BUILDER SUMMIT

Enterprise SMS Update

DIGON SYSTEMS

TETRA TECH

Cardno

wood.

Collection of Available Information

ESMS Training

- Contracted Training Development

Fall Summit - ESMS Development Update

- Paisley Mahern

Fall Summit – ESMS Utilities Update

- Mike Grussing and Matt Walters

Fall Summit – ESMS Fuels Update

- Joe Karbarz

Fall Summit – Waterfront Structures

- James Allen and Rhoda Brucker

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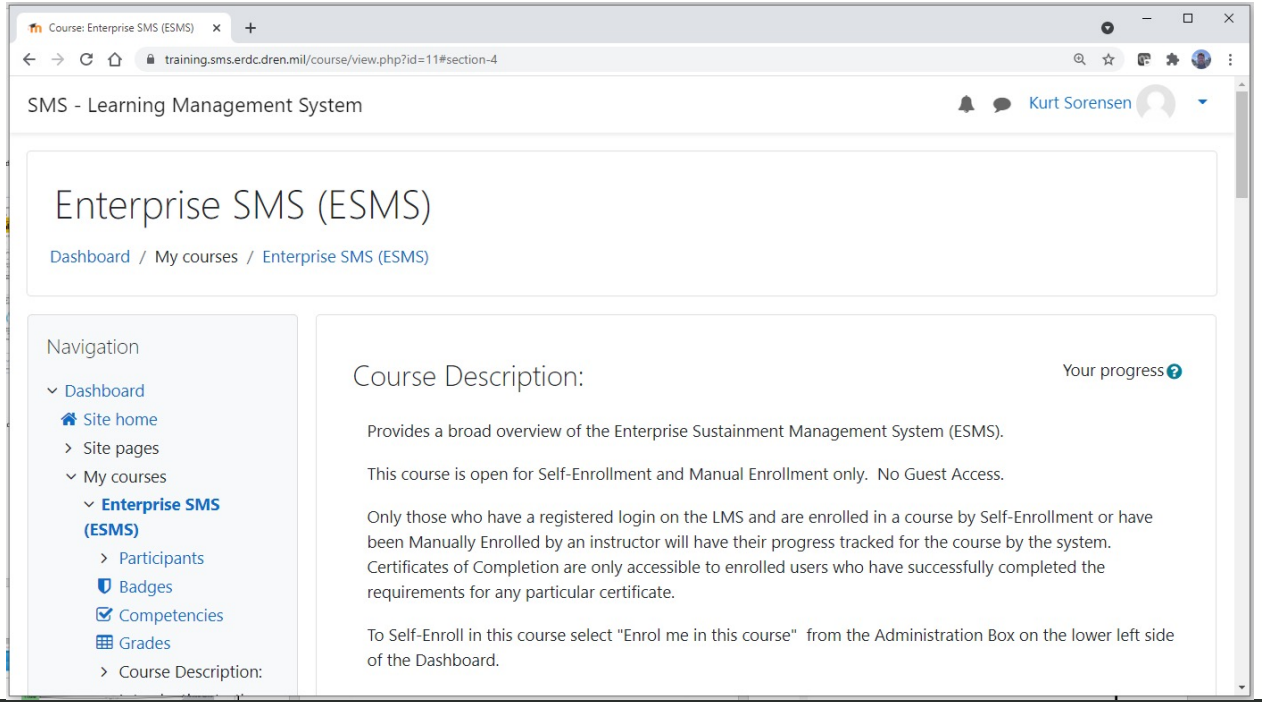
Online Training



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Fall Summit Virtual Presentation

ESMS Development Update and Demonstration

Presenters:

Paisley Mahern – SMS TCX

Description:

In this presentation, Paisley Mahern of the SMS TCX provides an overview of the work that has been completed in the development of the ESMS Platform and demonstrates current capabilities.

ESMS Development Update and Demonstration - Video Presentation

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Fall Summit Virtual Presentation

ESMS Utilities Update

Presenters:

Mike Grussing and Matthew Walters – SMS TCX

Description:

In this presentation, Michael Grussing and Matt Walters of the SMS TCX provide an overview of the work that has been completed in the development of the Utilities SMS domain and the ESMS platform.

ESMS Utilities Update - Video Presentation

ESMS Utilities Update - Slides

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Fall Summit Virtual Presentation

ESMS Fuels Update

Presenters:

Joseph Karbarz – SMS TCX

Description:

In this presentation, Joseph Karbarz of the SMS TCX provide an overview of the work that has been completed in the development of the Fuels SMS domain and the ESMS platform.

ESMS Fuels Update - Video Presentation

ESMS Fuels Update - Slides

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Fall Summit Virtual Presentation

Water Control Structures and Waterfront SMS Update

Presenters:

James Allen and Rhoda Brucker – SMS TCX

Description:

In this presentation, Jim Allen and Rhoda Brucker of the SMS TCX provide an overview of the work that has been completed in the development of the Water Control Structures SMS domain that will be implemented using the ESMS platform. They will discuss the methodologies employed to date as well as covering existing challenges and next steps in this domain area.

Water Control Structures Domain - Video Presentation

Water Control Structures Domain - Slides

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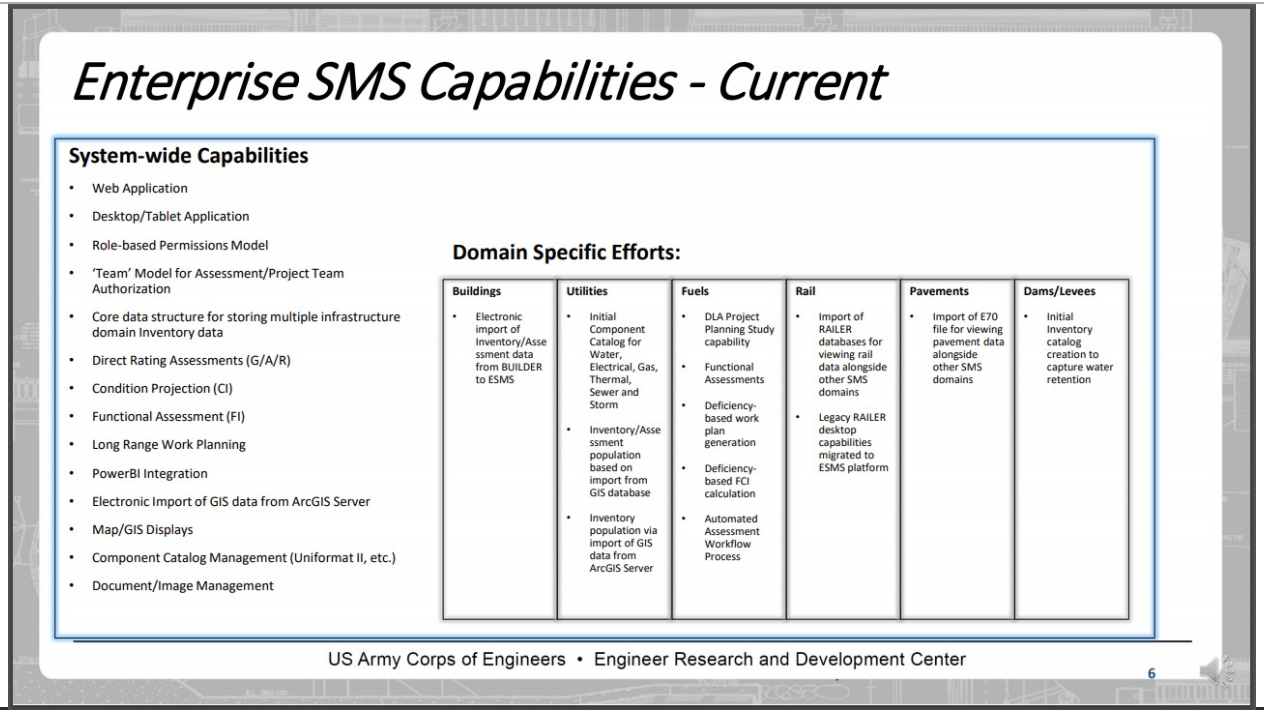
Shared Platform



Enterprise SMS Capabilities - Current

System-wide Capabilities

- Web Application
- Desktop/Tablet Application
- Role-based Permissions Model
- 'Team' Model for Assessment/Project Team Authorization
- Core data structure for storing multiple infrastructure domain Inventory data
- Direct Rating Assessments (G/A/R)
- Condition Projection (CI)
- Functional Assessment (FI)
- Long Range Work Planning
- PowerBI Integration
- Electronic Import of GIS data from ArcGIS Server
- Map/GIS Displays
- Component Catalog Management (Uniformat II, etc.)
- Document/Image Management

Domain Specific Efforts:

Buildings	Utilities	Fuels	Rail	Pavements	Dams/Levees
• Electronic import of Inventory/Assessment data from BUILDER to ESMS	• Initial Component Catalog for Water, Electrical, Gas, Thermal, Sewer and Storm • Inventory/Assessment population based on import from GIS database • Inventory population via import of GIS data from ArcGIS Server	• DLA Project Planning Study capability • Functional Assessments • Deficiency-based work plan generation • Deficiency-based FCI calculation • Automated Assessment Workflow Process	• Import of RAILER databases for viewing rail data alongside other SMS domains • Legacy RAILER desktop capabilities migrated to ESMS platform	• Import of E70 file for viewing pavement data alongside other SMS domains	• Initial Inventory catalog creation to capture water retention

US Army Corps of Engineers • Engineer Research and Development Center

6

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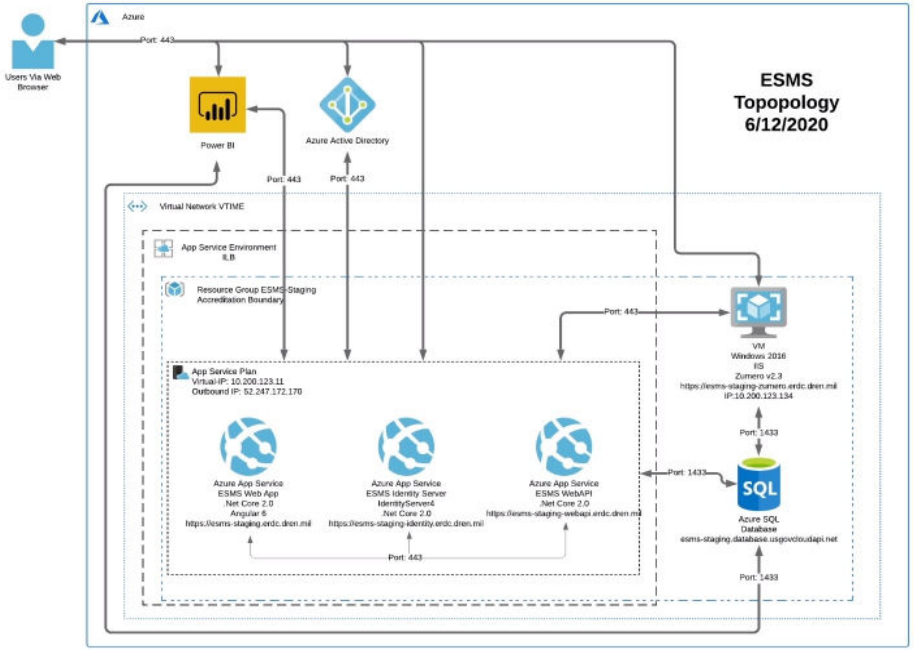
System Architecture: Azure Cloud



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Hierarchy Update

- No more Systems, Components, Sections strict hierarchy
- Inventory are Components within a Facility
  - Not “Section”
- Introducing “Groups”
  - Multiple groups possible (zone, floor, system, maintenance group)

