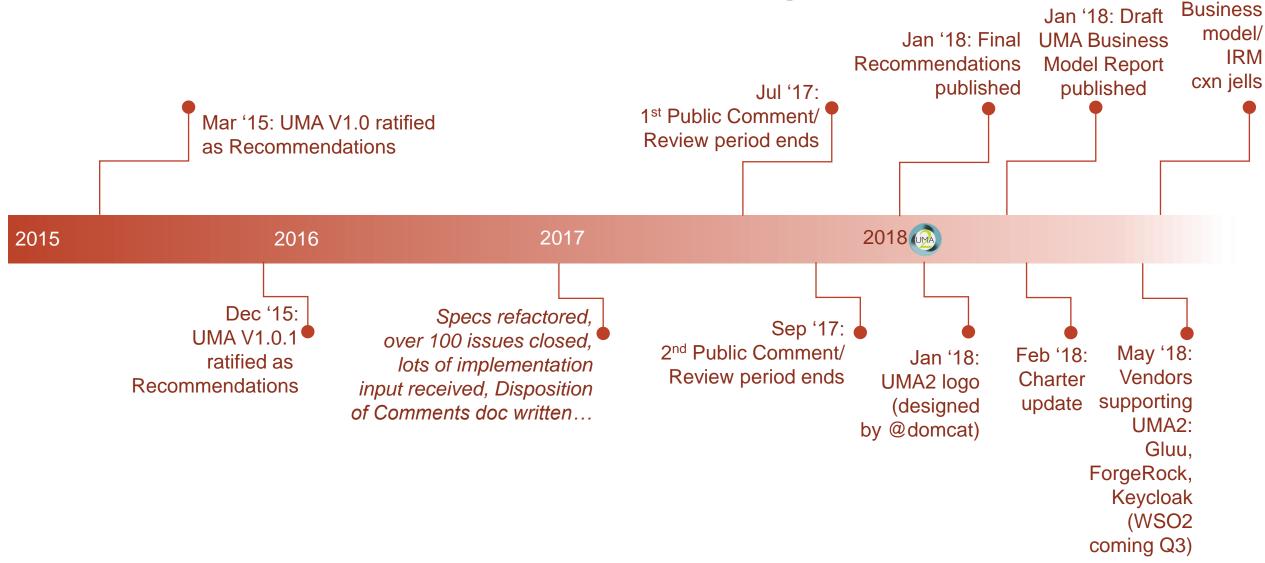


User-Managed Access has important implications for those facing regulatory pressures around data protection, market pressures around consumer trust, and architectural pressures around API protection.

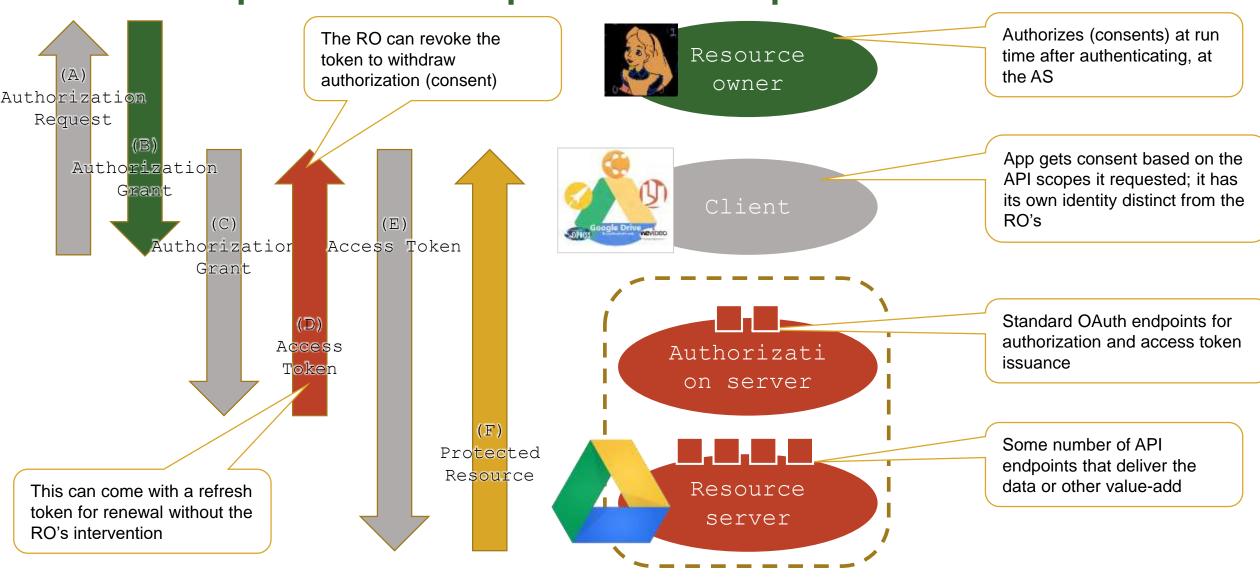
The following slides will offer a very high level overview of the context, purpose, structure, and flows of the UMA 2.0 protocol, including its OAuth2 extension grant and its federated authorization API.

