### MicroStation tips & tricks

Bentleyuser.dk 2017

TINE LAI ANDERSEN



# Popups panel

MicroStation Connect Edition

Tast <SPACE> og få Popups panelet frem

- Home Ribbon Panel Attributes (1) Primary (2) Selection (3) Placement (4) Manipulate (5) Modify (6) Groups (7)
- Manipulate Ribbon Panel Selection (Q) Move (W) Copy (E) Rotate (R) Scale (T) Mirror (Y) Delete (U)
- Annotation Ribbon Panel: Measure (A) Text (S) Dimensions (D) Detailing (F)
- Drawing Aids Panel Patterns (G) AccuDraw (H) Snaps (J) Locks (K)







# Flyt dialogbokse

MicroStation V8i & Connect Edition

• Dialog bokse kan "sidde fast" i skærmens kanter, og hvis du forsøger at flytte den så vil den bare re-size dialogboksen. Og hvad gør man så?

Flyt musen ned i hjørnet, så den tror du vil skifte størrelse på dialogboksen. Hold <SHIFT> nede og brug venstre musetast til at flytte dialogboksen





# Se stien til referencen

MicroStation V8i & Connect Edition

 Højreklik i reference dialogboksen nederste grå felt, og vælg hvilke informationer du gerne vil have vist

References (15 of 15 unique, 2 displayed)													- 🗆	×
Tools Settings														
📘 -   😫 💁 🚿 🗢 🗇 🌮 🚹 🐉 🛱 🛙	• 🛈 >	👌 <u>H</u> ilite M	ode: Boundaries 👻											
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	12		ConnectingTunnels.dgn	$\checkmark$				Aligned with Master File		Coinc	ident	Wireframe	Latest avail	
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# Brugerfladen

MicroStation Connect Edition

• Er du til den "gamle" brugerflade og tasken i en minimeret udgave?



# Brugerfladen

MicroStation Connect Edition

• Eller vil du have den gode gamle Task menu frem?

Catagoria	na ************************************
Category	Name for Preferences: Default Preferences
Database	
Help Settings	Presentation: Dialog -
input	
Language	Dialog Presentation Options
LOOK and Feel	Icon Size: Medium (24 x 24) 🔻
Mouse wheel	Show Navigation Tools
Operation Desition Mension	Show Main Task Tools
Position Mapping	
Raster Manager	
Render	
Pibbon	
Spolling	
Та	
Task Navigation	
Text	
Undate Settings	
View Ontions	
	Focus Item Description:
	For more options, click on the category list at left.
	Defaulte OK Cancel

\* Eller sættes vha. configuration variable: MS\_TASKNAVIGATION\_CONFIGURATION = 1

Tasks 💌 🎙	×
Tasks	•
▶ 2	•
∕o Drawing <b>₩Ξ</b> ■∧	^
<u>∾□ ⊂ \$ Ô</u>	
<b>■</b> 00ノンへ魚ノ <i>/</i>	
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🗔 Drawing Composition	
🕝 Solids Modeling 🔹 🗸	
Surface Modeling 🔹	
🔀 Mesh Modeling 🔹	
🍐 Terrain Model 🔹	
🚯 Feature Modeling 🔹 🗸	~

NIRÁS

# Position mapping

MicroStation Connect Edition

• Få Position mapping og de "gamle" shorts tilbage

Preferences [Personal]				×
ategory	Name for Preferences:	Default Preferences		
elp Settings put		Use Position Mapping	>	
nguage		Show Position Mapping	nus	
ook and Feel ouse Wheel	<u>A</u> ttributes & Primary:	AS		
eration	<u>M</u> ain:	1234567890		
osition Mapping	Tasks & Ribbon:	QWERTDFGZXCVB		
ster Manager	Too <u>l</u> Settings:	YUIOPHJKLæNM,		
ender	Menus & Popups:	1234567890QWERTYUIOPAS	DFGHJKLæZXCVBNM,	
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	Focus Item Description	1:		
	For more options, clic	k on the category list at left.	ß	
		Defaults	<u>O</u> K Cance	•



