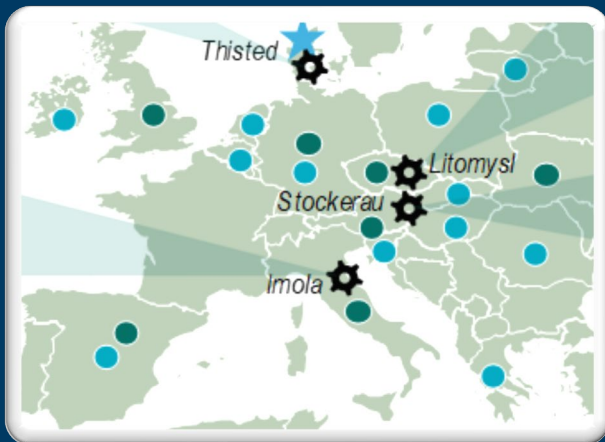
Autodesk Produkter version 2021



ERP Systemer: XAL og C5



Thisted, Østerg, Tjekki og Italien.  
+ 100 CAD burger

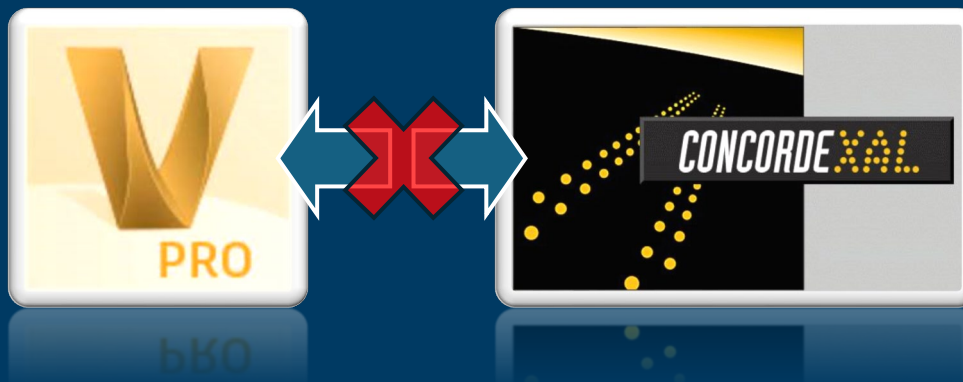


Forskellige workflow



## Udfordringer !

Vault og ERP data ikke i sync!



Filer uden for Vault

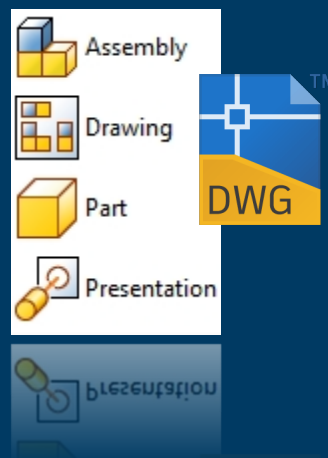


325.000 items, og 2.800.000 filer

7 TB Filestore

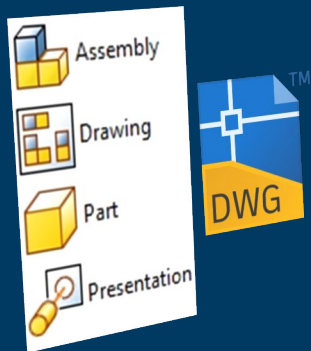
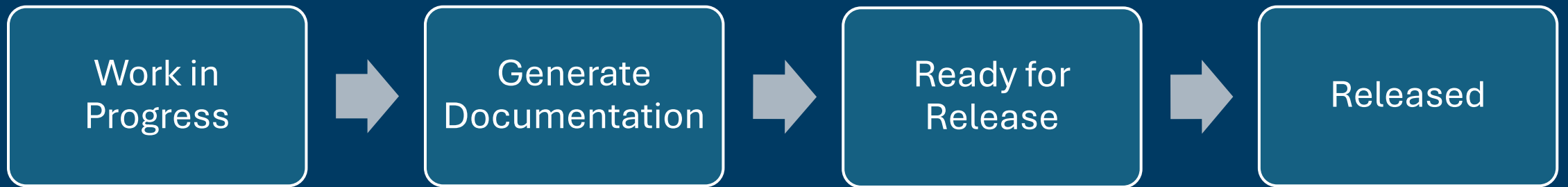
300 GB DB