The UMA standard's progress

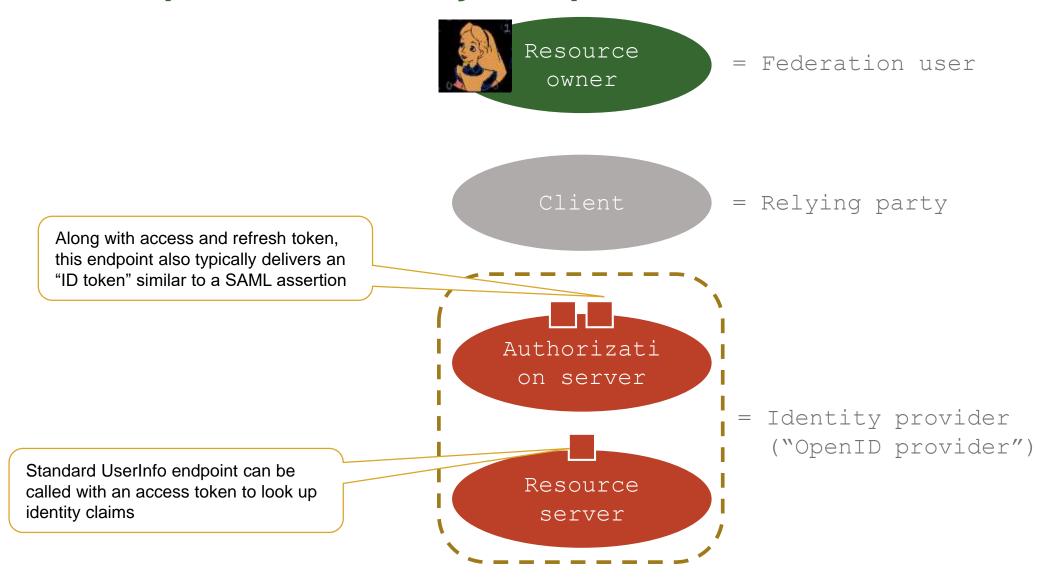


Jun '18:

OAuth is for constrained delegation to apps It has helped to kill the "password anti-pattern"



OpenID Connect does modern-day federation It is an OAuth-protected identity API, plus a bit more

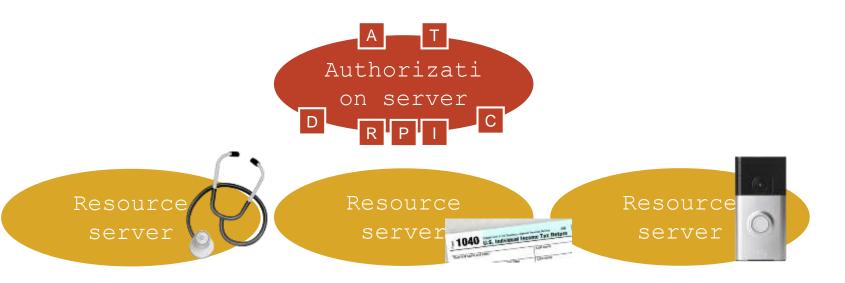


User-Managed Access is for cross-party sharing UMA brings next-gen delegation and consent to OAuth





Client

















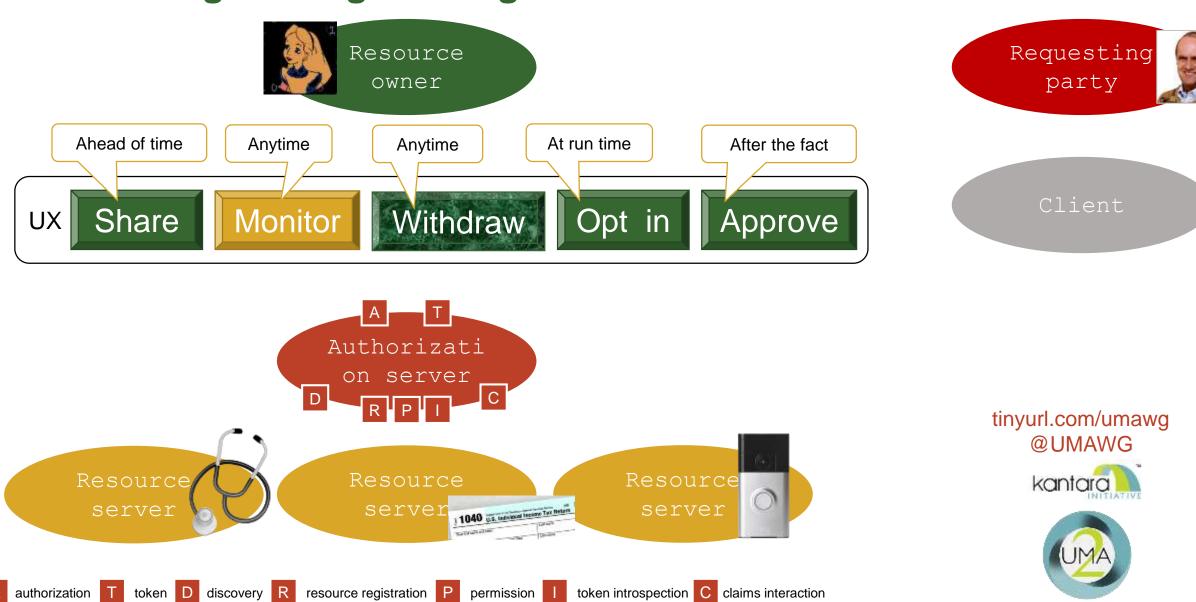








User-Managed Access is for cross-party sharing UMA brings next-gen delegation and consent to OAuth



Like OpenID Connect for *identity*, UMA adds an API access management layer to OAuth2

Some use cases for UMA:

- Enterprise API protection
- For financial consumers
 - Discovering and aggregating UK pension accounts and sharing access to financial advisors
- In industrial and consumer IoT
 - For proactively or dynamically sharing smart device control or data with others
- Healthcare
 - As profiled in the Health Relationship Trust (HEART) WG at OpenID Foundation
 - Part of the new OpenMedReady framework for trustworthy remote care



Alongside Open APIs, UMA would enable consumers to have full control of who can access their data and for how long – granting access for example, to their financial adviser or the Single Financial Guidance Body – as well as the ability to revoke access and for security to be in place to prove who is accessing the data. The UMA approach to security and consent is also well aligned with the requirements of GDPR (General Data Protection Regulations).