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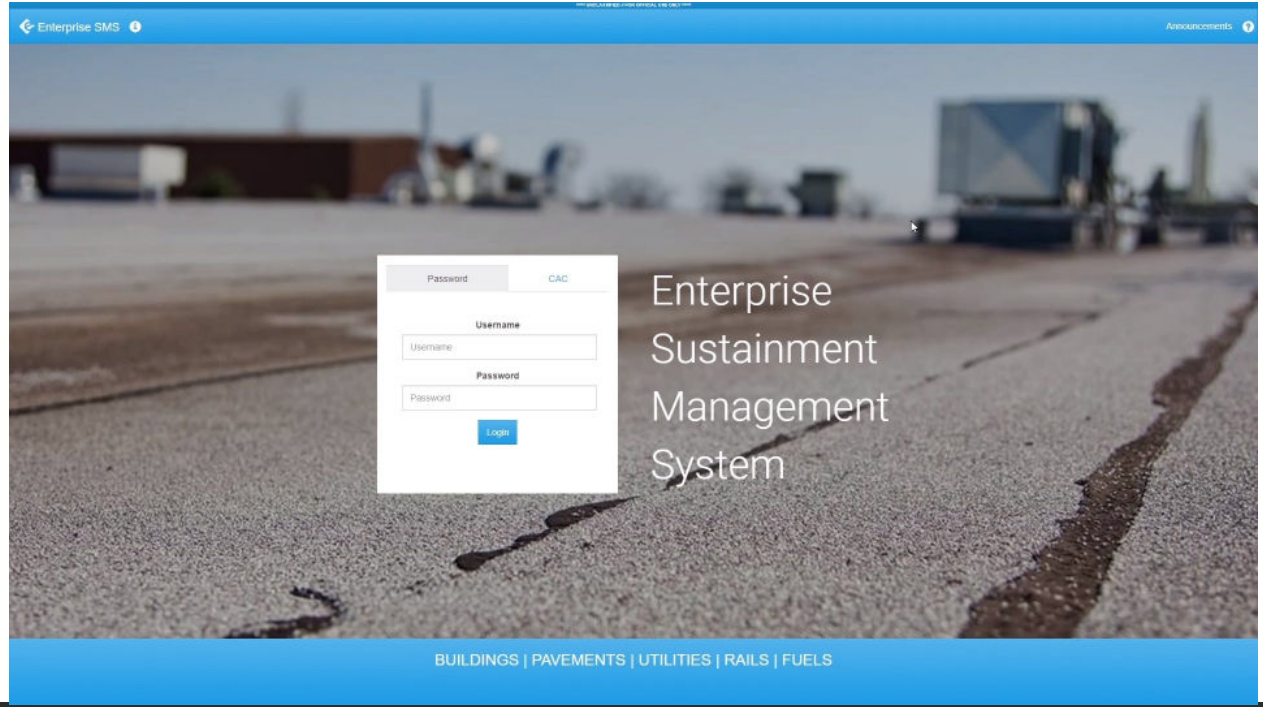
Login: Demo



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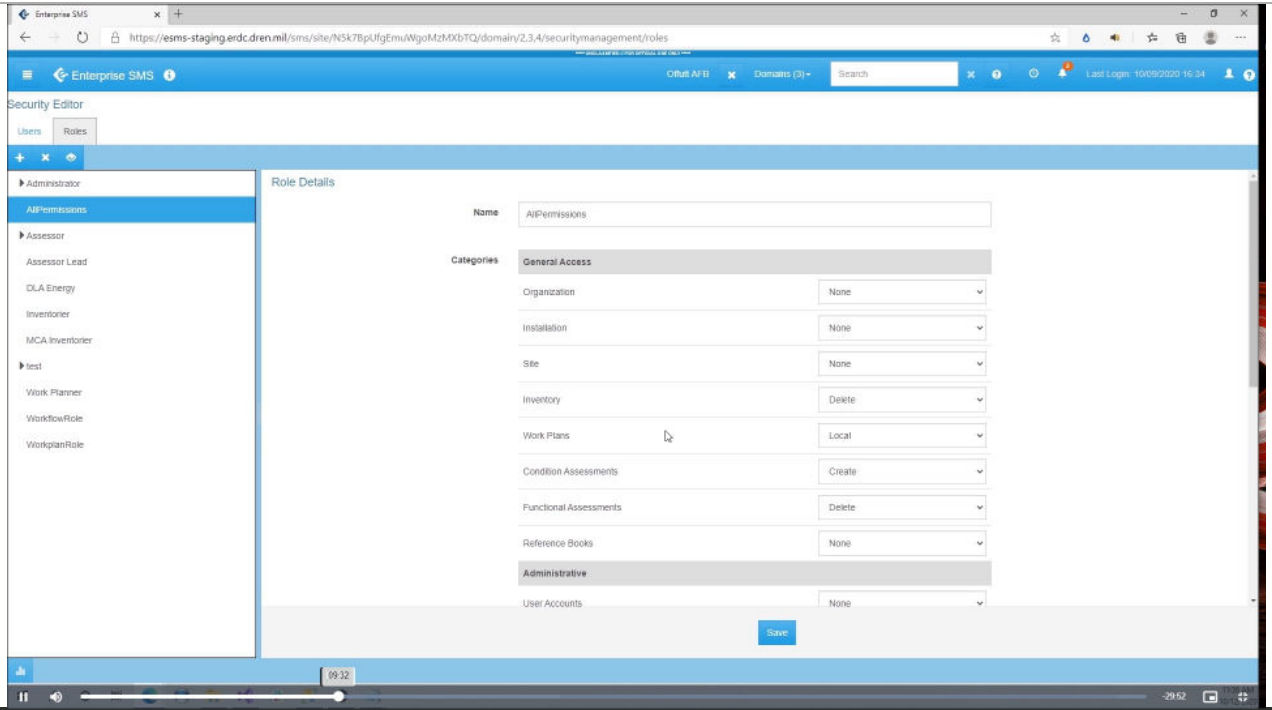
User Management



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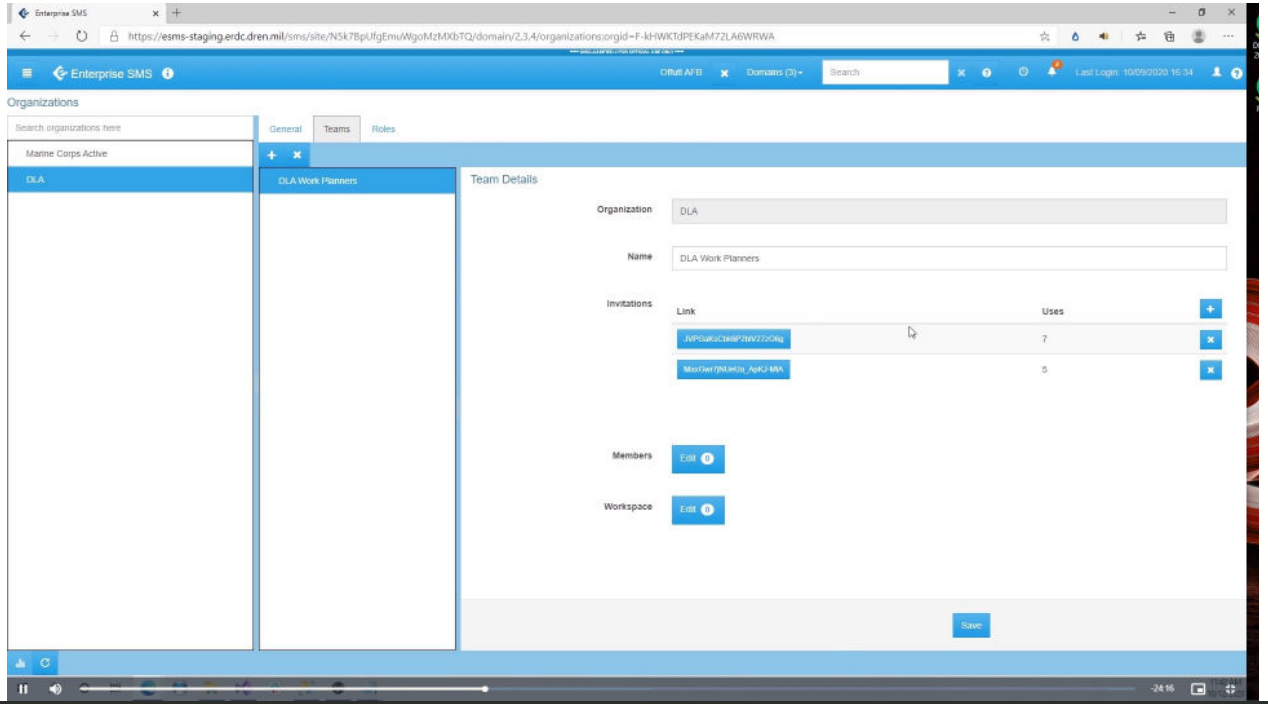
Invite People



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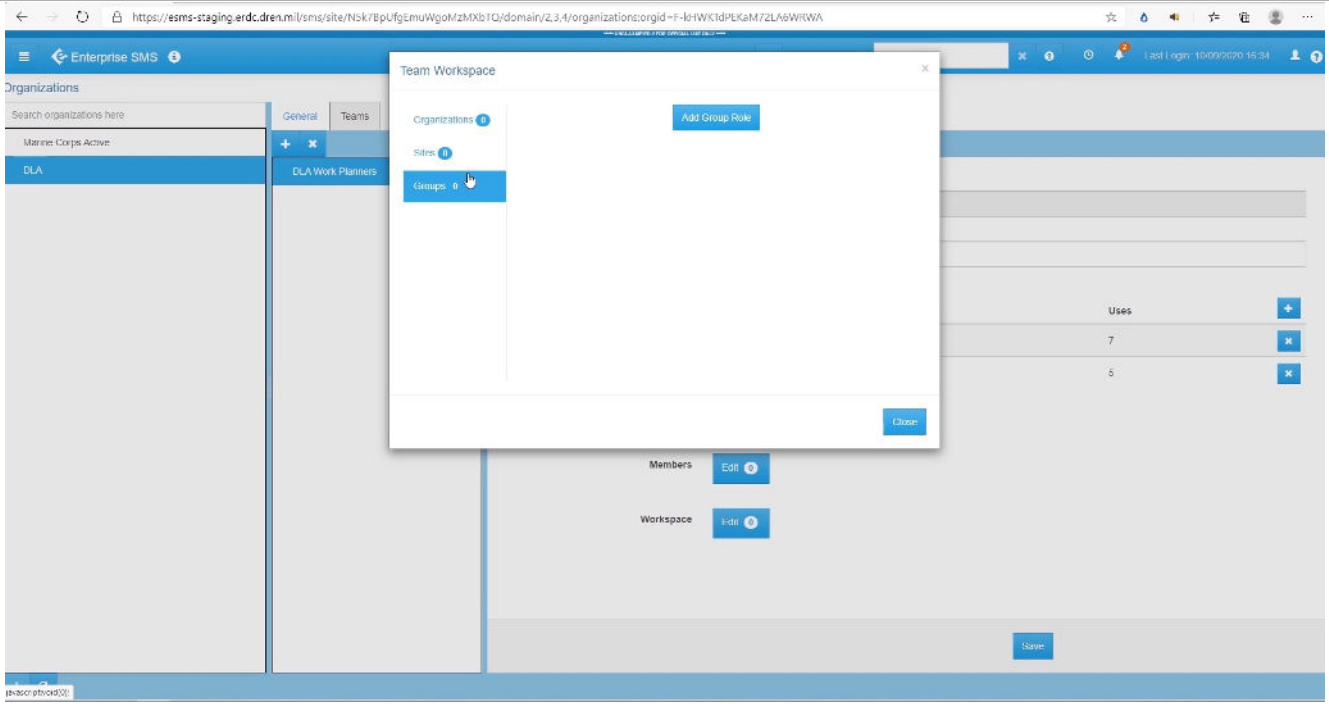
Teams