Forskellige Templates



inu:it

# Vault item workflow og lifecycle



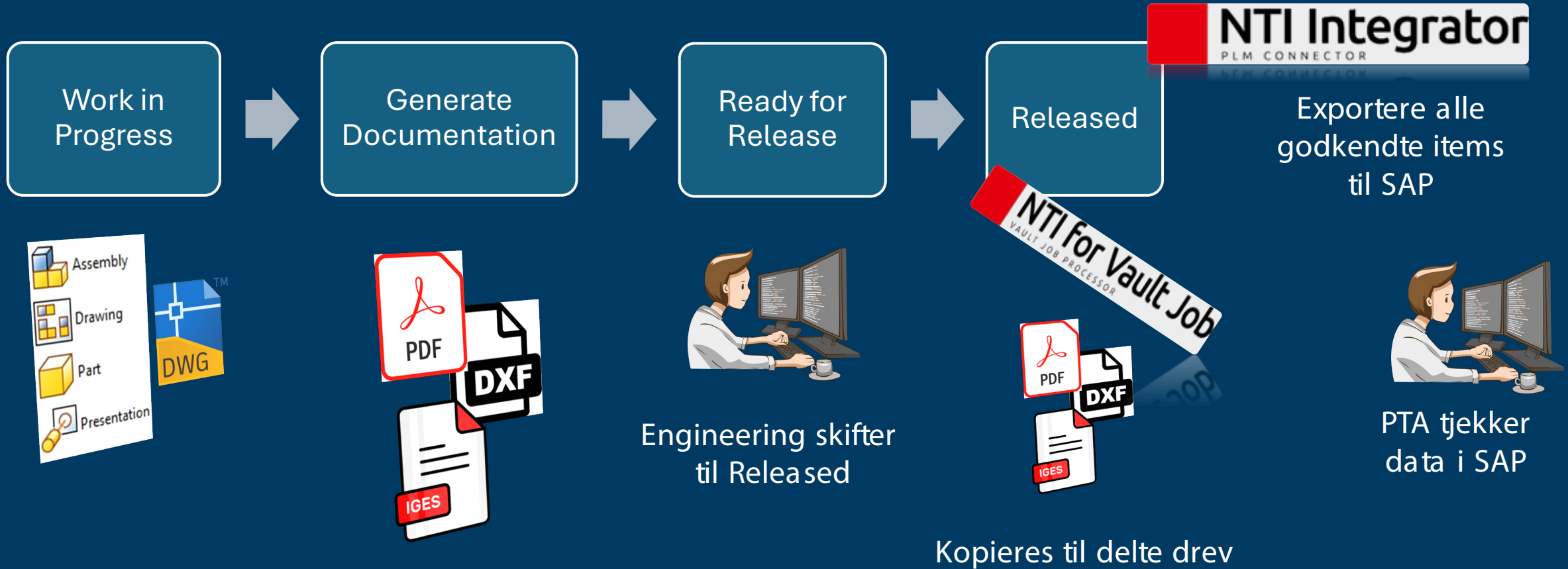
PTA godkender og opdater ERP

Kopiers til delte mapper