To sum up: UMA enhances OAuth as follows

The UMA2 Grant spec adds to OAuth2

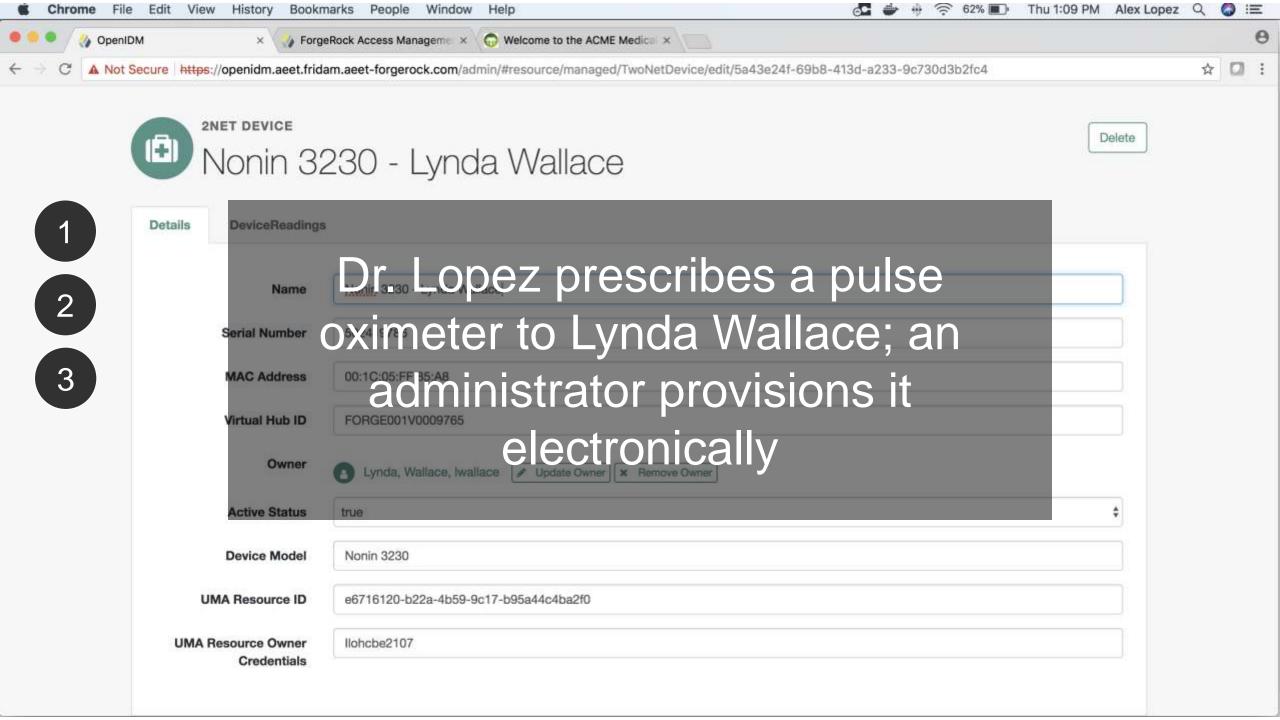
- The resource owner authorizes protected resource access to clients used by entities that are in a requesting party role. This enables party-to-party authorization, rather than authorization of application access alone.
- The authorization server and resource server interact with the client and requesting party in a way that is asynchronous with respect to resource owner interactions.
- This lets a resource owner configure an authorization server with policy conditions at will, rather than authorizing access token issuance synchronously just after authenticating.

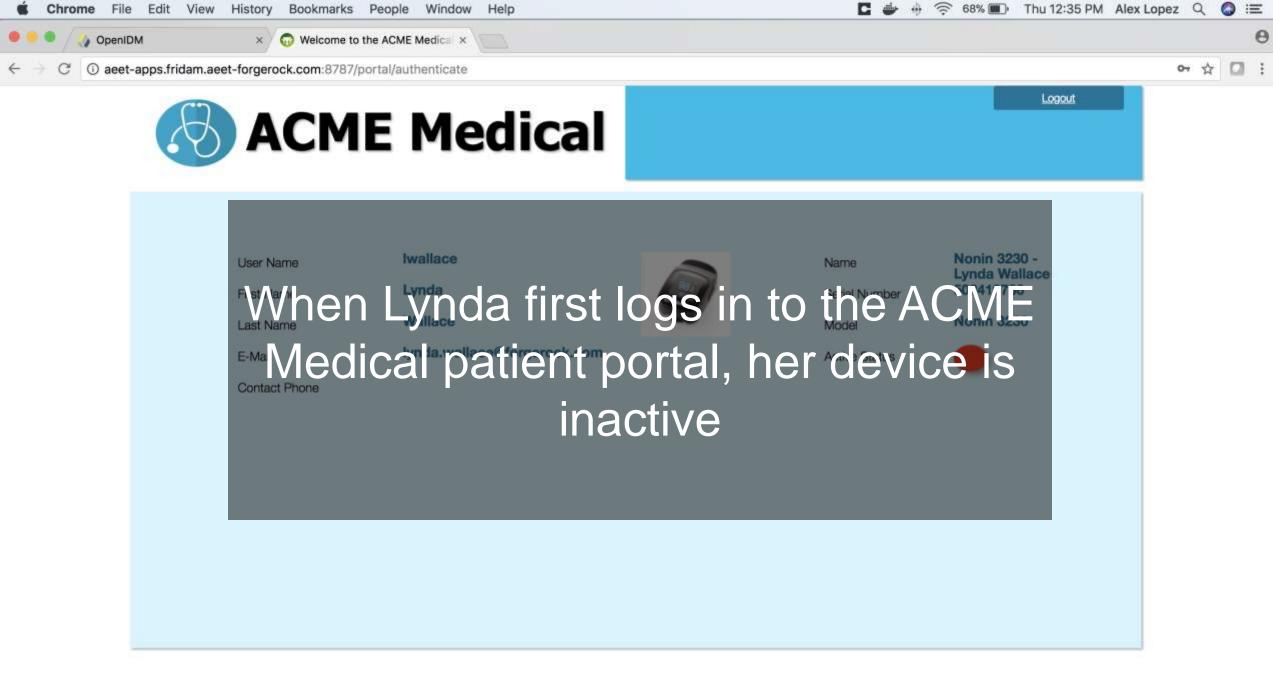
The UMA2 Federated Authorization spec adds to the UMA2 Grant

