

DASH Testing Workflows v2

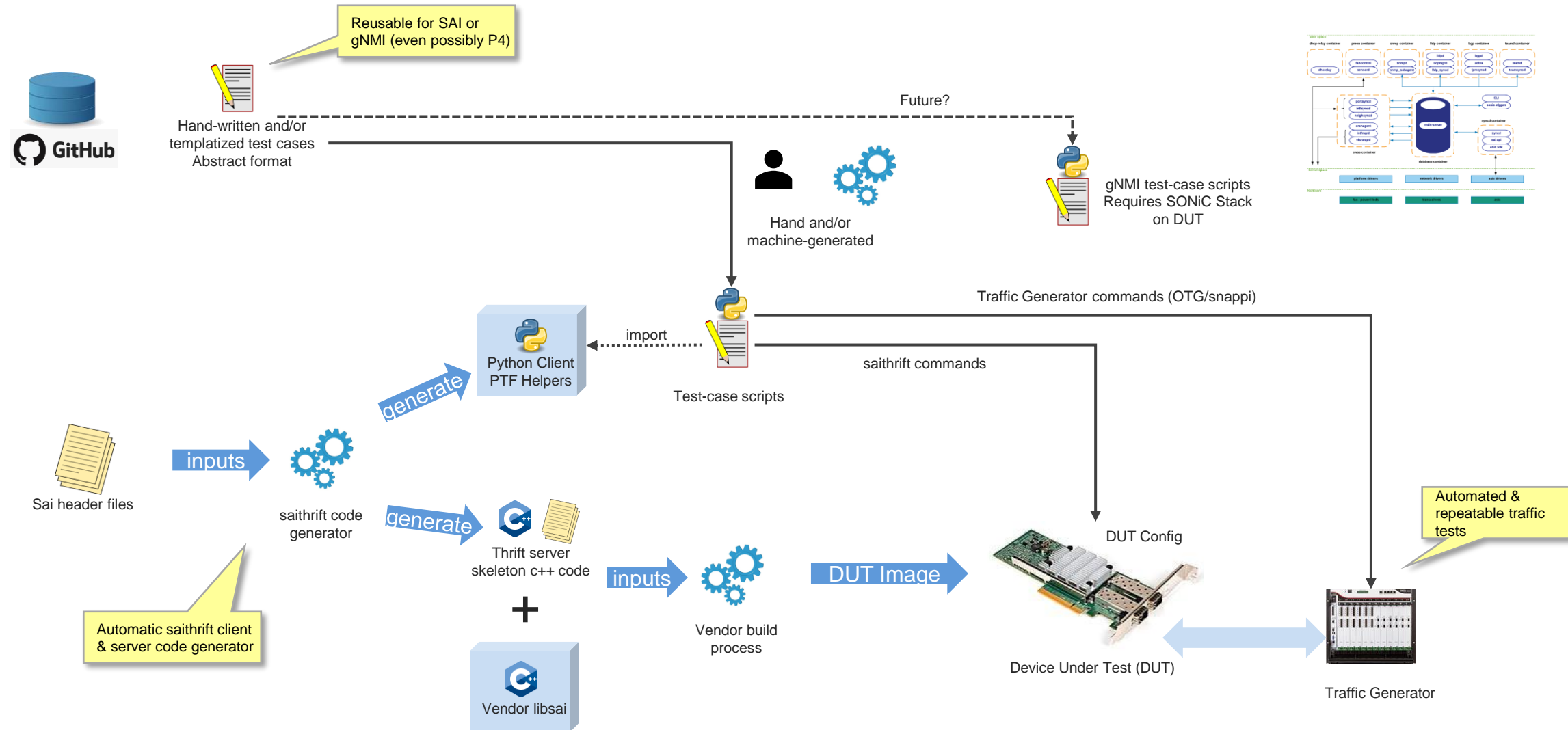
Chris Sommers

2021.11.12

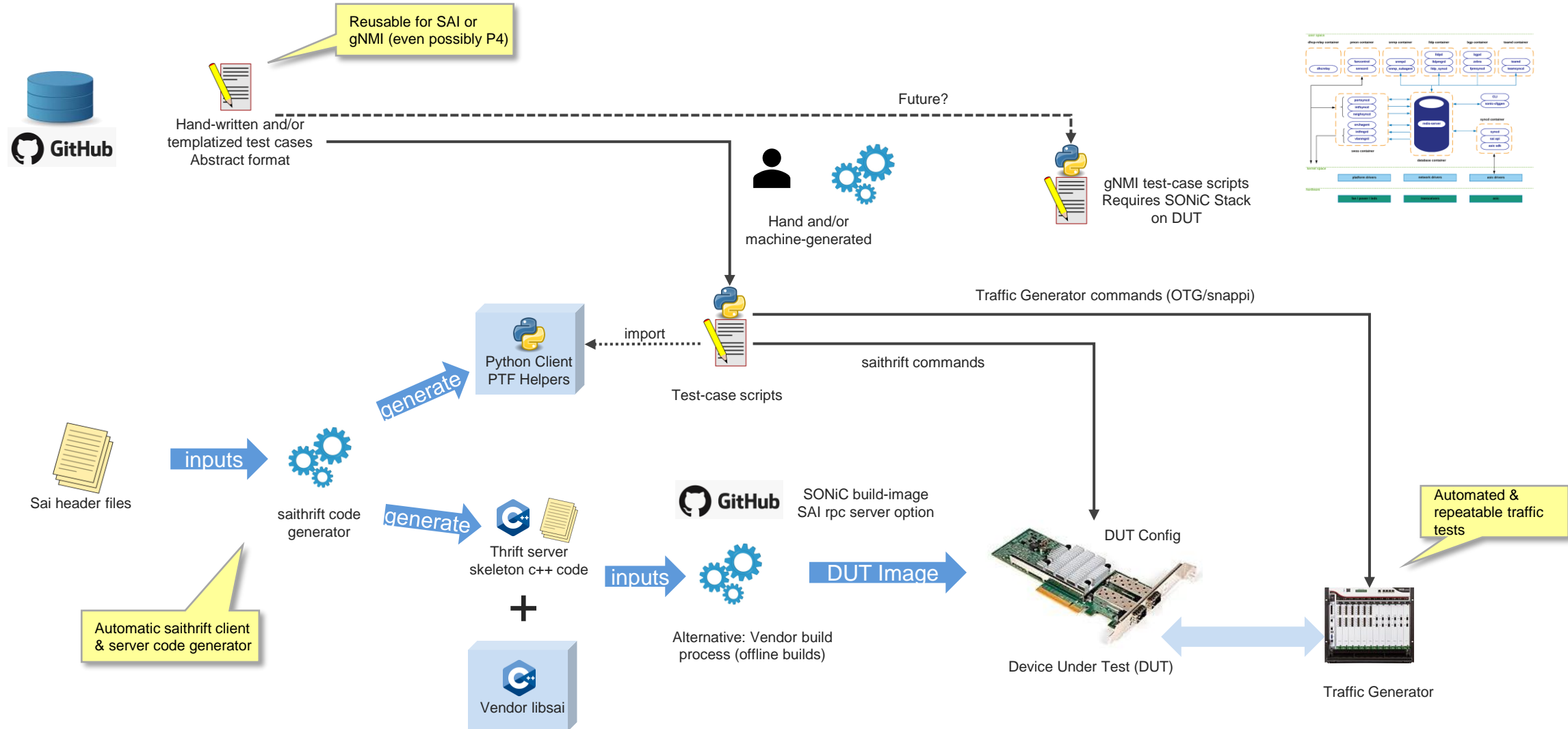
SW Architect



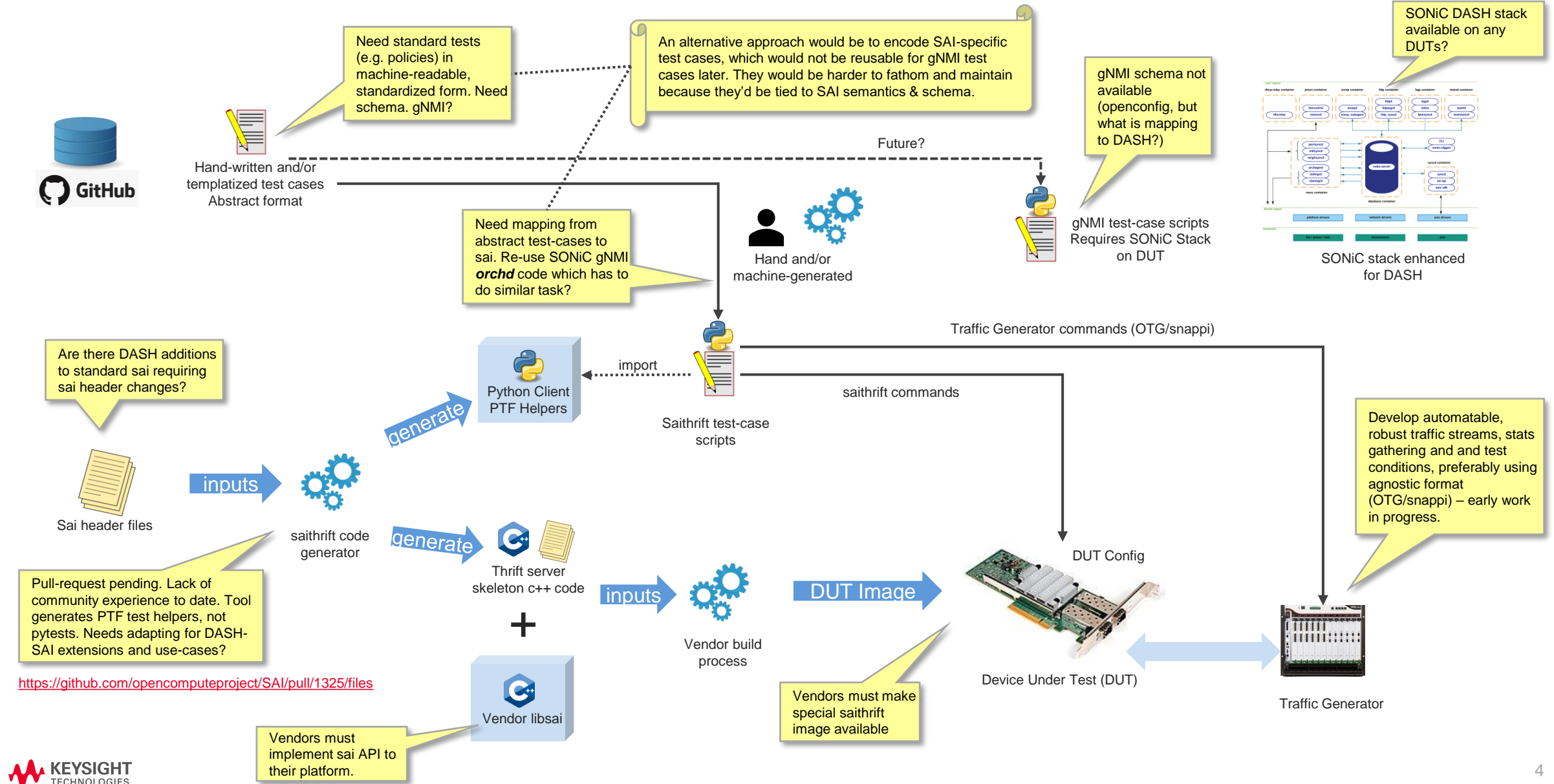
Idealized DASH Test Workflow – using saithrift



Idealized DASH Test Workflow – using saithrift (post-meeting update)



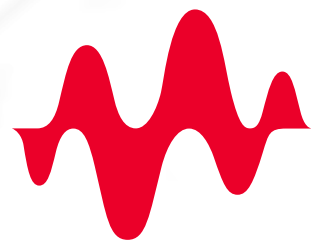
Idealized DASH Test Workflow – gaps



Notes from 2021-11-12 Meeting of the SONiC-DASH Test WG

The following pertain to the preceding diagrams and aren't meant to be complete meeting notes.

1. Guohan: we should consider using SONiC Management Testbed for consistency to allow users to have a reproducible framework. Test-cases should utilize this framework. [See <https://github.com/Azure/sonic-mgmt/blob/master/docs/testbed/README.testbed.Overview.md>]
Chris: We were proposing something simpler for early dataplane testing.
Kristina: We'll keep in mind for long-term goal.
2. Q: Why does saithrift build step say "vendor build process?" Shouldn't it be built in the standard SONiC pipeline?
A: Guohan: Correct, the sonic-buildimage can make a version with saithrift RPC server using the normal build process.
A: Chris: vendors can make their own builds outside of sonic-buildimage process during early development (prior to full SONiC integration). *See updated diagram (slide 3) updated post-meeting.*
3. Q: Why not use the P4 Behavioral model (e.g. <https://github.com/Azure/DASH/tree/main/sirius-pipeline>) as the single source-of-truth for test-case generation?
A: Chris: Great idea, let's study this at the next WG meeting. We need to propose practical ways of turning the model into concrete test cases. Let's all study and be prepared to discuss this.
4. Q: Should saithrift server be maintained long-term?
A: Chris: Seems like a valuable option to maintain for regression etc.
A: Guohan: Based on SONiC experience, we need to maintain this as a permanent part of the qualification process to isolate bugs and simplify dataplane testing.
5. Q: Can we make this diagram available?
A: Chris: I'll post to the repo.



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