

CASE STUDY

Imaging, Workflow & Care Solutions (IWCS) Multi-Tenant Implementation

Change Healthcare



The company needed a Multi-Tenant front/back end TIBCO Spotfire solution to support their Imaging and Radiology businesses. The solution also needed to support multi-hierarchical access to data (Access Levels: Enterprise, Regional, Facility/Location)

Customer Challenges

- How to manage subscriptions (Core vs. Premium)
- How to maintain multiple DXPs for each client (Core vs. Premium)
- How to manage access to the different sections of the DXP (Core vs. Premium)
- How to manage view access to certain columns (PHI, Tier)
- How to provide multi-level access to a client's data
 - *Enterprise
 - *Region
 - *Facility/Location
 - *n +/- 1 level(s)

Solution Provided

Managing Subscriptions

Combination of an information link and iron python scripts.

User and Tenant Information Link

- Provides information about the user, the tenants that they belong to, the tenant subscription, and their varying levels of access to data.
- The backend data model behind this information link uses a Tenant ACL that allows admins to provision access to data at the Tenant/Region/Location levels. The solution also allows the addition of organizational levels with very minimal change involved to the information link's SQL query.

User and Tenant Information Link

- Information link and backend data were modified to include columns to describe the tenant, region, and facility to which the data belonged.
- Tenant Data is limited to what the user has access to as described by the data returned from the User and Tenant Information Link.

Retrieves and stores the current user's login/username

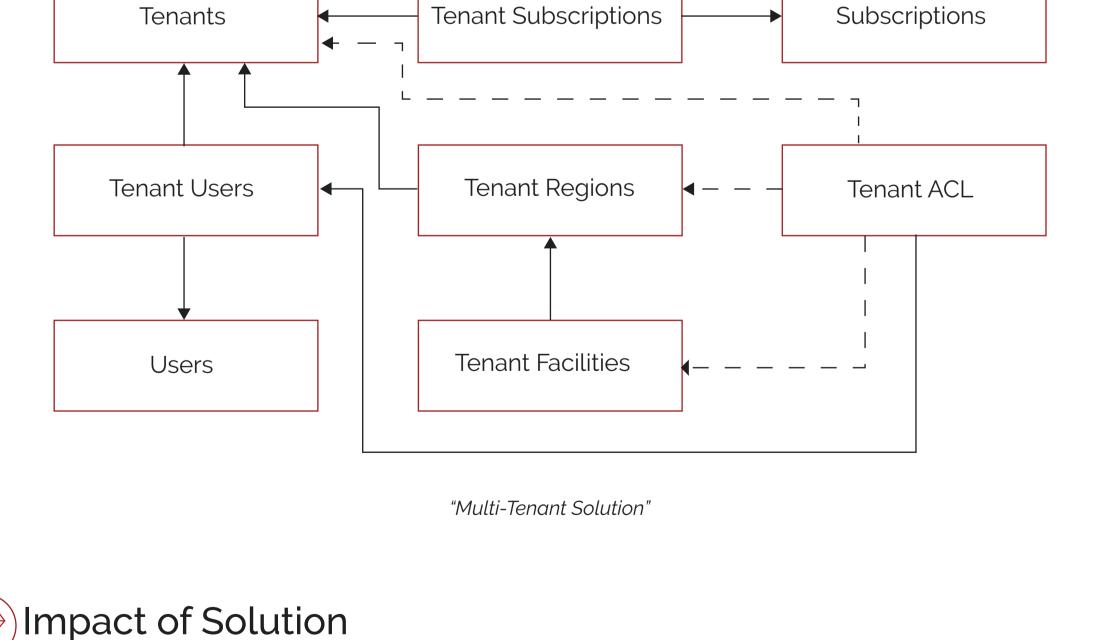
IronPython Scripts

- Retrieves the user's data from the user and tenant information link
- Retrieves and stores the tenant subscription tier/information
- Shows/hides phi/tier level columns
- *Phi columns are shown based on user access *Tier columns are shown based on the tenant's subscription tier
- Provides some level of security to the data

Shows/hides tabs based on tenant's subscription tier level

them to the appropriate values

*If certain properties are changed, onChange scripts verify the change and sets



Allows the client to maintain and manage a single DXP for multiple clients

instead of a single DXP per client

- Allows the client to maintain and manage a single datastore for multiple clients instead of a single datastore per client Allows the client to manage access to their data from a central location
- Allows the client to scale up/down their solution



Technology Used

- •SQL
- IronPython