

SUIT Reports

draft-moran-suit-report-01

Status

- Referenced by TEEP
- Call for adoption in progress in SUIT
- Recharter necessary?

Quick refresher

Allows an entity in possession of the SUI report and the corresponding SUI manifest to determine what a manifest processor did during update or secure invocation

Example: A/B manifest

- Has two slots for firmware.
- Suppose device layout is different from expected.
- Common block:
 - Set Component Index directive
 - Try Each
 - First Sequence:
 - Override Offset A
 - Check Offset Condition
 - Override Image Digest A and Image Size A
 - Second Sequence:
 - Override Offset B
 - Check Offset Condition
 - Override Image Digest B and Image Size B

SUIT Report for image offset failure

```
{
  1:[2,
h'ae0c1ea689c9800a843550f38796b6fdbd52a0
c78be5d26011d8e784da43d47c'],
  4:[
    {1:[],2:3,3:51,4:0, 6:{5: 0x88000}},
    {1:[],2:3,3:109,4:0, 6:{5: 0x88000}}
  ]
}
```

- Root Manifest digest
- Failure 1:
 - Root manifest
 - Common sequence
 - Component index: 0
 - offset 51.
 - Reason: actual offset was 0x88000 (expected 0x8400)
- Failure 2:
 - Root manifest
 - Common sequence
 - Component index: 0
 - Offset 109
 - Reason: actual offset was 0x88000 (expected 0x84400)