aCIP[®] - Smart information management

Fetch sensors from AutoCad



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- Find origo
 - Get the longitude and latitude for origo from Google Earth or similar



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• Find layer and attributes of interest for the objects of interest



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• Select "Extract data"

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- Create a new data extraction template
 - Can use another extraction as template
 - Or create a brand new one where you have to set which layers, object types and attributes to export



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• Make sure to select only the drawing of interest

• That drawing must be open in AutoCad



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Select object types of interest ٠

Normally a bit trial and error is required. But these setting are almost always ۲ the same for all drawing from a specific site and even from a specific integrator.



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• Select attributes of interest.

Autodes	k AutoCAD 2017 aCIP - Test drawing alarm sensors.dwg	Type a keyword or phrase	🏦 👤 anders.hellman 🔹 🗶 📥 🔹 🔞 🔹	- 🗆 ×
Home Insert Annotate Parametric View Manage Output	Add-ins A360 Express Tools Featured Apps BIM 360	Performance 🗖 🔹		
A Standard Multiline A Text 0.2000	ent A Data Extraction - Select Properties (Page 4 of 8)	Standard	Standard Standard Wipeout Revision	Add Current Scale
Text	The following properties were found based on the objects you selected. Select the properties you want to extract. (Explore the right-Click menu for additional options.) Properties Properties Property Display BESKRIVNING BESKRIVNING Attribute Block Unit Block Unit Misc Color Color General Color Color General Color Color General Color Color General Color Layer General Layer Layer General Layer Layer General Linetype Scale Linetype Scale General DiotSyle Plot Syle General PolitSyle Plot Syle General PolitSyle Plot Syle General Position X Position X Geometry Position Z Position Z Geometry Rotation Rotation Misc Scale X Scale X Geometry Scale Z Scale Z Geometry Nere	Category filer 30 Visualization Attribute General Misc Misc	Tables ^y Markup ³² ³² ³ ^Q ² ² ³² ³ ^Q ⁹ ⁹ ³¹ ¹	Annotation Scaling
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• Enjoy a preview of elements to export

• If you like you can refine your filtering and sorting here. But it's easier to do it afterwards on Excel.



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• Decide name and location for export file



• Run the extraction

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• Can be repeated easily based on the new template you just created to update from changes done in the drawing



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• This is how an export file can look like

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1	Position X	Position Y	BESKRIVNING	E-NR										
2	14754.1046	24373.1419	Rökdetektor	10202-01										
3	19329.8657	23869.7423	Rökdetektor	10202-02										
4	23443.8500	21814.1924	Rökdetektor	10202-03										
5	20967.0626	20639.5923	Rökdetektor	10202-04										
6	18532.2543	16318.7422	Rökdetektor	10202-05										
7	21051.1743	12158.2888	Rökdetektor	10202-06										
8	24913.2845	13500.6887	Rökdetektor	10202-07										
9	25878.8120	10354.4387	Rökdetektor	10202-08										
10	31832.2099	8571.9925	Rökdetektor	10202-09										
11	31819.9584	3533.2267	Rökdetektor	10202-10										
12	39025.1824	3533.2267	Rökdetektor	10202-11										
13	45345.5504	4417.4584	Rökdetektor	10202-12										
14	40402.4425	13509.0994	Rökdetektor	10202-13										
15	45724.7744	11407.0947	Rökdetektor	10202-14										
16	30928.9204	14563.4424	Rökdetektor	10203-01										
17	32478.5082	15599.8338	Rökdetektor	10203-02										
18	33583.6856	13347.0111	Manöverdon Utanpål.	10204-01										
19	25416.3430	49257.6592	Manöverdon Utanpål.	10204-02										
20	30291.9519	49658.9565	Manöverdon Utanpål.	10204-03										
21	34218.4488	18102.0054	Rökdetektor	10205-01										
22	29483 6398	21002 7078	Bökdetektor	10205-02										
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- Based on an aCIP import template designed for the target system in question, edit the data in Excel so it fits the template.
 - Coordinate columns shall be named Source X and Source Y.