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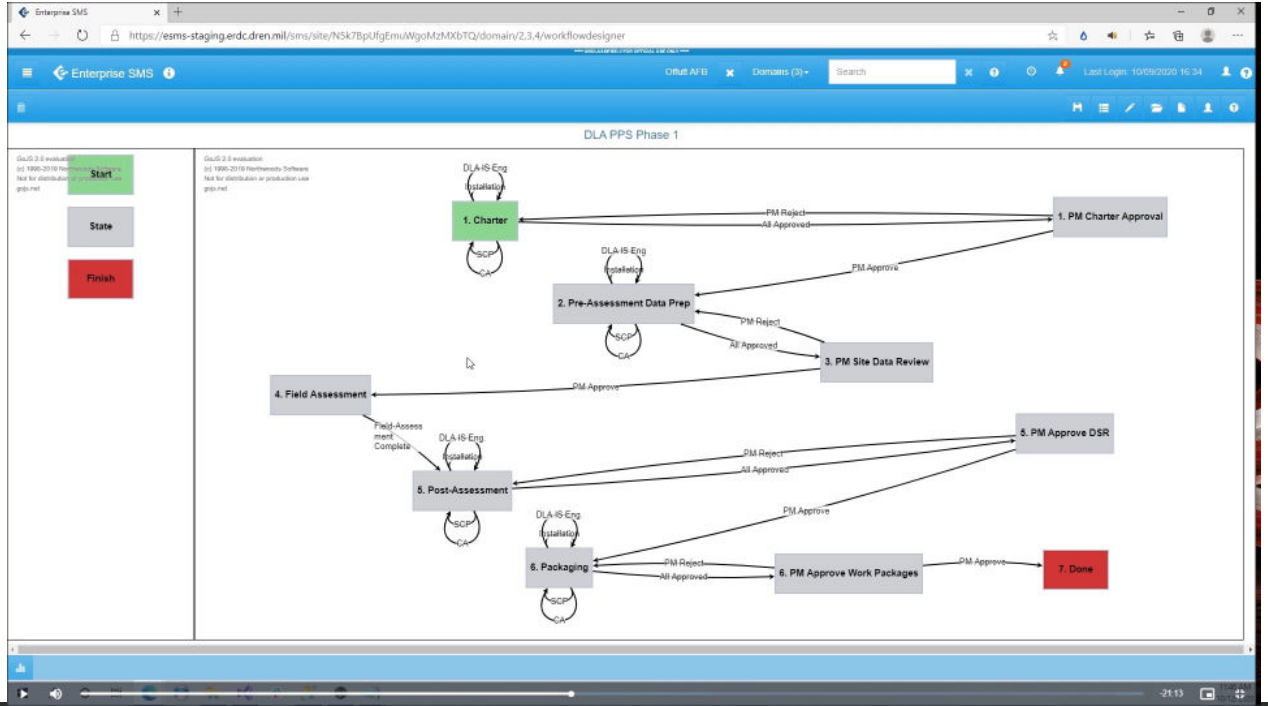
Workflow



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Types of Workflow Plans

	Category of Facility Condition Assessment					
	Comprehensive	**Modified**	**Operational**	**Direct Rating**	**Desk Audit**	**Revalidation**
Description	A "fence to fence" review of all assets	Includes assets not subject to scheduled inspections (e.g. CMP)	Review of mission specific assets and capabilities	Functional evaluation of the performance of assets	Guided review of known site deficiencies	Validation of requirements addressed from previous studies
Application Criteria	For a newly constructed or recently capitalized site	For Service-strategic assets and locations	At request of Service	For establishing the general condition of operations at a site	For Facility Management Plan development or Project Programming	For sites with legacy inspections or modified without SRM project
User	DoD Fuel SME/Engineer	DoD Fuel SME/Engineer	DoD Fuel SME/Engineer	DoD Fuel SME/Engineer or other capable Fuels personnel	DoD Fuel SME/Engineer or DLA E SRM PM	DoD Fuel SME/Engineer or DLA E SRM PM
Frequency	1x per Application Criteria	Cyclical	As Requested by Site	As Needed	1x per previous study, then as needed	1x per previous study, then as needed
Evaluation Parameters	DoD Design Criteria, Environmental, Operational, Functional	Environmental, Operational, and Functional	Environmental, Operational, and Functional	Functional	Regulatory, Environmental, Operational, and Functional	Regulatory, Environmental, Operational, and Functional
Outcome	Deficiency list for all assets, includes DoD design deficiencies	Deficiency list for select assets only	Mission specific deficiency list	Functional requirements list	Facility Management Plan development, deficiency data warehousing	Validation of known deficiencies and execution of previous work
Test Sites	Location: Camp Humphreys, Korea Date: Q2-3	Location: Sunny Point, NC Date: Q2	Location: TBD Date: Q3-4	Location: All Date: Q2-4	Location: Red Hill (ongoing) Date:Q2-4	Location: Korea Army Sites Date: Q2-3

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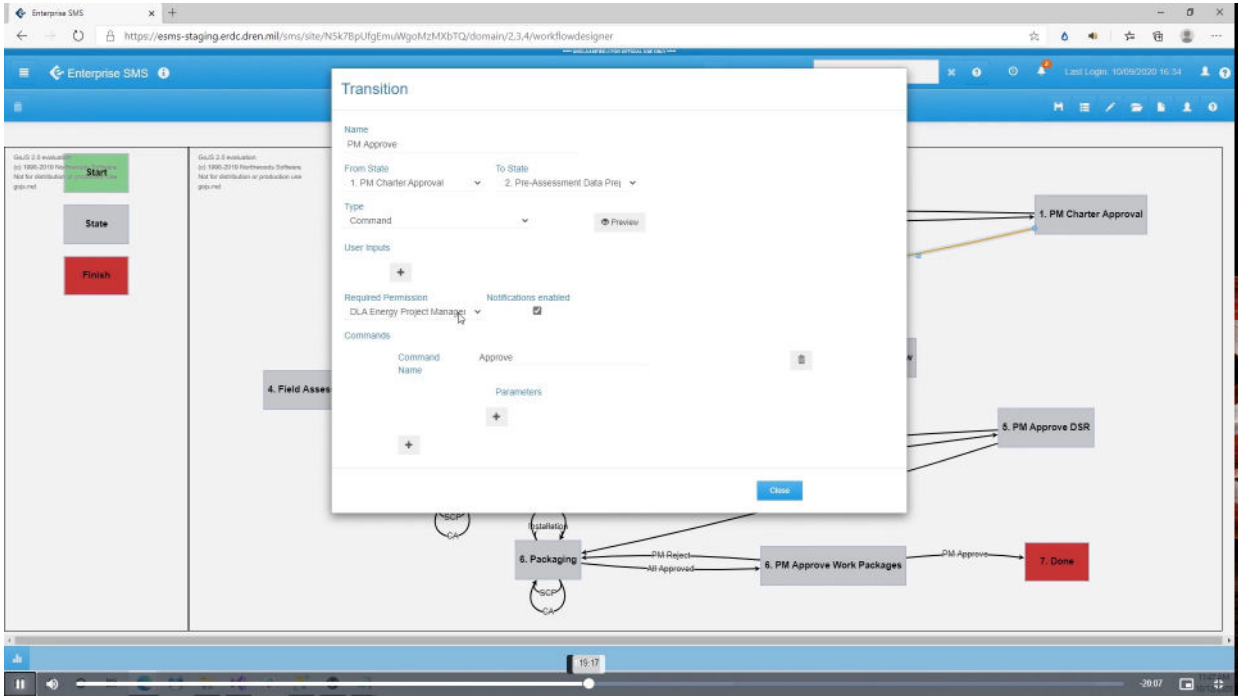
Approval Process Flow



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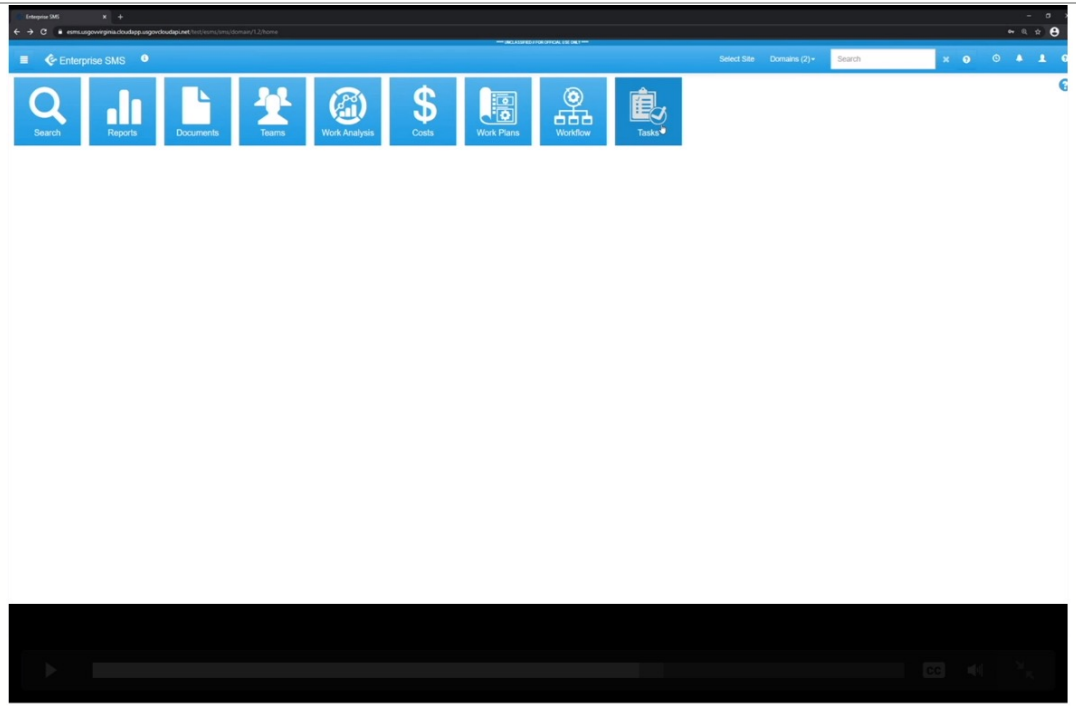
Tasks