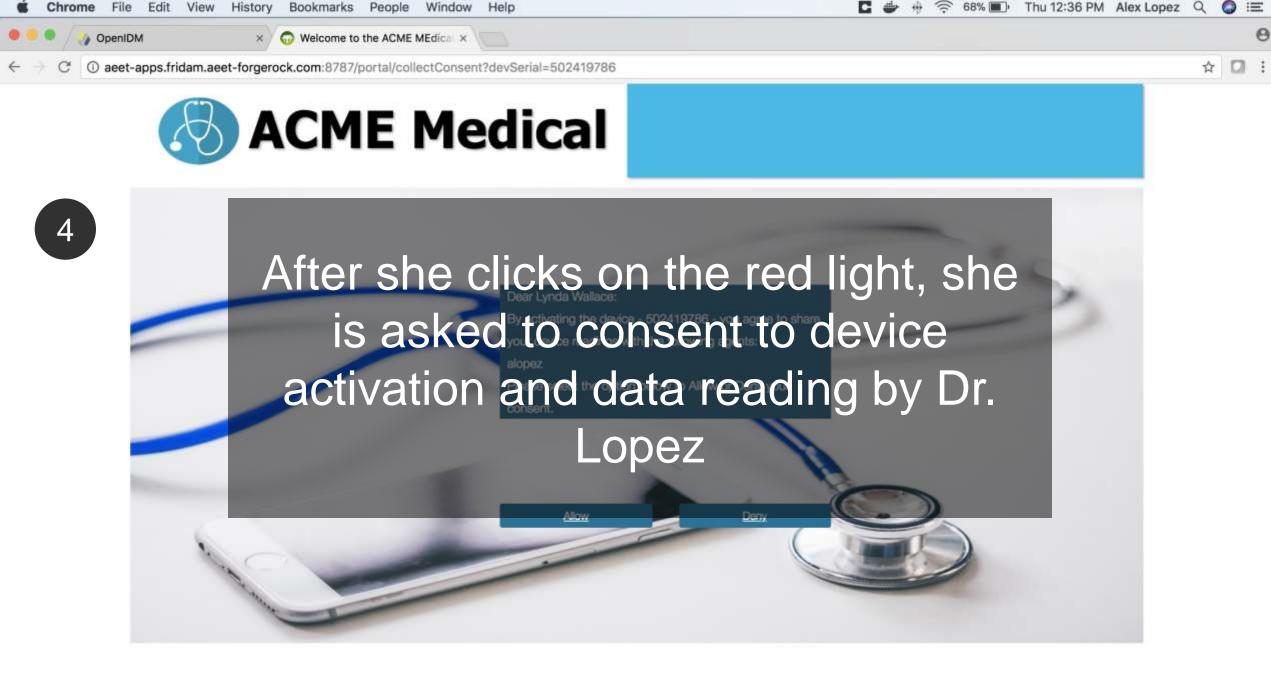
- Multiple resource servers operating in different domains can communicate with a single authorization server operating in yet another domain that acts on behalf of a resource owner.
- A service ecosystem can thus automate resource protection, and the resource owner can monitor and control authorization grant rules through the authorization server over time.
- Authorization grants can increase and decrease at the level of individual resources and scopes.