- Normally data are added to relate sensors from certain floors to certain target system map layers and sensor groups. Depending on target system any other relevant attributes can also be added.
- Merge all sensors from all floor plans to a common file (make it quicker to import but it can be done floorplan by floorplan instead if you like

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1	Source X	Source Y	Description	Sensorname	HwID	SenorGroupID	Layer	Sensor type	Location	1											
2	30035.2912	9017.7534	Fire alarm button	10001-01	10001-01	328	886	203	A0.00.												
3	34762.7337	53210.2157	Fire alarm button	10002-01	10002-01	328	886	203	A0.00.												
4	60502.5871	55412.2467	Fire alarm button	10002-02	10002-02	328	886	203	A0.00.												
5	71355.0521	1785.8719	Fire alarm button	20001-01	20001-01	328	886	203	A0.00.												
6	106227.8249	4780.0430	Fire alarm button	20001-02	20001-02	328	886	203	A0.00.												
7	141581.6377	15813.1056	Fire alarm button	20002-01	20002-01	328	886	203	A0.00.												
8	132433.8197	42402.6392	Fire alarm button	20002-02	20002-02	328	886	203	A0.00.												
9	131544.8685	59477.8542	Fire alarm button	20002-03	20002-03	328	886	203	A0.00.												
10	210959.4792	13132.5106	Fire alarm button	30001-01	30001-01	328	886	203	A0.00.												
11	28768.8939	6350.8074	Smoke detector	10102-01	10102-01	327	747	201	A0.01.												
12	30649.8127	15146.4790	Smoke detector	10102-01	10102-01	327	747	201	A0.01.												
13	19027.5987	17179.4454	Smoke detector	10102-02	10102-02	327	747	201	A0.01.												
14	32732.5598	15538.1915	Smoke detector	10102-02	10102-02	327	747	201	A0.01.												
15	13669.1347	29479.5777	Smoke detector	10102-03	10102-03	327	747	201	A0.01.												
16	13790.2404	41405.7774	Smoke detector	10102-04	10102-04	327	747	201	A0.01.												
17	24785.9908	23797.1892	Smoke detector	10102-05	10102-05	327	747	201	A0.01.												
18	36818.7297	18709.6080	Smoke detector	10102-06	10102-06	327	747	201	A0.01.												
19	43533.8114	18397.9387	Smoke detector	10102-07	10102-07	327	747	201	A0.01.												
20	38067.5006	14766.9395	Smoke detector	10103-01	10103-01	327	747	201	A0.01.												
21	46559.5815	12660.8931	Smoke detector	10103-02	10103-02	327	747	201	A0.01.												
22	22541.2251	35439.6930	Smoke detector	10104-01	10104-01	327	747	201	A0.01.												
23	29311.4125	32700.6573	Smoke detector	10105-01	10105-01	327	747	201	A0.01.												
24	18305.5792	41451.7847	Smoke detector	10106-01	10106-01	327	747	201	A0.01.												
25	15550.1417	52514.7541	Smoke detector	10107-01	10107-01	327	747	201	A0.01.												
26	16138.6501	48488.2481	Fire alarm button	10108-01	10108-01	327	747	203	A0.01.												
27	30771.9770	52127.0548	Smoke detector	10109-01	10109-01	327	747	201	A0.01.												
28	44298.8813	46149.8293	Smoke detector	10109-02	10109-02	327	747	201	A0.01.												
29	43953.9462	48168.7786	Smoke detector	10109-03	10109-03	327	747	201	A0.01.												
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- In aCIP:
 - Select a sensor gateway to use or create a new one
 - Select correct import template

CIP* aCIP Client	- •
Model: PSIM configuration Configuration: ALL	θ
Main grid	
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▲ ● Sensors	aCIP [®] Select import template
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v Sensor 1228	
Assets	Create an empty template file

- In aCIP:
 - Select file to import from (the one you just created)

aCIP' aCIP Client		_ 🖬 ×
Model: PSIM configuration * Configuration:	ALL •	•
CIP* aCIP Client Model: PSIM configuration Configuration: Main grid Grouped by: T Fire Gateway Gateway Gateway Test gateway Details Drag a column header and Reports Y Hardware ID Sensors Y Assets	ALL ▼ Or Open aCIP import file ← → ~ ↑ > This PC > Documents > Adentia > Saab > aCIP > Sensors from AutoCad ✓ Ŭ Organize ▼ New folder Images Documents * Images 2017-09-26 12:03 File folder Images 2017-09-26 12:03 File folder 80 KB Frandlarmsensorer_ImportTo_aCIP_17090_12 Microsoft Excel W 80 KB Frandlarmsensorer_ImportTo_aCIP_17090_12 Type: Microsoft Excel W 80 KB Images Logo Creative Cloud File Size: 797 KB Date modified: 2017-09-01 16:27 Date modified: 2017-09-01 16:27 80 KB This PC A360 Drive (and Images) A360 Drive (and Images) A360 Drive (and Images)	2 × 2 2 3 × 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5
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- In aCIP:
 - Importing sensors

