



Working with Versioned Data and Feature Service Sync

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Feature Service Sync

- **Sync is a feature service capability**
 - Added at 10.2.1
- **Allows you to...**
 - Get a local copy of the feature service data
 - Make edits locally even while offline
 - Sync when online
- **Used by Collector for ArcGIS, Runtime SDK, ...**

Data Requirements and Sync

- Data can be either
 - Non-versioned with Archiving + GlobalIDsor
 - **Versioned + GlobalIDs**
- Use versioned data when
 - The data model requires versioning (e.g. geometric networks editing)
 - Versioned workflows are required (e.g. long transactions)

Versioned Data and Sync Workflows

- **Read-Only Services**
 - Keep reference data up to date on your device

Operations allowed:

Create Delete Query Sync Update

- **Read-Write Services**
 - Allows you to sync edits made in the field
 - Added versioned data support for read-write services at 10.3
 - Versioned created for each...
 - Downloaded map (Default)
 - User

Operations allowed:

Create Delete Query Sync Update

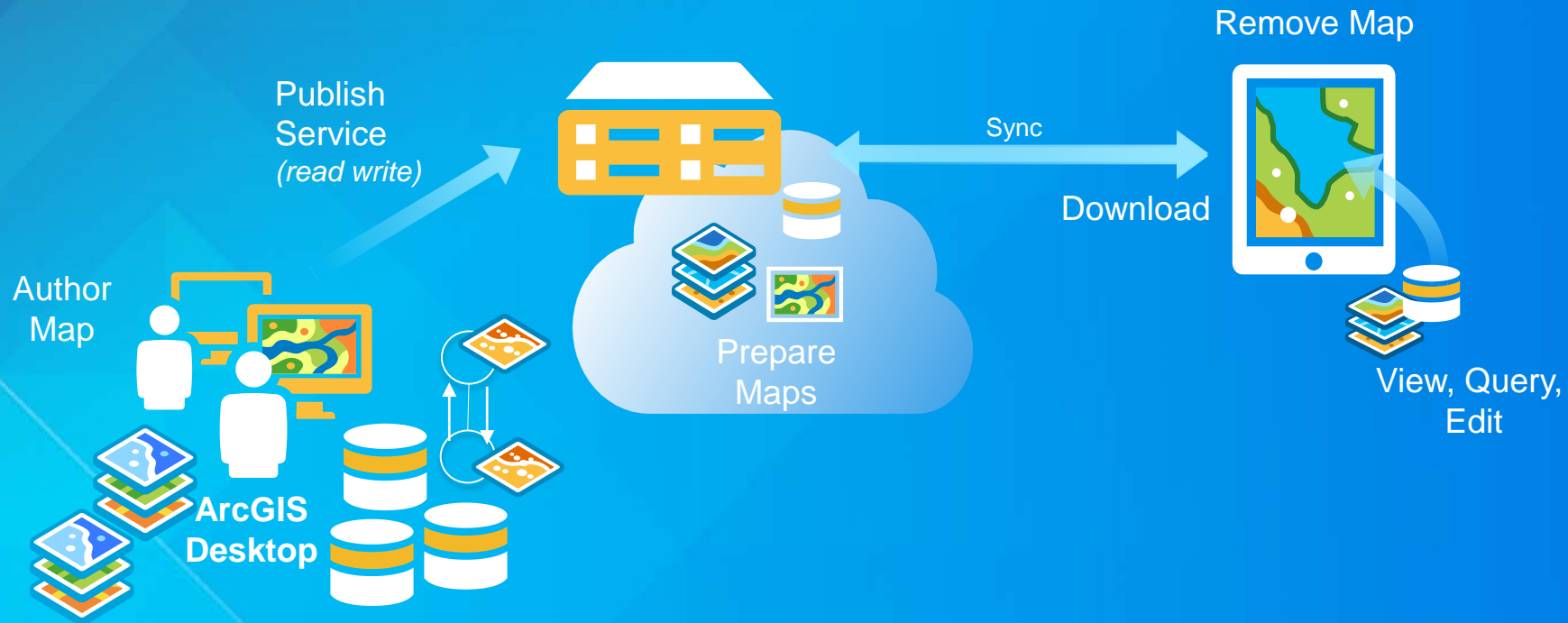
Versioned created for each downloaded map