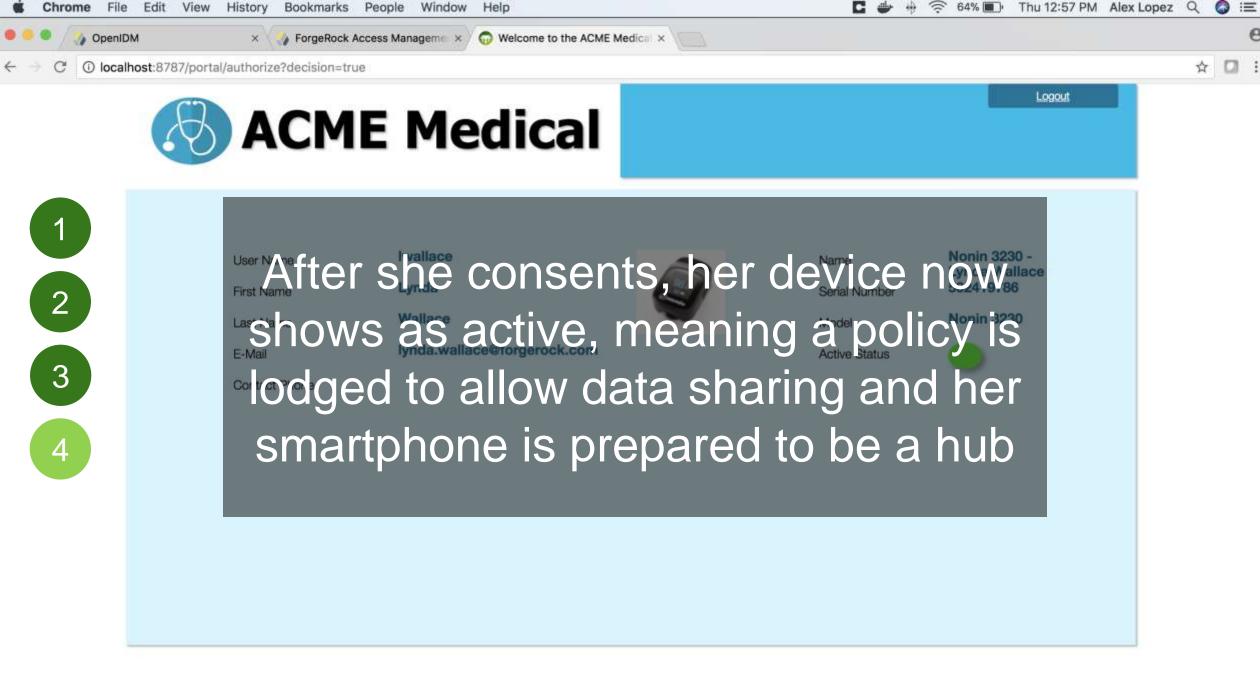


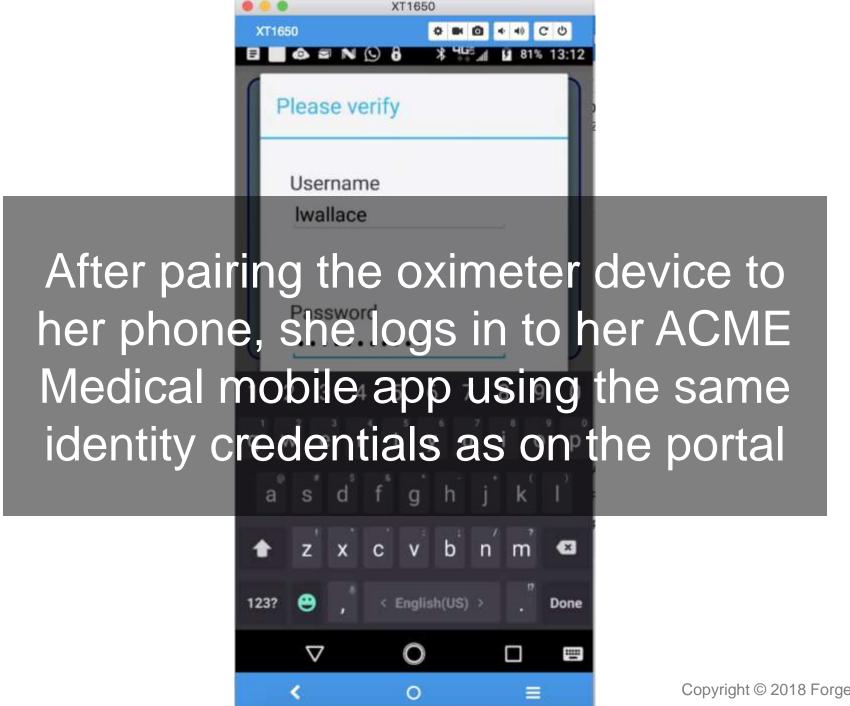


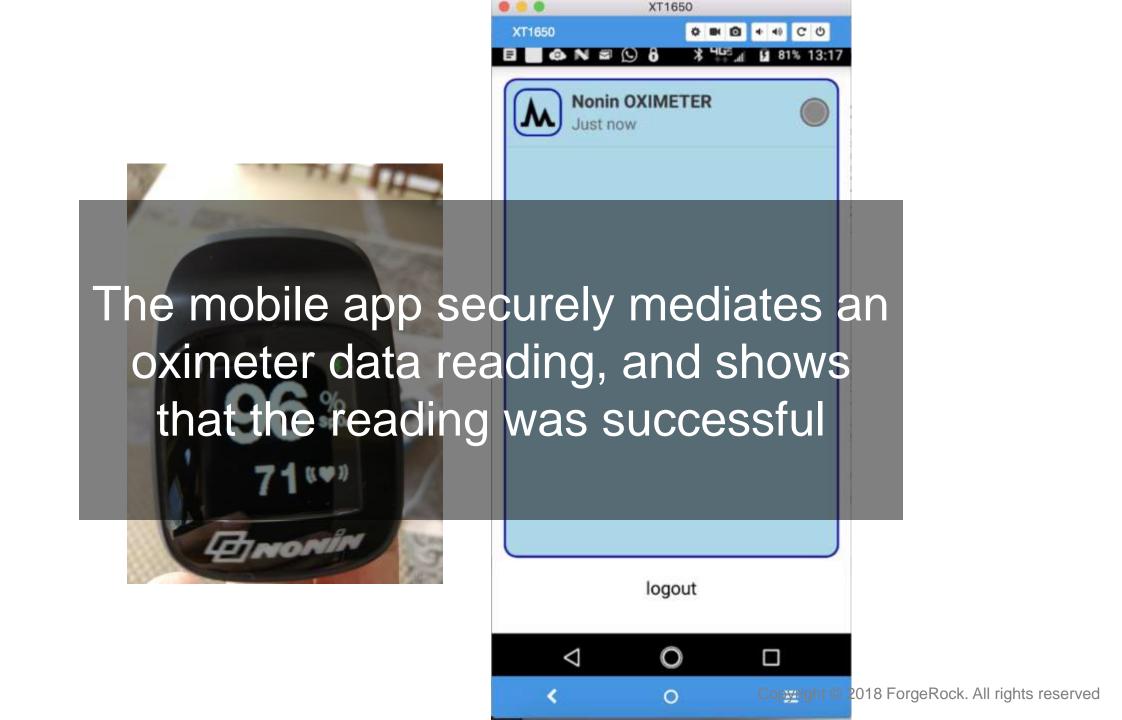


