

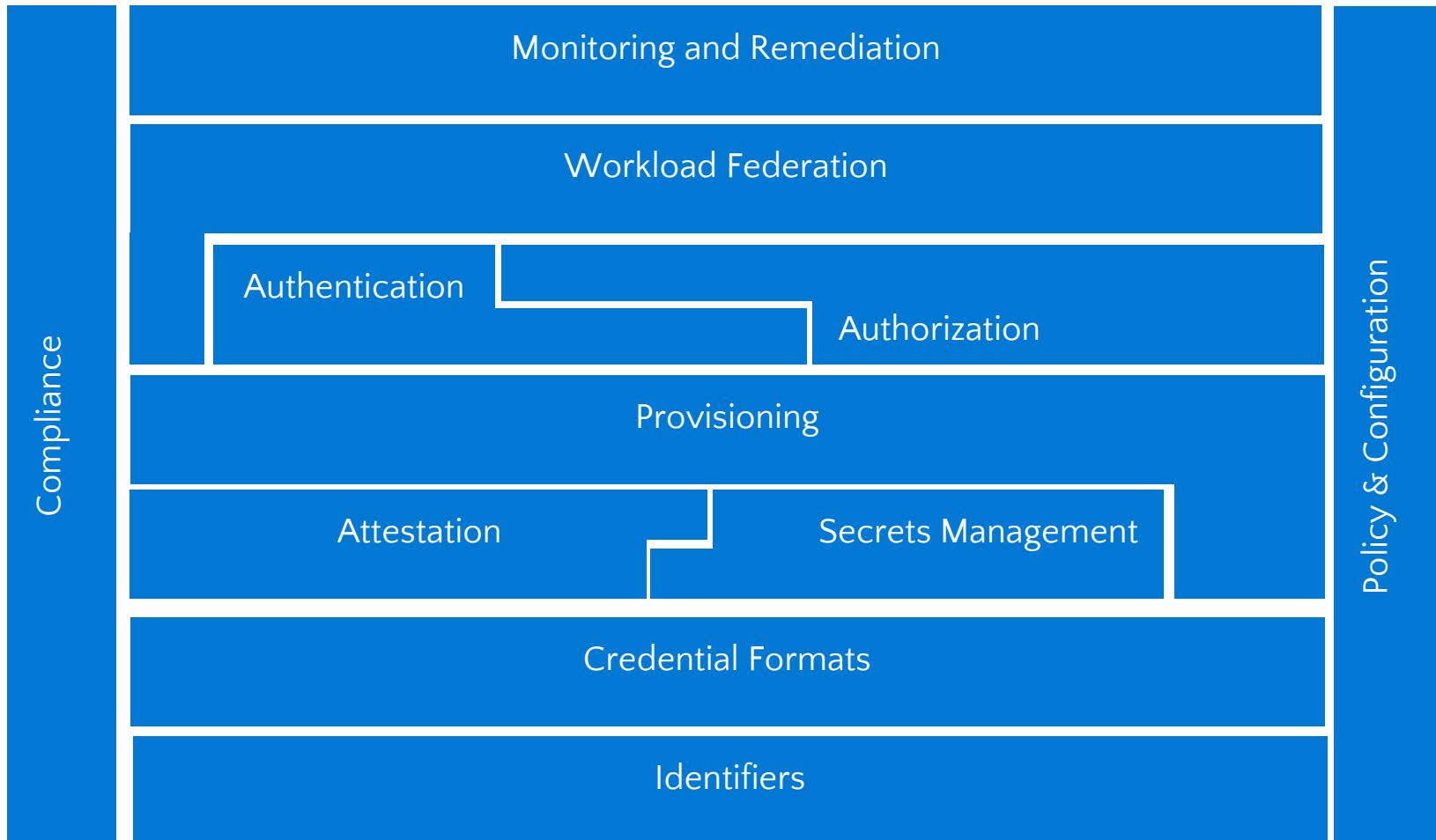
Connecting Identity Ecosystems

IETF 118