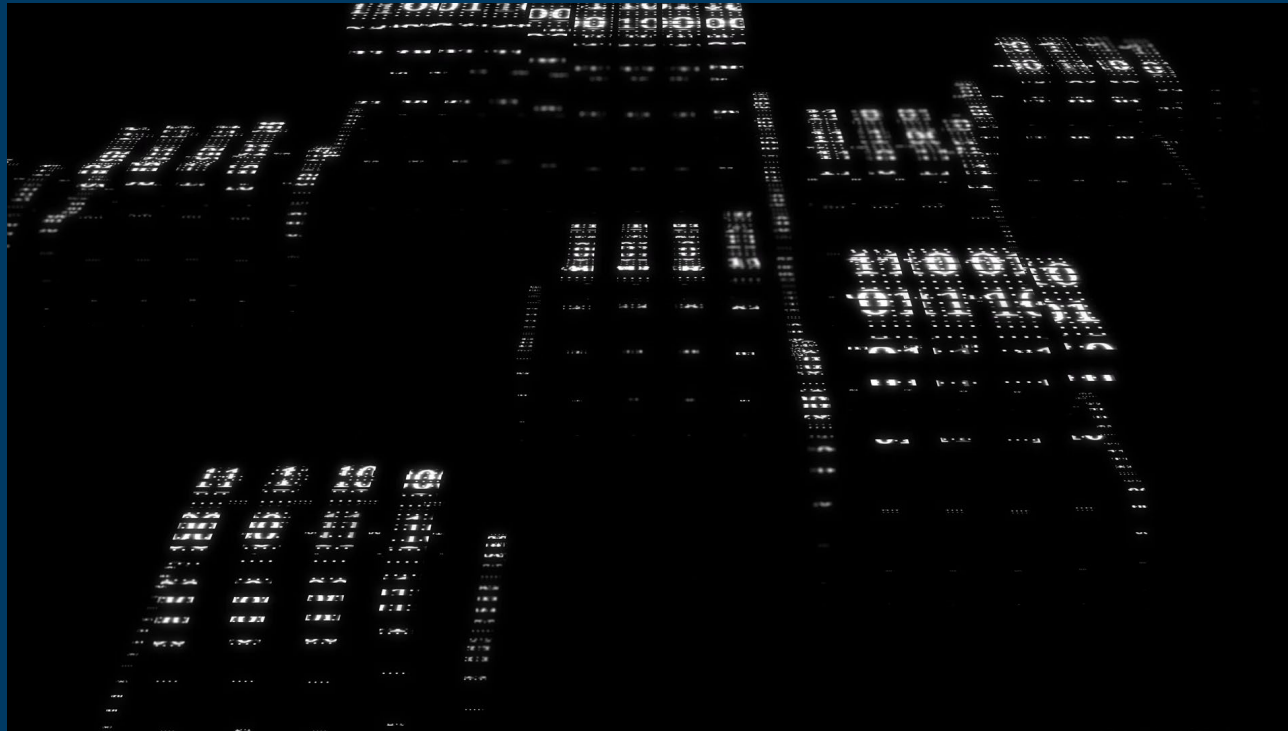




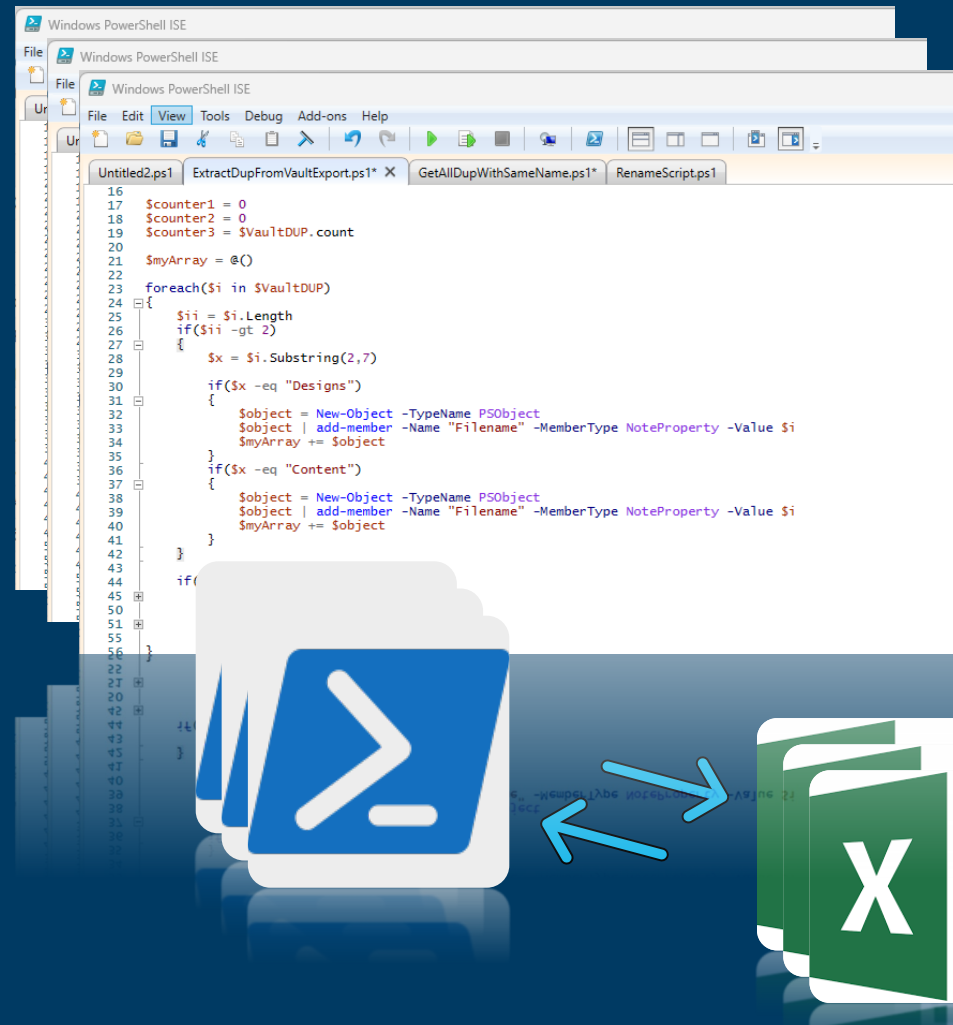
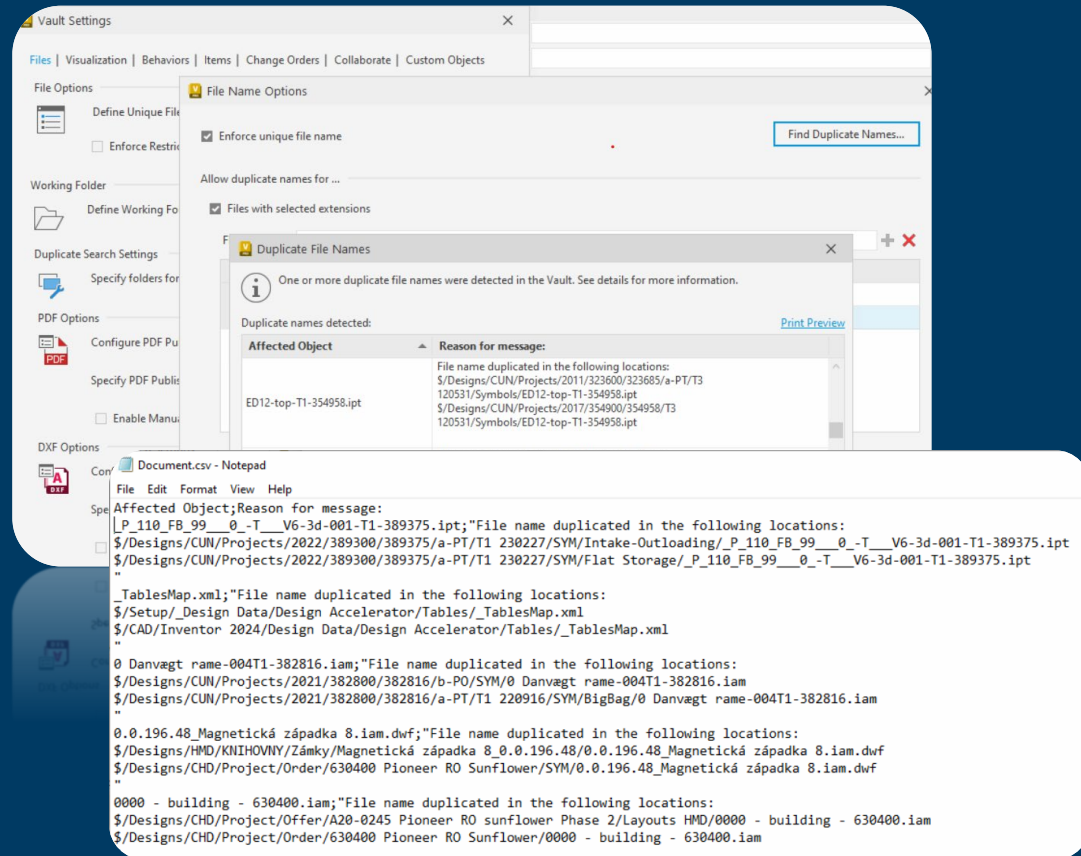
# Det nye item workflow



