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Connecting European Data



ScienceMesh: Low Barrier ScienceMesh User Access to EGI Services

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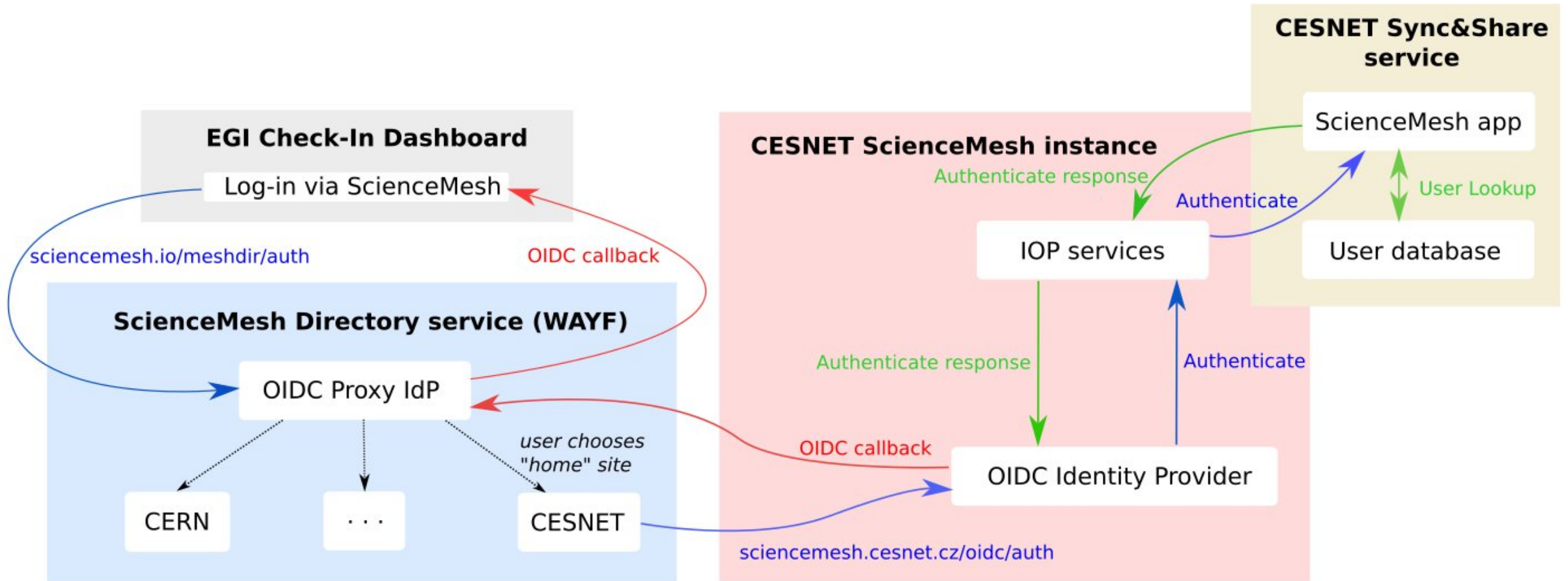


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- * Federated infrastructure to enable data and application sharing across various types of Sync&Share systems
 - * Such as ownCloud, Nextcloud, Seafile, ...
 - * Independently operated
- * Technical prerequisites: API (OCM) for peer-to-peer sharing
 - * Needs 1:1 configuration -> not scalable
 - * Requires users to know each other's identities -> not suitable for general public
- * We built a federation out of independently operated Sync&Share systems
 - * ScienceMesh
 - * Reference implementation of a ScienceMesh site: Interoperability Platform (IOP)

- * Federated infrastructure: ScienceMesh metadata (incl. services), monitoring, accounting, policies&governance, ...
 - * Sync&Share systems serve as the source of user identities
 - * No centralised AAI available (nor realistically expected)
- * **Key concepts:** invitation workflow, user discovery
 - * Users can invite colleagues to share resources regardless of what end system they use
 - * Users can be invited by mail/chat/... = something the users know and use regularly
 - * Identity resolution = similar to WAYF in standard federations
- * Resources&services that can be shared
 - * File and folder access
 - * Access to applications
 - * Data transfers

- * For the purpose of “invitation workflow,” we’ve developed the ScienceMesh Directory service
 - * Similar to WAYF in identity federations
 - * Serves users to choose/reveal their “home” organization to log in
- * ScienceMesh Directory service based on metadata from central database
 - * List of sites, deployed services, ...
- * Although not originally designed as such, the ScienceMesh can act as an identity federation
 - * Metadata very similar
 - * ScienceMesh Sites as Identity Providers
- * Currently working on extended functionality of an OIDC Proxy IdP provider for EGI Check-in
 - * Interoperability Platform
 - * Login through the ScienceMesh can ensure access to the data during the process
- * Lightweight login - PoC with Jupyter notebooks



- * Access to EGI services through a Sync&Share infrastructure
- * Sharing the data to Jupyter notebooks from ScienceMesh sites
- * Synergy between ScienceMesh and EGI services



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