



Xgig® Advanced Triggering Mini-Guide



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Advanced Triggering Overview

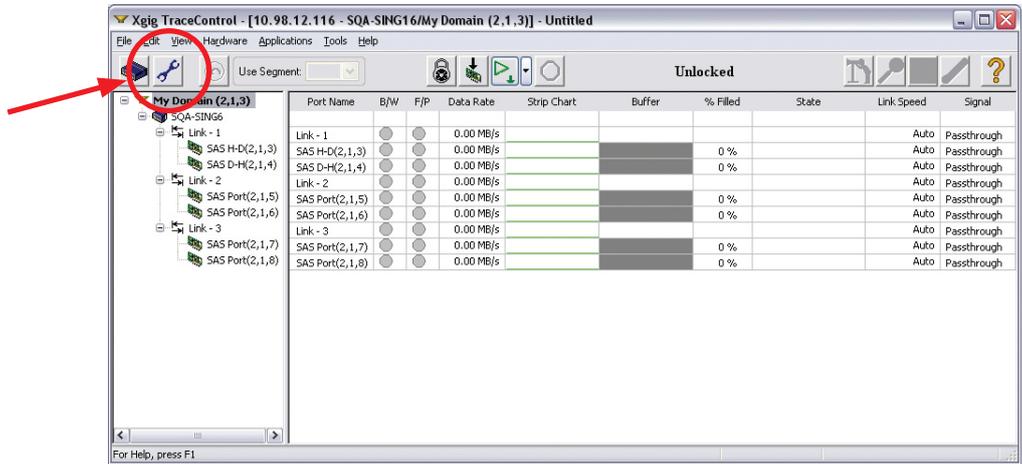
The new Xgig Advanced Triggering feature supports current triggering specifications but adds new capabilities the Xgig triggering mechanism...

- A new GUI
- More trigger states
- More data comparators
- Counters
- Timers
- A “sliding comparator”
- Intra-chassis signaling

This guide provides a brief overview of this exciting new feature to get you started. But, for detailed information reference the Xgig Analyzer Users' Guide included with the software.

Accessing the New Capture/Trigger Feature

Clicking the “wrench” icon on the TraceControl 5.0 software will activate the new Configuration Editor dialog, which contains both a new Capture and Trigger GUI.

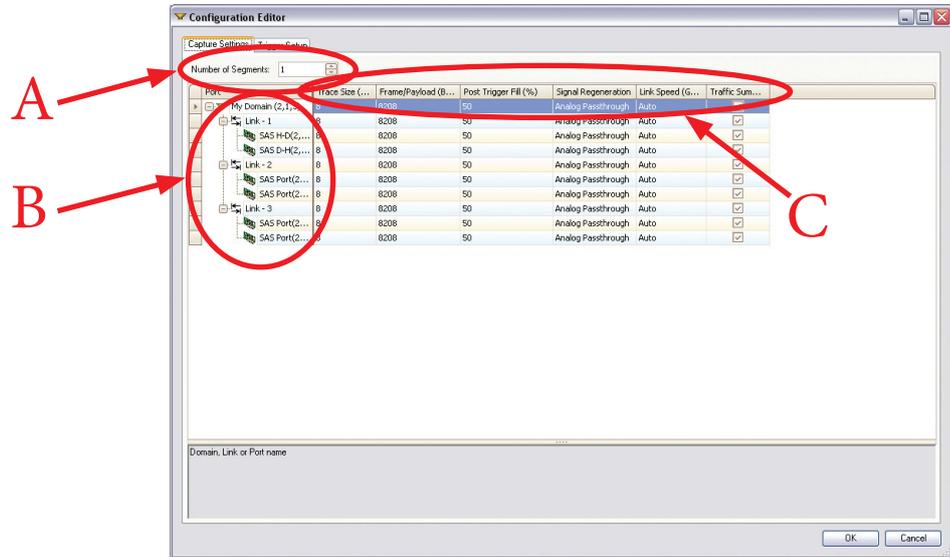


New Capture Setup Tab

The Capture tab of the new configuration dialog allows specifying setting related capture segments and sizes.

