

## WCIS 4.0 pre-engineer data format

The pre-engineer data import file of WCIS 4.0 and later is a “Comma Separated Value” (\*.CSV) and must be created manually. The file can be viewed/edited in excel (but can be viewed in any text editor program).

The file for importing into WCIS has the following format.

First line must be – “IDENTIFIER, FIELDID, FIELDVAL”, these are column headings.

### **IDENTIFIER**

This field is used to create groupings of data. Each group can be thought of as a collection of information (configuration data and point initial values) that will be loaded into one or more TEC's. The groups cannot be subdivided into smaller collections.

### **FIELDID**

This is the specific data that will be set. All configuration data will have a key word associated with it and all points will be referenced by their point number (object ID). The following is a list of key words:

- ObjectName – This field is used to set the device object name.
- Instance – This field is used to set the device instance number.
- Description – This field is used to set the device description.
- Location – This field is used to set the device location.
- Application – This field used to set the application number
- MaxMaster – This field is used to set the device max master.
- MMIBaud – This field is used to set the baud rate of the MMI tool port.
- MMIPriority – This field is used to set the priority for P1 commands received through the MMI tool port.
- IsMetric – This field is used to set the units to SI.
- IsSlave – This field is used to set the unit to a MSTP slave device.
- Comment – This is used for comments in the file to make it more readable and are not imported into the tool.

### **FIELDVAL**

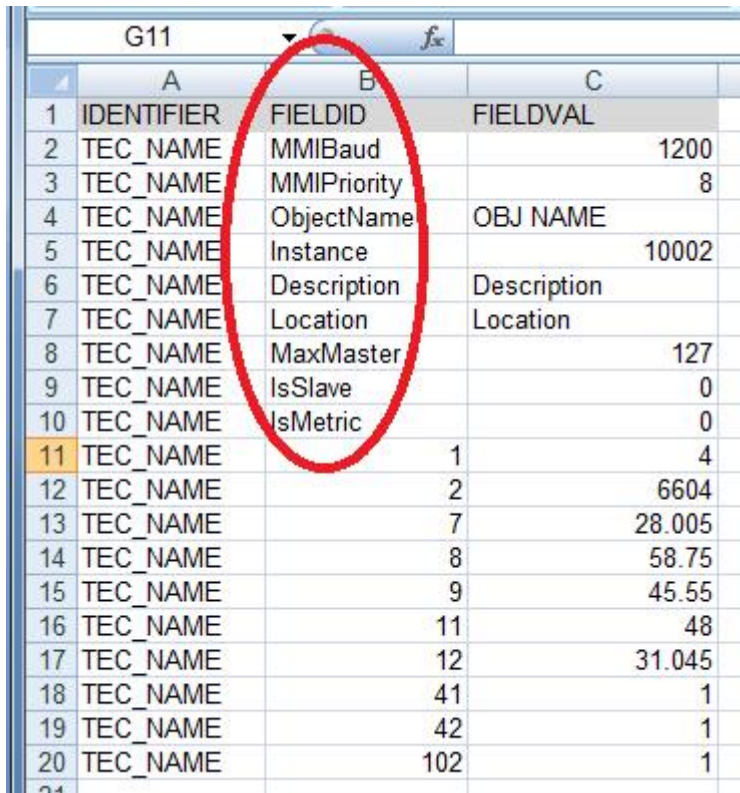
This is the value that is to be set to the FIELDID. The format of this data is specific to the ID.

Description	Acceptable Values
ObjectName	30 RAD50 characters
Instance	0 – 4194302
Description	60 ASCII characters
Location	60 ASCII characters
MaxMaster	1 – 127
Point numbers	Depend on the specific points
MMIBaud	1200, 2400, 4800, 9600, 19200, 38400
MMIPriority	8 – 16
IsMetric	0 – No, 1 – Yes
IsSlave	0 – No, 1 – Yes

Below is a sample of a pre-engineer data import file for WCIS 4.0

	A	B	C
1	IDENTIFIER	FIELDID	FIELDVAL
2	TEC_NAME	MMIBaud	1200
3	TEC_NAME	MMIPriority	8
4	TEC_NAME	ObjectName	OBJ NAME
5	TEC_NAME	Instance	10002
6	TEC_NAME	Description	Description
7	TEC_NAME	Location	Location
8	TEC_NAME	MaxMaster	127
9	TEC_NAME	IsSlave	0
10	TEC_NAME	IsMetric	0
11	TEC_NAME	1	4
12	TEC_NAME	2	6604
13	TEC_NAME	7	28.005
14	TEC_NAME	8	58.75
15	TEC_NAME	9	45.55
16	TEC_NAME	11	48
17	TEC_NAME	12	31.045
18	TEC_NAME	41	1
19	TEC_NAME	42	1
20	TEC_NAME	102	1
21			
22			

The IDENTIFIER column specifies which device the row data belong to. In the example above, all row data belong to the device name "TEC\_NAME". Multiple devices can be added to the same file in this manner.