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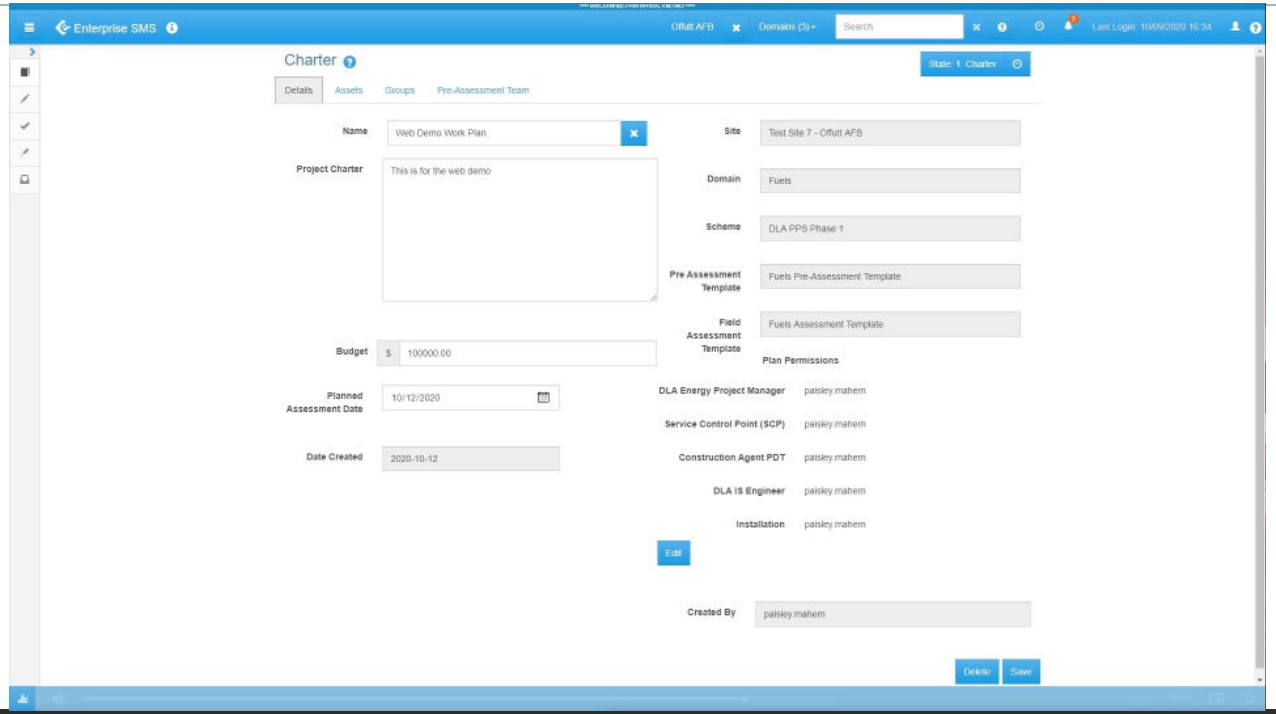
Work Plan Charter step



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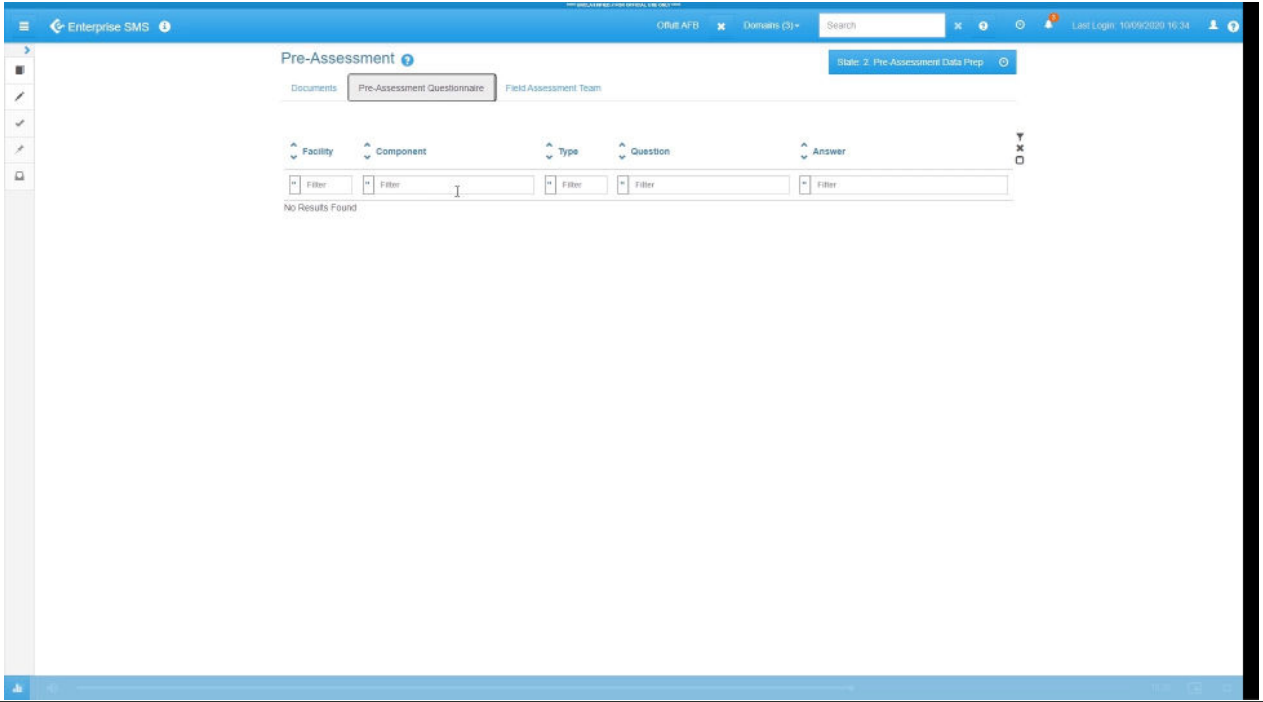
Pre-Assessment

Desktop exercise

- Validate real property
- Review job orders
- Answer questions



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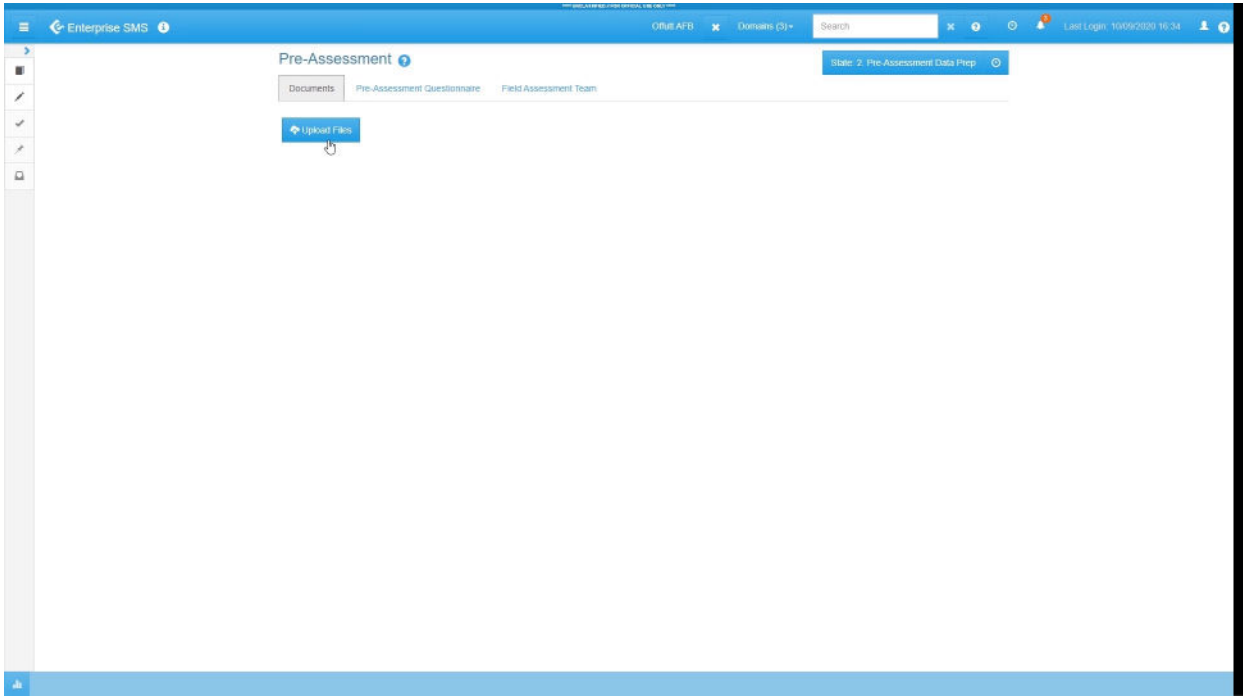
Pre-Assessment

Document Management

- Upload drawings



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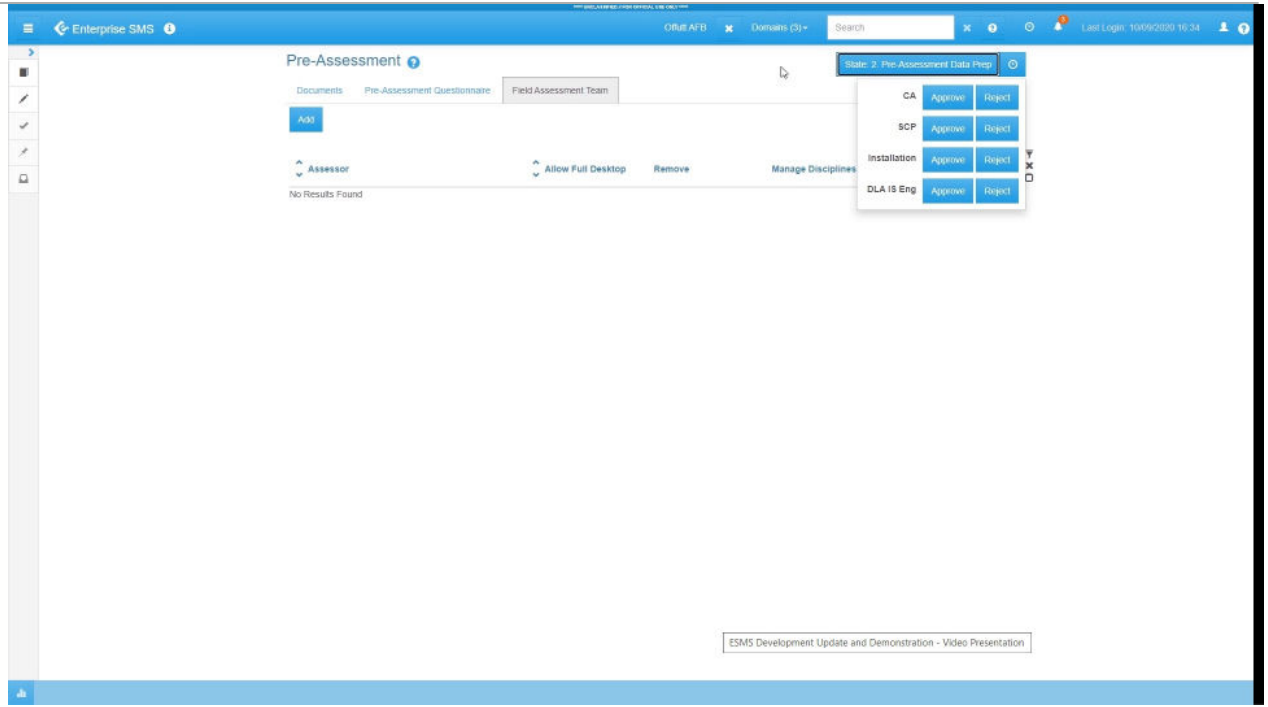
Assessment Team Management

