1. An event is reported to the database via **ta.registerEvent**.
2. ta.registerEvent inserts the event into ta.event, ta.event\_atomic\_fact, and ta.test\_request\_status\_change\_fact . It inserts related metadata into ta.source\_file\_event and ta.module\_event. And it requests required tests by inserting into ta.test\_request.
3. An event’s requested tests requiring execution are queried via **ta.getEventTestRequests**, passing ta.getRequestStatusTypeId(nameIn := 'node not assigned') and ta.getRequestStatusTypeId(nameIn := ' test-execution failed') in the requestStatusTypeIdsIn argument.
4. Each time a test is assigned to a node, the test’s node and node group are recorded via **ta.updateTestRequestNode**.
5. Each time a test starts running, the test start is reported via **ta.recordTestResult** (test-result type = ‘test started’).
6. Each time a test finishes running, the test results are reported via **ta.recordTestResult(s)** and inserted into ta.test\_result and ta.test\_result\_atomic\_fact.
7. If a test fails, the failure is recorded via **ta.reportTestExecutionFailure**.
8. Repeat step 3 until the list of test requests returned by ta.getEventTestRequests is empty.