

Tech Note 3105: ATMS Alarm and Event Considerations

This TecNote discusses updated software that is available in ATMS version 2.10 or later to distinguish between Controller Alarm and Event reporting. In addition, it will explain how to copy the Alarm and Events from one controller to another using the ATMS “Copy Grid” feature.

Controller Alarms and Events

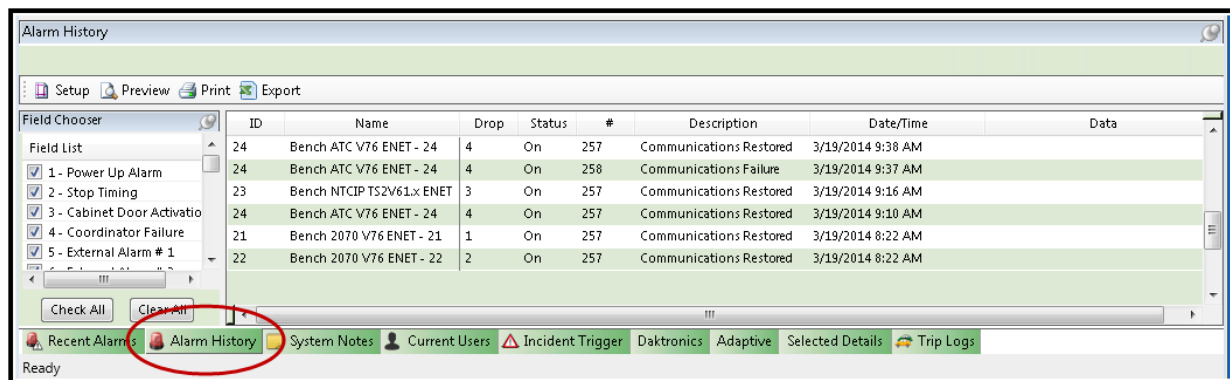
Events	Alarms	Evts/Alrms
1.Enable Evts	4.Enable Alrm	7.Enables
2.Show Evts	5.Show Alarms	8.Status
3.Clear Buffr	6.Clear Buffr	9.Show Det

A maximum of 128 events and/or alarms may be enabled through separate controller menus; however, each of the numbered events will refer to the same numbered alarm. If an alarm is to be enabled, it must first be enabled as an event. However, an event may be enabled as an event without being enabled as an alarm. This scheme allows user defined high-priority alarm to be reported immediately to central while low-priority events are stored for record purposes.

Event Enable	Column.	1	2	3	4	5	6	7	8
Event #s	1-8	X	X	X	X	X	X	X	X
	9-16	.	X	.	.	.	.	.	.
	17-24	.	.	.	.	.	.	.	.
	25-32	.	.	.	.	.	.	.	.
	33-40	.	.	.	.	.	.	.	.
	41-48	.	.	.	.	.	.	.	.
	49-56	+	.	.	.	.	.	.	.

ATMS Alarms and Events

When ATMS schedules a **Full Status** update, Events are uploaded periodically for historical purposes. However, Alarms are typically relayed to central as soon as possible. In prior versions of ATMS, the central upload did not distinguish Events from Alarms. This resulted in placing both the incoming Events and Alarms into the SQL Database (for the **Field Alarm** report). In addition, the software would display the incoming Event or Alarm on the **Details Pane** under the **Recent Alarms, Alarm History** and/or the **Selected Details→ Alarms** tab. In addition, if programmed the controller status would change colors if programmed under **Definitions→ Alarm Notifications**.



Beginning with ATMS 2.10, ATMS will still upload Events and Alarms from the controller. However, the software will match incoming Events and Alarms against the programmed permanent database (db.xxxxx.prm) file. Once the incoming data is matched, if an Alarm is **NOT** programmed but an Event is programmed, ATMS will **NOT** display the alarm icon in the list view or in the Details Pane. However, it will be saved in the SQL database so that the Field Alarm reports can be generated.

