

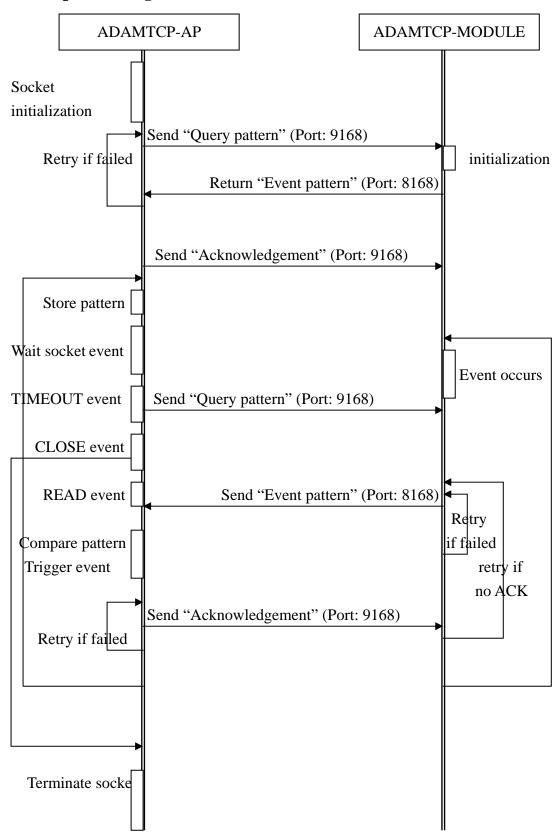
## **ADAM 5000/TCP Event Trigger specification**

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#### 1. Sequence diagram





## 2. Data format

### 2.1. Query pattern (AP is the sender), length = 10

Field name	Length	Value	Remarks
Pre-fix	4 bytes	"MADA"	
Function Type	1 byte	0x02	
Data	5 byte	"QUERY"	

### 2.2. Event pattern (Module is the sender), length = 262

Field name	Length	Value	Remarks
Pre-fix	4 bytes	"MADA"	
Function Type	1 byte	0x03	
Packet No.	1 byte		
DIO	16 bytes (each slot		Each bit indicates a
	has two bytes)		DIO point.
			For each bit:
			1: DIO on
			0: DIO off
AIO	128 bytes (each		Every two bytes
	channel has two		indicate an AIO
	bytes, each slot has		value of a channel.
	eight channels)		
High Alarm	8 bytes (each slot		Each bit indicates a
	has 1 byte)		high alarm point.
			For each bit:
			1: High alarm on
			0: High alarm off
Low Alarm	8 bytes (each slot		Each bit indicates a
	has 1 byte)		low alarm point.
			For each bit:
			1: Low alarm on
			0: Low alarm off
Pre-DIO	16 bytes (each slot		Each bit indicates a
	has two bytes)		DIO point.
			For each bit:
			1: DIO on

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		0: DIO off
Pre-High Alarm	8 bytes (each slot	Each bit indicates a
	has 1 byte)	high alarm point.
		For each bit:
		1: High alarm on
		0: High alarm off
Pre-Low Alarm	8 bytes (each slot	Each bit indicates a
	has 1 byte)	low alarm point.
		For each bit:
		1: Low alarm on
		0: Low alarm off
DIO (OFF->ON	16 bytes (each slot	Each bit indicates a
mask)	has two bytes)	DIO point
		"OFF->ON" mask.
		For each bit:
		1: Mask on
		0: Mask off
DIO (ON-> OFF	16 bytes (each slot	Each bit indicates a
mask)	has two bytes)	DIO point "ON->
		OFF" mask.
		For each bit:
		1: Mask on
		0: Mask off
High Alarm	8 bytes (each slot	Each bit indicates a
(OFF->ON mask)	has 1 byte)	high alarm point
		"OFF->ON" mask.
		For each bit:
		1: Mask on
		0: Mask off
High Alarm (ON->	8 bytes (each slot	Each bit indicates a
OFF mask)	has 1 byte)	high alarm point
		"ON->OFF" mask.
		For each bit:
		1: Mask on
		0: Mask off
Low Alarm	8 bytes (each slot	Each bit indicates a
(OFF->ON mask)	has 1 byte)	low alarm point
		"OFF->ON" mask.



		For each bit:
		1: Mask on
		0: Mask off
Low Alarm	8 bytes (each slot	Each bit indicates a
(ON->OFF mask)	has 1 byte)	high alarm point
		"ON->OFF" mask.
		For each bit:
		1: Mask on
		0: Mask off

### 2.3. Acknowledgement (AP is the sender), length = 8

Field name	Length	Value	Remarks
Pre-fix	4 bytes	"MADA"	
Function Type	1 byte	0x02	
Data	3 byte	"ACK"	

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