Roles



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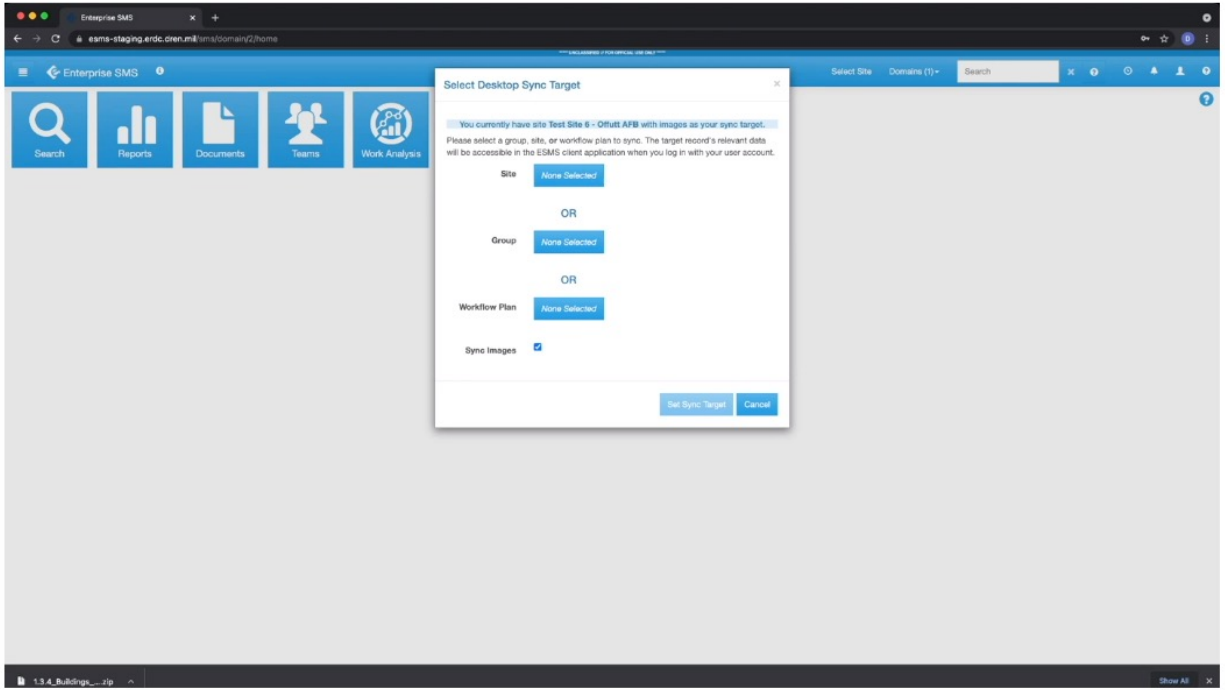
Desktop Application (Data Entry Application)

Set a Sync Target



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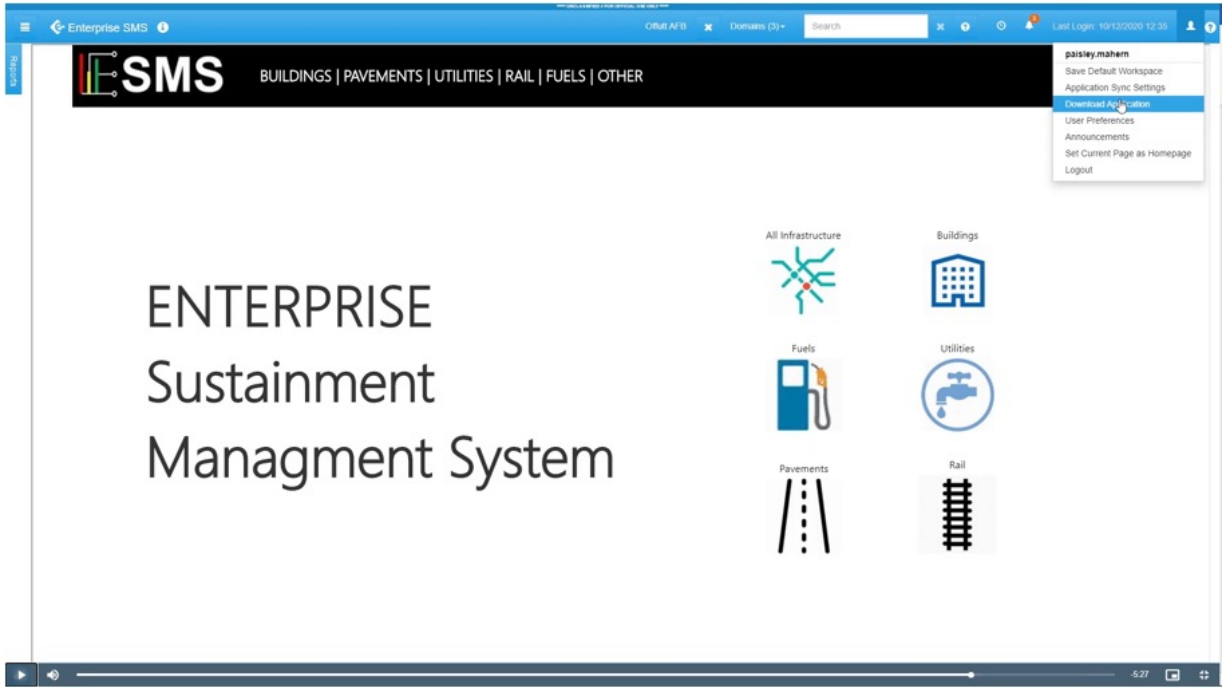
Download from the web-application



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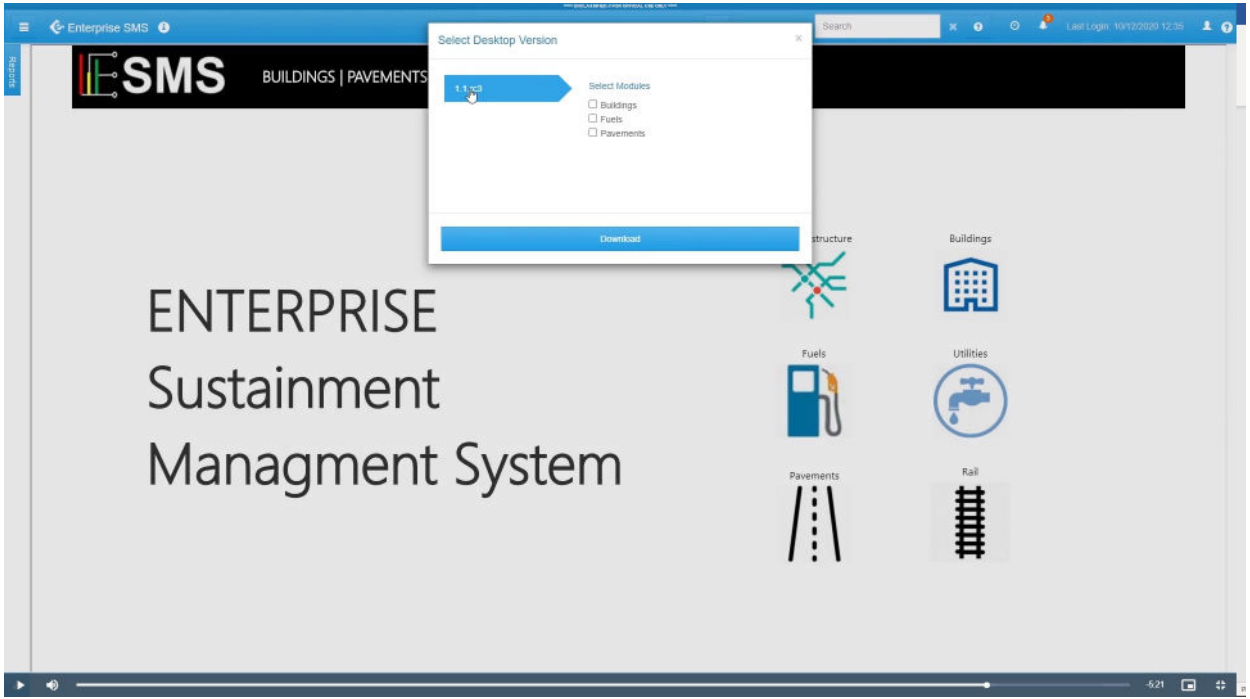
Identify the Modules to include



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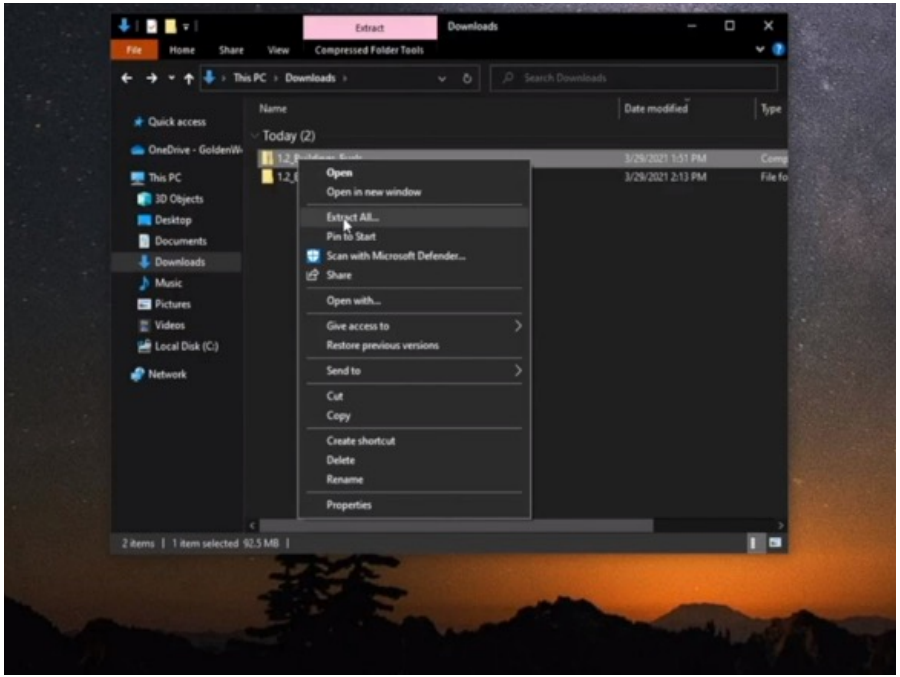
Find the downloaded zip and “extract files”



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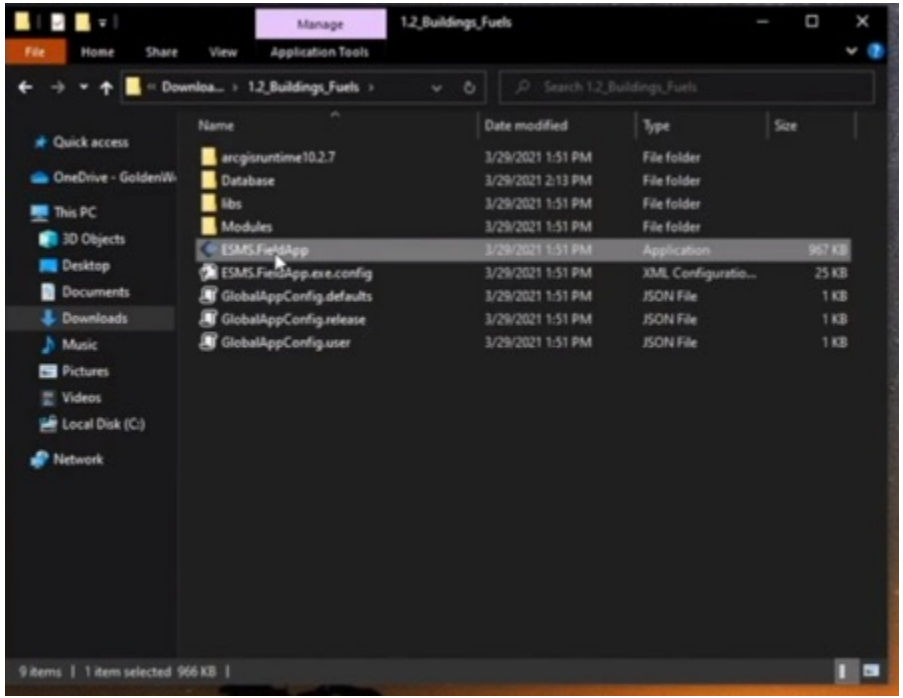
Find the “ESMS FieldApp.exe”