# Zoom til valgte elementer

MicroStation V8i & Connect Edition

- Connect Edition
   Properties dialog →
   Marker elementer →
   Højreklik → Zoom
- MicroStation V8i
   Keyin:

set displayset on; selview 1; displayset set selection; fit all; point ab; displayset clear; update view extended





## **Select Previous**

MicroStation V8i & Connect Edition

### • Laaangt højreklik $\rightarrow$ Select Previous







# Function keys

MicroStation Connect Edition

• F2 = ribbon activatekeytips



#### • F3 = ribbon activetabkeytips =



= Søg

=

• F4 = ribbon focussearch



# Group button size

MicroStation Connect Edition

 Højreklik på et blankt sted på din Ribbon → Vælg Group Button Size

blankt sted → tton Size	<ul> <li>Attach Tools • </li> <li>Explorer Attach Tools • </li> <li>Attach Tools • </li> <li>Explorer Attach Tools • </li> <li>Models</li> <li>Level Display</li> <li>Level Manager</li> <li>Properties More •</li> <li>Pin/Unpin Group •</li> <li>Group Button Size •</li> <li>Small Medium Large Revert to default</li> </ul>	
	Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system       Image: Second system	Image: Attach Tools       Image: Attach Tools         Image: Attach Tools       Image: Attach Tools
Small	Medium	Large

NIRX

Q

Explorer Attach Models Level AT Tools • Display

Primary

Default

# **Connect Advisor Settings**

MicroStation Connect Edition

Man kan slå Connect Advisor fra når man launcher MicroStation, og dermed øges performance...

I Bentley Connect Advisor vælg:

Settings  $\rightarrow$  Fjern fluebenet ud for:

Launch CONNECT Advisor on startup



NIRÁS

# LEVEL Purge

MicroStation V8i & Connect Edition?

Denne key-in kommando vil:

- 1. Slette ALLE levels i din design fil
- 2. Eventuelle elementer flyttes til "default" level

Så vær varsom og tænk før du burger kommandoen...





# Display level description and search

### MicroStation Connect Edition

Configuration Variables : User	rsonal]	×
<u>F</u> ile		
<u>C</u> ategory	Search	×
Category All Category All Cells Colors Data Files Database Design Applications Design Applications Design History DWG/DXF Engineering Links Extensions File Saving Geographic Coordinates Levels Macro Recorder Markup OLE Operation Point Cloud Primary Search Paths Printing Protection QuickVision Raster Reference Rendering/Images Reports	Search           Variable Name         Description           MS_LEVEL_ALLOW_LIBRARY_LEVEL_EDIT         Edit Unused Library Levels           MS_LEVEL_AUTO_SYNC_ATTRIBUTE_LIST         Level Attribute Auto Synch.           MS_LEVEL_DISPLAY_FORMAT         Level Display Format           MS_LEVEL_DO_NOT_OVERRIDE_DESIGN_LE         Level Property Overrides in Sheet and D           MS_LEVEL_DO_NOT_OVERRIDE_DESIGN_LE         Level Property Overrides in Sheet and D           MS_LEVEL_DON_ON_OVERRIDE_DESIGN_LE         Level Property Overrides in Sheet and D           MS_LEVEL_DOT_NESTED_ATTACHMENT_L         Edit Nested Attachment Levels           MS_LEVEL_LOAD_ATTACHMENT_FILTERS         Load Attachment Level Filters           MS_LEVEL_SEED_LEVEL_NAME         Seed Level Name           MS_LEVEL_SYNCH_BYLEVEL         Synch Symbology to ByLevel on Level CMS, VTTOV8_CSVNAME           MS_VTTOV8_CSVNAME         V7 to V8 Level CSV File           MS_VTTOV8_DELETE_UNUSED_LEVELS         V7 to V8 Delete Unused Levels           C         Expansion         Detailed Descript           N D         Specifies the level         Specifies the level selevel cov	Level Undefined
Seed Files Spelling		
		<u>O</u> K Cancel

