

Concise Reference Integrity Manifest - CoRIM

<https://datatracker.ietf.org/doc/draft-ietf-rats-corim/> - draft-ietf-rats-corim-09

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Authors:

Henk Birkholtz , Fraunhofer SIT

Thomas Fossati , Linaro

Yogesh Deshpande, Arm Ltd

Ned Smith, Independent

Wei Pan, Huawei Technologies

Contributors:

Andrew Draper - Independent

Carsten Bormann - Universitat Bremen TZI

Dionna Glaze - Independent

CoRIM Progress - since IETF 123

- **Received good review feedback - see next slide for details**
- **Work Receding as the document is maturing**
 - 13 issues closed
 - 20 PRs merged
 - Feature set is Frozen
- **Feedback from Directorate Reviews (Sec, ART, OPS) awaited**
 - RATS Chairs, can you please initiate the feedback process ?
- **!! Any further Feedback is Welcome !!**

CoRIM Review Feedback

➤ Received valuable feedback from RATS Community

Name of the Reviewer	Tracked at	Current Status
Hannes Tschofenig	Issue 195	Closed
Giri Mandyam	Issue 466 , Issue 468	Closed
Jag Raman	Issue 469	Closed
Jeremy O Donoghue	Issue 493	Closed
Steven Bellock	PR #487	Closed
Michael Richardson	Issue 494	Open
Sergei Trofimov	Issue 506	Open

➤ Incorporating feedback is still a Work In Progress

Key Highlights

- **Support of CWT Claims in COSE Header – see next slide**
- **Clear Diagram to highlight flow of CoRIM Verifier**
- **A lot of document tidy up**
- **Further clarified few Verifier stages – staging area**

Interoperability with other IETF Standards (Ex: SCITT)

- **Current CoRIM Meta Map (inside Protected Header Map of COSE Sign1) contains:**
 1. **Entity or Entities that create & sign the CoRIM**
 2. **Validity of the contents signed by the Entity**
- **The existing CDDL for Protected Header Map has been enhanced:**
 1. **To include CWT Claims (RFC 9597) , pertaining to issuer and subject**
 2. **Validity can be included via Additional data, using exp: and nbf claims**
 3. **Current CDDL supports both legacy meta and new CWT Claims**
 4. **Going forward, CWT Claims is the preferred way**

CWT Claims (inside CoRIM COSE Header)

PREVIOUS

```
protected-corim-header-map = {  
  &(alg: 1) => int  
  &(content-type: 3) => "application/rim+cbor"  
  &(kid: 4) => bstr  
  &(corim-meta: 8) => bstr .cbor corim-meta-map  
  * cose-label => cose-value  
}
```

```
corim-meta-map = {  
  &(signer: 0) => corim-signer-map  
  ? &(signature-validity: 1) => validity-map  
}
```

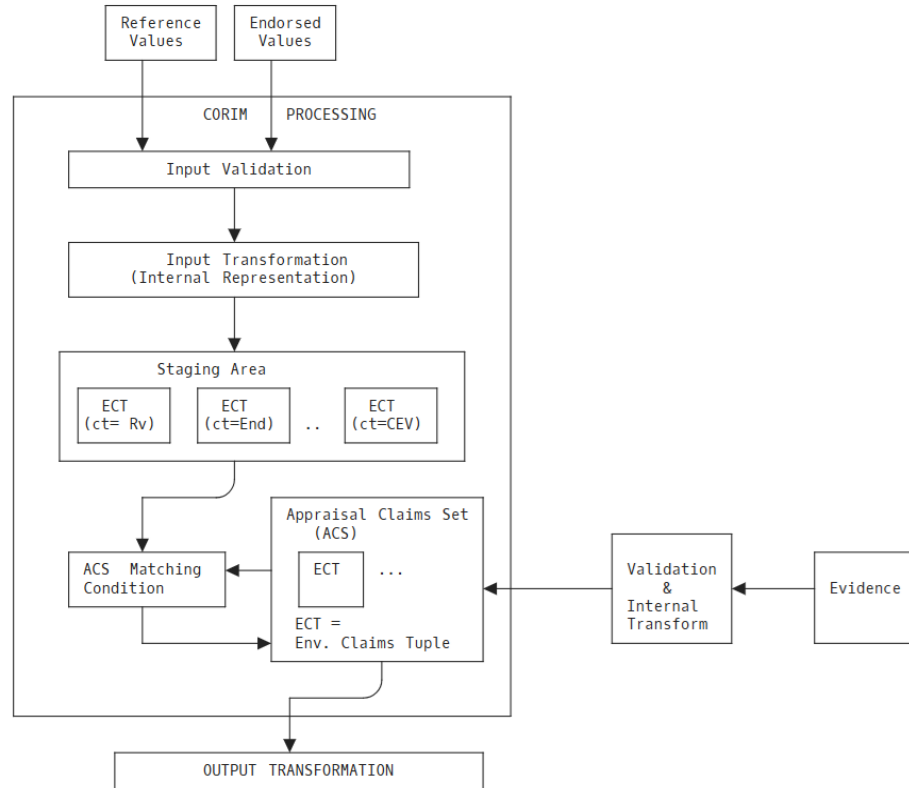
CURRENT

```
protected-corim-header-map =  
  {  
    &(alg: 1) => int,  
    &(content-type: 3) => "application/rim+cbor",  
    meta-group,  
    * cose-label => cose-value  
  }
```

```
meta-group = ((  
  corim-meta-identity,  
  ? cwt-claims-identity,  
  ) // cwt-claims-identity)
```

```
corim-meta-identity =  
(&(corim-meta: 8) => bstr .cbor corim-meta-map)  
cwt-claims-identity =  
(&(CWT-Claims: 15) => cwt-claims)
```

CoRIM Verifier Processing Flow



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 - **Hannes Tschofenig - hannes.tschofenig@gmail.com**
 - **Jag Raman - Jag.Raman@oracle.com**
 - **Steven Bellock - sbellock@nvidia.com**
 - **Michael Richardson - mcr+ietf@sandelman.ca**
 - **Jeremy O Donoghue - jodonogh@qti.qualcomm.com**

THANK YOU

BACK UP SLIDES