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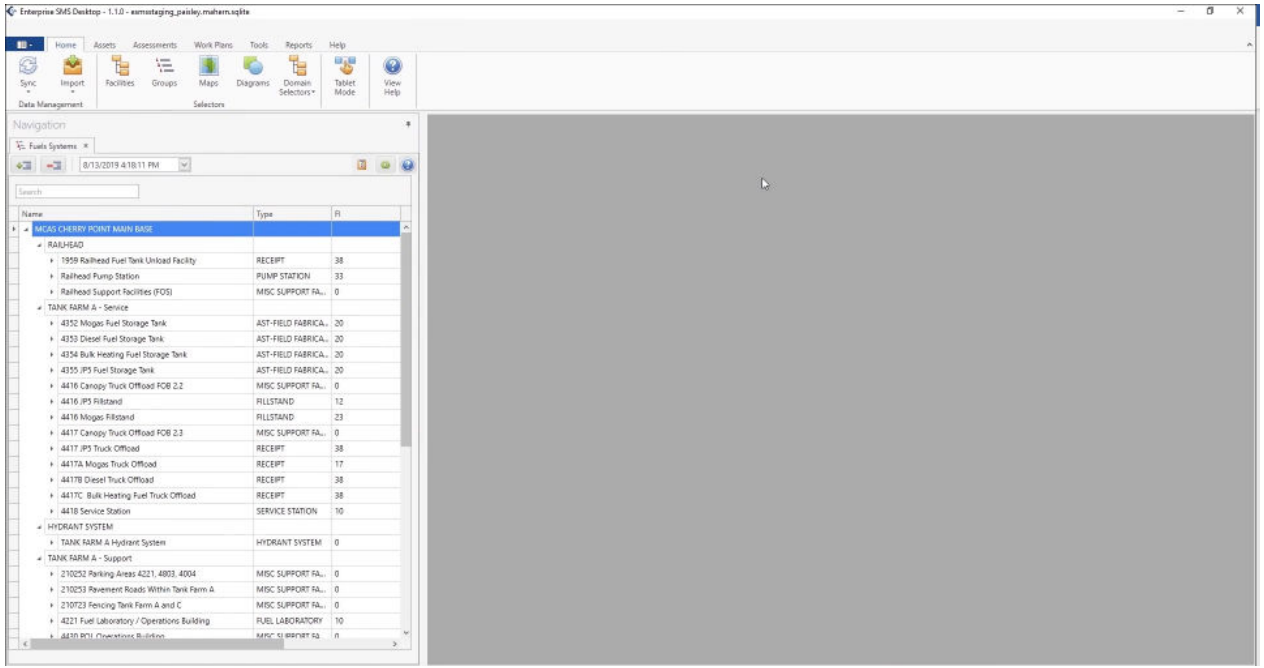
Fuels Module



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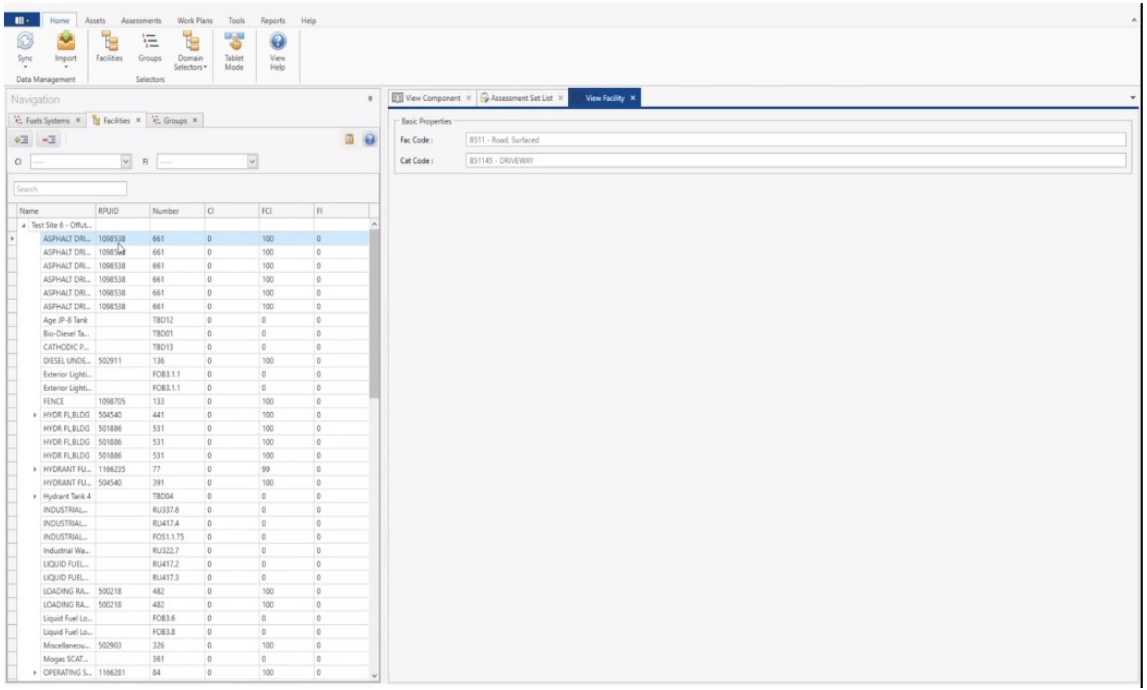
Buildings



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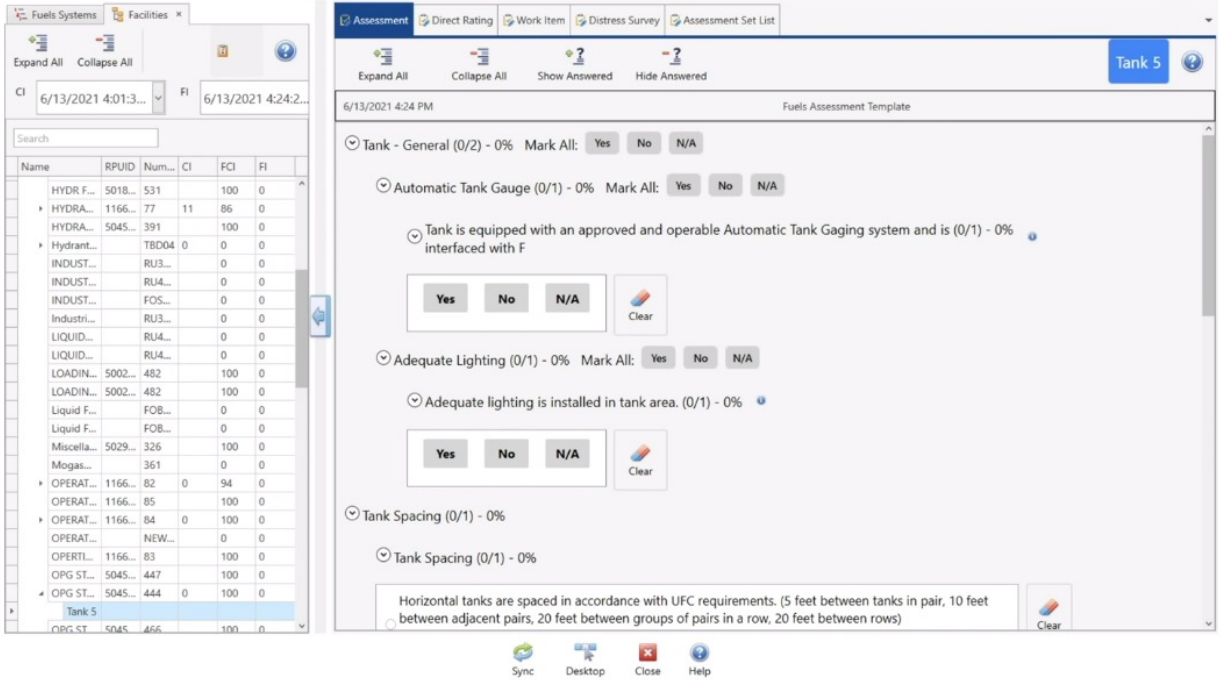
Tablet View



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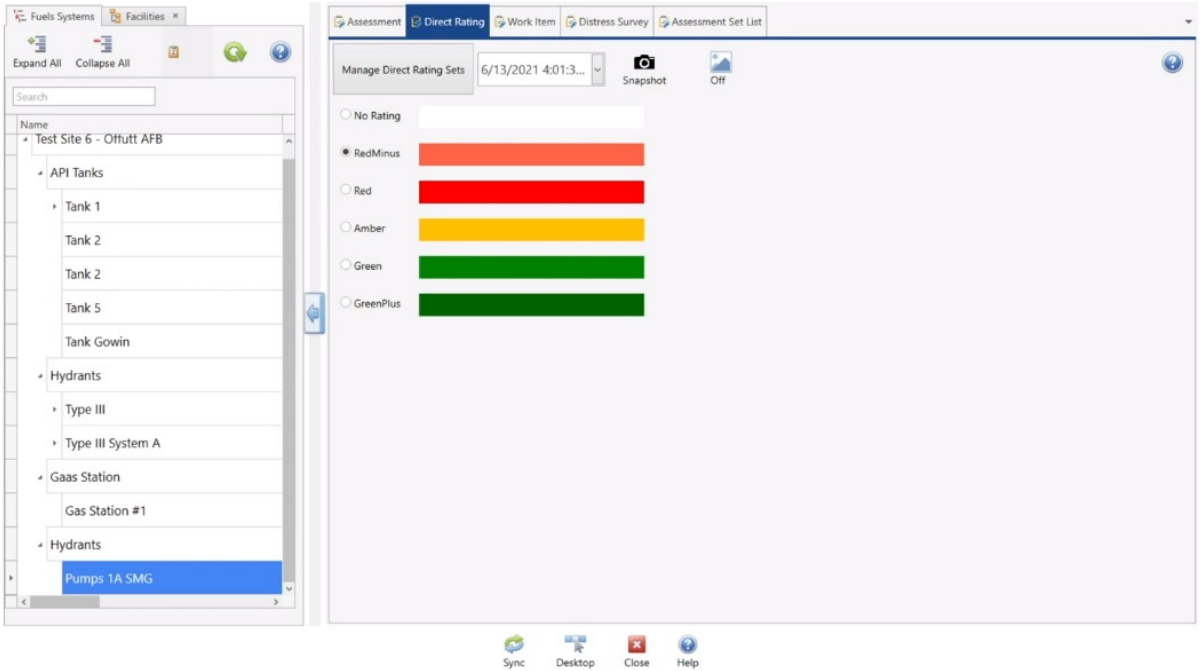
Direct Ratings



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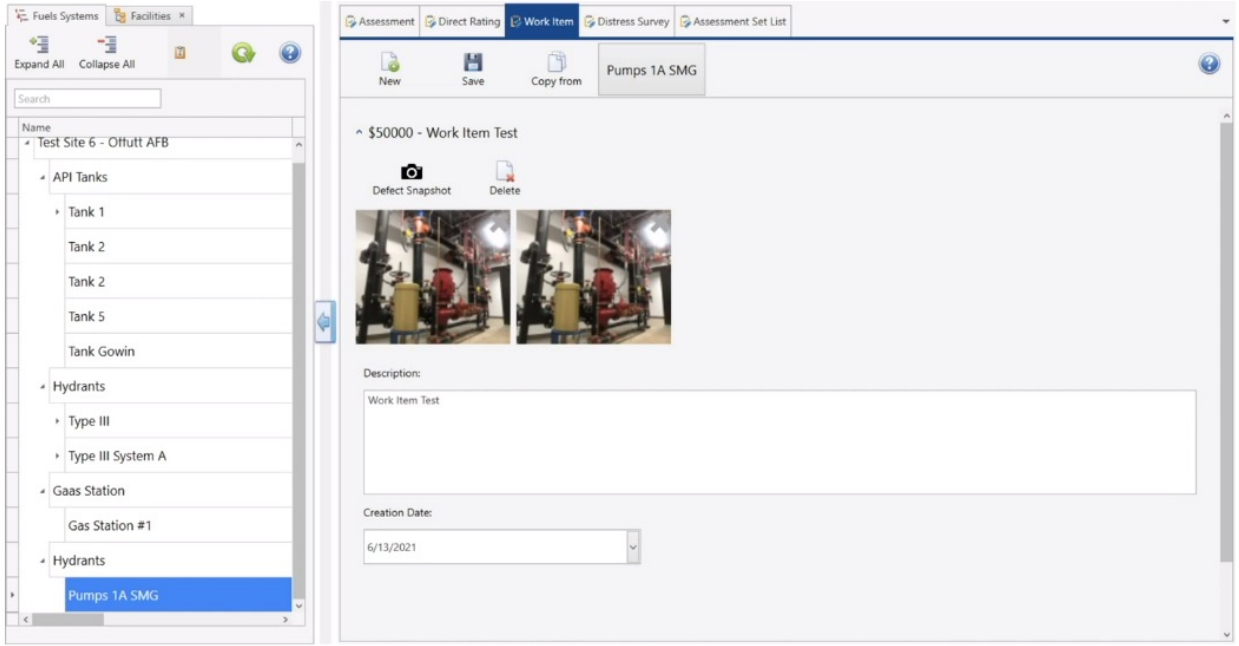
Custom Work Items



