SUIT Hackathon Report
IETF 114 COSE SUIT TEEP Hackathon

- Date July 23 Saturday, July 24 Sunday
  - Jointly COSE, SUIT and TEEP

- First time to meet face to face after Hackathon in Berlin, February 2020

- Participants:
  - Dave Thaler, Microsoft
  - Hannes Tschofenig, ARM
  - Laurence Lundblade, Security Theory LLC
  - David Brown, Linaro
  - Kohei Isobe, SECOM
  - Ken Takayama, SECOM
  - Akira Tsukamoto, AIST
List of issues filed

draft-ietf-suit-manifest:
- #65: cbor grammar error on SUIT_Parameters
  - https://github.com/suit-wg/manifest-spec/issues/65
- #66: SUIT_Parameters should be a socket
  - https://github.com/suit-wg/manifest-spec/issues/66
  - https://github.com/suit-wg/manifest-spec/pull/71
- #67: Values of COSE Tagged are undefined in the CDDL
  - https://github.com/suit-wg/manifest-spec/issues/67
  - https://github.com/suit-wg/manifest-spec/pull/68
- #69: suit-text key is wrong in example 2
  - https://github.com/suit-wg/manifest-spec/issues/69
  - https://github.com/suit-wg/manifest-spec/pull/72

draft-ietf-suit-trust-domains (no github repo)
- #70: Key label 7 is conflicted
  - https://github.com/suit-wg/manifest-spec/issues/70

draft-moran-suit-update-management? (github repo but no issue list capability)
- #62: How to use a SUIT_Dependency as content with a media type
  - https://github.com/suit-wg/manifest-spec/issues/62
- #64: SUIT Parameter for manifest sequence number
  - https://github.com/suit-wg/manifest-spec/issues/64

Simple CDDL grammar issues
( shouldn’t need time to discuss here)
#62: SUIT manifest reference in EAT manifests claim

- TEEP’s EAT profile previously used sw-name and sw-version claims, changing to manifests claim for machine readability
- EAT manifests claim allows SUI\textit{T}\_Envelope et al., and is extensible
  - SUI\textit{T}\_Envelope requires a full SUI\textit{T} manifest, not just a reference to it
- Propose:

```manifest-format = [
  content-type: coap-content-format, 
  content-format: JC< $manifest-body-json, $manifest-body-cbor > 
]
```

```$manifest-body-cbor /= bytes .cbor SUI\textit{T}\_Reference
SUI\textit{T}\_Reference = [
  uri: tstr, 
  suit-manifest-sequence-number: uint 

]```

And allocate a \texttt{coap-content-format} value
#64: SUIT Parameter for manifest sequence number

- TEEP QueryResponse now has, in github copy:
  
  ```
  ? tc-list => [ + system-property-claims ],
  ```

- SUIT Report has:

  ```
  system-property-claims = {
    system-component-id => SUIT_Component_Identifier,
    + SUIT_Parameters,
  }
  ```

- SUIT_Parameters has URI, image digest, size, etc. but no manifest sequence number

- Option 1 (TEEP specific): make TEEP QueryResponse use SUIT_Reference
  
  ```
  ? tc-list => [ + SUIT_Reference ],
  ```

- Option 2 (not TEEP specific): add
  
  ```
  $$SUIT_Parameters //= (suit-parameter-manifest-sequence-number => uint)
  ```