

# Detailed functional tests for DAS/CCD3 software

## Logging

Date: 22/10 - 2009  
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 Version: 22/10 - 2009, Initial version.  
 16/11 – 2009, Comments by AiC.

Test number	<b>10</b>
Test name	<b><u>Logging</u></b>
Test document	<b>10-test-logging</b>
Depends on test	None.
Requirements	The CCD3/DAS system shall log their activities (commands executed, status changes, events sent/received and errors via the UNIX syslog facility.
Circumstances	<ul style="list-style-type: none"> <li>- The complete CCD3/DAS system shall be running, connected to a detector controller, controlling a CCD or reading out a dummy test pattern.</li> <li>- There shall be a network connection available for the external FITS information module to access the NOT "Operations" database.</li> <li>- The file "/etc/syslog.conf" shall contain the following: "local0.* /var/log/talker"</li> <li>- The command 'tail -f /var/log/talker' shall be executed in a terminal window.</li> <li>- The external (sequencer) commands are not covered by this test as they have been treated separately in test 6 (test-cmd-if).</li> </ul>
Test descriptions	<p><u>Subtest 10.1 (logging when using internal CCD3 commands):</u>          The commands "exp 10", "dark 10" and "focusexpose 23500 20 5" shall be given in the command window of the CCD3 programme.</p> <p><u>Subtest 10.2 (logging when using external sequencer commands):</u>          The commands "exp 10", "dark 10" and "focusexpose 23500 20 5" shall be given in the command window of the CCD3 programme.</p> <p><u>Subtest 10.3 (Logging errors):</u>          The commands "exp -5" and focusexpose 23500 20 5" shall be made. There shall be no network connection to the TCS available.</p>
Criteria	<p>The result is acceptable and thus the test is PASSED when</p> <ul style="list-style-type: none"> <li>- The following information is logged             <ul style="list-style-type: none"> <li>- Description of the action that will be taken (logged as [info])</li> <li>- Description of vital information during the action (logged as [info])</li> <li>- Warnings (logged as [warning])</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>- Errors (logged as [error])</li> <li>- Technical information not relevant for the normal user (logged as [debug]).</li> </ul> <p>using the UNIX syslog facility “local0” and priority “debug”.</p> <ul style="list-style-type: none"> <li>- The CCD3 programme logs start/end of integration, start/end of readout and shutter activity as described above.</li> <li>- Each of the CCD3 commands log information as described above.</li> <li>- All components of the DAS log the transmission and reception of events over the Ivy bus as [debug].</li> <li>- The external FITS information program logs information as described above, but all informational messages are logged as [debug].</li> </ul>
<p>Result</p>	<p><input type="checkbox"/> Subtest 10.1 PASSED. Tested by _____ on ____ / ____ 20____</p> <p>Signed _____</p> <p><input type="checkbox"/> Subtest 10.2 PASSED. Tested by _____ on ____ / ____ 20____</p> <p>Signed _____</p> <p><input type="checkbox"/> Subtest 10.3 PASSED. Tested by _____ on ____ / ____ 20____</p> <p>Signed _____</p>
<p>Notes</p>	

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