Supply Chain Integrity, Transparency, and Trust (SCITT)

ANSI Microelectronics Standards Briefings | 30 September 2022

brian.knight@microsoft.com

Supply Chain Integrity, Transparency, and Trust (SCITT)

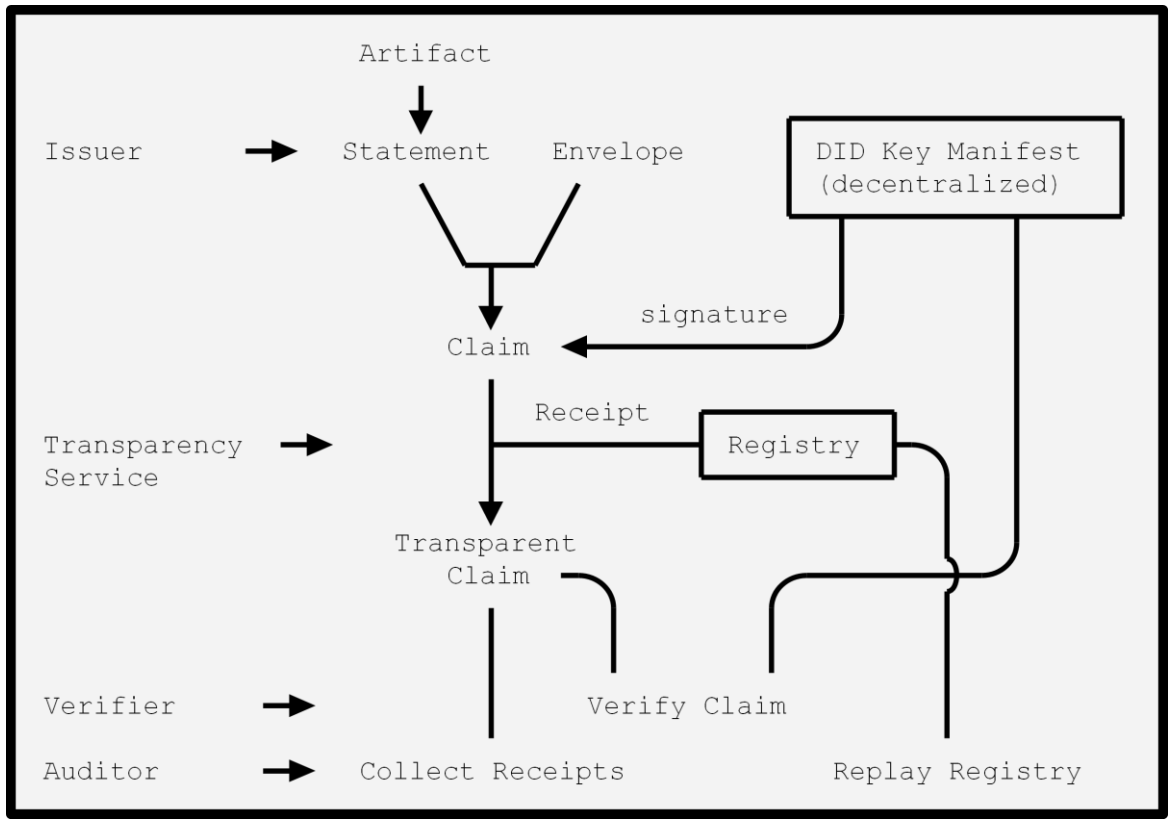
- The SCITT initiative aims to define industry standards for managing the compliance of goods and services across end-to-end supply chains
- A generic scenario for SCITT includes the following personas:
  - Policy Managers
  - Producers
  - Auditors
  - Consumers
- A key goal is to promote interoperability, simplify, and automate this workflow

SCITT: Standard Components

Issuer Identification (re-using DID)

Formats for Signed Claims (using CBOR and COSE)

Claim Endorsements



Registration Policies

Algorithms for Transparent Registry (Merkle trees)

