Open Footprint™ Forum
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Open Footprint™ Reference Architecture
Reference architecture, data entry & reporting

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Technology Architecture
- Principles
- Data platform architecture
- User interface & reports architecture

User Interface Design
- Personas & user flows
- Data entry & reporting
- Dashboard

Key contributions from: IBM, Infosys, Shell, Wipro
Open Footprint: Objective (recap)

Challenge: Lack of standards for storing, defining, accessing and exchanging Green House Gasses (GHG) scope data, esp. across a supply chain

» The Open Footprint (OFP) Forum provides an environment for access to one set of standards across ALL INDUSTRIES
  – One flexible data platform
  – One set of data definitions
  – One set of meta data definitions
  – One API (Application Program Interface) to access the data

» The Open Footprint is more than a set of standards. It is also
  – A Reference Architecture
  – A Reference Implementation
Technology Architecture
The Open Footprint platform is based on open-source, vendor neutral components *(in-line with the principles of Open Group)*.

- Open Footprint architecture leverages OSDU™ data platform architecture.
- The instantiation of first MVP version was accelerated by reusing OSDU™ data platform deployment architecture and installation scripts.
- The Open Footprint Platform (OFP) can be deployed on any infrastructure of choice.
- MVP 1.0 is implemented on IBM’s/Red Hat’s OpenShift® (open source) hybrid cloud, enterprise container platform *(for more info: https://www.okd.io/)*.
Data Platform Architecture

- Competitive area: Develop/Select own apps and user interfaces
- Can be deployed as private, shared or public (No default data sharing)
- Can be deployed using any technology as long as complaint with standards
- Can be deployed by any partner

- Open Source driven
- Data access using public APIs
- (Near) Realtime focus
- Micro Services based
- Orchestration services focus
- Third party apps via Marketplace
- Large user numbers connecting using own apps
- The Open Footprint Platform (OFP) can be deployed on any infrastructure of choice (as long as compliant with standards)