# Projekt start!



# Find Duplicate Names



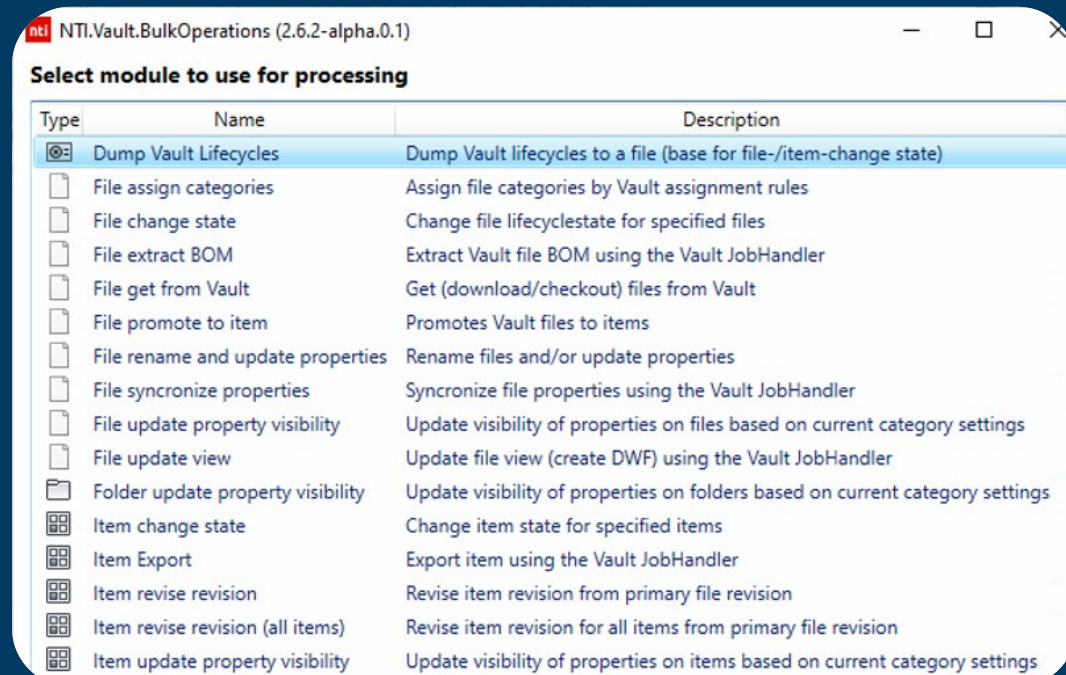
# NTI data tools

File promote to item

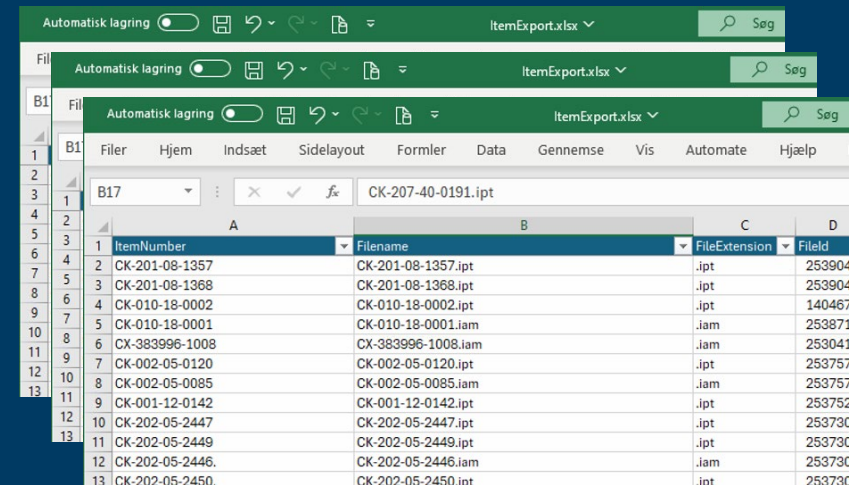
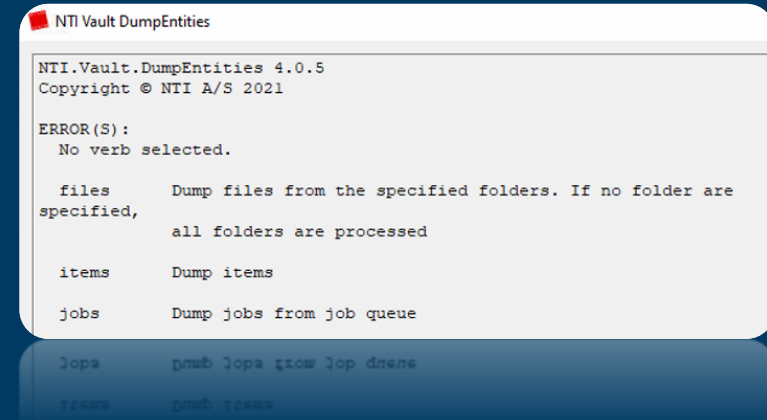
File rename and update properties

Item change state

Item update property visibility



Exporter item og fil lister

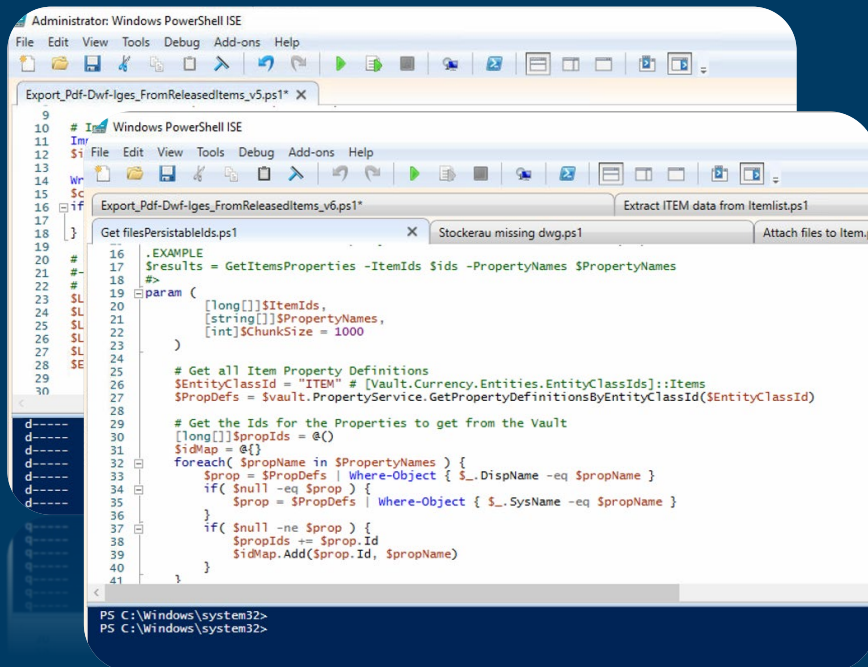


# Vault data clean -up

O pdater rettigheder på filer i Vault (AC L-rights)