	A	B	C
1	IDENTIFIER	FIELDID	FIELDVAL
2	TEC_NAME	MMIBaud	1200
3	TEC_NAME	MMIPriority	8
4	TEC_NAME	ObjectName	OBJ NAME
5	TEC_NAME	Instance	10002
6	TEC_NAME	Description	Description
7	TEC_NAME	Location	Location
8	TEC_NAME	MaxMaster	127
9	TEC_NAME	IsSlave	0
10	TEC_NAME	IsMetric	0
11	TEC_NAME	1	4
12	TEC_NAME	2	6604
13	TEC_NAME	7	28.005
14	TEC_NAME	8	58.75
15	TEC_NAME	9	45.55
16	TEC_NAME	11	48
17	TEC_NAME	12	31.045
18	TEC_NAME	41	1
19	TEC_NAME	42	1
20	TEC_NAME	102	1
21			

The FIELDID indicates which field to be set in the device (TEC). For BACnet parameters there are keywords as stated previously. In the example above, the MMI baud rate (MMIBaud), device object name (ObjectName), etc. will be set for of TEC\_NAME device. These are all optional and do not require to be specified.

For "points", the FIELDID is the point numbers themselves. In the example above, for application it is 2.

	A	B	C
1	IDENTIFIER	FIELDID	FIELDVAL
2	TEC_NAME	MMIBaud	1200
3	TEC_NAME	MMIPriority	8
4	TEC_NAME	ObjectName	OBJ NAME
5	TEC_NAME	Instance	10002
6	TEC_NAME	Description	Description
7	TEC_NAME	Location	Location
8	TEC_NAME	MaxMaster	127
9	TEC_NAME	IsSlave	0
10	TEC_NAME	IsMetric	0
11	TEC_NAME	1	4
12	TEC_NAME	2	6604
13	TEC_NAME	7	28.005
14	TEC_NAME	8	58.75
15	TEC_NAME	9	45.55
16	TEC_NAME	11	48
17	TEC_NAME	12	31.045
18	TEC_NAME	41	1
19	TEC_NAME	42	1
20	TEC_NAME	102	1

The FIELDVAL indicates the value of the field specified in the FIELDID column. For Bacnet parameters, in the example above, the device object name will be set to "OBJ NAME".

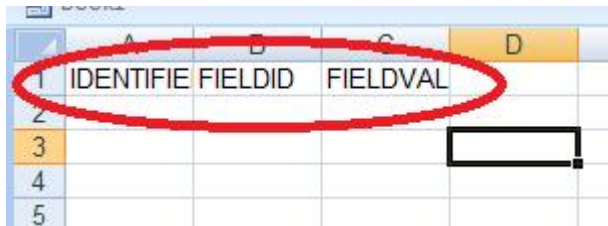
	A	B	C	D	E
1	IDENTIFIER	FIELDID	FIELDVAL		
2	TEC_NAME	MMIBaud	1200		
3	TEC_NAME	MMIPriority	8		
4	TEC_NAME	ObjectName	OBJ NAME		
5	TEC_NAME	Instance	10002		
6	TEC_NAME	Description	Description		
7	TEC_NAME	Location	Location		
8	TEC_NAME	MaxMaster	127		
9	TEC_NAME	IsSlave	0		
10	TEC_NAME	IsMetric	0		
11	TEC_NAME	1	4		
12	TEC_NAME	2	6604		
13	TEC_NAME	7	28.005		
14	TEC_NAME	8	58.75		
15	TEC_NAME	9	45.55		
16	TEC_NAME	11	48		
17	TEC_NAME	12	31.045		
18	TEC_NAME	41	1		
19	TEC_NAME	42	1		
20	TEC_NAME	102	1		
21					

For point value, it is the VALUE IN ENGLISH units (has slope/intercept applied).