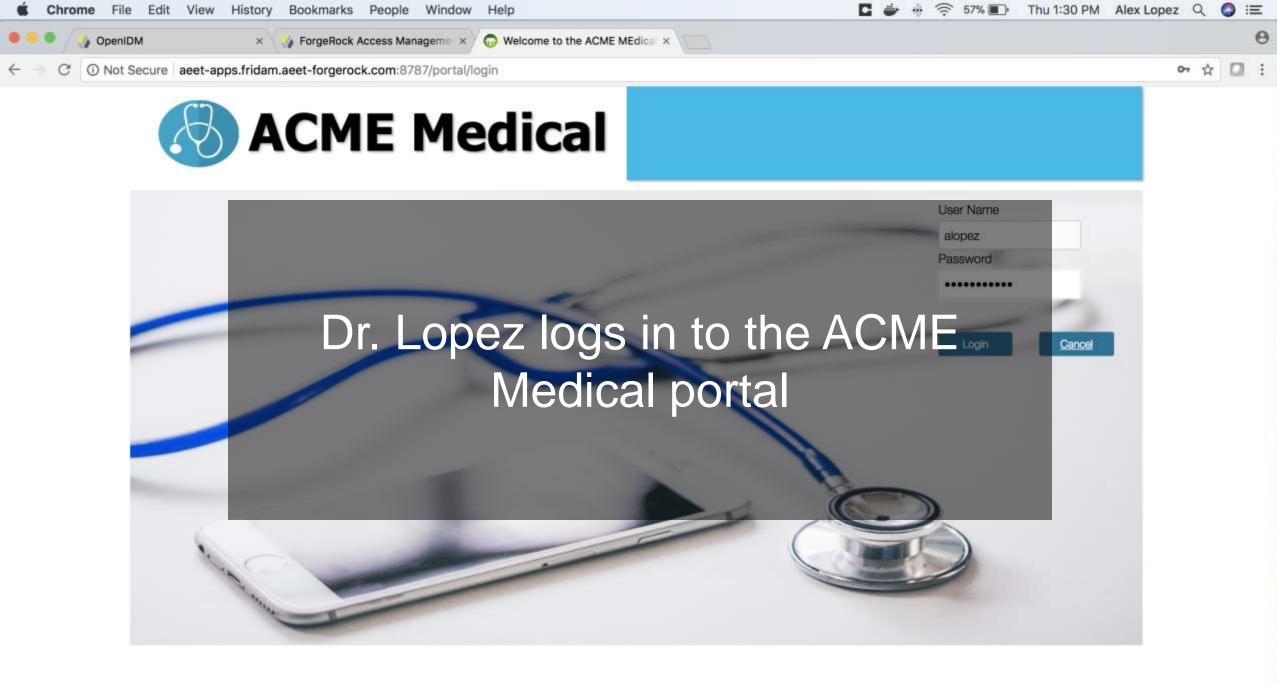


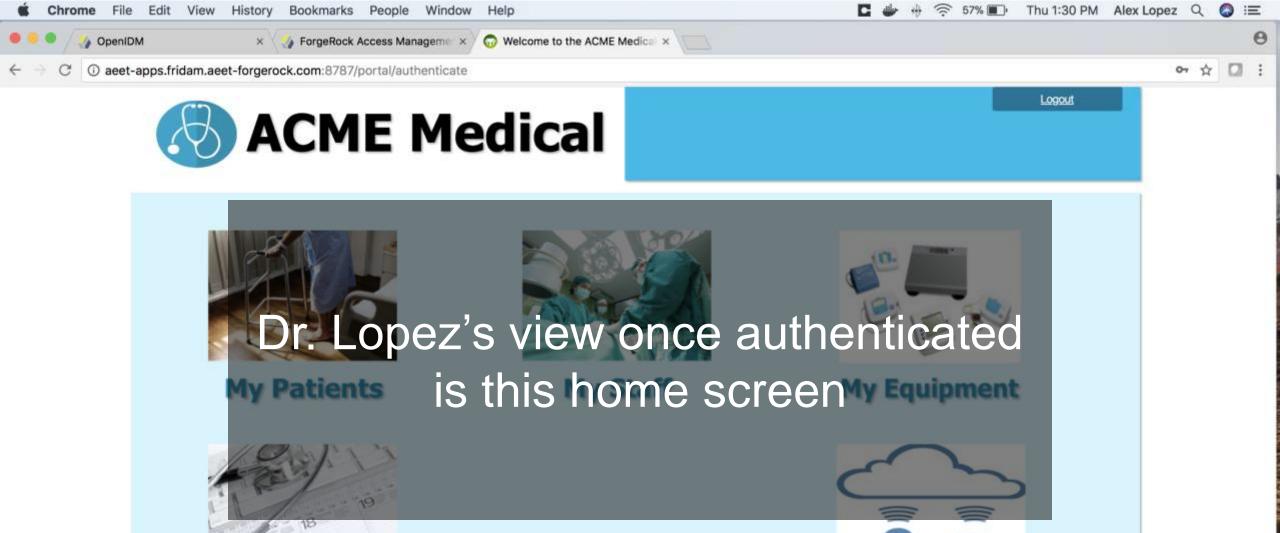








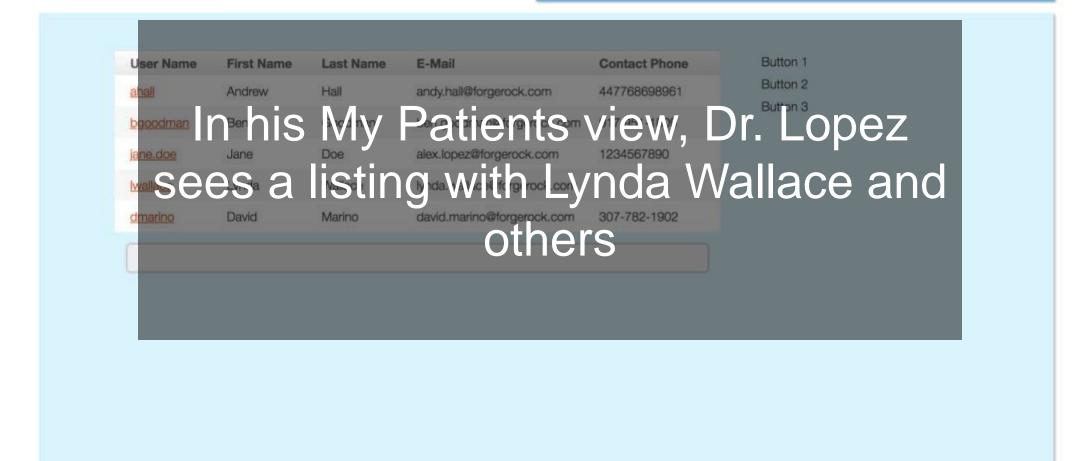