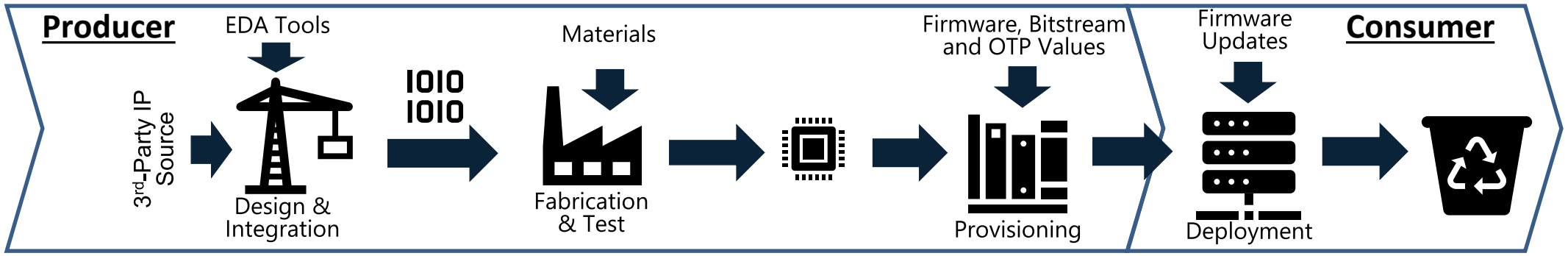
Formats for Receipts

Auditing

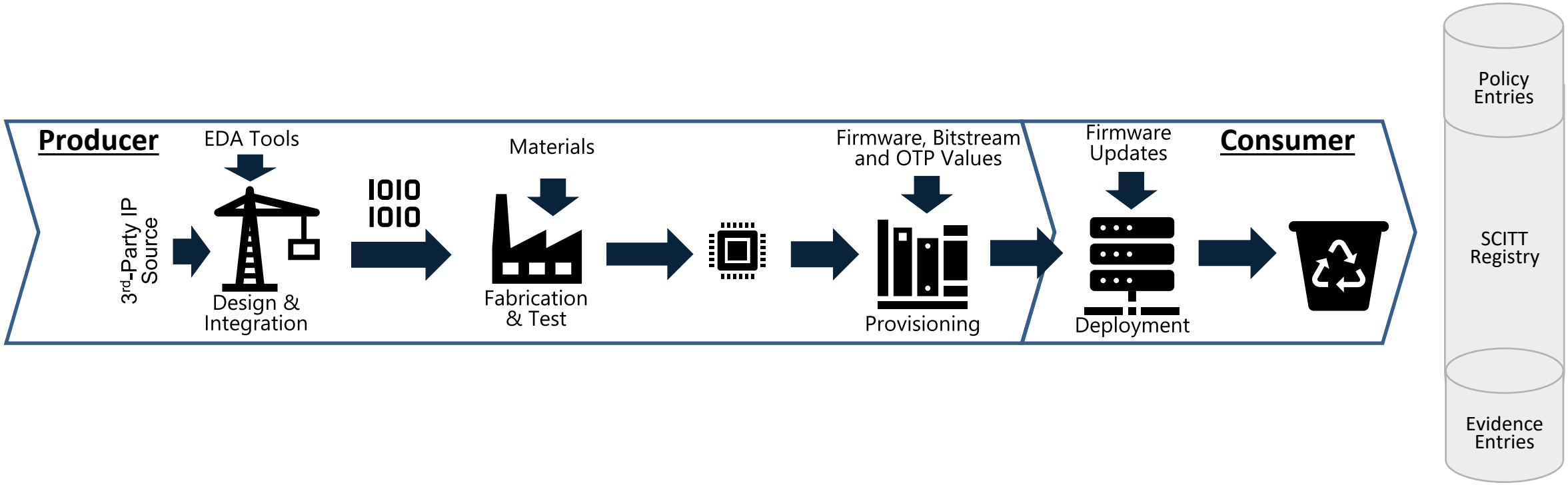
Goal of SCITT is to simplify and standardize these interactions

An Architecture for Trustworthy and Transparent Digital Supply Chains
Countersigning COSE Envelopes in Transparency Services