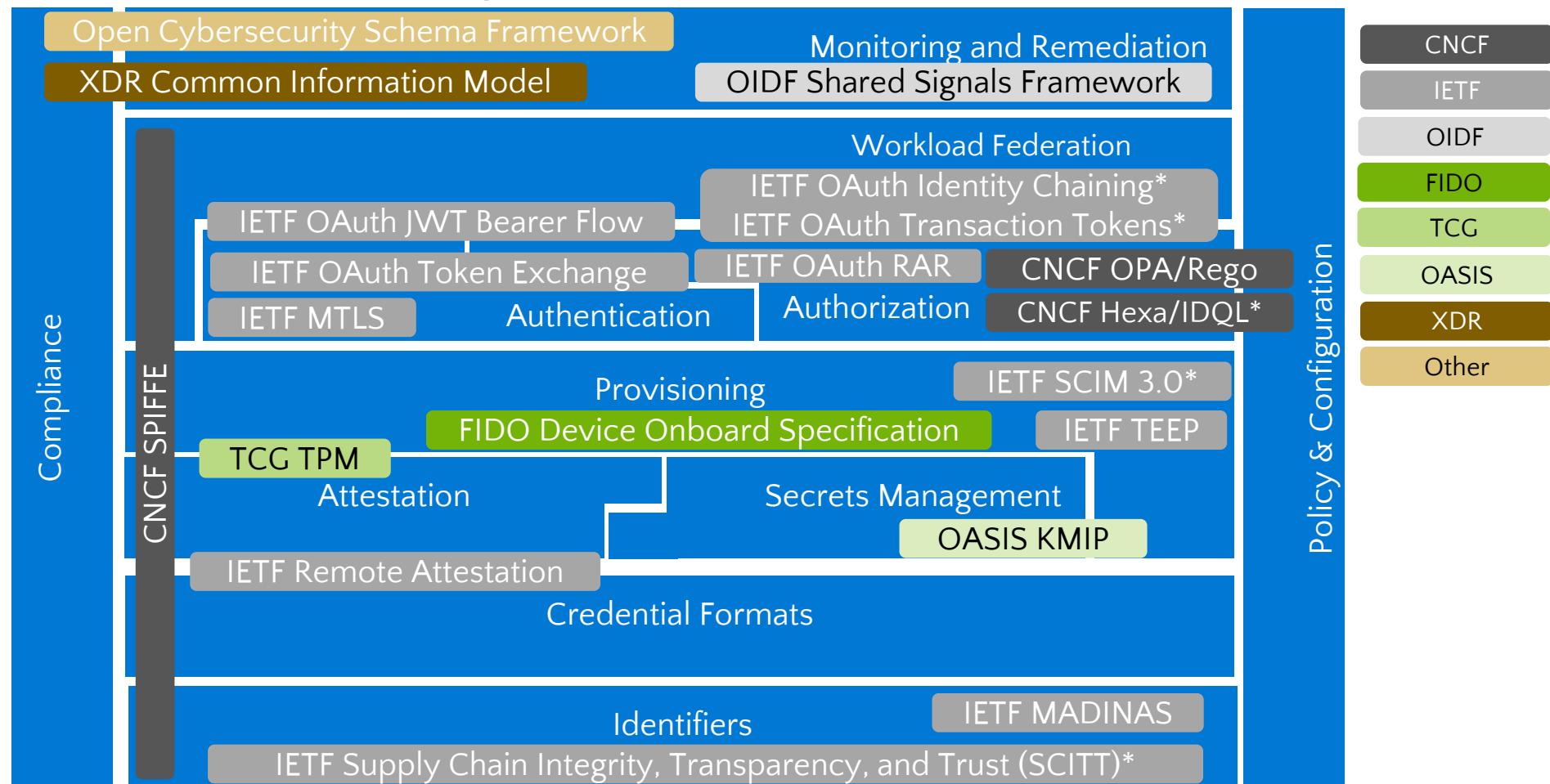
Pieter Kasselman
Workload Identity Enthusiast
Microsoft