## Converting export file from CT to WCIS pre-engineer data file format

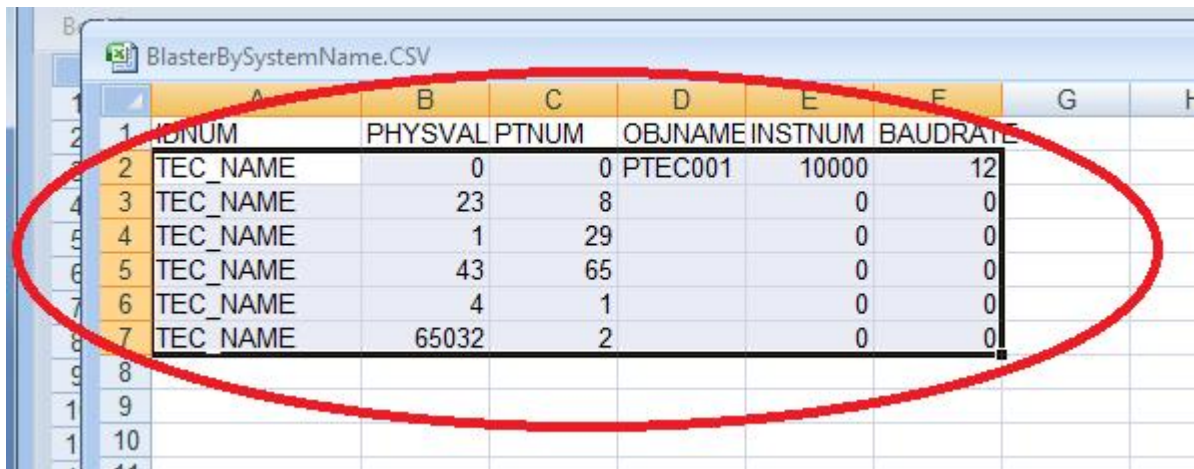
One method of converting CT exported file (\*.csv) to WCIS pre-engineer data file format is to open the CT imported file in excel and then create a new file in excel.

In the new excel file, create the headings.



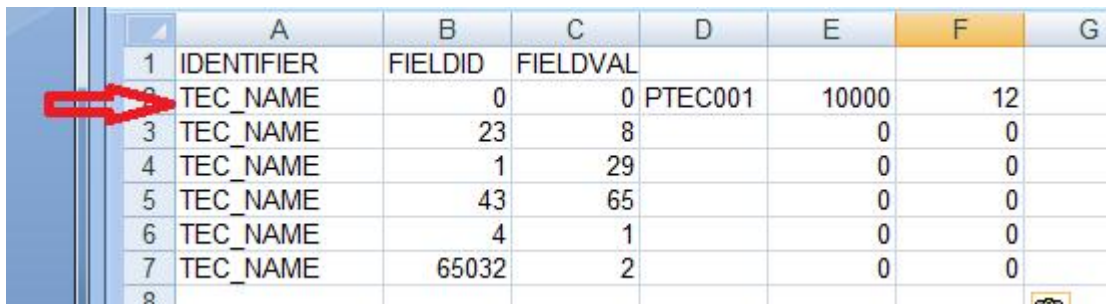
	A	B	C	D
1	IDENTIFIER	FIELDID	FIELDVAL	
2				
3				
4				
5				

Switch to the CT exported file, select all rows for 1 device and “Copy”.



	A	B	C	D	E	F	G	H
1	IDNUM	PHYSVAL	PTNUM	OBJNAME	INSTNUM	BAUDRATE		
2	TEC_NAME	0	0	PTEC001	10000	12		
3	TEC_NAME	23	8		0	0		
4	TEC_NAME	1	29		0	0		
5	TEC_NAME	43	65		0	0		
6	TEC_NAME	4	1		0	0		
7	TEC_NAME	65032	2		0	0		
8								
9								
10								
11								