File		Home	View	/	Curves	Solids	Surfaces	Mesh	Content	Analyz	e	Con
	Non	e		٣	Default (n	one)	•	Q		9	<b>1</b>	
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					TX_G_INF	_Tekst_000	10 Generelt-G	ieometri-Ir	nformation-T	<u> </u>		
					TX_G_INF	_Tekst_000	20 Generelt-G	ieometri-Ir	nformation-T	<b>a</b>		
					TX_G_INF	_Tekst_000	25 Generelt-G	ieometri-Ir	nformation-T	<b>a</b>		
					TX_G_INF	_Tekst_000	50 Generelt-G	ieometri-Ir	nformation-T	<b>a</b>		
					TX_G_INF	_Tekst_001	• Generelt-G	ieometri-Ir	nformation-T			
					TX_G_INF	_Tekst_002	00 Generelt-G	ieometri-Ir	nformation-T	<b>A</b>		
					TX_G_INF	_Tekst_002	50 Generelt-G	ieometri-Ir	nformation-T	<b>a</b>		
					TX_G_INF	_Tekst_004	00 Generelt-G	ieometri-Ir	nformation-T	<b>a</b>		
					TX_G_INF	_Tekst_005	00 Generelt-G	ieometri-Ir	nformation-T	<u> </u>		
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# Rotér dit view efter et element

MicroStation V8i & Connect Edition

- 1. Keyin ROTATE VIEW ELEMENT
- 2. Klik på det element som viewet skal roteres efter

Eller er du til AccuDraw ...?

### **MicroStation V8i**

1.  $RE \rightarrow RV$ 

### **MicroStation Connect Edition**

- 1. Opret din egen AccuDraw shortcut (RV = AccuDraw Rotate OrientView)
- 2. RE  $\rightarrow$  RV



# Minimize ribbon

MicroStation Connect Edition



📕 Modeling 🔹 🖻 🔚 🔜 🌭 🔦 🗸	🖻 🖈 😓 🗧 C:\Users\lai\Desktop\TEST.dgn [3D - V8 DGN] - MicroStation	
File Home View Curves Solids Surfaces	Mesh Content Analyze Constraints Utilities Drawing Aids	Search Ribbon (F4) 👂 🔹 Sign i 🔨 🚺 🥝
Curve Curve by Composite Interpolation Conic Spiral Helix	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Create Curves	Modify Curves Control Points / Facet * Curve * * *	
View 1 - Top, Default		- Properties - 🐺 🗙
<u>, , , , , , , , , , , , , , , , , , , </u>	Ĩ <mark>₽Ŷ</mark> ŶŶ	



• \* Du kan også bare dobbeltklikke på ribbon tab (menupunktet) så minimere eller maksimerer den ribbon.



# Constraints

### MicroStation Connect Edition









# Baggrundsfarve

MicroStation V8i & Connect Edition

- Ønsker du en særlig farve på dine sheets eller dine drawing modeller?
  - MS\_DEFAULTSHEETRGB = R,G,B
  - MS\_DEFAULTDRAWINGRGB = R,G,B

• Disse værdier anvendes kun for nye modeller i filer, hvor der ikke i forvejen findes Sheets/Drawing models

\*Man ser det ikke hvis man har sat baggrundsfarven under preferences..



## **Properties dialog**

MicroStation Connect Edition

• Bestem selv hvilken rækkefølge tabs vises i  $\rightarrow$  Drag'n drop...