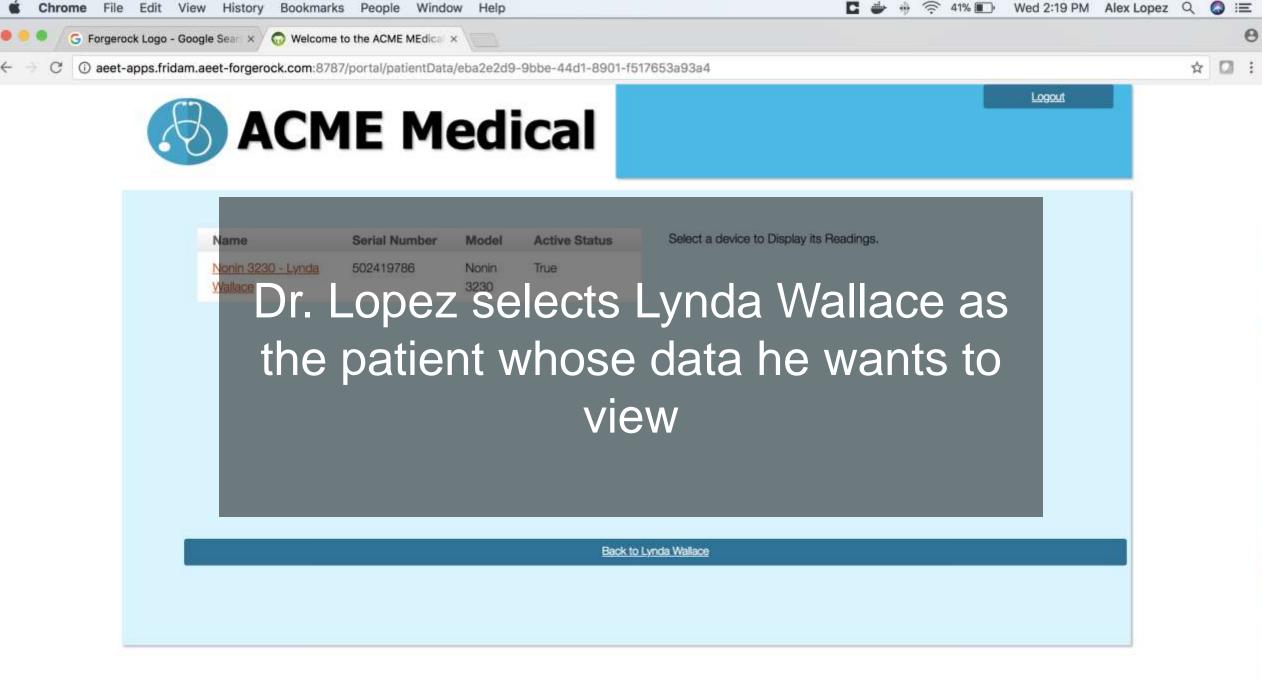


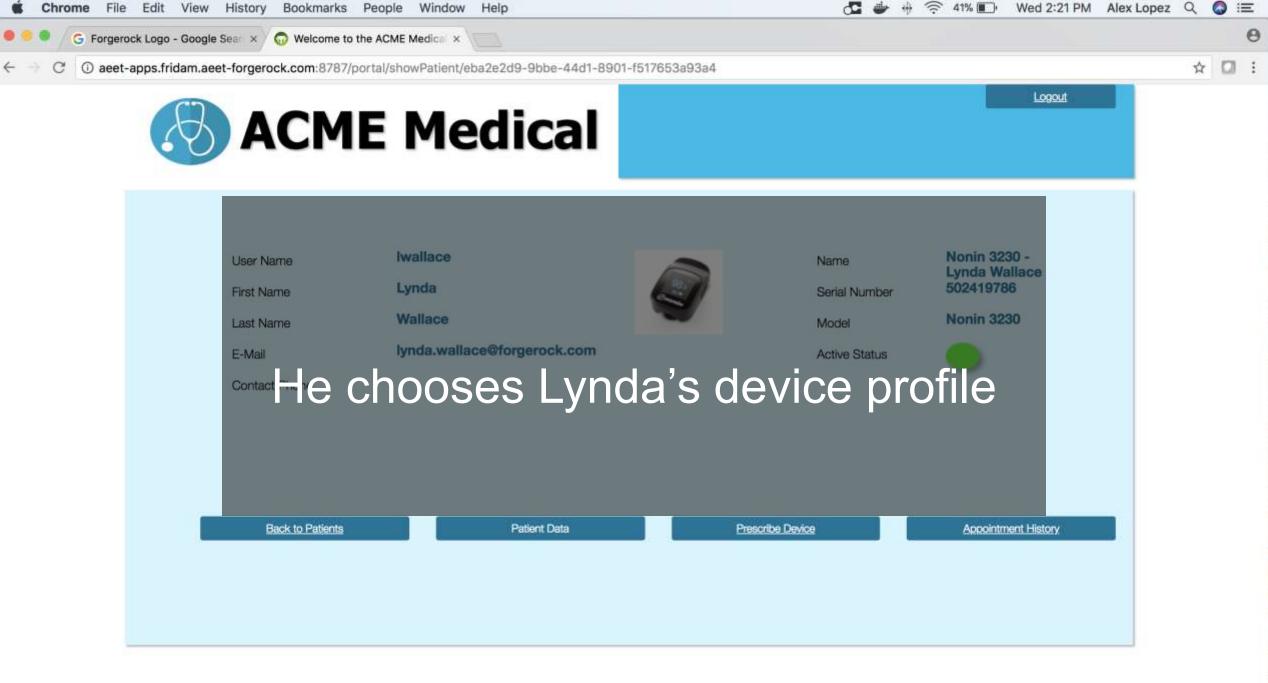
My Schedule

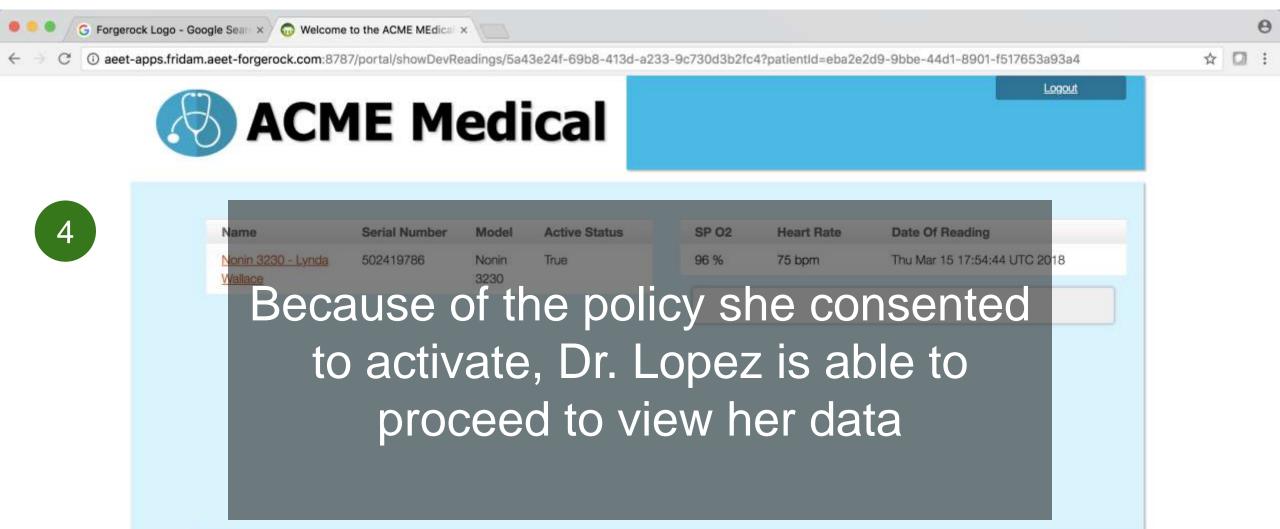