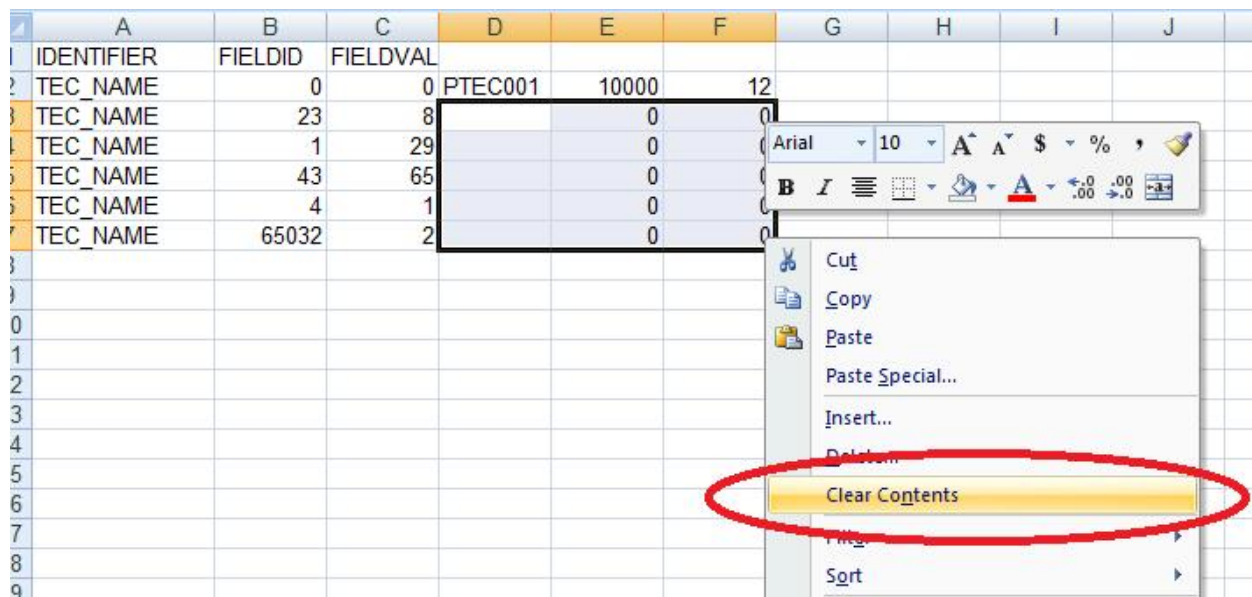
Switch to the new excel file and paste it at the end (No empty row between data).



	A	B	C	D	E	F	G
1	IDENTIFIER	FIELDID	FIELDVAL				
2	TEC_NAME	0	0	PTEC001	10000	12	
3	TEC_NAME	23	8		0	0	
4	TEC_NAME	1	29		0	0	
5	TEC_NAME	43	65		0	0	
6	TEC_NAME	4	1		0	0	
7	TEC_NAME	65032	2		0	0	
8							



For points, it is straightforward; clear all data from all columns after the 3<sup>rd</sup>.



For device configurations, device object name, instance, number and HMI baud rate, insert 3 rows and fill them as indicate below

1	IDENTIFIER	FIELDID	FIELDVAL			
2	TEC_NAME	0	0	PTEC001	10000	12
3	TEC_NAME	23	8			
4	TEC_NAME	1	29			
5	TEC_NAME	43	65			
6	TEC_NAME	4	1			
7	TEC_NAME	65032	2			
8	TEC_NAME	ObjectName				
9	TEC_NAME	Instance				
10	TEC_NAME	MMIBaud				
11						
12						

Finally, cut and paste the corresponding value to the FIELDVAL column.

1	IDENTIFIER	FIELDID	FIELDVAL			
2	TEC_NAME	0	0	PTEC001	10000	12
3	TEC_NAME	23	8			
4	TEC_NAME	1	29			
5	TEC_NAME	43	65			
6	TEC_NAME	4	1			
7	TEC_NAME	65032	2			
8	TEC_NAME	ObjectName	PTEC001			
9	TEC_NAME	Instance	10000			
10	TEC_NAME	MMIBaud	12			
11						

The resulting new file for pre-engineer data should look like this.

	A	B	C	D	E
1	IDENTIFIER	FIELDID	FIELDVAL		
2	TEC_NAME	0	0		
3	TEC_NAME	23	8		
4	TEC_NAME	1	29		
5	TEC_NAME	43	65		
6	TEC_NAME	4	1		
7	TEC_NAME	65032	2		
8	TEC_NAME	ObjectName	PTEC001		
9	TEC_NAME	Instance	10000		
10	TEC_NAME	MMIBaud	12		
11					

Repeat the same process for the next device in this same file.