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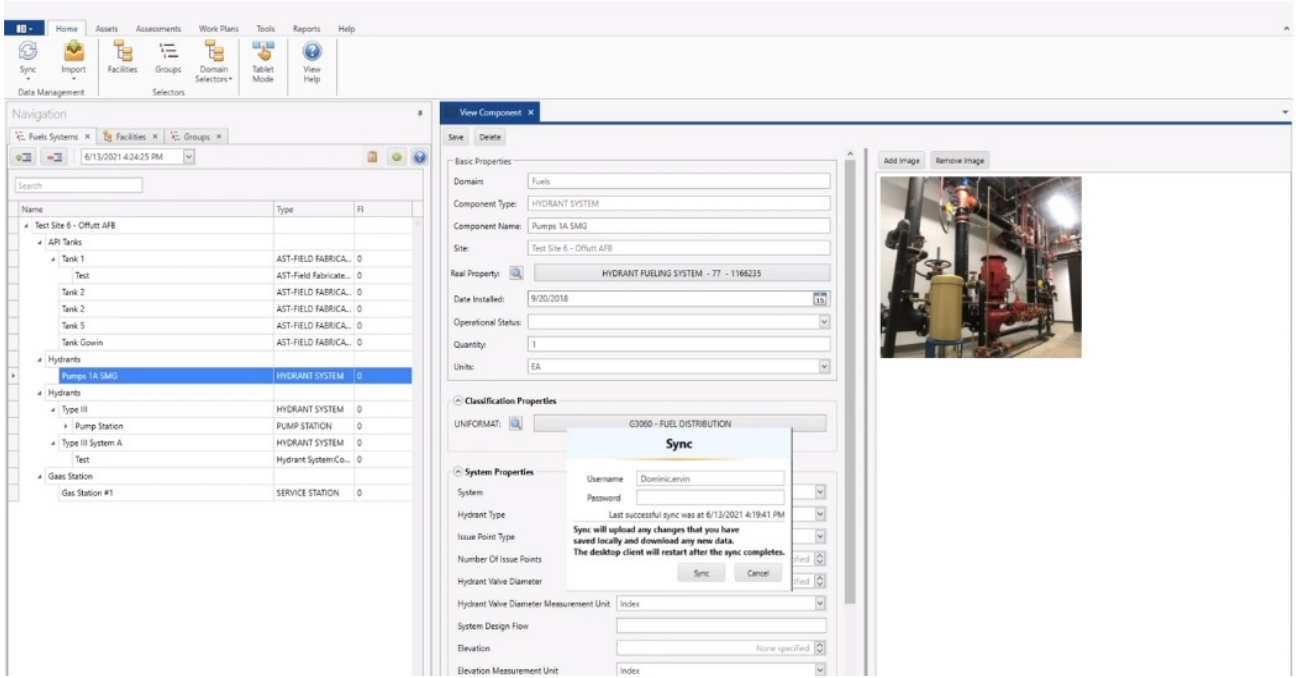
Don’t forget to Sync



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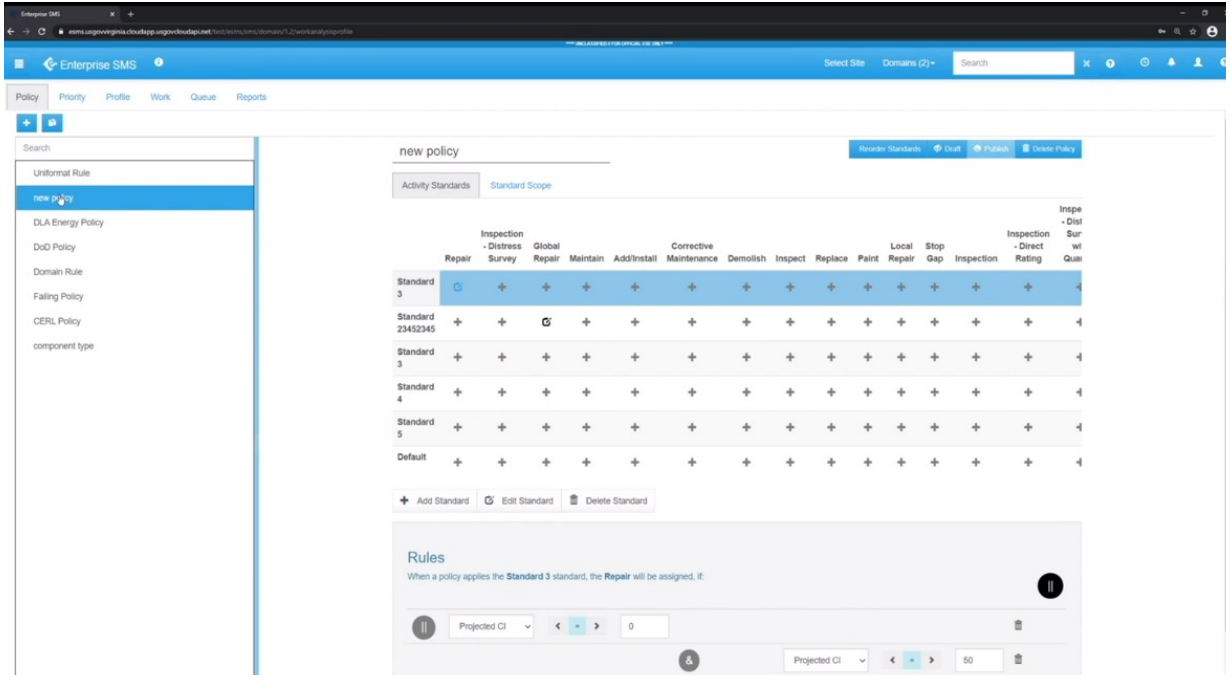
Work Analysis

Policy



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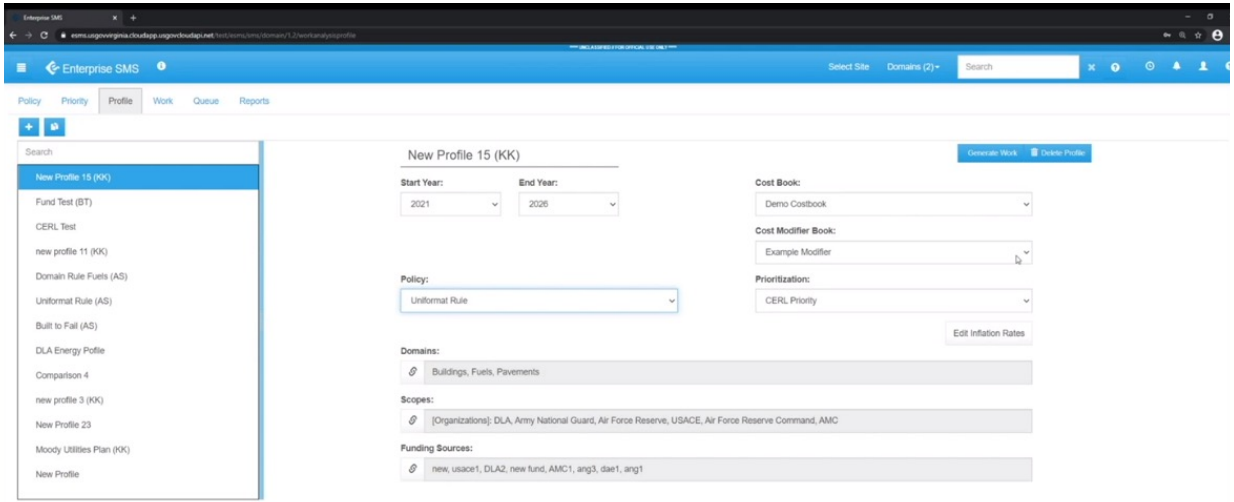
Work Analysis

Profile:

New

Scenario



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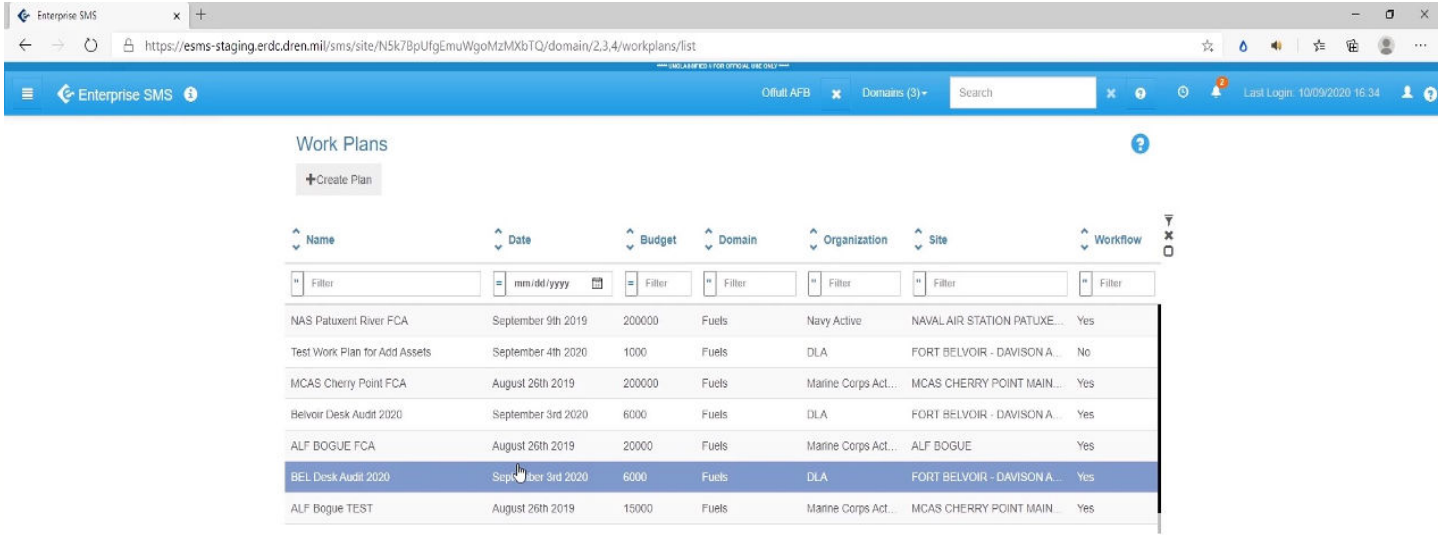
Work Plans