O pdater SourcePersistentId på PDF'er

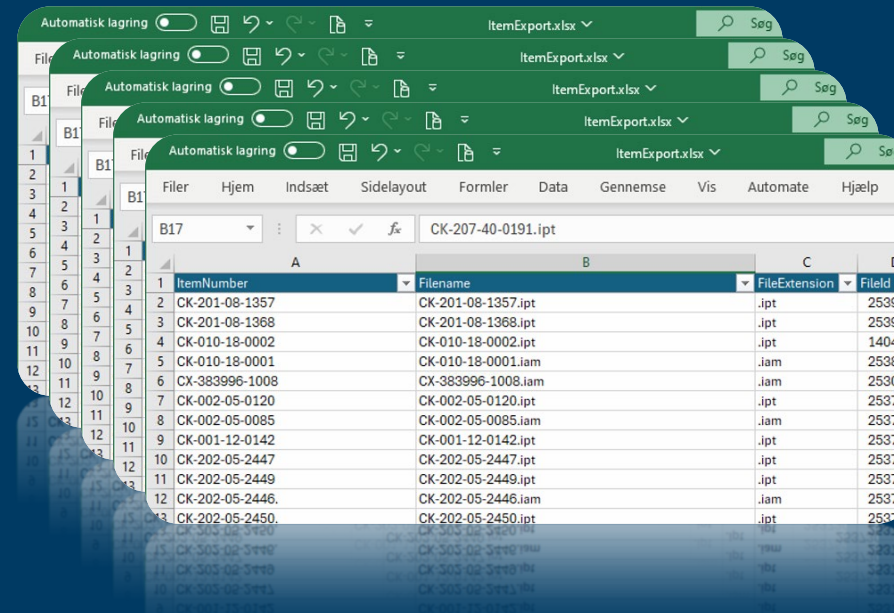
Exporter alle afledte formater igen fra Released items (PDF , DXF, IGES)



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Export_Pdf-Dwf-Iges_FromReleasedItems_v5.ps1* X

