UGI UTILITIES RESPONSE TO NTSB INFORMATION REQUEST
July 25, 2023

NTSB Request No. 118:

Confirm that Smallworld GIS and Gas Service Web Application are UGI's systems of record for mains and services, respectively. Clarify how retired service tee information is managed and which system they are stored in.

UGI Response:

Smallworld GIS and Gas Service Web Application are the information systems UGI uses to interface with facility data, including mains and services.

UGI maintains main and service facility data in three separate systems of record.

1. The geometry data for all facility data, including Mains & Services, are stored in the Smallworld Versioned Managed Data Store (VMDS).
2. The attribute data for all facility data, including Mains & Services, are stored in the Oracle Datastore (UFACLY0) schema.
3. The associated images, as-built & service cards, are stored in Documentum and the Documentum data store in Oracle (DOCP) schema. UGI North stores their image files in a replicated network store named Image Control.

End users interact with the systems of engagement from their Desktop clients or Mobile Data Terminals (MDTs).

Service Information

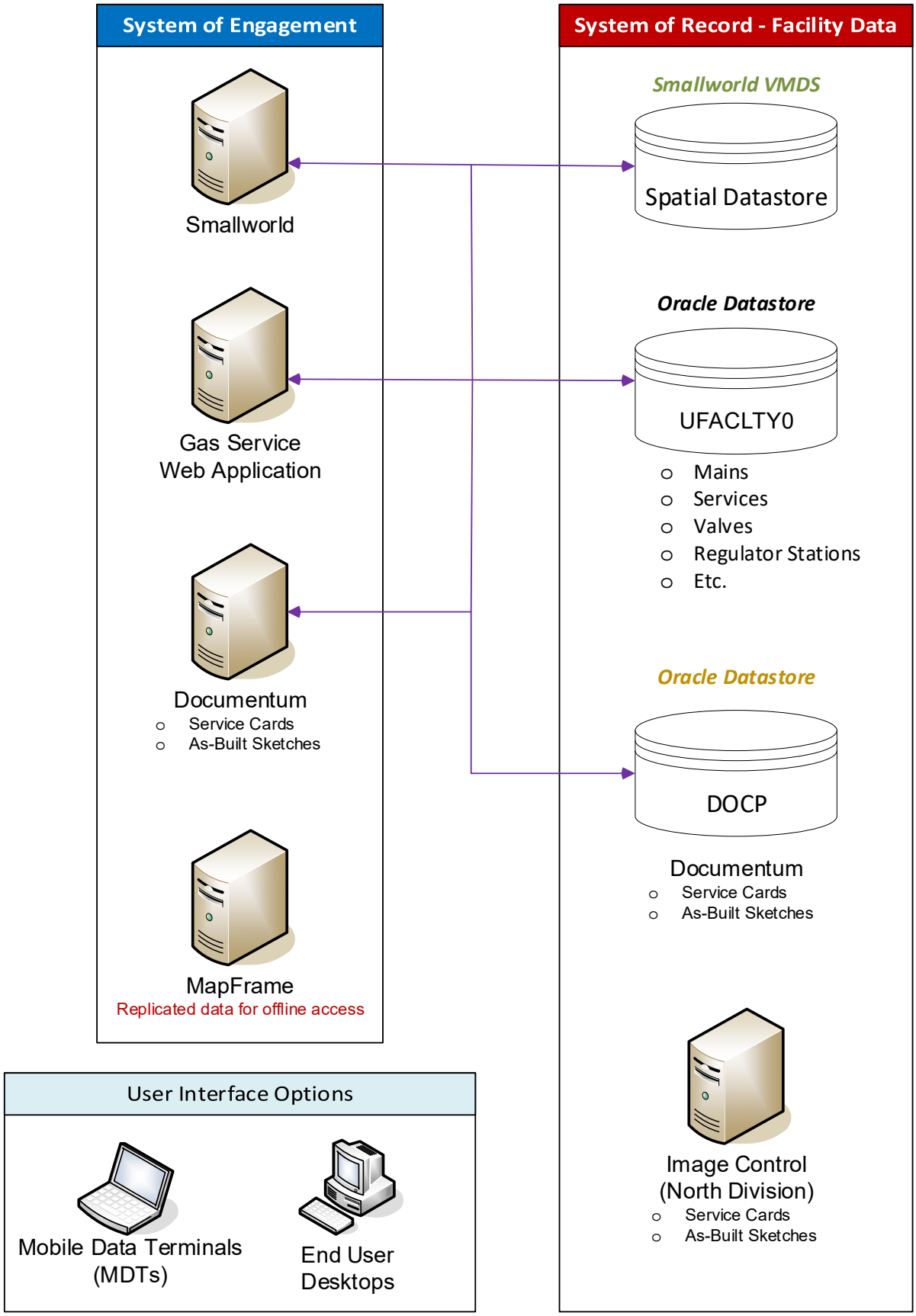
Service data is managed from Smallworld, MapFrame, Gas Service Web application and Documentum.

The initial service point geometry is mapped in Smallworld as a Proposed gas service.

The actual materials, including the service tap, are entered in MapFrame by field personnel at the time of installation. The Central and North divisions add the materials, including tap, into the Gas Service Web application after the installation is completed in the field. Regardless of the system of engagement, the data is sourced back to the System of Record (Oracle Datastore – UFACLTY0 schema).

The image files are stored in Documentum & Documentum's Oracle (DOCP) schema.

When a Service Tee is retired, the legacy data is archived in the Oracle History tables in UFACLTY0 and the service card is appended to the new service card. This approach allows the field employee to see the history of the service.


System of Engagement
System of Record - Facility Data
Smallworld VMDS
Smallworld
Spatial Datastore
Oracle Datastore
Gas Service
Web Application
UFACLTY0
Mains
Services
Valves
Regulator Stations
Etc.
Documentum
Service Cards
As-Built Sketches
Oracle Datastore
DOCP
Documentum
Service Cards
As-Built Sketches
MapFrame
Replicated data for offline access
Image Control
(North Division)
Service Cards
As-Built Sketches
User Interface Options
Mobile Data Terminals
(MDTs)
End User
Desktops