If an agency wants to revert to the original settings, contact Trafficware Support at <https://trafficware.zendesk.com> to reconfigure this setting.

Copying ATMS Alarms and Events between databases

Typically, agencies utilize the same Alarm and Event settings for all controllers. Instead of setting these parameters up for each controller as you edit it, the agency can utilize the **Copy Grid** feature in the database editor to quickly program other controllers with the same Alarm and Event data.

- 1) Go to ATMS **Home-> List View**.
- 2) Select all controllers that need updated Alarms / Events. Please Note that you can only select controllers of the same Type as shown below.

The screenshot displays the ATMS software interface. The top menu bar includes options like Database, Instant Download, Conflict/MMU, Coord Failure per Phase, Scan, Download Real-time, Time Space, On Demand Scan, On Demand RVG, Time of Day Schedule, Notes, Admin Event Status, and Server Sta. The main window shows the 'Controller List' table with columns: Alarm, Status, Lock, ID, Name, Type, Docs, Notes, IP Address, Drop, Port, Revision, Master, and X-F. A red circle highlights the 'Type' column, which contains 'Scout Ethernet' for the selected controllers. Below the table, the 'Recent Alarms' section is visible, showing a list of alarms with columns for ID, Name, Drop, Status, #, Description, and Date/Time.

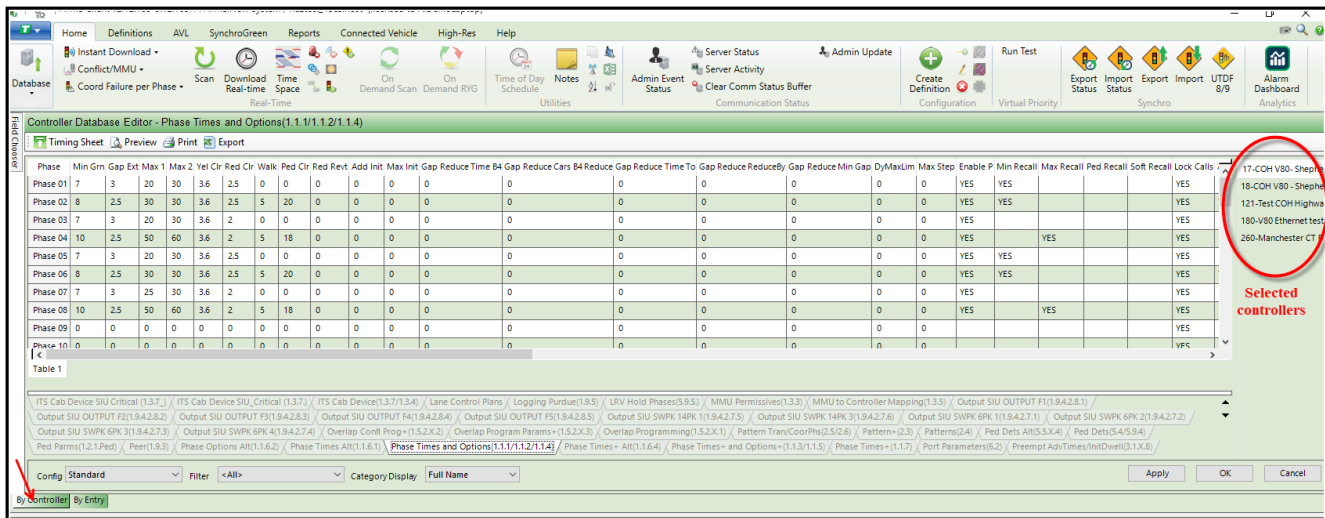
Alarm	Status	Lock	ID	Name	Type	Docs	Notes	IP Address	Drop	Port	Revision	Master	X-F
17	COH V80 - Shepherd at 43rd-1917	Scout Ethernet						192.168.000.117	117	E-NET-5117	85.01b	0	
18	COH V80 - Shepherd at Garden Oaks-1018	Scout Ethernet						192.168.000.118	118	E-NET-5118	80.05f	0	
121	Test COH Highwater Intersection	Scout Ethernet						192.168.000.021	21	E-NET-5021		0	
180	V80 Ethernet test -2070 1C- 32 Phase	Scout Ethernet						192.168.000.180	8	E-NET-5008		0	
260	Manchester CT FYA RT Test	Scout Ethernet						127.000.000.001	113	E-NET-5113		0	
3059	Paseo Del Norte @ Car Country	Scout Ethernet						192.168.000.059	59	E-NET-5059		0	
5010	Testing v80 Linux	Scout Ethernet						192.168.000.210	10	E-NET-5010		0	
8081	V80x VC DEMO - 8081	Scout Ethernet						192.168.000.081	81	E-NET-5081		0	
8082	V80 VC DEMO - 8082	Scout Ethernet						192.168.000.082	82	E-NET-5082		0	
8583	SCOUT VC DEMO - 8583	Scout Ethernet						192.168.000.249	83	E-NET-5083		0	
8584	SCOUT VC DEMO - 8584	Scout Ethernet						192.168.000.249	84	E-NET-5084		0	
9993	Riyidah Scout 980 ATS	Scout Ethernet						192.168.000.093	93	E-NET-5093		0	
9994	V80x Test 2070 with Linux 1C-9994	Scout Ethernet						192.168.000.194	94	E-NET-5094		0	
9995	Test V85 Scout	Scout Ethernet						192.168.086.095	95	E-NET-5095		0	
12345	Z testing v80	Scout Ethernet						192.168.104.225	50	E-NET-5050		0	
65501	v80 Serial test	Scout Ethernet						192.168.100.225	50	E-NET-5050		0	
310	V76 VC ID 310	v76 Ethernet Virtual Contro						127.000.000.001	11	E-NET-5011	76.15w	0	
312	vcTest 2	v76 Ethernet Virtual Contro						127.000.000.001	12	E-NET-5012	76.15w	0	