•
-11
-11
-11
-11
-11
•

Elements (	(1)	
🖌 🖊 Line		
Pa	rallel	
Geometry		*
Comment.		
General	_	^
Element Descr	Line	
Level	Default (none)	
Color	ByLevel (0)	
Line Style	ByLevel (0)	
Weight	ByLevel (0)	
Class	Primary	
l emplate	(None)	
Iransparency	0	
Extended		*



# Element info – ændring af elementer

MicroStation V8i og Connect Edition

- Ændre vinkler
- Justere længder











# Søg på konfigurationsvariabler

### MicroStation Connection Edition

Configuration Variables : User [Pe	ersonal]				×
<u>F</u> ile					
Category	pref			×	
All	Variable Name	Description	Level	^	
Cells Colors Data Files Database Design Applications Design History DWG/DXF Engineering Links Extensions File Saving Geographic Coordinates Levels Macro Recorder Markup OLE Operation Point Cloud Primary Search Paths Printing Protection QuickVision Raster	Variable Name MS_BUTTONMENU MS_COMMONITEMDIALOG MS_COMPRESS_OPTIONS MS_DGNTEXTEDITORFAVORITESYMBOLS MS_DGNTEXTEDITORPREF MS_DISALLOWFULLREFPATH MS_DOCKINGPREF MS_DOCKINGPREFE MS_DOCKINGPREFSEED MS_DWG_COMMANDPREFIX MS_EXPLORER_SETTINGS MS_FKEYMNU MS_GROUPPANELPREF MS_GROUPPANELPREFSEED MS_INPUT_CONFIGXML MS_KEYBOARDSHORTCUTS  < Expansion C:\Users\lai\AppData\Local\Bentle\Persona	Button Menu Common Item Dialog from Microsoft Compress Options Selections MS_DGNTEXTEDITORFAVORITESYMBOLS MS_DGNTEXTEDITORPREF Dialog Docking Preference Seed DWG Data Directory. DWG Command Prefix. Explorer Settings File Function Key Menu MS_GROUPPANELPREF Group Panel Preference Seed Default Touch Gesture Configuration User Keyboard Shortcuts Detailed Description I.button.btnmenu Button menu file. (MS_BI	Level System Undefined System Syst		<u>N</u> ew <u>E</u> dit <u>S</u> elect
Reference Rendering/Images Reports Security Seed Files Spelling	<	>			
			OK		Cancel



# **Connection Client**

**Connection Client** 

• Settings...





# Disable ProjectWise på shortcut

• -wsPW\_DISABLE\_INTEGRATION=0



\* Eller få din administrator til at disable integrationen når du starter MicroStation op fra desktoppen

🕫 Uden PW Mic	roStation V8i (SELECTseries 4) Properties $\times$
General Shortcut	Compatibility Security Details Previous Versions
<b>¥8</b> i Uo	den PW MicroStation V8i (SELECTseries 4)
Target type:	Application
Target location:	MicroStation
Target	n\ustation.exe" -WSPW_DISABLE_INTEGRATION=1
Start in: Shortcut key:	"C:\Program Files (x86)\Bentley\MicroStation V8i (SEL
Run:	Normal window ~
Comment	MicroStation V8i SS4
Open File L	ocation Change Icon Advanced
	ß
	OK Cancel Apply

# Utålmodig eller går det for hurtigt?

MicroStation V8i & Connect Edition

### **MS\_POPUPDIALOGCLOSEDELAY = Værdi**

• Værdien er specificeret i "1/60 sekund" og skal definderes som et heltal.