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		🗕 🌙 Test gateway		
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		Sensors	T Hardware ID T Sensorname T Location T Sensor group T SensorGroupID T Comparison Location Check Sensor type T VideoFavourite T Source X T Layer T	1
	*	Sensor 1228		
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4				Þ



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• Preview sensors to import and, refine filtering even more if you like

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	Select elements to import to Sensors 3	Y Hardware ID Y Sensorname Y SensorGroupID Y Source X Y Sensor type Y Description Y Location check Y Sensor text Y	Vi
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		● 20002-01 20002-01 A0.00. 328 141581.6377 15813.1056 Fire: Buttor	
		● 20002-02 20002-02 A0.00. 328 132433.8197 42402.6392 Fire: Buttor	
		● 2002-03 2002-03 A0.00. 328 131544.8685 59477.8542 Fire:_Buttor	
		● 30001-01 30001-01 A0.00. 328 210959.4792 13132.5106 Fire:_Buttor	
		● 10102-01 10102-01 A0.01. 327 28768.8939 6350.8074 Fire:_Smok	
		● 10102-01 10102-01 A0.01. 327 30649.8127 15146.4790 Fire:_Smok	
		10102-02 10102-02 A0.01. 327 19027.5987 17179.4454 Fire:_Smoke Smoke detector	
		● 10102-02 10102-02 A0.01. 327 32732.5598 15538.1915 Fire:_Smoke Smoke detector	
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		▼ 10102-05 10102-05 A0.01. 32/ 24/85.9908 23/9/.1892 Fire:_Smoke Smoke detector	

- In aCIP:
 - When happy, press import button

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Model: PSIM configuration Configuration: ALL		•			0
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				30035.2912 9017.7534 Fire:_Butto	Fire alarm button
You have selected 1228 elements for impo	rt.			34762.7337 53210.2157 Fire:_Butto	Fire alarm button
Do you want to import them?				60502.5871 55412.2467 Fire:_Butto	Fire alarm button
				71355.0521 1785.8719 Fire:_Butto	Fire alarm button
				106227.8249 4780.0430 Fire:_Butto	Fire alarm button
				141581.6377 15813.1056 Fire:_Butto	Fire alarm button
		_	¥	132433.8197 42402.6392 Fire:_Butto	Fire alarm button
		•	~	131544.8685 59477.8542 Fire:_Butto	Fire alarm button
	30001-01 300	001-01 A0.00.	328	210959.4792 13132.5106 Fire:_Butto	Fire alarm button
	10102-01 10 ⁻	102-01 A0.01.	327	28768.8939 6350.8074 Fire:_Smok	e Smoke detector
	10102-01 10 ⁻	102-01 A0.01.	327	30649.8127 15146.4790 Fire:_Smok	e Smoke detector
	10102-02 10 ⁻	102-02 A0.01.	327	19027.5987 17179.4454 Fire:_Smok	e Smoke detector
	10102-02 10 ⁻	102-02 A0.01.	327	32732.5598 15538.1915 Fire:_Smok	e Smoke detector
	10102-03 10 ⁻	102-03 A0.01.	327	13669.1347 29479.5777 Fire:_Smok	Smoke detector
	10102-04 10 ⁻	102-04 A0.01.	327	13790.2404 41405.7774 Fire:_Smok	Smoke detector
	10102-05 10 ⁻	102-05 A0.01.	327	24785.9908 23797.1892 Fire:_Smok	e Smoke detector
4					· · · · · · · · · · · · · · · · · · ·



• aCIP is now checking for other similar sensors in the database to eliminate duplicates. Good time to grab some coffee, this will take a while.

a CIP ® aC	IP Client					_ =
Model:	PSIM configuration	n: ALL	• •			9
Main g	rid					
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•		30001-01			Created filtered list for import! Second School Fire alarm button	
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- In aCIP:
 - If similarities are found, decide how to handle them