Recent Alarms

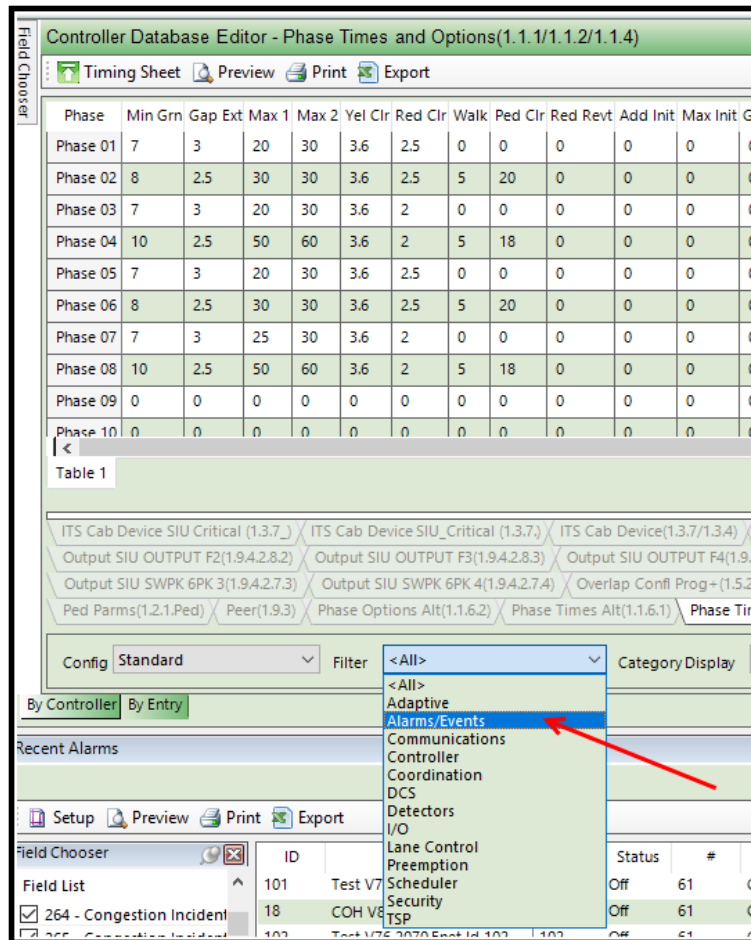
ID	Name	Drop	Status	#	Description	Date/Time	Data
101	Test V76 2070-Enet Id 101	101	Off	61	Coord in Transition	10/20/2020 10:00:56 AM	
18	COH V80 - Shepherd at Gard	118	Off	61	Coord in Transition	10/20/2020 10:00:42 AM	
102	Test V76 2070 Enet Id 102	102	Off	61	Coord in Transition	10/20/2020 10:00:38 AM	
17	COH V80- Shepherd at 43rd-	117	Off	61	Coord in Transition	10/20/2020 10:00:14 AM	
17	COH V80- Shepherd at 43rd-	117	On	61	Coord in Transition	10/20/2020 10:00:12 AM	2
101	Test V76 2070-Enet Id 101	101	On	70	Internal Clock Jump	10/20/2020 10:00:10 AM	249

