Interpreting an Event File from a BaseStation Controller

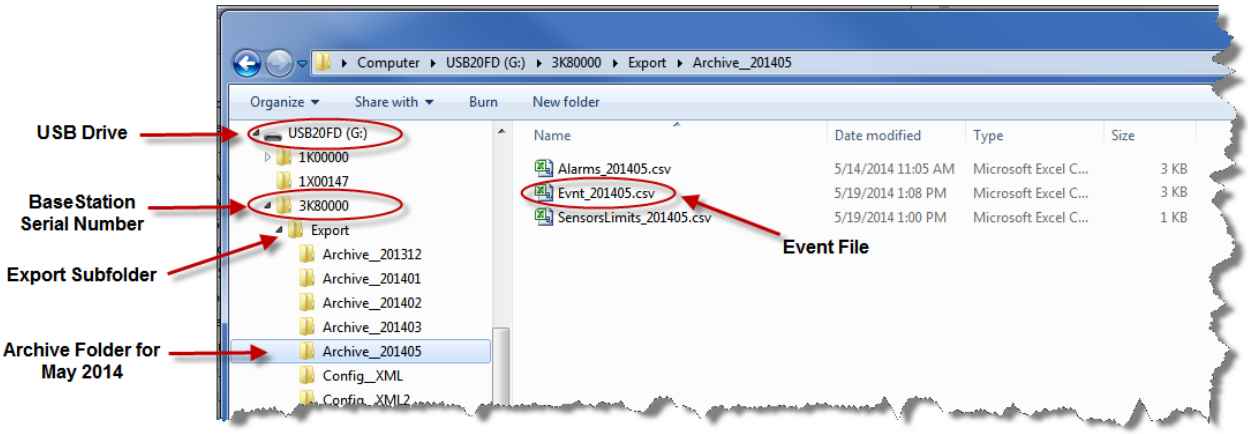
The BaseStation 3200 and the BaseStation 1000 irrigation controllers track all actions such as programming changes, water times, moisture levels, and other internal actions that occur on the controller. These actions are recorded in an event file on the controller.

Note: This document describes event files generated by the following controller firmware versions: BaseStation 3200 version 12.16 or newer, BaseStation 1000 version 1.10 or newer.

You can export the event file from the controller to a USB drive, and then open the file on a computer to review the contents. Refer to the controller's User Manual for the instructions to export the event file to a USB drive.

Opening the Event File on a Computer

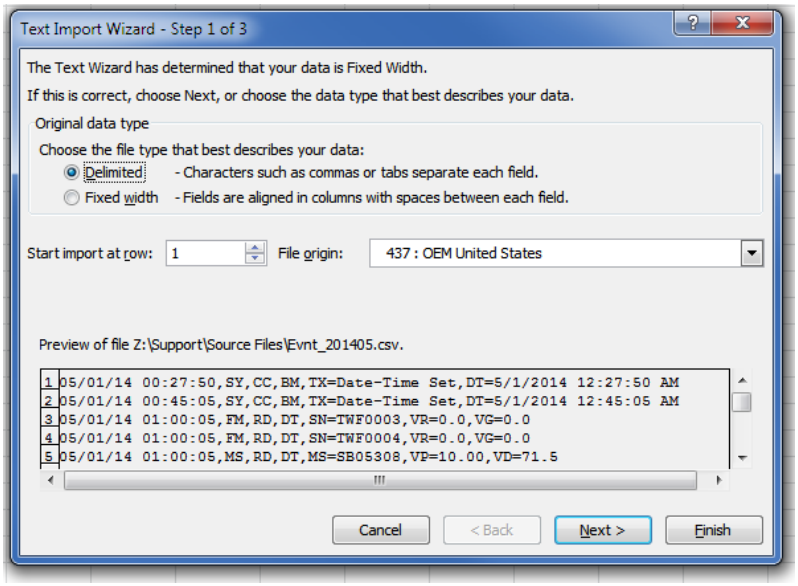
After the file is saved on the USB drive, plug the drive into the USB port on a computer. When you view the file structure on the USB drive, you will find a folder labeled with the controller's serial number. Open the subfolders until you find the event file named Evnt_{ date }.csv



The event file is formatted as a CSV (comma-separated value) file. This file type separates each data component from the next component by a comma. You can open a CSV file in several different computer programs, but the file will be easiest to read when it is opened in Microsoft Excel, and the data is configured to flow into separate rows and columns. See an example of an event file displayed in Microsoft Excel on page 3 of this document.