9
10 # Windows PowerShell ISE
11 Imr
12 $1 File Edit View Tools Debug Add-ons Help
13
14 Wr
15 Sc
16 if
17
18 }
19
20 #
21 $results = GetItemsProperties -ItemIds $ids -PropertyNames $PropertyNames
22 #
23 param (
24     [long[]]$ItemIds,
25     [string[]]$PropertyNames,
26     [int]$ChunkSize = 1000
27 )
28
29 # Get all Item Property Definitions
30 $EntityClassId = "ITEM" # [Vault.Currency.Entities.EntityClassIds]::Items
31 $PropDefs = $Vault.PropertyService.GetPropertyDefinitionsByEntityClassId($EntityClassId)
32
33 # Get the Ids for the Properties to get from the Vault
34 [long[]]$PropIds = @()
35 $IdMap = @{}
36 foreach( $PropName in $PropertyNames ) {
37     $Sprop = $PropDefs | Where-Object { $_.DispName -eq $PropName }
38     if( $null -eq $Sprop ) {
39         $Sprop = $PropDefs | Where-Object { $_.SysName -eq $PropName }
40     }
41     if( $null -ne $Sprop ) {
42         $PropIds += $Sprop.Id
43         $IdMap.Add($Sprop.Id, $PropName)
44     }
45 }
```

PS C:\Windows\system32>  
PS C:\Windows\system32>



ItemNumber	Filename	FileExtension	Filed
2	CK-201-08-1357	CK-201-08-1357.ipt	.ipt 253904
3	CK-201-08-1368	CK-201-08-1368.ipt	.ipt 253904
4	CK-010-18-0002	CK-010-18-0002.ipt	.ipt 140467
5	CK-010-18-0001	CK-010-18-0001.iam	.iam 253873
6	CX-383996-1008	CX-383996-1008.iam	.iam 253041
7	CK-002-05-0120	CK-002-05-0120.ipt	.ipt 253751
8	CK-002-05-0085	CK-002-05-0085.iam	.iam 253751
9	CK-001-12-0142	CK-001-12-0142.ipt	.ipt 253752
10	CK-202-05-2447	CK-202-05-2447.ipt	.ipt 253730
11	CK-202-05-2449	CK-202-05-2449.ipt	.ipt 253730
12	CK-202-05-2446	CK-202-05-2446.iam	.iam 253730
13	CK-202-05-2450	CK-202-05-2450.ipt	.ipt 253730



# Nye Jobservere



The screenshot displays the Vault Job Processor interface for item 101.04473.00. The top section shows item metadata: Revision (Latest, Released), Number (101.04473.00), Title (101.04473.00), Description, Units (Each), Category (Assembly), Lifecycle State (Released), Last Updated By (inuit), and Last Updated (17-09-2024 10:31). Below this, the 'Associated files' table lists two files: 101.04473.00.dwg and 101.04473.00.pdf. The bottom section shows a file tree structure for the '101\_' folder, with 'Documentation' containing subfolders 0, 1, 1½, 10, 100, 101, 12, 13, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000. The right pane shows a list of files under 'Entity Type:File', with 101.04473.00.pdf selected.

File Name	Vers...	Stoc...	Re
101.04473.00.dwg	1		
101.04473.00.pdf	1		

Name	Descripti
101.04427.00.pdf	
101.04445.01.pdf	
101.04473.00.pdf	
101.13552.01.pdf	
