

Solid Community meeting: Mobility use cases - Technical view

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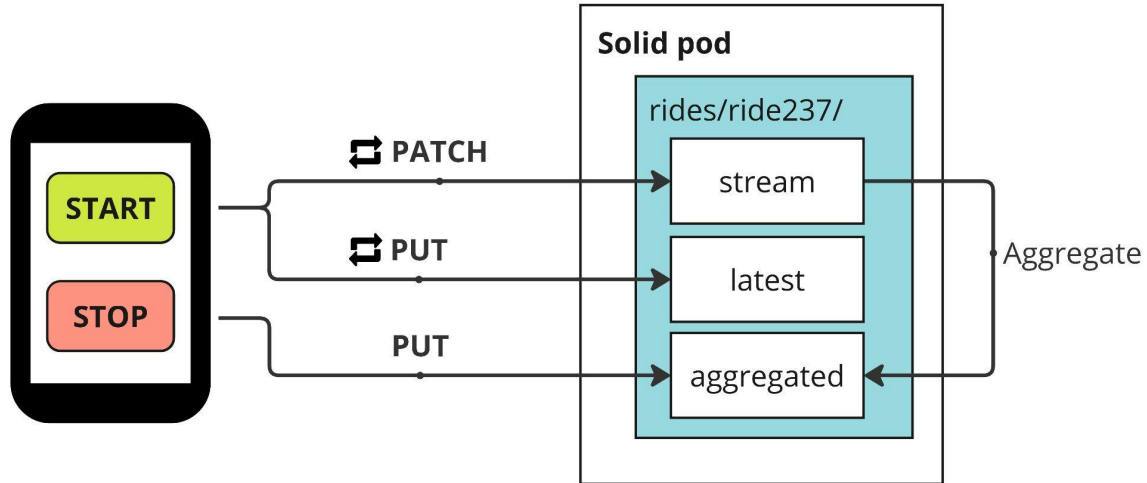
Solid Protocol Basics

The Solid Protocol is build on several Web Standards providing control over resources on the web

- **Interface:** data exchange via HTTPS following the **Linked Data Platform (LDP)** standard
- **Identity: WebID** defines the identity document
- **Authentication:** via **Solid-OpenID Connect (Solid-OIDC)**
- **Authorization (access control)**
 - Via **Access Control Lists (ACLs)** using the **Web Access Control (WAC)** specification
 - Via **Access Control Resources (ACRs)** using the **Access Control Protocol (ACP)**

Use Case 1 - Automating Cycling Reimbursements

- On start
 - Create new ride
 - Update stream continuous
 - Overwrite last location
- On stop
 - Create aggregation
 - Store aggregation in ride
- Authorization
 - Using ACL / ACP
 - Per ride or per component of a ride
 - In the future: using Open Digital Right Language (ODRL) policies
 - Express elaborate constraints + usage requirements





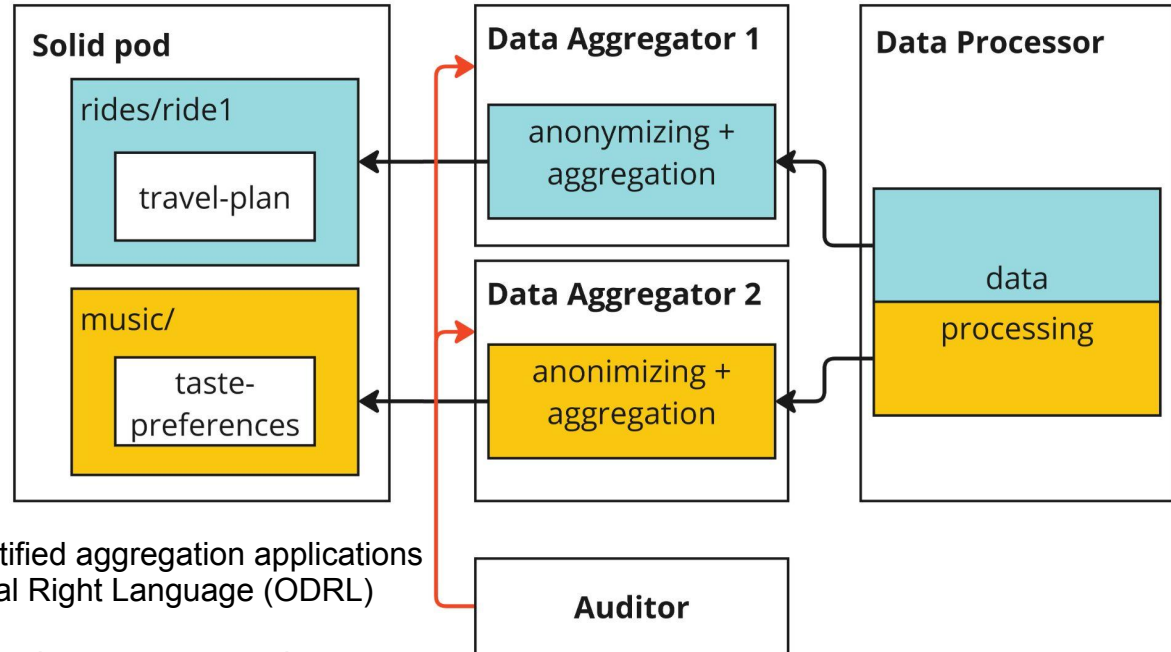
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Use Case 2 - Event-based Traffic Management

- Store data in pod
- Aggregator
 - Anonymization
 - Aggregation
 - Auditing
- Processor
 - Query aggregators
 - Actionable insights
- Authorization
 - Using ACP
 - Constrain access to certified aggregation applications
 - In the future: using Open Digital Right Language (ODRL) policies
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Use Case 3 - Digital Driver's License

- Data is shared as VCs
 - Government is issuer
 - Citizen is holder
- Car needs access to your pod
 - Get ID from biometrics
 - Can map ID to drivers license
 - Can check signatures and revocation list
- Invisible for Government
 - Car can renew government Key at intervals
 - Cache key and revocation list for offline checking

