

DAQOperationsTools - Feature #6397

Add detection of missing spill server to watchDataDisk.sh

06/02/2014 03:43 PM - Peter Shanahan

Status:	Resolved	Start date:	06/02/2014
Priority:	Normal	Due date:	
Assignee:	Peter Shanahan	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
<p>This issue is a test drive of the Online Support Group Software Quality Assurance procedure for the Online Support Group, which will serve as a template for the NOVA DAQ SQA procedure. In this case, the "Change Management" section applies.</p> <p>An SQA level has not yet been applied for watchDataDisk.sh, but Low would be appropriate, given that this is a monitoring system designed to provide extra checks.</p> <p>Generation: This change is to add functionality to watchDataDisk.sh to detect when SpillServer is not running. Shifters seem to consistently miss other queues, such as red and pink boxes in the SpillServer monitor. The need for additional means to bring SpillServer outages to the shifters' attention has been discussed in NOVA FarDet Outfitting meetings, and in this ECL entry. Disk Watcher is a candidate for this, since it knows whether a run is going for each partition.</p> <p>SQALevel: Low</p> <p>Approval: No prior approval needed - 2 (<32) hours work anticipated.</p> <p>Requirements: The script must detect when Pulse-Per-Second data is not incrementing for a partition, despite a run being in progress, and issue a well-defined warning message to the message service for that partition. There is no requirements document for this script.</p> <p>Design: There are no changes to major logic changes. An additional check for a recent "t05" file update is used in function checkStatusChange. For each partition, if a run is detected to be going, but the t05 has not updated in activeTime seconds, a warning message is sent to the message facility backbone. The text is Partition <partitionnumber> PPS stream not updating. SpillServer might be broken. This message can be caught by the message analyzer, if it is running.</p> <p>Test Plan: This will be tested first on NDOS, with the following tests:</p> <ol style="list-style-type: none">1. Does the warning get generated if the PPS stream will be disabled in the configuration?2. Does the warning not get generated if the PPS stream is enabled and incrementing? <p>User Documentation: This is a simple script providing additional backup. User Documentation does not exist at this time. Shifter instructions will be updated when this feature is rolled out.</p> <p>Further steps await testing. Documentation time to this point: 15 minutes. Coding time: 15 minutes.</p>			

History

#1 - 06/02/2014 03:54 PM - Peter Shanahan

Peter Shanahan wrote:

Design: There are no changes to major logic changes. An additional check for a recent "t05" file update is used in function checkStatusChange. For each partition, if a run is detected to be going, but the t05 has not updated in activeTime seconds, a warning message is sent to the message facility backbone. The text is

Design: Check for recent "t05" replaced by "t05" or "PPS", since the latter is used at NDOS. To clarify, this check is done by grepping for this pattern in the name of all recently touched files

#2 - 06/04/2014 10:35 AM - Peter Shanahan

Testing Tests were successfully completed on [June 3, 2014](#)

Design (Update) During testing, it became clear that simply checking the existence of a recent t05/PPS steam is not sufficient, if activeTime+1 minutes [3] is close to the subrun duration, since a new file will be opened for every subrun. There is now an additional check that the t05/PPS file

has a timestamp less than ppsLagMax seconds [20] in the past.

#3 - 09/02/2015 01:24 PM - Peter Shanahan

- *Status changed from New to Resolved*

#4 - 09/02/2015 01:24 PM - Peter Shanahan

- *% Done changed from 0 to 100*