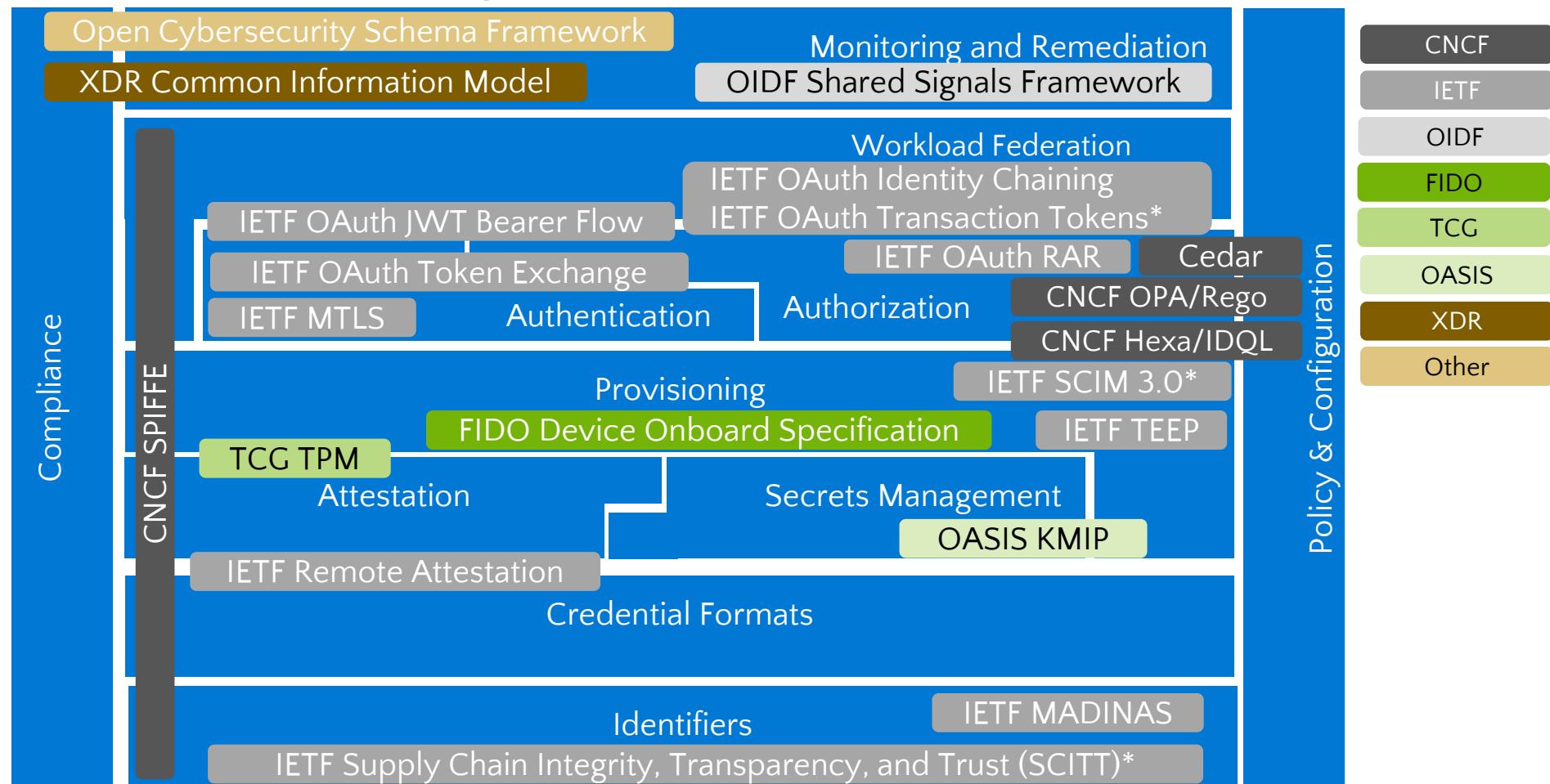
We need standards for....



We are not starting from scratch....



We are not starting from scratch....



But...
mind the gap!



Going End-2-End does not quite line-up...