5 of controllers selected, id=[17-18,121,180,260]

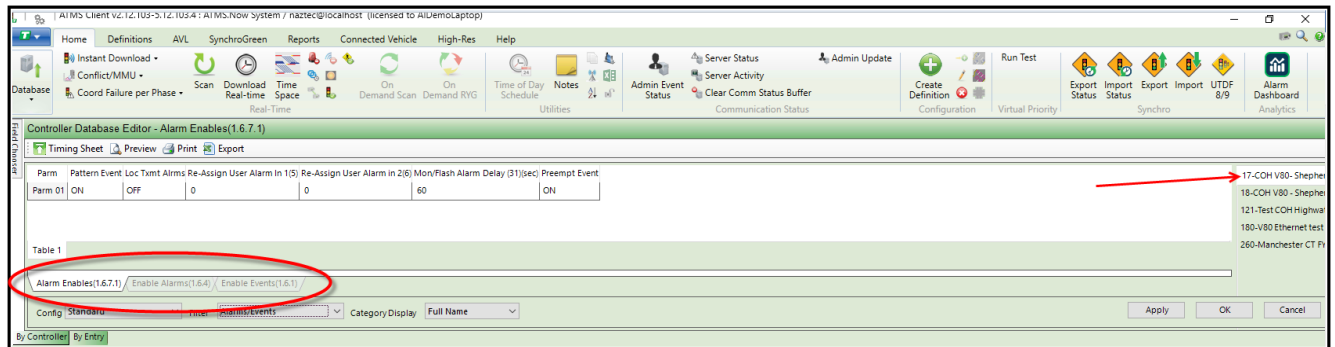
3) Select **Database->Edit**. This will default to **"By Controller"** editing.