Perform the following steps to open the CSV file in Microsoft Excel:

1. Start **Microsoft Excel**.
2. Click the **Data** tab.
3. In the Get External Data group, click **From Text**.
4. Navigate to the location of the event file.
5. Select the event file in the list, and then click **Import**. Microsoft Excel displays the Text Import Wizard.



6. In the Original data type group box, select the **Delimited** radio button, and then click **Next**.
7. In the Delimiters group box, select **Comma**, and then click **Next**.
8. On the next wizard screen, preview the data in the table at the bottom, and use the options to format the data as needed.
9. Click **Finish**.
10. In the Import Data dialog box, leave the default **Existing Worksheet** option selected, and then click **OK**. The event file data displays in the worksheet rows and columns.

Event File Example

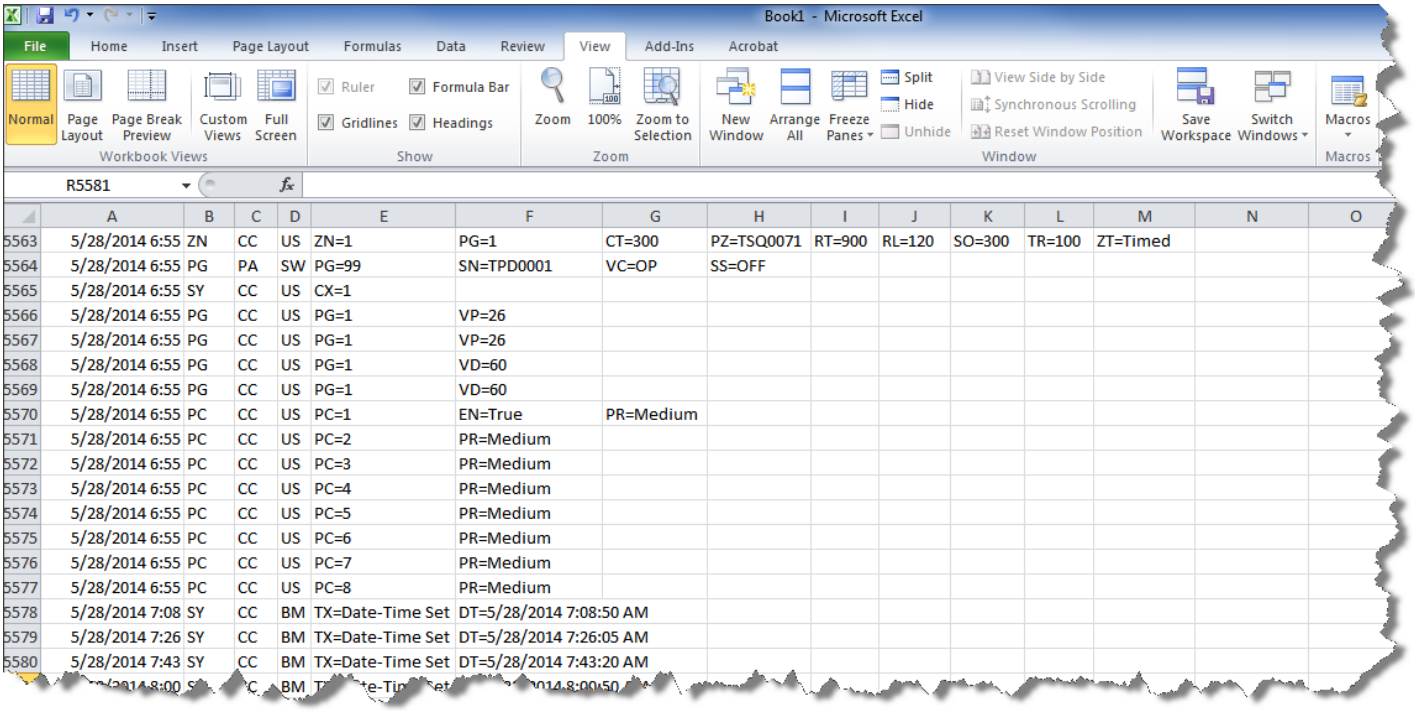
An example of an event file export is shown below with an explanation of the first two rows. See page 4 for additional help interpreting the data.