- A. Segment specifier** sets how many sub-segments each port will support for repeated trigger/capture
- B. Multi-level tree control** allows for simultaneously setting capture parameters for port, port-pairs (links), or the entire domain. Select any level to specify parameters.
- C. Capture specification parameters** for the selected ports/links/domain (B):

- Trace Size
- Frame/Payload Size
- Post Trigger %
- Signal Regeneration Method
- Link Speed
- Traffic Summary inclusion



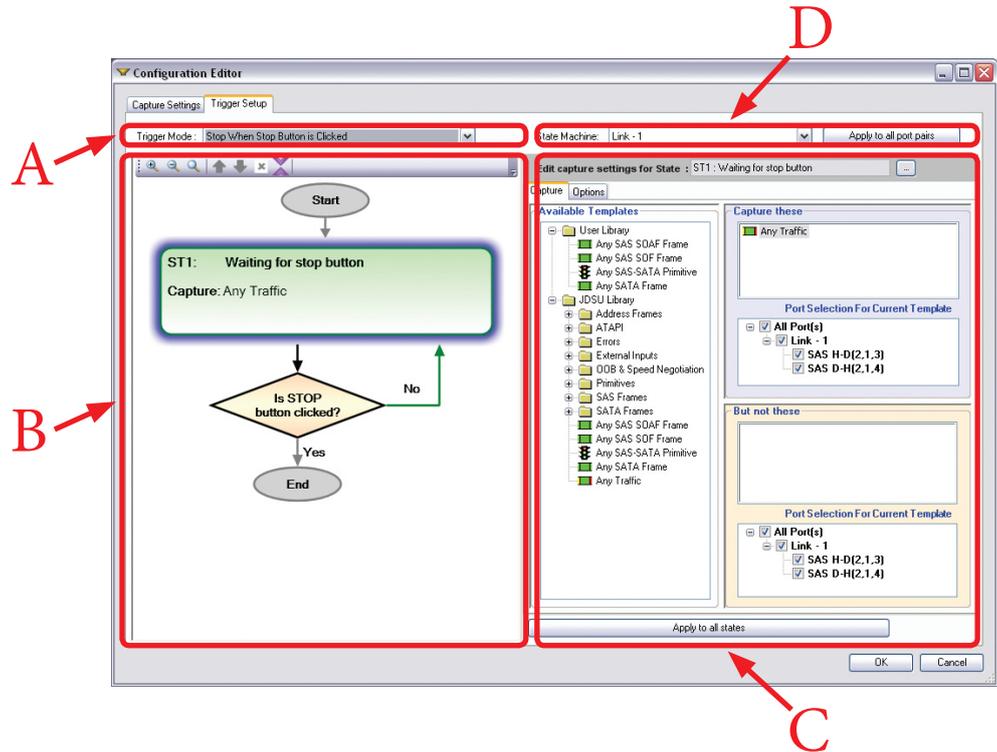
New Trigger Setup Tab

A. **Trigger Mode** list specifies whether trigger is backward compatible or new (Advanced)

B. **Trigger Specification** details the logical flow for the port-pair selected

C. **Capture/Filter and Wait For** specifier (depends upon whether a capture or action bubble is selected in the B) details what to capture or wait for, respectively for the selected port or port pair