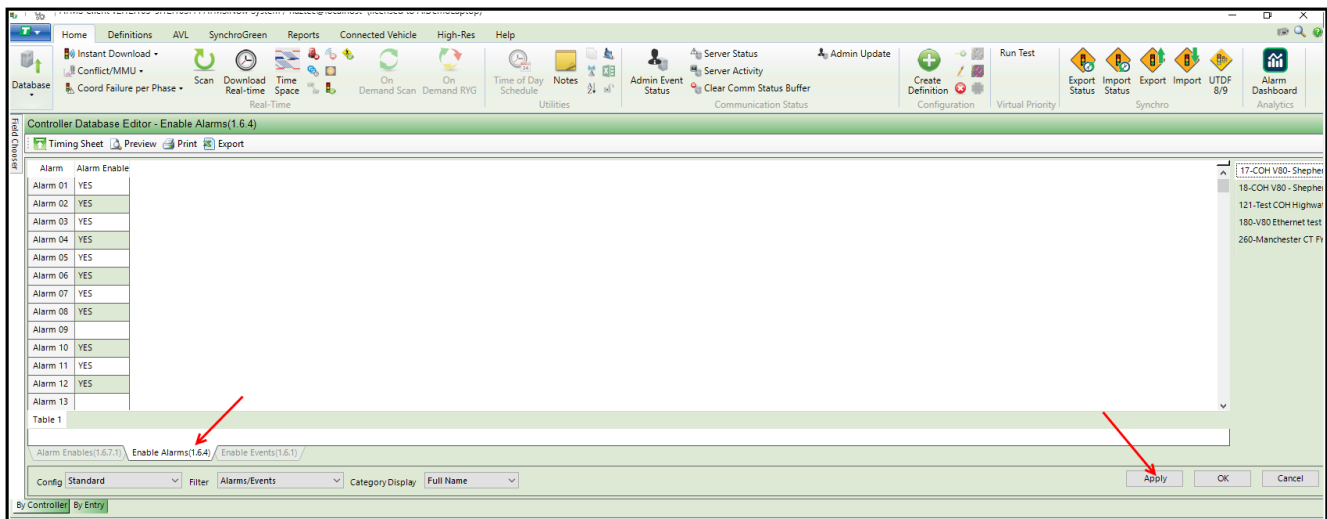
4) Select the **Alarms/Events** filter.



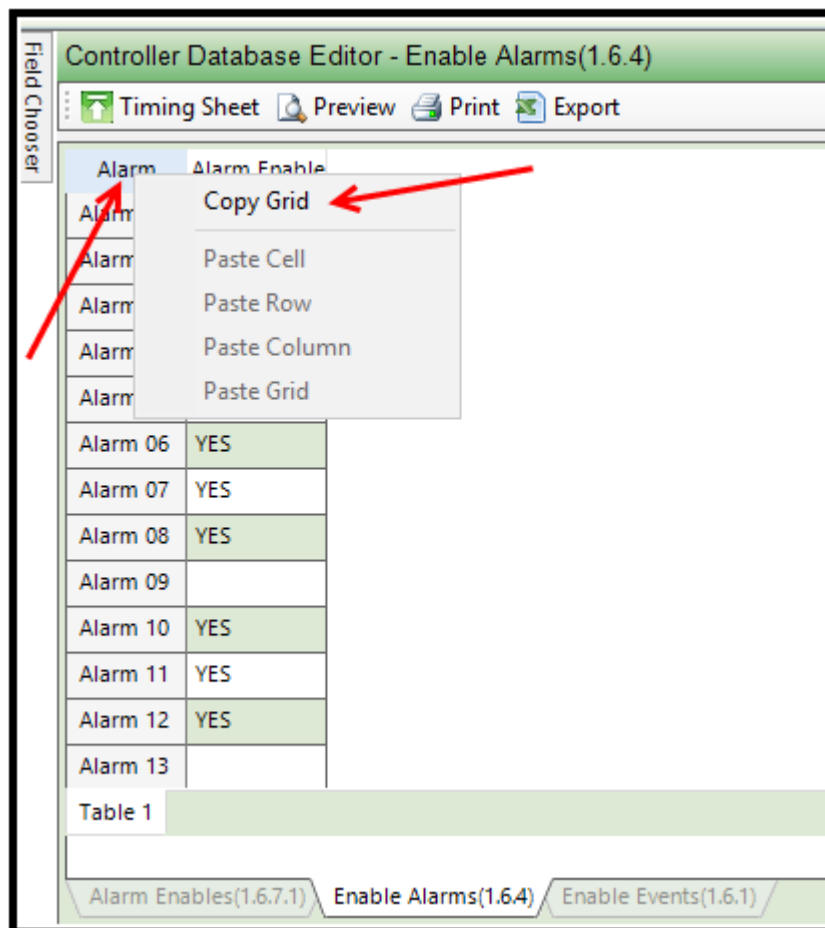
- 5) The overview screen will change to show 3 tabs. The controller highlighted on the left is the controller database that you are editing.