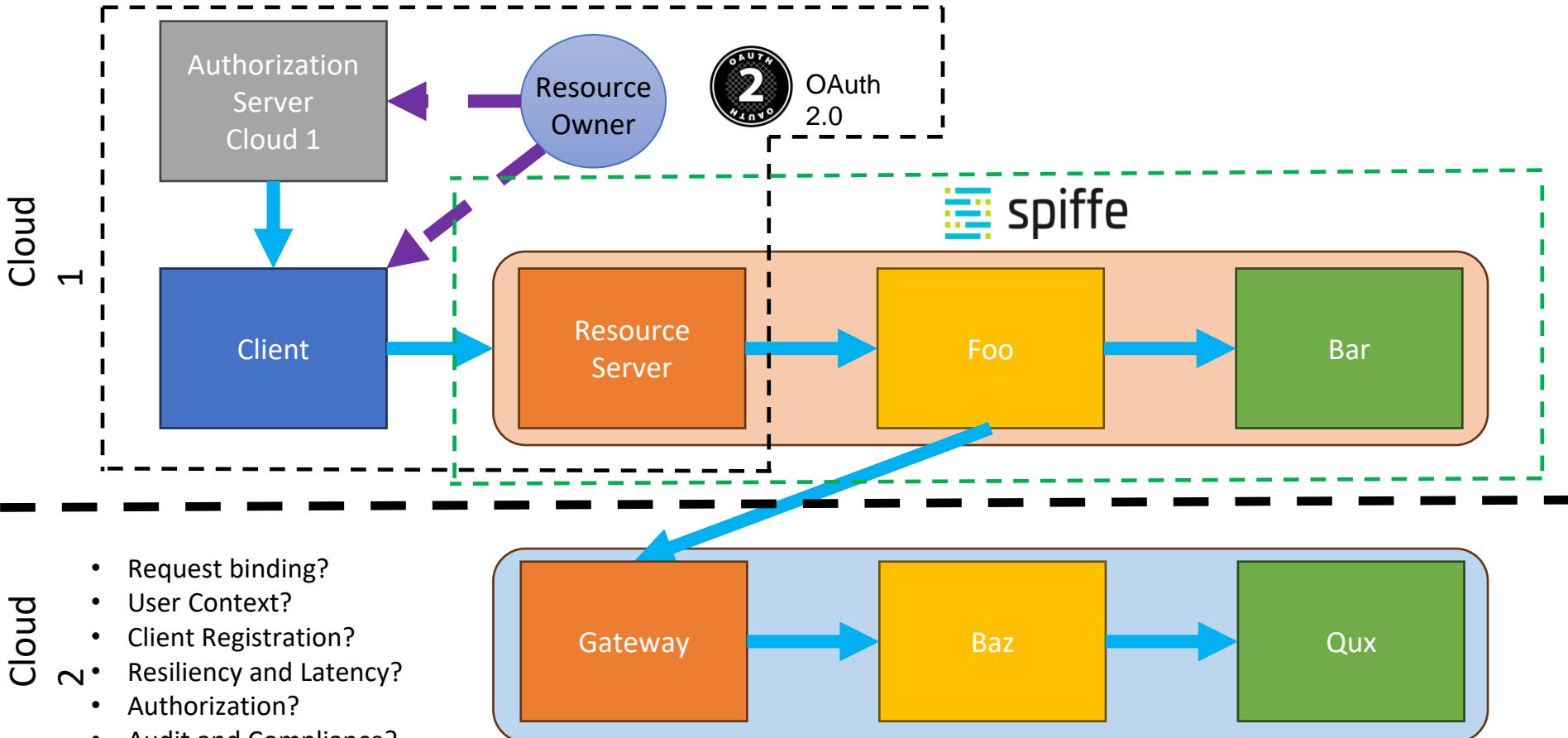
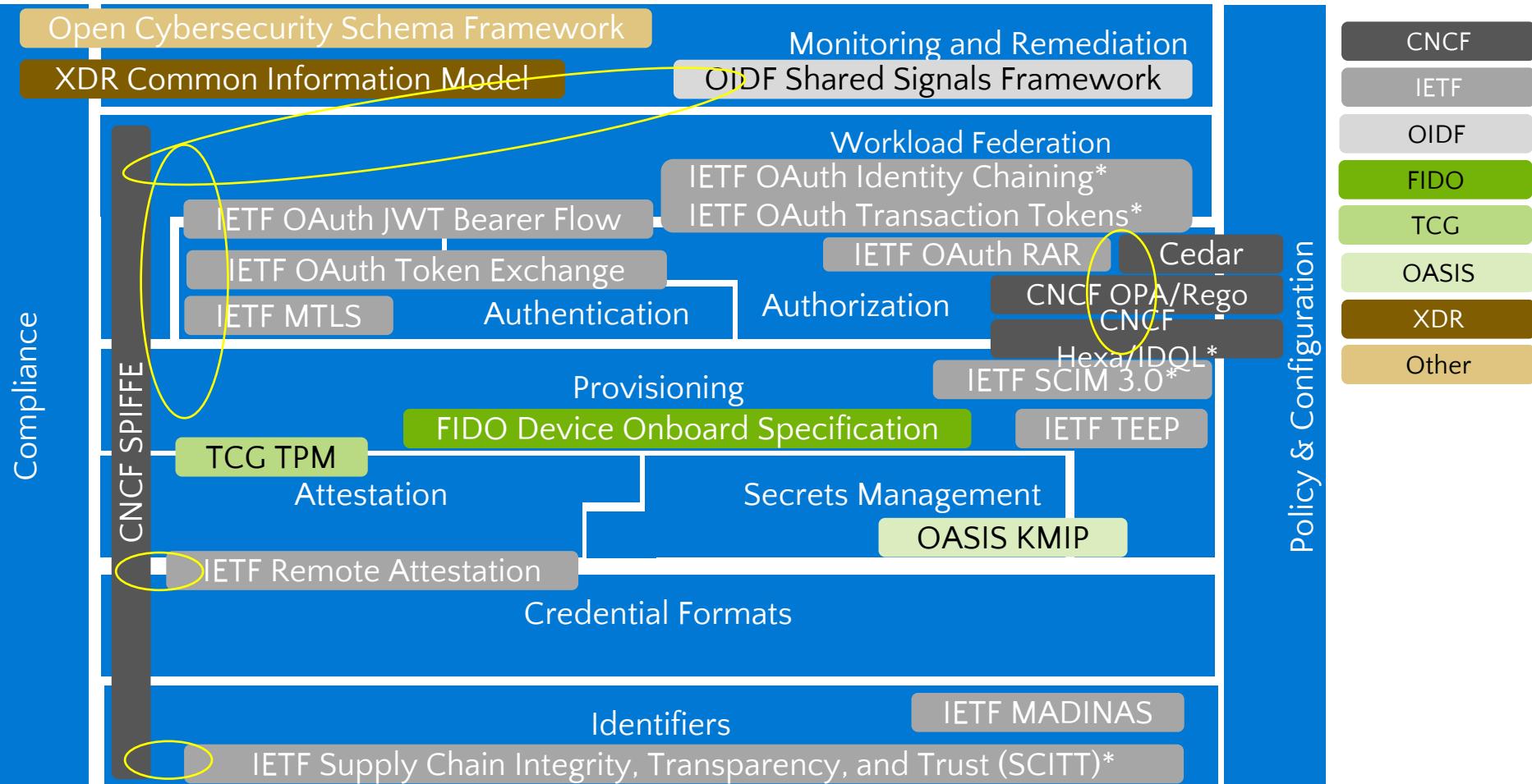