The first data row records the following event:

> On May 28, 2014 at 6:55 am, a user made a configuration change to zone 1 in program 1. The cycle time was set to 300 seconds (5 minutes). The device with the serial number TSQ0071 was configured as a primary zone. The run time was set to 900 seconds (15 minutes). The run time limit was set to 120 seconds. The soak time was set to 300 seconds. The tracking ratio was set to 100%. The zone was configured as “timed.”

The second data row records the following event:

> On May 28, 2014 at 6:55 am, an event switch with serial number TPD0001 paused program 99. The contacts were open and the status of the program was “off.”



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5563	5/28/2014 6:55	ZN	CC	US	ZN=1	PG=1	CT=300	PZ=TSQ0071	RT=900	RL=120	SO=300	TR=100	ZT=Timed		
5564	5/28/2014 6:55	PG	PA	SW	PG=99	SN=TPD0001	VC=OP	SS=OFF							
5565	5/28/2014 6:55	SY	CC	US	CX=1										
5566	5/28/2014 6:55	PG	CC	US	PG=1	VP=26									
5567	5/28/2014 6:55	PG	CC	US	PG=1	VP=26									
5568	5/28/2014 6:55	PG	CC	US	PG=1	VD=60									
5569	5/28/2014 6:55	PG	CC	US	PG=1	VD=60									
5570	5/28/2014 6:55	PC	CC	US	PC=1	EN=True	PR=Medium								
5571	5/28/2014 6:55	PC	CC	US	PC=2	PR=Medium									
5572	5/28/2014 6:55	PC	CC	US	PC=3	PR=Medium									
5573	5/28/2014 6:55	PC	CC	US	PC=4	PR=Medium									
5574	5/28/2014 6:55	PC	CC	US	PC=5	PR=Medium									
5575	5/28/2014 6:55	PC	CC	US	PC=6	PR=Medium									
5576	5/28/2014 6:55	PC	CC	US	PC=7	PR=Medium									
5577	5/28/2014 6:55	PC	CC	US	PC=8	PR=Medium									
5578	5/28/2014 7:08	SY	CC	BM	TX=Date-Time Set	DT=5/28/2014 7:08:50 AM									
5579	5/28/2014 7:26	SY	CC	BM	TX=Date-Time Set	DT=5/28/2014 7:26:05 AM									
5580	5/28/2014 7:43	SY	CC	BM	TX=Date-Time Set	DT=5/28/2014 7:43:20 AM									

Interpreting the Data

Even after the event file data is properly displayed in the worksheet rows and columns, you probably won't be able to read the content. The following information will help you interpret the data.

Data Columns

The event file columns contain the following data (from left to right):

- First column (column A) – date/time when the action occurred – the time uses the 24-hour clock convention
- Second column (column B) – the subject of the entry. For example, alarms, moisture sensor
- Third column (column C) – the action that occurred. For example, the configuration was changed
- Fourth column (column D) – what triggered the action. For example, a program started because a Day/Time (DT) start occurred
- Remaining columns – the result of an action (where applicable)

Abbreviations

Because the event file contains a large amount of data, abbreviations are used to convey the information. Some abbreviations may show up in multiple columns and have different meanings (depending on the column that they display in). An abbreviation might have multiple meanings within a column, but you should be able to use contextual clues to determine the meaning of the abbreviation.

See the **Explanation of Abbreviations** at the end of this document.

Values

- An amount of time (such as run time, cycle time, or soak time) in the event file is given in seconds.
- Temperature values are given in Fahrenheit.
- Flow is given in US gallons.