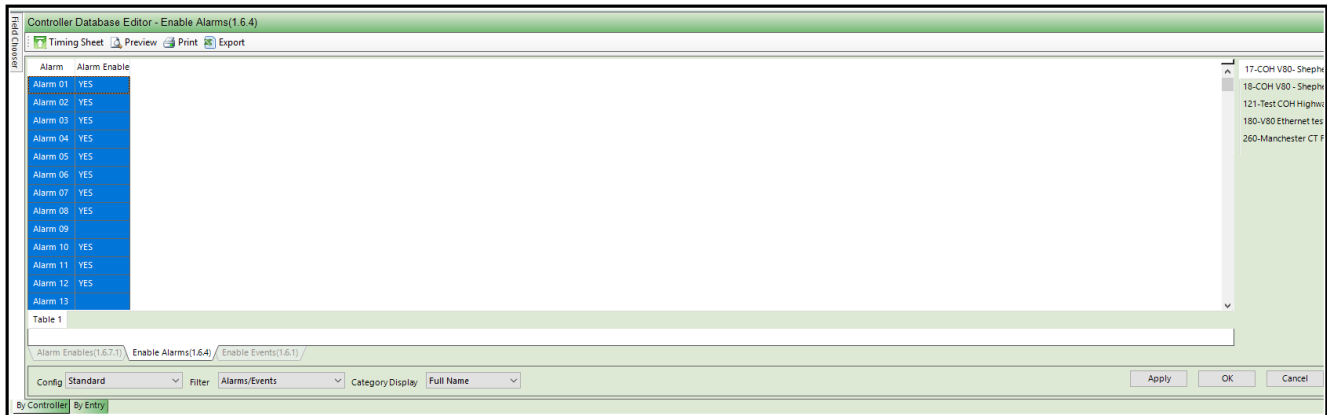
- 6) Select the **Enable Alarms** tab and modify the Alarm data. Hit the **Apply** button to save the data.



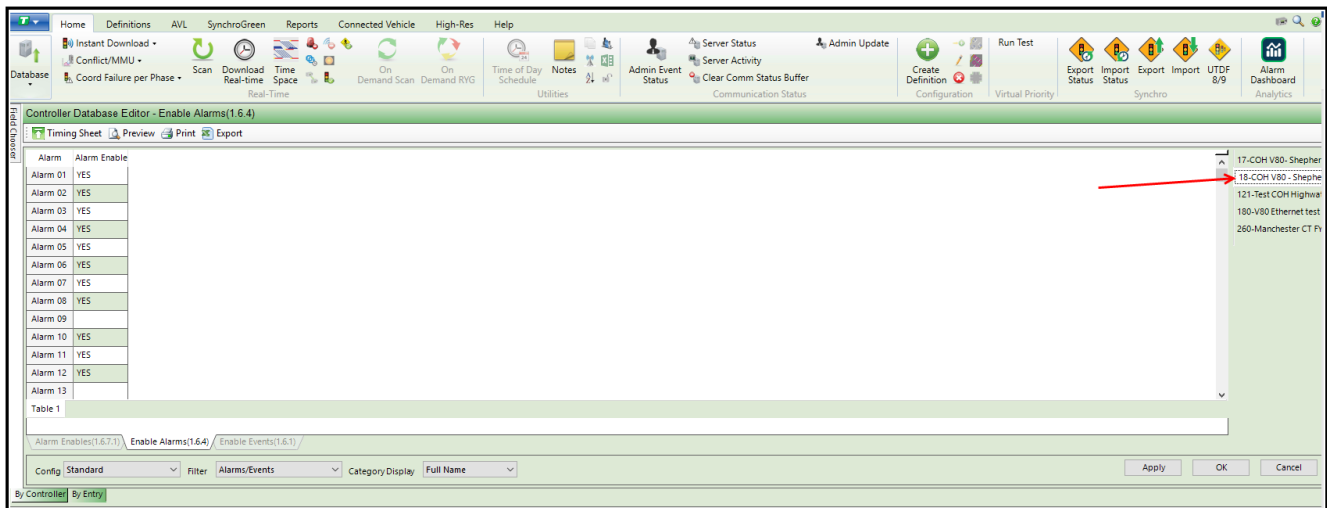
- 7) Using the mouse pointer, hover over the far left column name (**Alarm**) and right click the mouse. You should see “**Copy Grid**” displayed on the drop-down menu.