OMR Devices



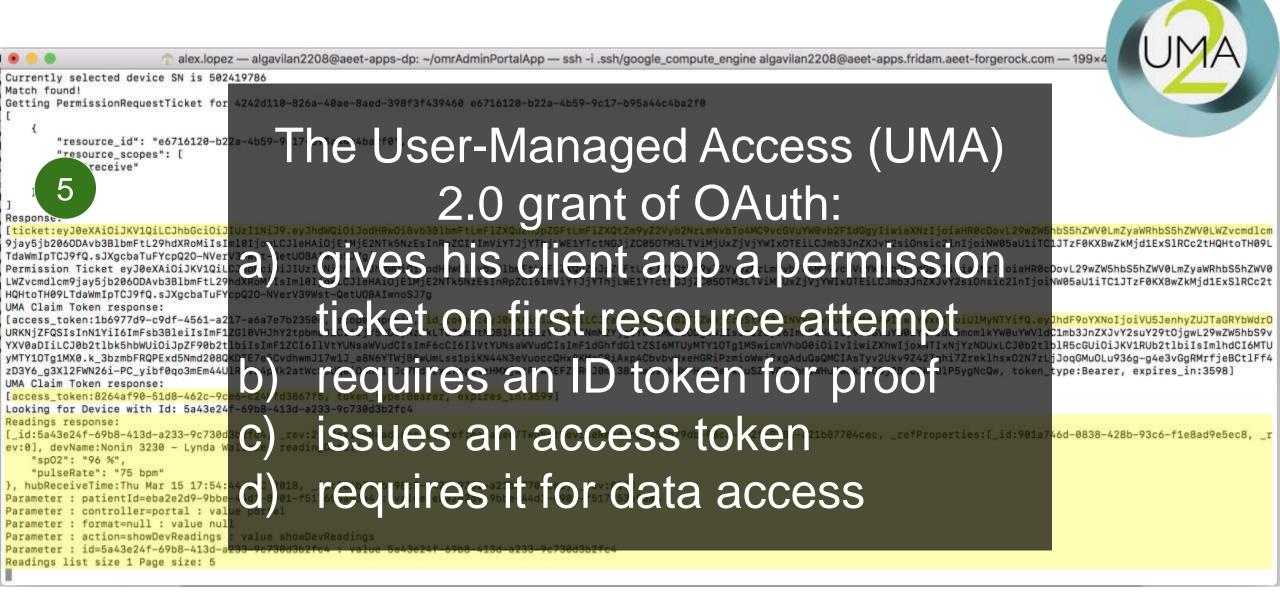








Back to Lynda Wallace



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