Image Courtesy Justin Richer
(@jricher) [@jricher](https://github.com/jricher)

Connecting standards... And eco systems...



Example: Request Binding

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Evan Gilman
SPIFFE/SPIRE Contributor
SPIRL



Typical workload JWT

```
{  
  "iss": "https://optional_oidc_compatible.example.com"  
  "sub": "some_meaningful_workload_identifier",  
  "aud": ["some_meaningful_workload_identifier"],  
  "iat": $(now)  
  "exp": $(now + 5m),  
}
```

DPoP proof example from spec

```
{  
    "typ": "dpop+jwt",  
    "alg": "ES256",  
    "jwk": {  
        "kty": "EC",  
        "x": "l8tFrhx-34tV3hRICRDY9zCkDlpBhF42UQUfWVAWBFs",  
        "y": "9VE4jf_0k_o64zbTTlcuNJajHmt6v9TDVrxU0CdvGRDA",  
        "crv": "P-256"  
    }  
}  
.  
{  
    "jti": "e1j3V_bKic8-LAEB",  
    "htm": "GET",  
    "htu": "https://resource.example.org/protectedresource",  
    "iat": 1562262618,  
    "ath": "fUHy02r2Z3DZ53EsNrWBb0xWXoaNy59IiKCAqksmQEo"  
}
```

DPoP proof example from spec

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{  
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    "jwk": {  
        "kty": "EC",  
        "x": "l8tFrhx-34tV3hRICRDY9zCkDlpBhF42UQUfWVAWBFs",  
        "y": "9VE4jf_0k_o64zbTTlcuNJaJHmt6v9TDVrU0CdvgRDA",  
        "crv": "P-256"  
    }  
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    "iat": 1562262618,  
    "ath": "fUHy02r2Z3DZ53EsNrWBb0xWXoaNy59IiKCAqksmQEo"  
}
```

~incompatible w/ workload auth

do we need a new spec?