Eksempelvis:

1 = 1/60 sekund  $30 = \frac{1}{2}$  sekund (default setting) 60 = 1 sekund

Gælder for:

Models dialog, Raster Manager, Element Selection, Reference dialog, Level Manager, Cell library dialog, Key-in dialog



# File open – skift workspace on the fly

### MicroStation Connect Edition

🗸 File Open					×
← → • ↑ 📜 « Co	nfiguration > WorkSpaces > Exa	mple > WorkSets > MetroStation >	DGN >	✓ 💟 Search DGN	م
Organize   New folde	r			↓ ▼	
📜 Downloads  🖈 ^	Name	Date modified	Туре	Size	^
📄 Pictures 🛛 🖈	3DModel	01-11-2017 17:55	File folder		
3DModel	Acute3DSamples	20-09-2017 11:52	File folder		
30-10	📕 AerialImagery	20-09-2017 11:52	File folder		
📙 Desktop	Borders	20-09-2017 11:52	File folder		
Mosek	📕 GISData	20-09-2017 11:52	File folder		
neDrive - NIRAS	Parametric Models	20-09-2017 11:52	File folder		
	PointCloud	20-09-2017 11:52	File folder		
🧢 This PC	Sheets	20-09-2017 11:52	File folder		
1	Tonics	20-09-2017 11.52	File folder		×
	File 🔻 🌔	WorkSpace Example	$\sim$	WorkSet MetroStation ~	
	Directory 👻				
File nam	ne: TEST.dan			<ul> <li>✓ All Files (*,*)</li> </ul>	~
				Options Open -	Cancel
			5	,	.:

s ud og her kan du ikke vælge

workspace og workset.



# Level description

MicroStation V8i & Connect Edition

- MS\_LEVEL\_DISPLAY\_FORMAT
  - D description
  - N name
- Prøv forskellige kombinationer.
  - D
  - N(D)
  - ND
  - N-D

\*Bemærk at i MicroStation Connect Edition, så tilføjer den automatisk ()



# Bredden på level dropdown menuen

MicroStation V8i SelectSeries 3 eller ældre

Har I bemærket at bredden i MicroStation SelectSeries 4 nu justerer sig automatisk?

Men hvis I har en ældre version kan man bruge denne variabel til indstille bredden: MS\_LEVEL\_PICKER\_WIDTH

\*Størrelsen angives i pixels



# Dgnlib update

MicroStation Connect Edition

### MS\_UPDATE\_KEEP\_UNUSED\_LIBRARY\_LEVELS

• Denne variable kontrolleret om ubrugte library levels skal beholdes eller slettes når man bruger en af "dgnlib update levels" kommandoerne.

0 = Så vil ubrugte dgnlib lag blive slettet når man anvender en "dgnlib update levels" kommando (default)

1 = Så vil ubrugte dgnlib lag blive behold.

2 = Ubrugte library levels vil blive slettet hvis ellers deres attributer er de samme som i dgnlib. De levels der har anderledes attributer opdateres til dgnlib standard.



## Favorite panels

MicroStation Connect Edition

 Har du værktøjer som du gerne vil kunne se ligemeget hvilket workflow eller Ribbon du befinder dig i. Så brug Pin funktionen.





# Element selection- flere tabs

MicroStation V8i & Connect Editio

• Højreklik for at få flere tabs under Element Selection





## Match Element

MicroStation V8i & Connect Edition

<ALT> + Venstreklik/DATA = Match Element From cursor

MicroStation V8i:

Workspace  $\rightarrow$  Button Assignments  $\rightarrow$  ALT + DATA

MicroStation Connect Edition:

Backstage  $\rightarrow$  Settings  $\rightarrow$  User  $\rightarrow$  Button Assignments  $\rightarrow$  ALT + DATA

match attributes fromcursor ændres til: match element fromcursor



# AccuDraw og Focus

MicroStation V8i & Connect Edition

- MicroStation V8i
  - ESC  $\rightarrow$  Space
  - F11

- MicroStation Connect Edition
  - F11



# Når vi nu taler om AccuDraw...

MicroStation Connect Edition

- Følgende AccuDraw shortcuts mangler i MicroStation Connect Edition
  - LP = Lock ACS Grid Plane
  - LA = Lock ACS Plane
  - LS = Lock ACS Plane Snap
  - RV = Rotate View
  - GT = Go to Tool Settings
  - GK = Go to Key-in
  - HS = AccuSnap Toggle
  - HU = AccuSnap Suspend