1: 1:51	M configuration	* Co	onfiguration: Al	L	• •										
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		aCIP* Import simi	ilarities				_ 🗆 ×								
		Selected a	ction			- 🧹 🎽									
		Abort													
		Drag a Abort	elements will be in	nported as new elemen	is.	-	•								
		Ele 30 Import ele	ments will replace	similar elements in DB				Created filtered	list for impor	t! Fire: Button	Fire alarm button				
		30 Import ele	ments where simila	arities are found will no	be imported			1220 (1228) imp	ort list with e port elements	compared with I	ng for existing sim DB!	lar elements (Can	take a while!)		
		30203-09	30304-04	Description = 1	moke detector					Fire:_Smoke	Smoke detector				
		30203-10	30304-04	Description = 1	moke detector										
		30203-11	30304-04	Description = 3	moke detector										
		30203-12	30304-04	Description = 3	moke detector										
		30203-13	30304-04	Description = 1	moke detector										



- In aCIP:
 - Now, after a couple of confirm questions, the selected sensors are really imported to the aCIP database

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Nodel:	PSIM configuration Configuration	n: ALL	v ()										
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	Select elements to import to Sensors 🧕	1 Hardware ID	Sensorname	Location V	SenorGroupID 7	Source X J	Source Y 7	Sensor type 7	Description 7	Location check	Senso 7	Sensor text	VideoFa
	Sensors	0 20107-01											
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		0 20111-01						Fire:_Smoke	Smoke detector				
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• Now, sensors are imported to aCIP. As you can see target coordinates are empty. Time to create them.

aCII	CIP aCIP Client														_ = >		
Mo	del:	PSIM configuration		٣	Configuration:	ALL		v									θ
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		📄 Reports			Hardware ID	Sensorname T		SeparGroupID T	Sensor type	Source X T	Source V T	Laver 1	Target X	Target V	Sensor group	T Comparison T Loca	ation check T Sensor t
		🥥 Sensors 🗢		+ 0	10001-01	10001-01	A0.00	328	Fire: Button	30035.2912	9017.7534	886	larger A	, larger l	, sensor group		
				 +	10002-01	10002-01	A0.00.	328	Fire: Button	34762.7337	53210.2157	886					
				+ 🥥	10002-02	10002-02	A0.00.	328	Fire:_Button	60502.5871	55412.2467	886					
			L F	+	10102-01	10102-01	A0.01.	327	Fire:_Smoke	28768.8939	6350.8074	747					
				+	10102-01	10102-01	A0.01.	327	Fire:_Smoke	30649.8127	15146.4790	747					•
				+	10102-02	10102-02	A0.01.	327	Fire:_Smoke	19027.5987	17179.4454	747					
				+	10102-02	10102-02	A0.01.	327	Fire:_Smoke	32732.5598	15538.1915	747					
				+ 🤇	10102-03	10102-03	A0.01.	327	Fire:_Smoke	13669.1347	29479.5777	747					
				+ 🤇	10102-04	10102-04	A0.01.	327	Fire:_Smoke	13790.2404	41405.7774	747					
				+ 🤇	10102-05	10102-05	A0.01.	327	Fire:_Smoke	24785.9908	23797.1892	747					
				+	10102-06	10102-06	A0.01.	327	Fire:_Smoke	36818.7297	18709.6080	747					
				+ 🤇	10102-07	10102-07	A0.01.	327	Fire:_Smoke	43533.8114	18397.9387	747					
				+ 4	10103-01	10103-01	A0.01.	327	Fire:_Smoke	38067.5006	14766.9395	747					
				+ 4	10103-02	10103-02	A0.01.	327	Fire:_Smoke	46559.5815	12660.8931	747					
				- ·	10104-01	10104-01	A0.01	227	Fire:_Smoke	22341.2251	22700 6572	747					
41					10105-01	10105-01	A0.01.	527	The_amoke	23311.4123	52100.0515	, , ,					



- In aCIP:
 - First, some coordinate conversion parameters need to be defined (make sure to use enough precision = number of decimals)
 - Example:
 - The coordinates of origo in AutoCad
 - origoX = 18.0037020800492F
 - origoY = 59.3688017642466F
 - Tilt angle (degrees the AutoCad drawing up differs from straight north)
 - tiltAngle = 32
 - Millimeters per degree X and Y (example good for central Stockholm)
 - mmPerDegreeLongX = 57242640
 - mmPerDegreeLatY = 107005200;