D. **State Machine** list allows copying of the current trigger to other port pairs



Advanced Triggering: Backwards Compatibility

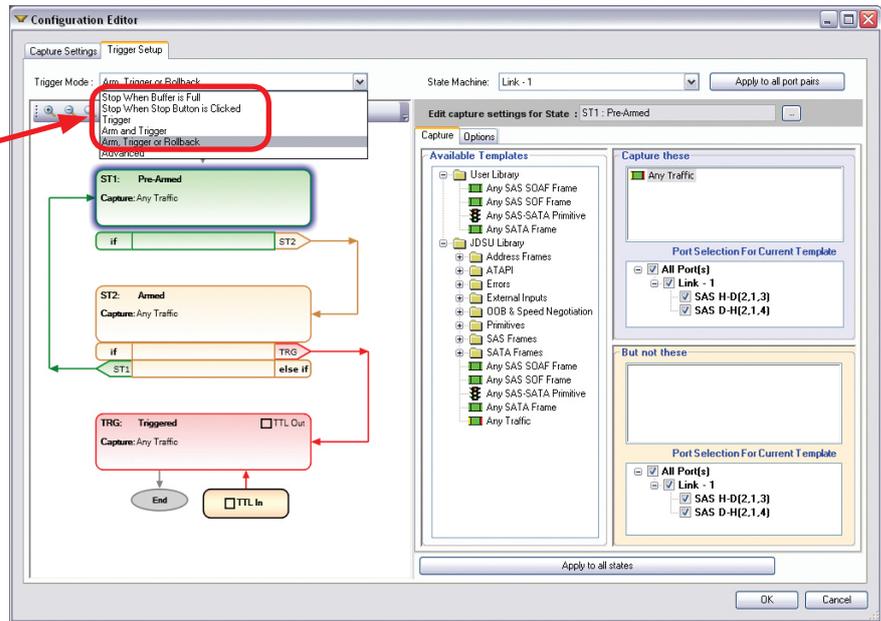
The Trigger Mode list specifies whether the trigger specification is a backward compatible trigger (see list at the bottom of the page), or a new, “Advanced” trigger specification. The first 5 items on the drop-down list are backward compatible items.

Configurations created prior to this release will load one of the backward compatible trigger specifications from this list.

Note that none of the backward compatible triggers allow modifying the number of states within the trigger specification.

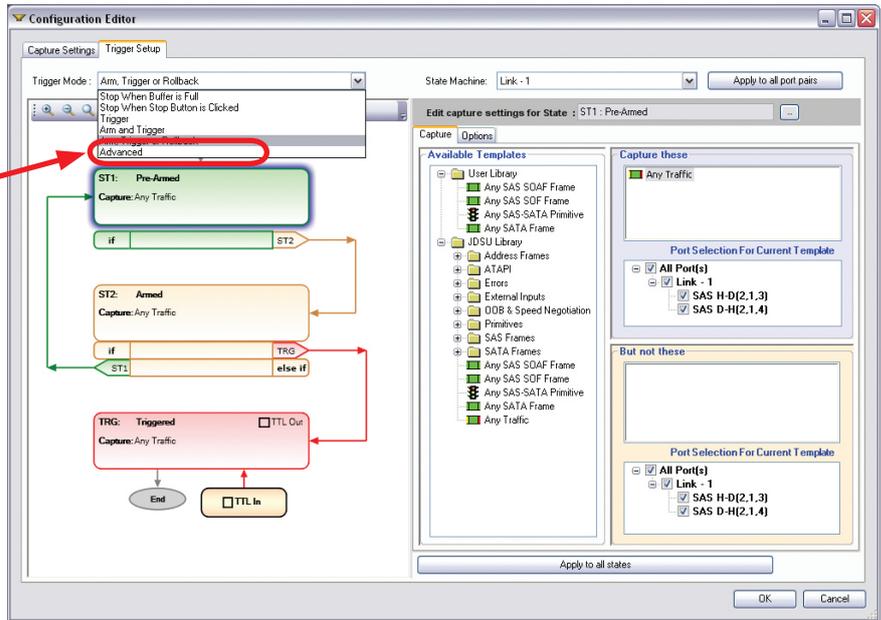
Backward compatible triggers:

- Stop When Buffer Is Full
- Stop When Stop Button is Clicked
- Trigger
- Arm and Trigger
- Arm, Trigger, or Rollback



