IRM in the Wild

A Look At IRM in the Wild

The following table is a working document which reflects the various "IRM in the Wild" use cases the IRM WG is discussing and how each applies to the IRM Principles as they are currently defined.

Use/Business Cases Explored

Principles	Migration	IoT			Connected Road to /from Car	DNS	Block Cha (e.g., One NameCoi
		SalesForce	Strong Device Identity (SDID) - **Low** Computing Power	SDID - **High** Computing Power			
Is there a role for a Relationship Manager?	Yes	Yes	Yes	Yes	Yes		
Scalable	FULLY	PARTIAL *Reality of IoT* *Raw device data stream, vs. identity (asset token)*	FULLY Has to be	FULLY *Has to be*	PARTIAL *Yes - Road handles multiple cars but traffic and road usage is applied*	FULLY *v4, v6*	FU
Actionable	PARTIAL	FULLY *By the nature of the of the asset token and platform*	PARTIAL	FULLY	FULLY	FULLY *IANA, Registration*	PAR
(Im)Mutable	PARTIAL	FULLY *Depends on info available from the device*	PARTIAL	FULLY	Push - TBD	FULLY *Immutable/Proxy /Forwarding*	FU
Contextual	FULLY	FULLY *Depends on constraints of the device* *Nothing that excludes this*	FULLY	FULLY	FULLY	FULLY *Actually provides context*	PAR
Transferrable (Delegation)	NONE	PARTIAL *As token of "agency"* *Need to re-mint token (new JWT)*	PARTIAL *In terms of Ownership NOT Identity Change (Change vs. Transfer)*	PARTIAL *In terms of Ownership NOT Identity Change (C hange vs. Transfer)*	NONE - Today PARTIAL - in the Future - when automated vehicles are on the roads	FULLY *Bought, Forwarded*	FU
Provable	PARTIAL	FULLY *If HoK (signed JWT via JOSE)*	PARTIAL *Requires gateway*	FULLY	FULLY	FULLY *w/HTTPS DNSSEC*	FU
Acknowledgable	PARTIAL	FULLY *Allows it to be assigned, you can show this*	PARTIAL *As capable as the device is*	FULLY	FULLY	FULLY *NMAP, other*	FU
Revocable	PARTIAL	FULLY *Delete the token, there is an endpoint for access token status*	NONE	FULLY	FULLY	PARTIAL	FU (although ch for the right- forgotten)
Constrainable	PARTIAL	PARTIAL *From the device perspective - not referring to back-end*	PARTIAL *Difficult to add constraints - limited options*	FULLY	PARTIAL	FULLY *Subnets, Domains, etc.*	FU

Architecture Notions

Notion	Notes/Comments
Scope it/ Profile	
Bounded for use/links to the real world	SAML, UMA?
Are components a viable approach?	OAuth/JWTs OpenID Connect
At the IdP layer as backend or data store, "contextual identity store"	Can't change the apps Hack the IdP Hack the manager be it the IdP or the AS Is it a rule generator? "Contextual claims compiler" Co-opt the IdP
Human Understandable	
Are there simplifying assumptions?	
IRM provides the context for AuthZ?	
Build up the attributes from IdP in order to meet need for a claim	
Semantic aspects	
Autonomous	
Distributed Ledgers	