

## VME Intensity Monitor - Feature #11729

Milestone # 11650 (Closed): Mar 2016 Release A - 201603A

### 201602A Replace Latch with ATR

02/15/2016 02:49 PM - Roger Tokarek

<b>Status:</b>	Work in progress	<b>Start date:</b>	
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Elliott McCrory	<b>% Done:</b>	90%
<b>Category:</b>	Latch	<b>Estimated time:</b>	80.00 hours
<b>Target version:</b>		<b>Spent time:</b>	72.00 hours
<b>Description</b>			
<p>Replace the original Latch facility with ATR, "Arm Trigger Response". Latch was hardcoded, limited in device support and required conditional compilation for each front end application. Further Latch was a misnomer since it is not general purpose and supported latching data only under only a specific set of Acnet arm and trigger events.</p> <p>Latch is replaced with three new classes. <b>ATRMgr</b>, which supports the arm, trigger and response behavior, <b>ATRLatchDev</b> which supports data latching behavior for each ATR latch device, and <b>ATRLatchAccessor</b> which supports Acnet access to the latched data.</p> <p>See [[<a href="https://cdcvs.fnal.gov/redmine/projects/vmeint/wiki/ATR">https://cdcvs.fnal.gov/redmine/projects/vmeint/wiki/ATR</a>]] for a detailed explanation of the behavior of ATR.</p>			

#### Associated revisions

##### Revision 07b075d2 - 02/18/2016 10:18 AM - Roger Tokarek

Issue #11729 Intermediate step. Add ATR Support.

- Latch remains in code and active until testing is complete.
- Added map<> \_monitorTable support to VMEInt in preparation for future use. No calls access it as yet.

#### History

##### #1 - 02/15/2016 02:56 PM - Roger Tokarek

- Subject changed from Replace Latch with ATR to 201602A Replace Latch with ATR

##### #2 - 02/18/2016 10:58 AM - Roger Tokarek

- % Done changed from 30 to 90
- Estimated time set to 80.00 h

#### Current Status

1. Added classes **ATRMgr**, **ATRLatchDev**, **ATRLatchAccessor** to VMEInt.
2. Compiles successfully with make and refdev.
3. Git commit 07b075 on local branch atr.
4. Latch facility remains active.

#### Next Steps

1. On successful ATR testing, Latch will be disabled.
2. On successful ATR operation in M10TOR, Latch will be removed.

##### #3 - 02/28/2016 11:30 AM - John Diamond

- Parent task changed from #11649 to #11650

##### #4 - 08/03/2016 10:31 AM - Roger Tokarek

- Status changed from New to Work in progress
- Priority changed from Normal to High

**REQUIRES TESTING.** Investigate using class *CycleDevice\** instead

**#5 - 10/13/2016 02:27 PM - Elliott McCrory**

- Assignee changed from *Roger Tokarek* to *Elliott McCrory*