Versioned created for each user



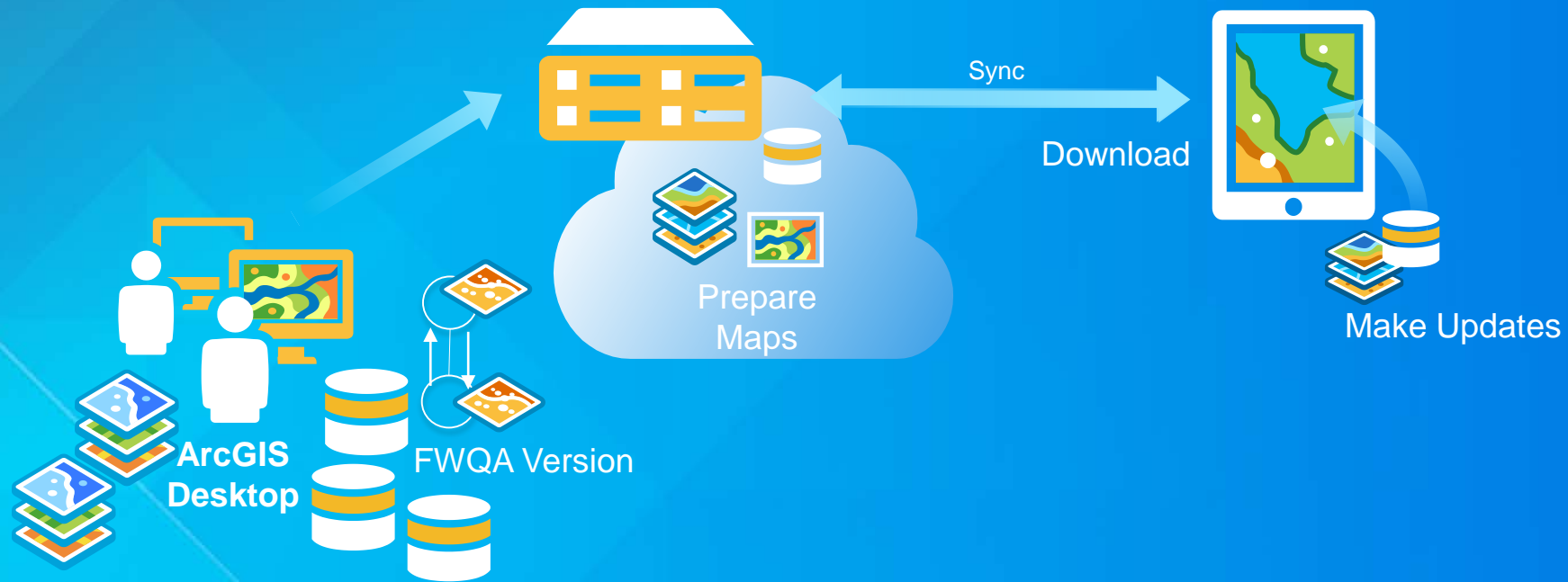
Workflow 1 – Data Maintenance



Demo

- Download maps for data maintenance

Workflow 2 – Valve Inspection Project

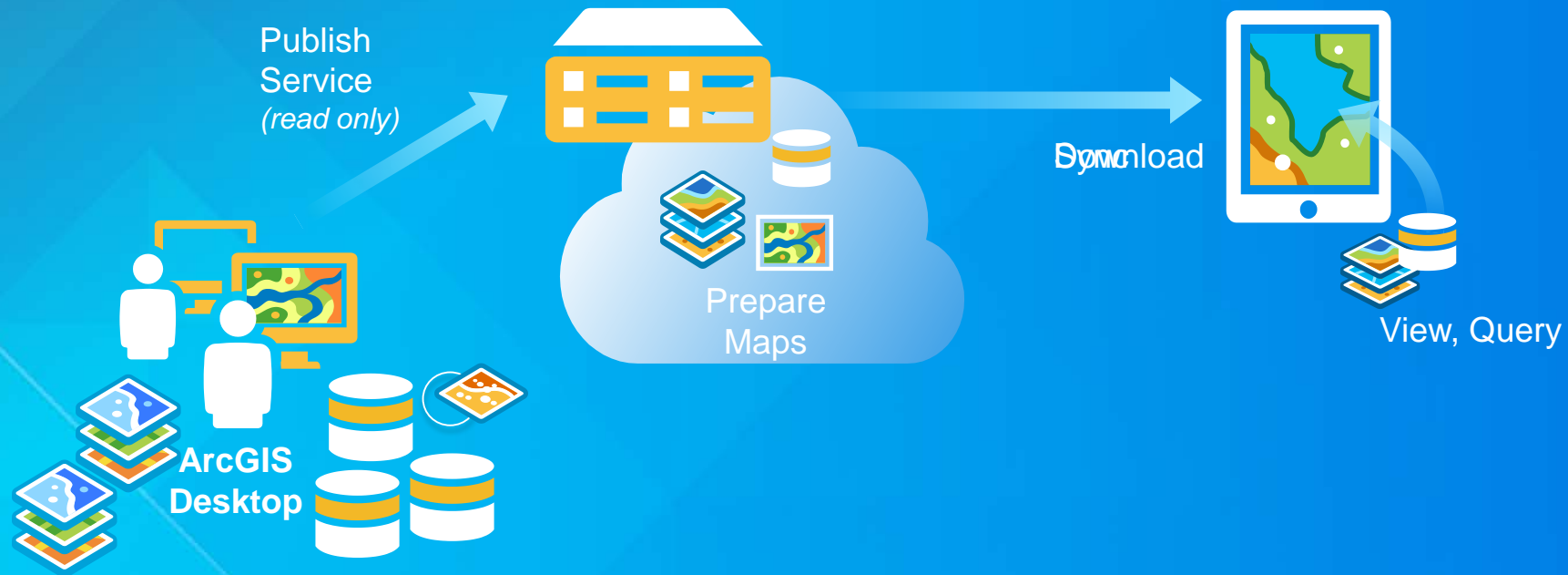


Demo

- Download maps for a valve inspection project

Workflow 3 – Download read-only maps

- Syncs from the published version (e.g. default)



Help Reference

- **Offline maps and versioned data**

- **Long URL:**

- <https://server.arcgis.com/en/server/latest/publish-services/windows/offline-maps-and-versioned-data.htm>

- **Short URL:**

- <http://esriurl.com/VersionedFS>

- **Demo reconcile/post script**

- **Long URL:**

- <http://desktop.arcgis.com/en/desktop/latest/manage-data/geodatabases/automate-reconcile-post-after-sync.htm>

- **Short URL:**

- <http://esriurl.com/VersionedFSRecPost>



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