- In aCIP:
 - Select feature "Calculate target coordinates"

aCIP [®] aCIP Client	- •					
Model: PSIM configuration Configuration: ALL	•					
Main grid						
Grouped by: Grupp Typ 🗌 Root only 🔌 😓						
T Element T						
 Sensors 						
▲ Gateway 2						
+ 🥥 Fire						
- 🥥 Test gateway						
Details 🍬 Set classification Edit 🔳 Is root element						
Reports	Options					
Gateway name Test gateway	Check sensors with other gateway					
Sensor prefix	Calculate target coordinates					
Sensor 2456	S Insert video favourites					
× SAccets	Create SQL script for inserting sensors					



aCIP®

• aCIP has now calculated the target coordinates for you

aCIP [™] aCIP Client												
Model:	PSIM configuration	 Configuration: 	ALL	v								•
Main g	id											
Group	ed by: Grupp	Тур	🗆 Root only 🔌 👶	•								
	T Element T											
	▲ Sensors											
	🗕 🌙 Test gatev	way										
	Details	Drag a column header and dr	op it here to group by that c	lumn	۵.	•						
	📑 Reports	T Hardware ID T	Sensorname T Location	SenorGroupID T	Sensor type 7	Source X T	Source Y 🔻	Layer 7	Target X 🔻	Target Y	Sensor group 7 Compa	arison y Location check
	🥥 Sensors 🛸	+ 9 10001-01	10001-01 A0.00.	328	Fire:_Button	30035.2912	9017.7534	886	18.0042306168348	59.36872384228		
		+ 🥥 10002-01	10002-01 A0.00.	328	Fire:_Button	34762.7337	53210.2157	886	18.0047097620266	59.369050669113	3	
		+ 😐 10002-02	10002-02 A0.00.	328	Fire:_Button	60502.5871	55412.2467	886	18.0051114823581	59.368940650011	6	
		+ 🥥 10102-01	10102-01 A0.01.	327	Fire:_Smoke	28768.8939	6350.8074	747	18.0041871661505	59.368708977486	9	
		+ 🥥 10102-01	10102-01 A0.01.	327	Fire:_Smoke	30649.8127	15146.4790	747	18.0042964571516	59.368769370976	7	
		+ 🧕 10102-02	10102-02 A0.01.	327	Fire:_Smoke	19027.5987	17179.4454	747	18.0041430944067	59.368843039250	15	
		+ 🧕 10102-02	10102-02 A0.01.	327	Fire:_Smoke	32732.5598	15538.1915	747	18.0043309392389	59.368762161076	9	
		+ \varTheta 10102-03	10102-03 A0.01.	327	Fire:_Smoke	13669.1347	29479.5777	747	18.0041775764268	59.368967058056	i	
		+ 🥚 10102-04	10102-04 A0.01.	327	Fire:_Smoke	13790.2404	41405.7774	747	18.0042897764656	59.369060976993	6	
		+ 🥚 10102-05	10102-05 A0.01.	327	Fire:_Smoke	24785.9908	23797.1892	747	18.0042896680689	59.368866969696	2	
		+ 🥚 10102-06	10102-06 A0.01.	327	Fire:_Smoke	36818.7297	18709.6080	747	18.004420834871	59.368767059657	3	
		+ \varTheta 10102-07	10102-07 A0.01.	327	Fire:_Smoke	43533.8114	18397.9387	747	18.0045174333627	59.368731334648	5	
		+ 🧕 10103-01	10103-01 A0.01.	327	Fire:_Smoke	38067.5006	14766.9395	747	18.0044028364312	59.368729628576	6	
		+ 🧕 10103-02	10103-02 A0.01.	327	Fire:_Smoke	46559.5815	12660.8931	747	18.0045091498102	59.368670882404	5	
		+ 🧕 10104-01	10104-01 A0.01.	327	Fire:_Smoke	22541.2251	35439.6930	747	18.0043641914971	59.368970356707	,	
		+ 🧕 10105-01	10105-01 A0.01.	327	Fire:_Smoke	29311.4125	32700.6573	747	18.0044391352235	59.368915121197	6	-
4												×