101.13552.02.pdf	

Mappe struktur I Documentation

- 1 første tegn
- 2 første tegn
- 3 første tegn
- 4 første tegn



# Nye Jobservere



DK-080-12-0052 - Released - Item (Read Only)

File Edit View Actions Help

General | History | Bill of Materials | Where Used | Change Order | View

Revision: Latest Released

Number: DK-080-12-0052

Title: DK-080-12-0052

Description:

Units: Each

Associated files:

File Name	Versi...	Stock N...	Re...
DK-080-12-0052.dxf	4		
DK-080-12-0052.idw	1		R
DK-080-12-0052.i			
DK-080-12-0052.i			
DK-080-12-0052.i			

NTI for Vault Job 2021

File Configuration Help

Job processor Miscellaneous

Job processor containers Deactivate job processors File paths to exclude during job clean up

Remove Move up Move down Hide unused Show all

Name	Description
PreProcessFile	Preprocess file.
PreProcessItem	Preprocess item.
Inventor.Create.pdf	Create pdf of inventor drawing.
Inventor.Create.dwf	Create design representation dwf of inventor document.
Inventor.Create.sat	Create sat of inventor model.
Inventor.Create.igs	Create iges of inventor model.
Inventor.Create.SheetMetal.dxf	Create dxf of inventor sheet metal part.
Inventor.Create.dwg	Create dwg of inventor drawing.
JobBundleForInventor	Run bundled jobs for inventor document.
Autocad.Create.dwg	Create dwg of autocad drawing.
Autocad.Create.pdf	Create pdf of autocad drawing.

ERP > ItemsPDF > DK-0 > DK-080-12-0052

Search DK-080-12-0052

Name	Date modified	Type	Size
DK-080-12-0052.pdf			
DK-080-12-0052-B.pdf			

DXF > DK > DK-080 > DK-080-12

Search DK-080-12

Name	Date modified	Type	Size
DK-080-12-0052.dxf	13-06-2024 13:17	AutoCAD Drawing...	357 KB
DK-080-12-0053.dxf	10-06-2024 07:59	AutoCAD Drawing...	352 KB
DK-080-12-0054.dxf	10-06-2024 11:25	AutoCAD Drawing...	354 KB
DK-080-12-0055.dxf	30-10-2023 00:33	DWG File	113 KB
DK-080-12-0056.dxf	10-06-2024 11:52	AutoCAD Drawing...	324 KB

# Nye Jobservere



DK-080-12-0052 - Released - Item (Read Only)

File Edit View Actions Help

General | History | Bill of Materials | Where Used | Change Order | View

Revision: Latest Released

Number: DK-080-12-0052

Title: DK-080-12-0052

Description:

Units: Each

Associated files:

File Name	Versi...	Stock N...	Re...
DK-080-12-0052.dxf	4		
DK-080-12-0052.idw	4		B
DK-080-12-0052.iges	4		
DK-080-12-0052.ipt	4	DK012052	B
DK-080-12-0052.pdf	7		B

NTI for Vault Job 2021

File Configuration Help

Job processor Miscellaneous

Job processor containers Deactivate job processors File paths to exclude during job clean up

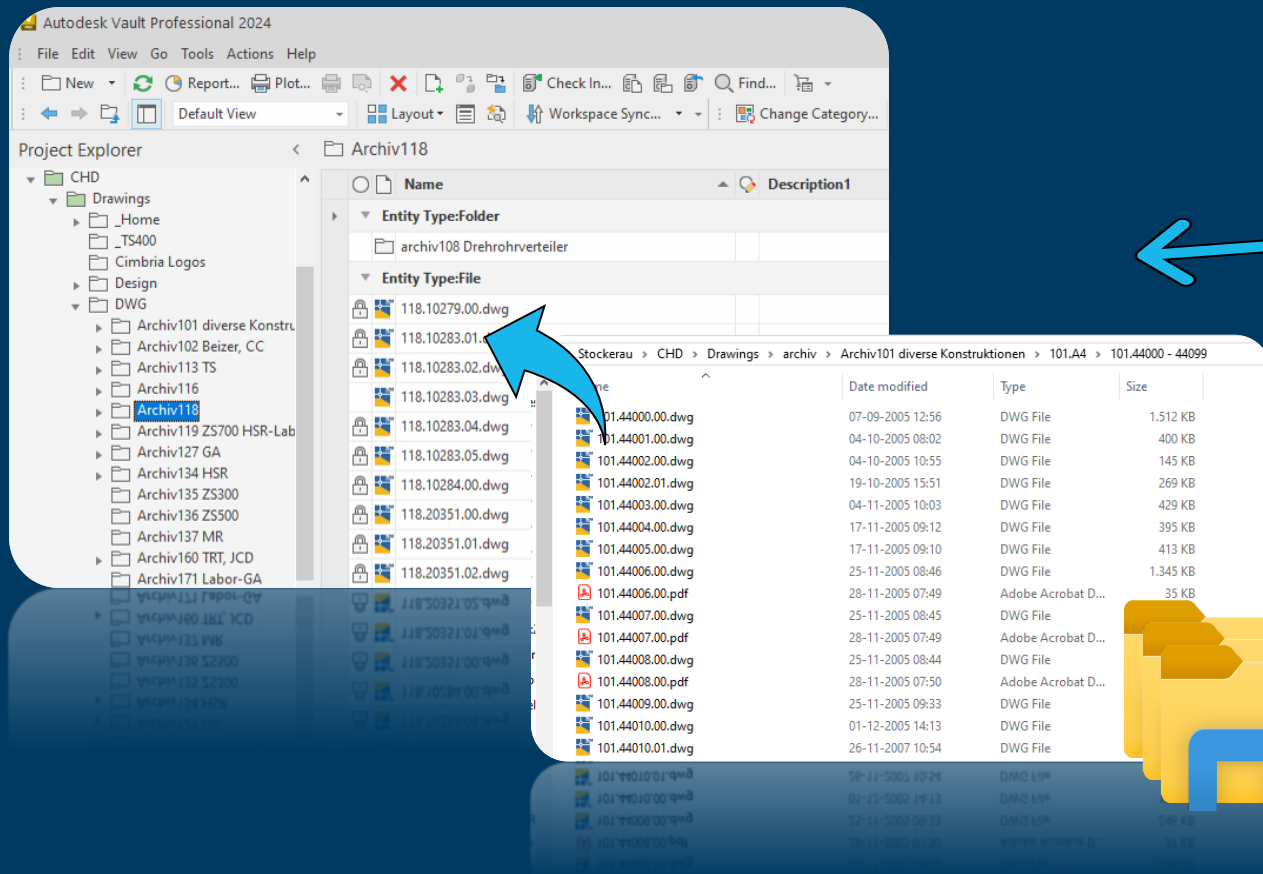