\*Man kan da heldigvis selv tilføje shortcuts

	aru shortcuts			
u 4 40	$ \mathbf{X}  \wedge \mathbf{\vee}$			
Key	Label	Key-in	 	
(Space)	Popups	ribbon grouppopup Admin\Interface\Popups		
А	Lock Angle	accudraw lock angle		
В	Base Rotation	accudraw rotate base toggle		
С	Center Snap	snap center		
D	Lock Distance	accudraw lock distance		
E	Cycle Rotation	accudraw rotate cycle		
F	Front Rotation	accudraw rotate front		
⊞ G	G Shortcuts	No key-in - opens popup menu		
н	AccuDraw Hold	accudraw toggle		
1	Intersect Snap	snap intersect		
к	Snap Divisor	accudraw dialog snapdivisor		
ΞL	Lock Shortcuts	No key-in - opens popup menu		
М	Change Mode	accudraw mode		
Ν	Nearest Snap	snap nearest		
0	Set Origin	accudraw setorigin		
⊞ P	Point Shortcuts	No key-in - opens popup menu		
⊞ Q	Quick Tools	No key-in - opens popup menu		
± R	Rotate Shortcuts	No key-in - opens popup menu		
S	Side Rotation	accudraw rotate side		
Т	Top Rotation	accudraw rotate top		
V	View Rotation	accudraw rotate view		
⊞ W	W Shortcuts	No key-in - opens popup menu		
Х	Lock X	accudraw lock X		
Y	Lock Y	accudraw lock Y		
Z	Lock Z	accudraw lock Z		
⊞ å	Quick Tools	No key-in - opens popup menu		
1.0	Workflow	ribbon menu workflow		
1/2	Bump Tool Settings	accudraw bump toolsetting		

Apply

a

#### MicroStation Connect Edition

• AccuDraw shortcuttet <å> har fået en funktion... Quick Tools

Og det kunne jo være man ville lave noget om...

MS\_KEYBOARDSHORTCUTS

PERSONAL.KEYBOARDSHORTCUTS.X

			<u>6</u>	Attributes
			7	Primary
			<u>8</u>	Selection
Keyboa	ard Shortcuts	- L X	<u>9</u>	Placement
C+ 40			0	Manipulate
Key	Label	Key-in	<u> </u>	NA US
Z	Lock Z	accudraw lock Z	+	Modify
🖃 å	Quick Tools	No key-in - opens popup menu		Groups
6	Attributes	ribbon grouppopup *\Home\Attributes		
7	Primary	ribbon grouppopup *\Home\Primary	<u>Y</u>	Mirror
8	Selection	ribbon grouppopup *\Home\Selection	U U	Scale
9	Placement	ribbon grouppopup *\Home\Placement	<u> </u>	beare
0	Manipulate	ribbon grouppopup *\Home\Manipulate	<u> </u>	Rotate
+	Modify	ribbon grouppopup *\Home\Modify	0	Conv
	Groups	ribbon grouppopup *\Home\Groups	⊻	сору
Y	Mirror	mirror icon	Р	Move
U	Scale	scale icon	-	Delete
1 I I	Rotate	rotate icon	<u> </u>	Delete
0	Сору	copy icon	å	Select
Р	Move	move icon	_	
Т	Delete	delete element	D	Measure
å	Select	choose element	F	Text
D	Measure	ribbon grouppopup *\Analyze\Measure	÷ .	iext.
F	Text	ribbon grouppopup *\Annotate\Text	G	Dimensioning
G	Dimensioning	ribbon grouppopup *\Annotate\Dimensioning	н	Detailing
н	Detailing	ribbon grouppopup *\Annotate\Detailing		Detailing
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### Så er er der ikke flere tips & tricks denne gang!

Jeg håber at vi ses til et MicroStation SIG møde i 2018!