- In aCIP:
 - Time to create the import file for the target system. Depending on target system type it can be an SQL-script (as this example), an xml file, a csv file or something else.

aCIP' aCIP Client		_ = >
Model: PSIM configuration * Configuration:	• •	9
Main grid		
Grouped by: Grupp Typ Control Root only		
Sensors	or Save Situator sensor insert SQL script as	
A Gateway 2	$\leftarrow \rightarrow \lor \uparrow$ 📜 « Adentia > Saab > aCIP > Sensors from AutoCad > \checkmark 🗘 Search Sensors from AutoCad ρ	
+ V Fire	- Organize • New folder	
Details Set classification Edit	Images Date modified Type Size Images 2017-09-26 13:20 File folder	
Gateway name Test gateway Sensor prefix	This PC This PC A 360 Drive (and B Desktop	
▼ ● Sensor 2456	Documents	
✓ States	File name: SituatorSensorInsertScript_170926_1321 Save as type: Situator sensor insert SQL script (*.sql)	
	Hide Folders Save Cancel	

• And this is how it can look like:

1.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('10001-01','Fire alarm button','10001-01',7,203,'A0.00.',18.0042306168348,59.37872384228,0,328,'[Site=Head office]',3,1);
2.	GO
3.	INSERT INTO dbo.GISEntitiesToLayers(EntityID, EntityType, LayerID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '10001-01'),3,886);
4.	GO
5.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('10002-01','Fire alarm button','10002-01',7,203,'A0.00.',18.0047097620266,59.3790506691133,0,328,'[Site= Head office]',3,1);
6.	GO
7.	INSERT INTO dbo.GISEntitiesToLayers(EntityID, EntityType, LayerID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '10002-01'),3,886);
8.	GO
9.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('10002-02','Fire alarm button','10002-02',7,203,'A0.00.',18.0051114823581,59.3789406500116,0,328,'[Site= Head office]',3,1);
10.	GO
11.	INSERT INTO dbo.GISEntitiesToLayers(EntityID, EntityType, LayerID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '10002-02'),3,886);
12.	GO
13.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('20001-01','Fire alarm button','20001-01',7,203,'A0.00.',18.0047758193489,59.3784619006114,0,328,'[Site= Head office]',3,1);
14.	GO
15.	INSERT INTO dbo.GISEntitiesToLayers(EntityID, EntityType, LayerID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '20001-01'),3,886);
16.	GO
17.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('20001-02','Fire alarm button','20001-02',7,203,'A0.00.',18.0053201767987,59.3783129307202,0,328,'[Site= Head office]',3,1);
18.	GO
19.	INSERT INTO dbo.GISEntitiesToLayers(EntityID, EntityType, LayerID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '20001-02'),3,886);
20.	GO
21.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('20002-01','Fire alarm button','20002-01',7,203,'A0.00.',18.005946080252,59.3782252891969,0,328,'[Site= Head office]',3,1);
22.	GO
23.	INSERT INTO dbo.GISEntitiesToLayers(EntityID, EntityType, LayerID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '20002-01'),3,886);
24.	GO
25.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('20002-02','Fire alarm button','20002-02',7,203,'A0.00.',18.0060567061148,59.3784813216918,0,328,'[Site= Head office]',3,1);
26.	GO
27.	INSERT INTO dbo.GISEntitiesToLavers(EntityID, EntityType, LaverID) VALUES((SELECT SensorID FROM dbo.Sensors WHERE SensorHardwareID = '20002-02'),3,886);
28.	GO
29.	INSERT INTO dbo.Sensors(SensorName,SensorDescription,SensorHardwareID,SensorGatewayID,SensorTypeID,SensorLocation,X,Y,Z,GroupID,SensorAdditionalInfo,SensorMode,SensorState) VALUES('20002-03','Fire alarm button','20002-03',7,203,'A0.00.',18.0062016087957,59.3786210501904,0,328,'[Site= Head office]',3,1);
30.	GO

So, + 1000 sensors now imported and positioned correctly on the correct layers in the target system.

Our experience is that importing and positioning 1000 sensors takes around two weeks with traditional methods.

Doing as described here with the help of aCIP the same work is done 1-2 days, depending on the quality of the AutoCad drawings.



aCIP[®] - Smart informationshantering

The art of creating order



Thanks for attending!

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