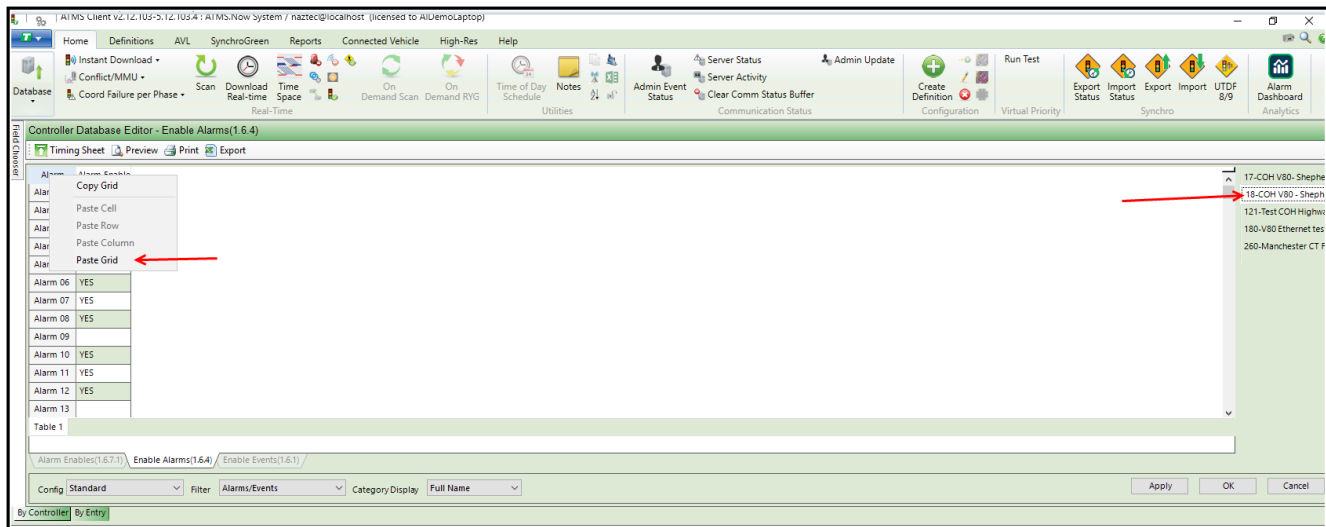
8) Using the left Mouse button, you should see the entire table highlighted.



9) Select another controller in the list on the right by pointing on it and left clicking it. Notice that it is now displaying its grid data.



10) Using the mouse pointer, hover over the far left column Name (Alarm) and right click the mouse. You should see “Paste Grid” displayed on the drop-down menu.



11) Left click Paste Grid to copy the data.

12) Select the next controller in the list and repeat steps 10 and 11.

13) Select the Enable Events tab and repeat steps 6-11 to set up events.

14) When completed, Download the database changes to the controller.

Summary

ATMS 2.10 has added a new feature to distinguish events and Alarms based on agency preferences. In addition, the agency can standardize Alarms and Events using the **Copy Grid** feature of ATMS.