Advanced Triggering: Accessing New Capabilities

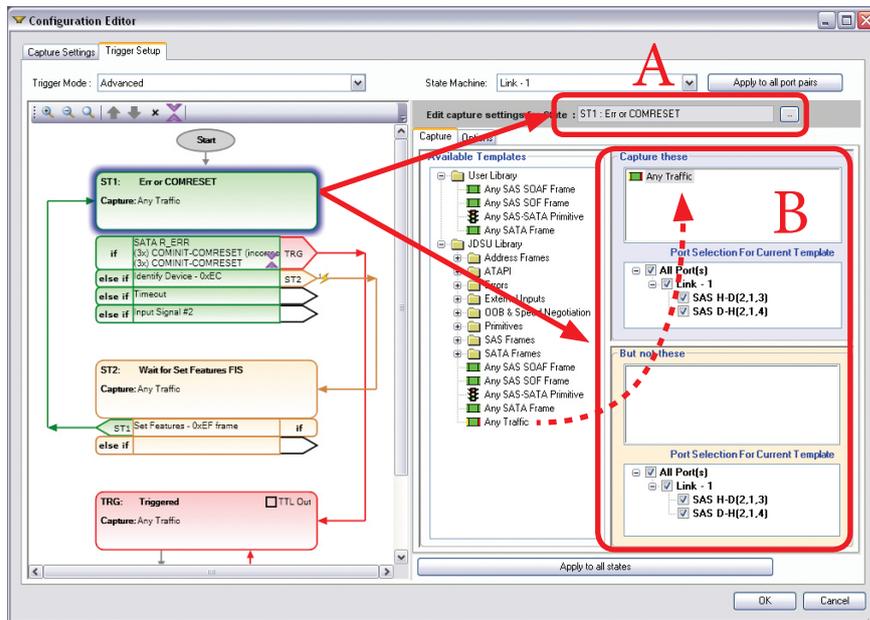
Selecting the “Advanced” trigger specification from the drop down Trigger Mode list allows arbitrary specification of a trigger specification utilizing the full resources of the new Advanced Trigger feature.



State Bubble: Name and Capture Specification

Click on any **State** bubble to specify the name and capture specification of a trigger state. Set the name of the state in A). Drag-and-drop templates from the **Available Templates** window to specify traffic to capture or filter within a given state B).

Note that in either the **Capture these** and **But not these** windows, you can specify whether the specification is for a specific port or for an entire port pair.



State Bubble: Name and Capture Specification

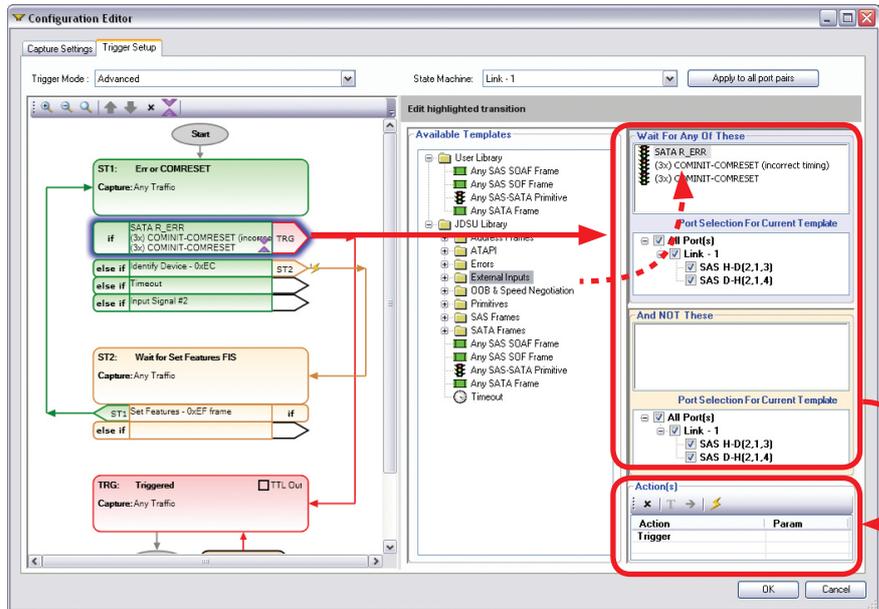
Click on any **Transition/Action** bubble to specify 'wait for' conditions.

Drag and drop any specifiers from the **Available Templates** window to create "Wait for" conditions. Note that each condition within this window is an 'or' condition.

Specify the action to occur in the Action(s) window at the bottom right of the dialog. Available actions are as follows.

- Trigger
- Transition to...
- Pulse intra-chassis signal

To create a new 'wait for' condition, click on the empty State bubble located at the bottom of the State bubble set.



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