Remove Move up Move down Hide unused Show all

Name	Description
PreProcessFile	Preprocess file.
PreProcessItem	Preprocess item.
InventorCreate.dwf	Create dwf of Inventor drawing.
Representation.dwf	Representation dwf of inventor document.
Model.dwf	Model dwf of inventor document.
Sheet.dwf	Sheet metal part dwf of inventor document.
Drawing.dwf	Drawing dwf of inventor document.
Model.dwg	Model drawing of inventor document.
Sheet.dwg	Sheet metal part drawing of inventor document.
Drawing.dwg	Drawing drawing of inventor document.

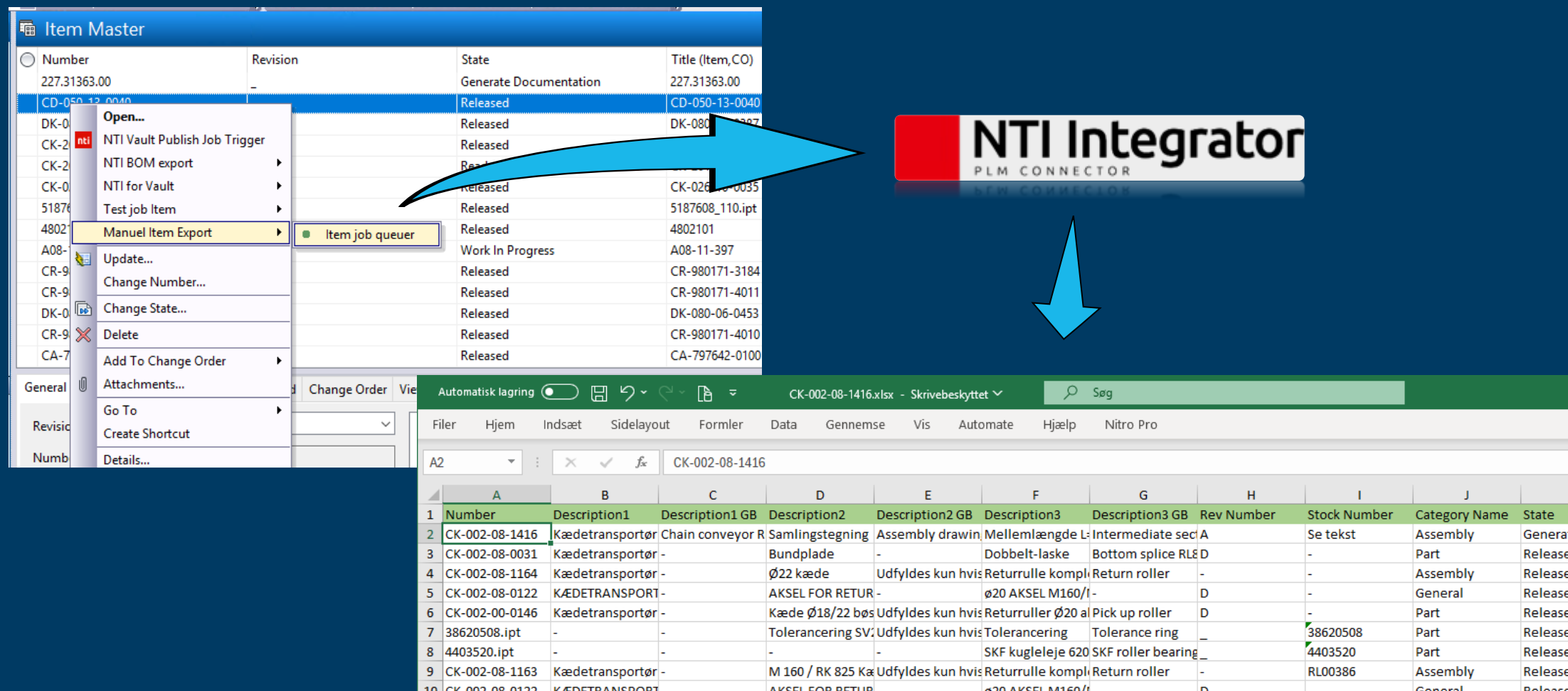
NOT TO BE USED - NEW REVISION EXISTS

PDF

Upload dwg filer til Vault ~ 35.000  
assign item  
find og match PDF til alle dwg'er  
upload PDF og tilføj dem til items



# Exporter godkendte items til Excel – for manuel overførsel til SAP



The screenshot illustrates the process of exporting approved items from the NTI Integrator to Excel for manual transfer to SAP. The 'Item Master' window displays a list of items, and the context menu for the selected item 'CK-002-08-1416' is open, showing the 'Manuel Item Export' option. The 'NTI Integrator' logo is shown, and an Excel spreadsheet is displayed below it, containing the exported data.

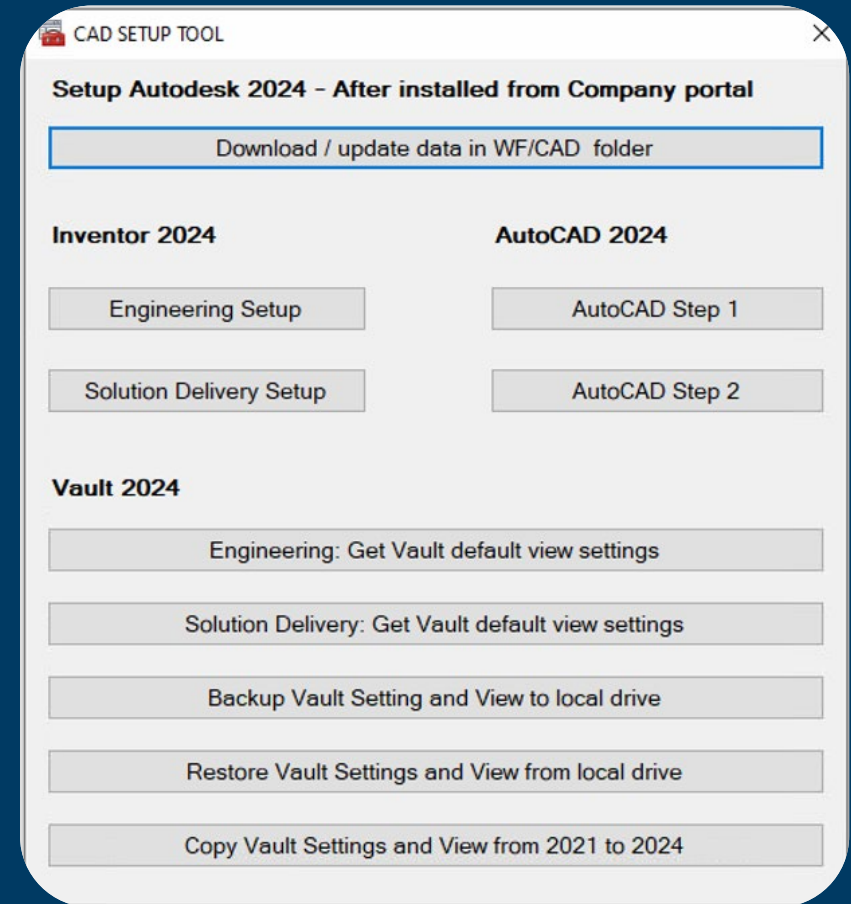
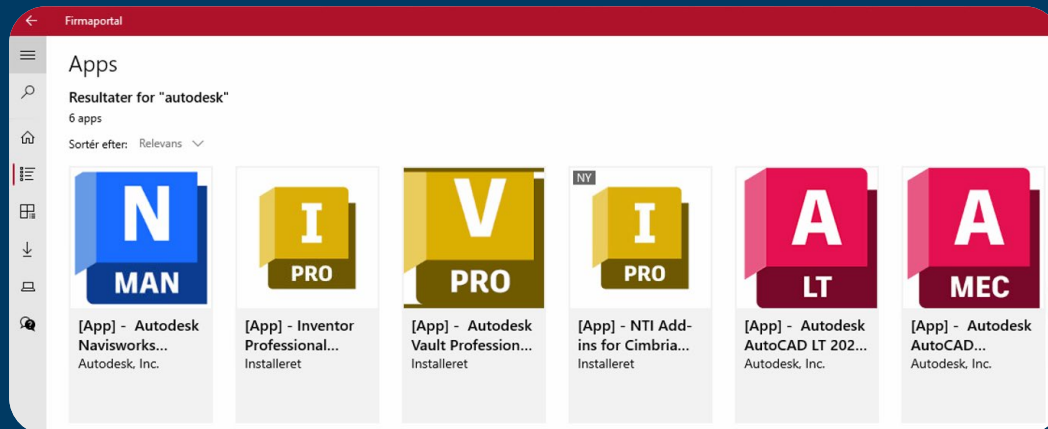
Number	Description1	Description1 GB	Description2	Description2 GB	Description3	Description3 GB	Rev Number	Stock Number	Category Name	State
CK-002-08-1416	Kædetransportør	Chain conveyor R	Samlingstegning	Assembly drawin	Mellemlængde L	Intermediate sec	A	Se tekst	Assembly	Generat
CK-002-08-0031	Kædetransportør	-	Bundplade	-	Dobbelt-laske	Bottom splice RL	D	-	Part	Release
CK-002-08-1164	Kædetransportør	-	Ø22 kæde	Udfyldes kun hvis	Returrulle kompl	Return roller	-	-	Assembly	Release
CK-002-08-0122	KÆDETRANSPORT	-	AKSEL FOR RETUR	-	Ø20 AKSEL M160/I	-	D	-	General	Release
CK-002-00-0146	Kædetransportør	-	Kæde Ø18/22 bøs	Udfyldes kun hvis	Returruller Ø20 al	Pick up roller	D	-	Part	Release
38620508.ipt	-	-	Tolerancering SV	Udfyldes kun hvis	Tolerancering	Tolerance ring	-	38620508	Part	Release
4403520.ipt	-	-	-	-	SKF kugleleje 620	SKF roller bearing	-	4403520	Part	Release
CK-002-08-1163	Kædetransportør	-	M 160 / RK 825 Kæ	Udfyldes kun hvis	Returrulle kompl	Return roller	-	RL00386	Assembly	Release
CK-002-08-0122	KÆDETRANSPORT	-	AKSEL FOR RETUR	-	Ø20 AKSEL M160/I	-	D	-	General	Release

# Software deployment

Alt software skal installeret fra Firmaportal

Installation fra NTI standard script er ikke tilladt

begrænsning på pakke størrelse: 8GB



Tak for jeres tid

Spørgsmål ?