Explanation of Event File Abbreviations

Subject (Column B)		Action (Column C)		Trigger (Column D)	
AL	Alarm	BT	Boot	AD	Administrator
BM	BaseManager	CA	Clear All	BL	BLCommander
CM	Cell Modem	CB	Calibration	BM	BaseManager
FM	Flow Meter	CC	Configuration Change	CM	Cell Modem
FS	FlowStation	CL	Clear	DL	Dial
ML	Mainline	CN	Connect	DT	Date Time
MS	Moisture Sensor	DB	Debug	ED	Event Date
MV	Master Valve	DC	Disconnect	ET	Ethernet
PC	Point of Connection	DN	Done	FJ	Flow Jumper
PG	Program	DS	Disable	FM	Flow Meter
SW	Event Switch	ER	Error	FS	FlowStation
SY	System	EV	Event Day	GE	General Exception
TS	Temperature Sensor	FF	Flow Fault	ML	Mainline
TW	Two-Wire	FH	High Flow	MS	Moisture Sensor
WF	Wi-Fi	FV	Flow Variance	MV	Master Valve
ZN	Zone	IP	IP Address Change	OP	Operator
ZP	Primary Zone	LF	Learn Flow	PC	POC
		LI	Login	PG	Program
		LR	Learn Flow Results	PJ	Pause Jumper
		MR	Manual Run	PP	Program Priority
		PA	Pause	PR	Programmer
		RD	Rain Delay	PU	Power Up
		RD	Reading	PZ	Primary Zone
		RL	Running List	RA	Rain Shutdown
		RN	Run	RJ	Rain Jumper
		RS	Rain Switch	SW	Event Switch
		RS	Restore	SY	System
		RX	Received	TS	Temperature Sensor
		SE	Set	UD	Update
		SK	Skipped	US	User
		SO	Soak	WD	WatchDog
		SP	Stop	WW	Water Window
		SR	Start	ZN	Zone
		ST	Status		
		TR	Test Results		
		TS	Testing		
		TT	Test		
		TX	Transmitted		
		UD	Update		
		UN	Unassign		
		VT	Variance Test		
		WA	Wait		

Additional Information (Remaining Columns)			
AK	Alarm Key	PG	Program
B1	BaseManager Server P1	PM	POC Moisture Sensor Enabled
BP	BaseManager Alternate IP	PP	Primary Zone Program
BS	BaseManager Static IP	PR	Priority
BT	BaseManager Test Server	PW	POC Switch Enabled
CA	Calibrate	PZ	Primary Zone
CF	Concurrent Zones By Flow	RD	Rationing Daily
CN	Connection Type	RL	Run Time Limit
CP	Depth Compensation	RM	Run Mode
CT	Cycle Time	RT	Run Time
CX	Concurrent Zones	SB	Ethernet SubNet
D1	Ethernet DNS 1	SC	Water Schedule
D2	Ethernet DNS 2	SD	Shut Down Days
DF	Design Flow	SG	Water Strategy
DH	Ethernet DHCP	SL	Sensor Limit
DI	Day Interval	SN	Serial Number
DS	Description	SO	Soak Time
DT	Date & Time	SP	Step
EM	Empty Time	SS	Status
EN	Enabled	ST	Start Times
ET	ET Intervals	SU	Shut Down
FI	File	SW	Event Switch
FM	Flow Meter	T7	Two-Wire 24x7
GW	Ethernet Gateway	TR	Tracking Ratio
HE	High Flow Enabled	TS	Temperature Sensor
HF	High Flow Limit	TW	Two-Wire Mode
HS	High Flow Shut Down	TX	Text
HV	High Flow Variance	UE	Unscheduled Flow Enabled
HX	High Flow Variance Enabled	UF	Unscheduled Flow
ID	ID	UL	Upper Limit
IP	Ethernet IP	VA	Value Amps
IP	IP Address	VC	Value Switch
KV	K Value	VD	Value Degrees
LA	Latitude	VE	Version
LF	Learn Flow	VG	Value Gallons
LG	Longitude	VP	Value Percent
LL	Lower Limit	VP	Value Slope
LM	Limit	VR	Value GPM
LN	Language	VS	Value Seconds
LS	Low Flow Variance Shutdown	VT	Value Voltage Drop
LV	Low Flow Variance	VV	Value Voltage
LX	Low Flow Variance Enabled	W0	Water Window Sun
MB	Monthly Budget	W1	Water Window Mon
ME	Monthly Budget Enabled	W2	Water Window Tue
ML	Mainline	W3	Water Window Wed
MS	Moisture Sensor	W4	Water Window Thu
MT	Master Valve Type	W5	Water Window Fri
MV	Master Valve	W6	Water Window Sat
NU	Number	WB	Water Budget
OS	Offset	WD	Water Window Daily
PB	BoosterPump	WW	Water Window
PC	Point of Connection	XP	FlowStation IP
PF	Pipe Fill Time	ZN	Zone
PI	Personal Identification Number	ZT	Zone Type
PT	Pause Time		