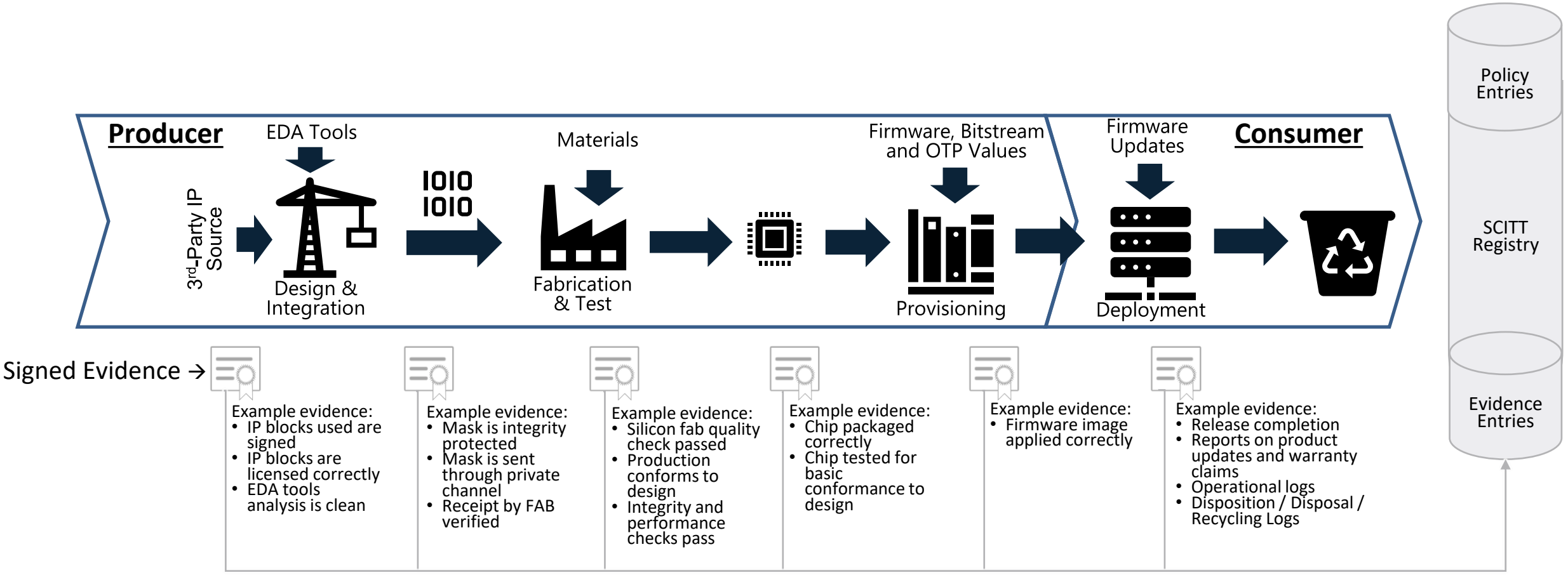
SCITT Example: Microelectronics



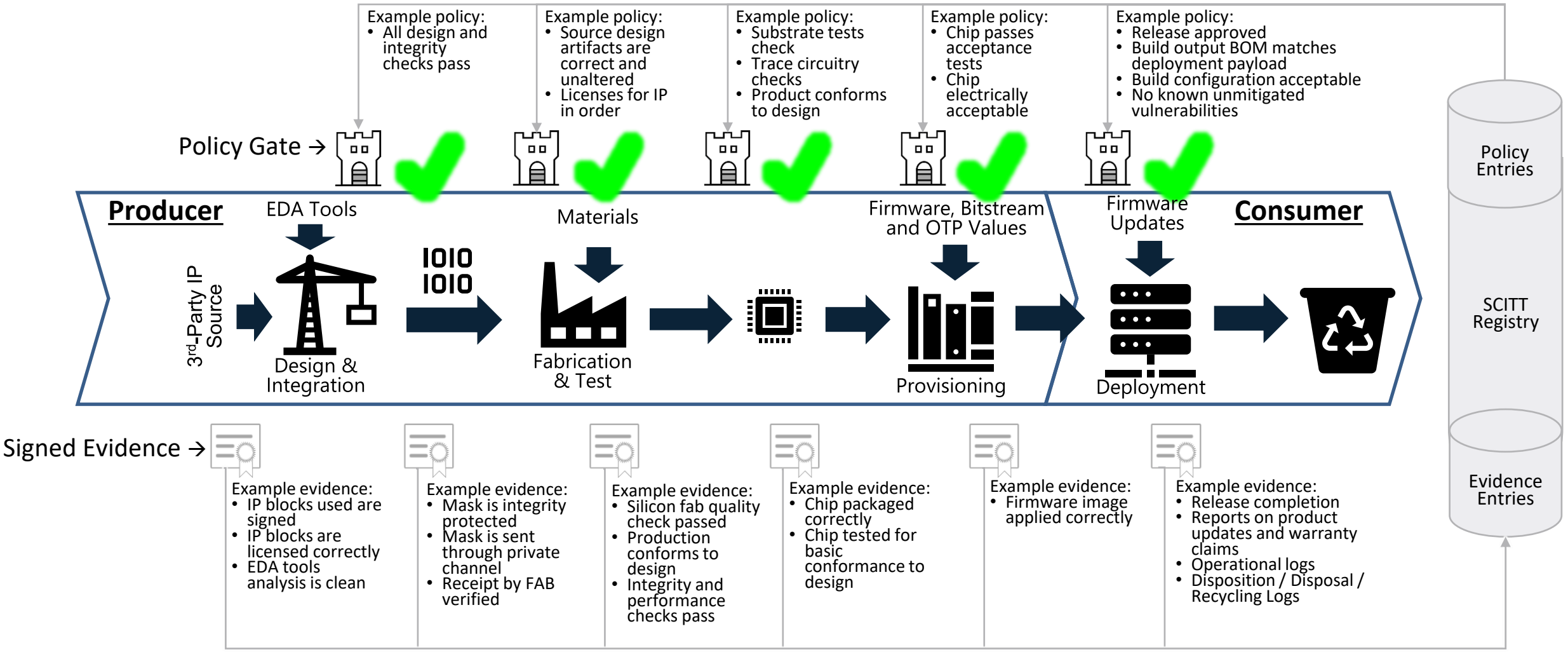
SCITT Example: Microelectronics



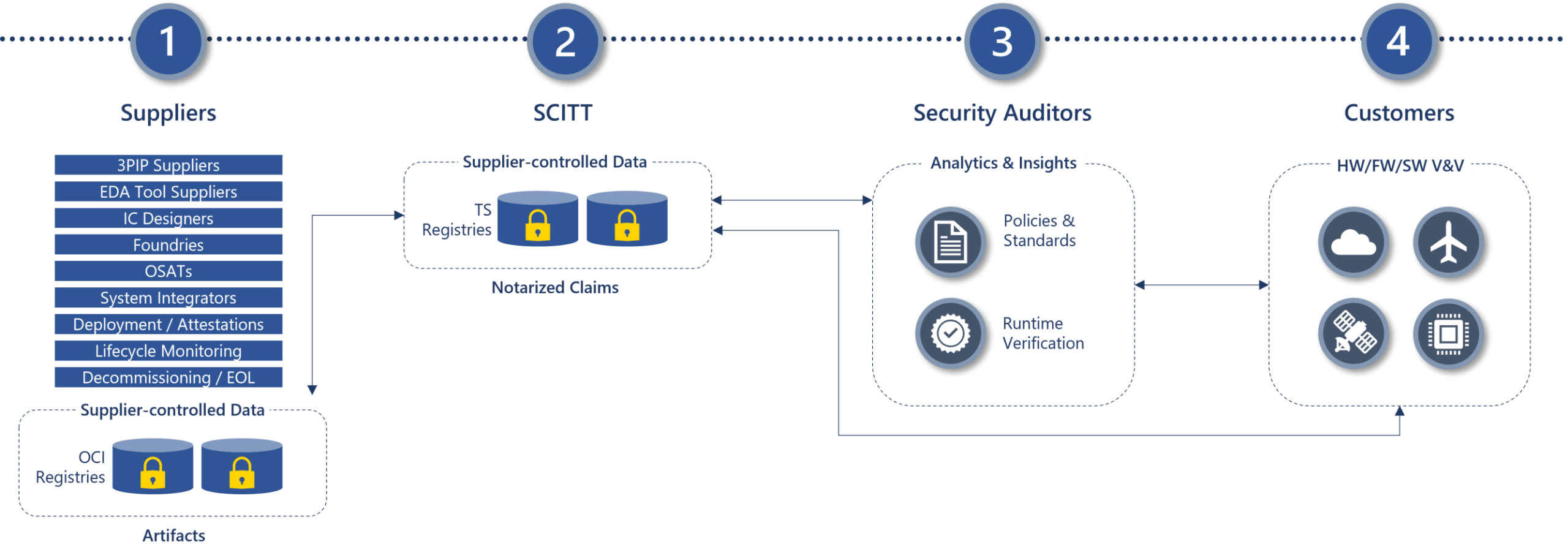
SCITT Example: Microelectronics



SCITT Example: Microelectronics



SCITT Example: Microelectronics



More Information

- IETF SCITT: https://datatracker.ietf.org/group/scitt
  - An Architecture for Trustworthy and Transparent Digital Supply Chains: https://datatracker.ietf.org/doc/draft-birkholz-scitt-architecture/
  - Countersigning COSE Envelopes in Transparency Services https://datatracker.ietf.org/doc/draft-birkholz-scitt-receipts/
- GitHub: https://github.com/ietf-scitt/
  - Join the SCITT mailing list at https://www.ietf.org/mailman/listinfo/Scitt
  - SCITT general meetings are held each Monday at 8 AM Pacific.
    - Meeting agenda, minutes and video links here
    - Meeting link: https://armltd.zoom.us/j/99133885299?pwd=b0w4aGorRkpjL3ZHa2NPSmRiNHpXUT09
    - Meeting id: 991 3388 5299
    - Meeting passcode: 531470

Join us @ IETF 115 London, 5 November – 11 November