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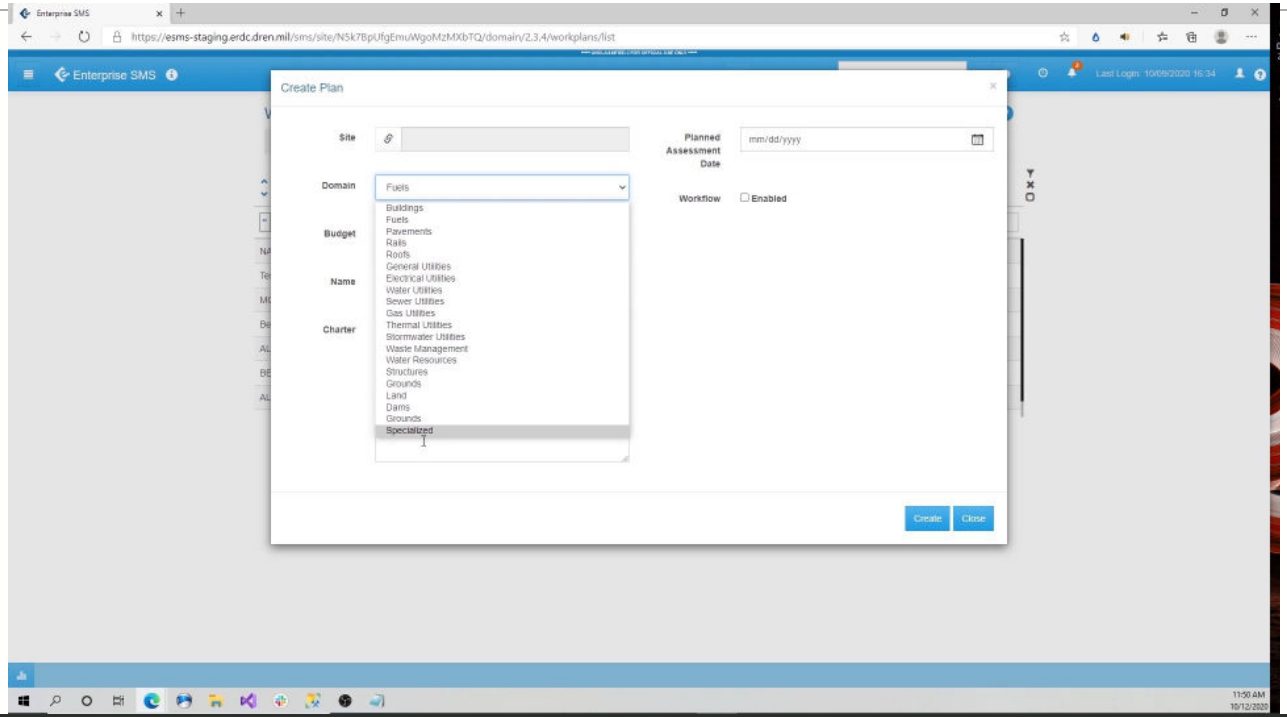
Create a Work Plan



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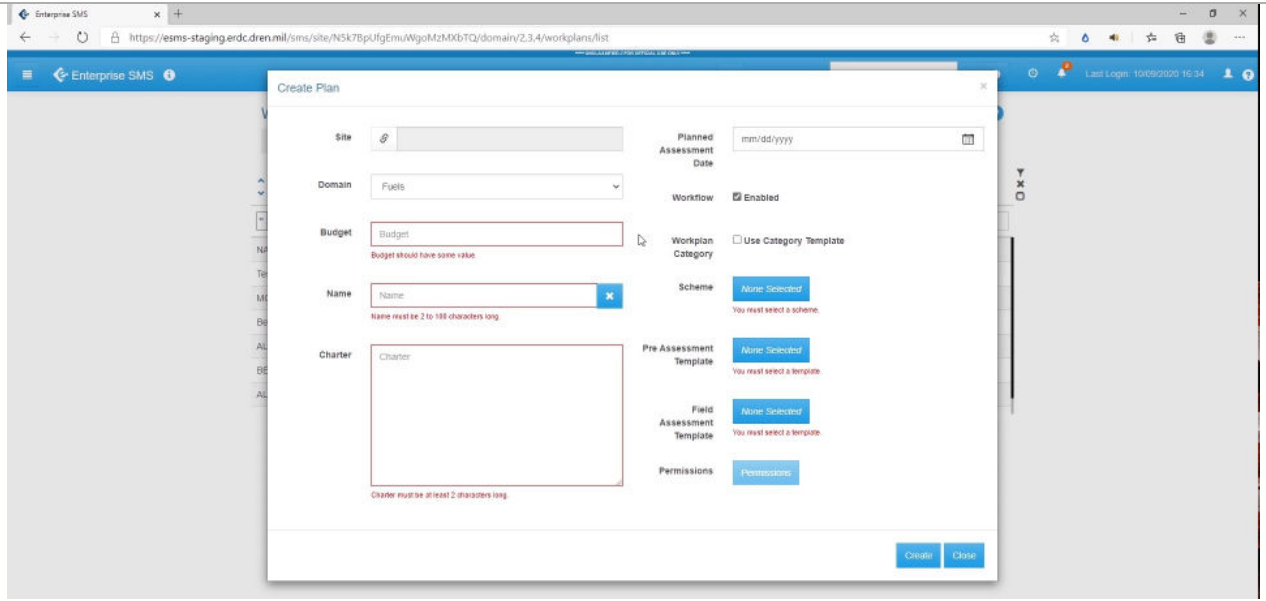
If you Enable WorkFlow…



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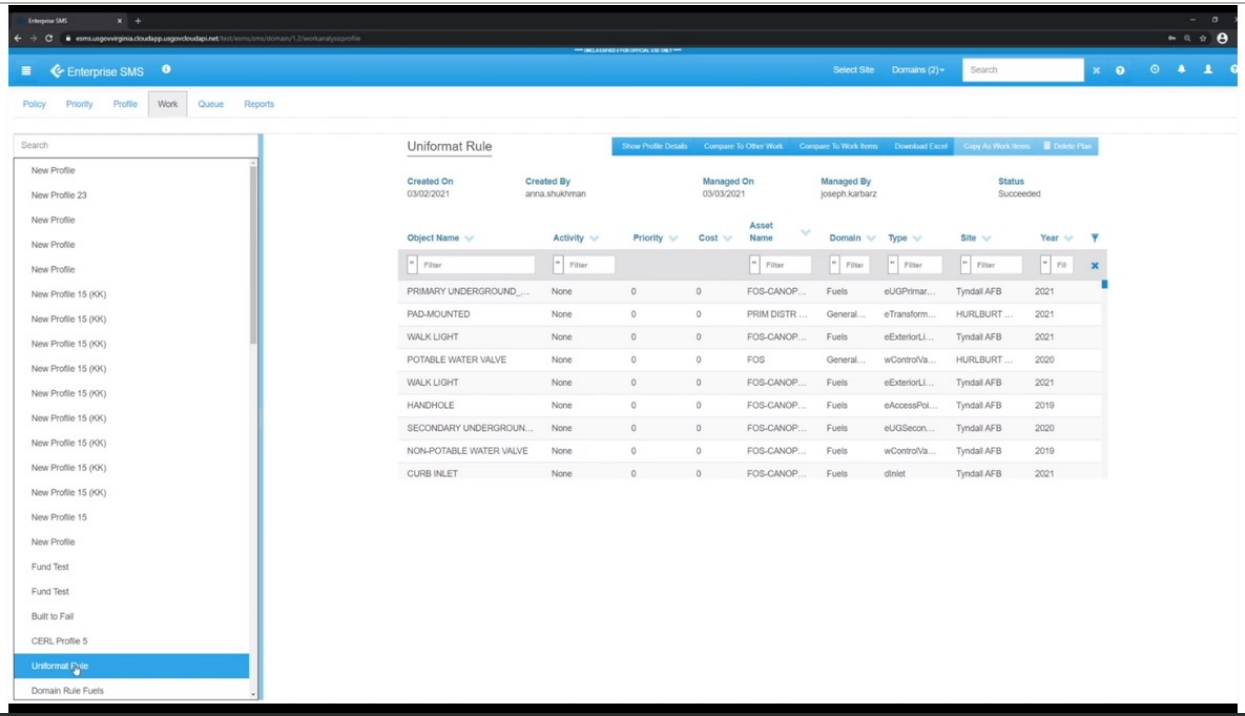
Work



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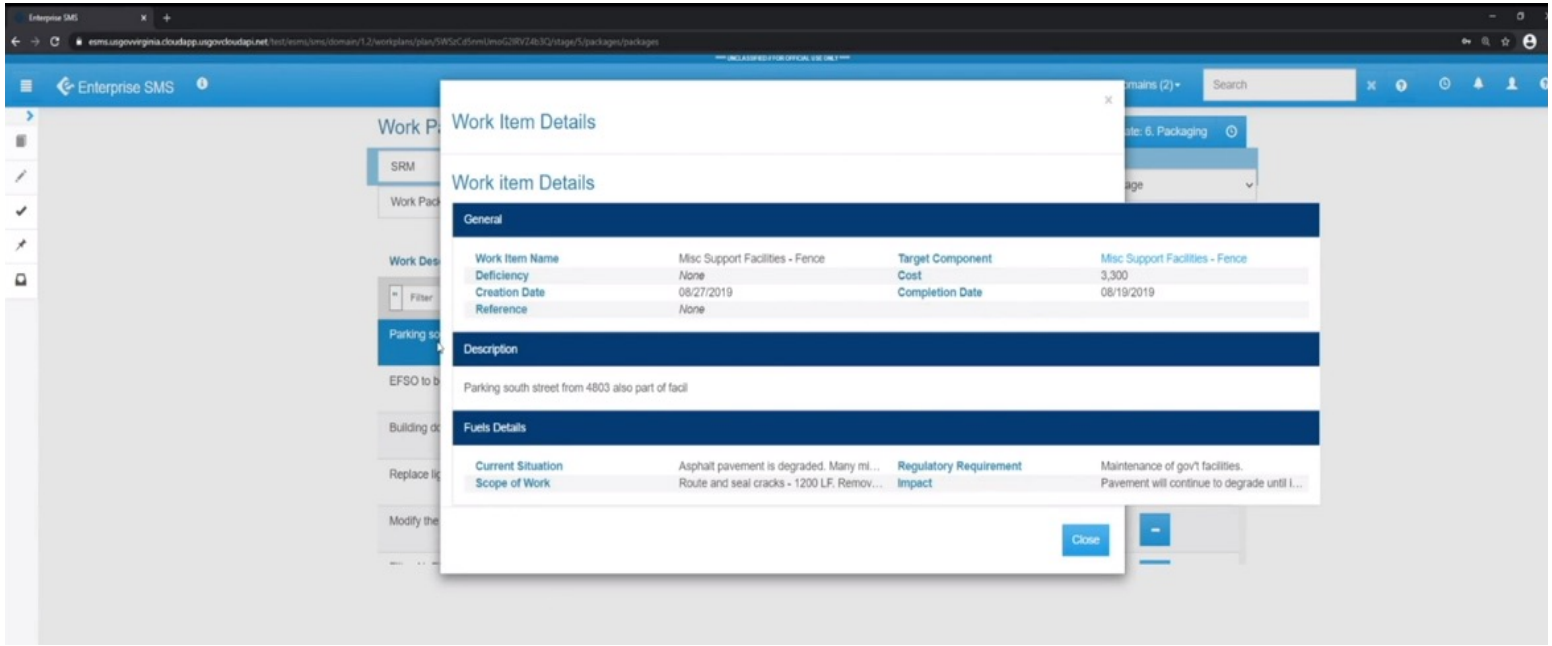
Work Detail



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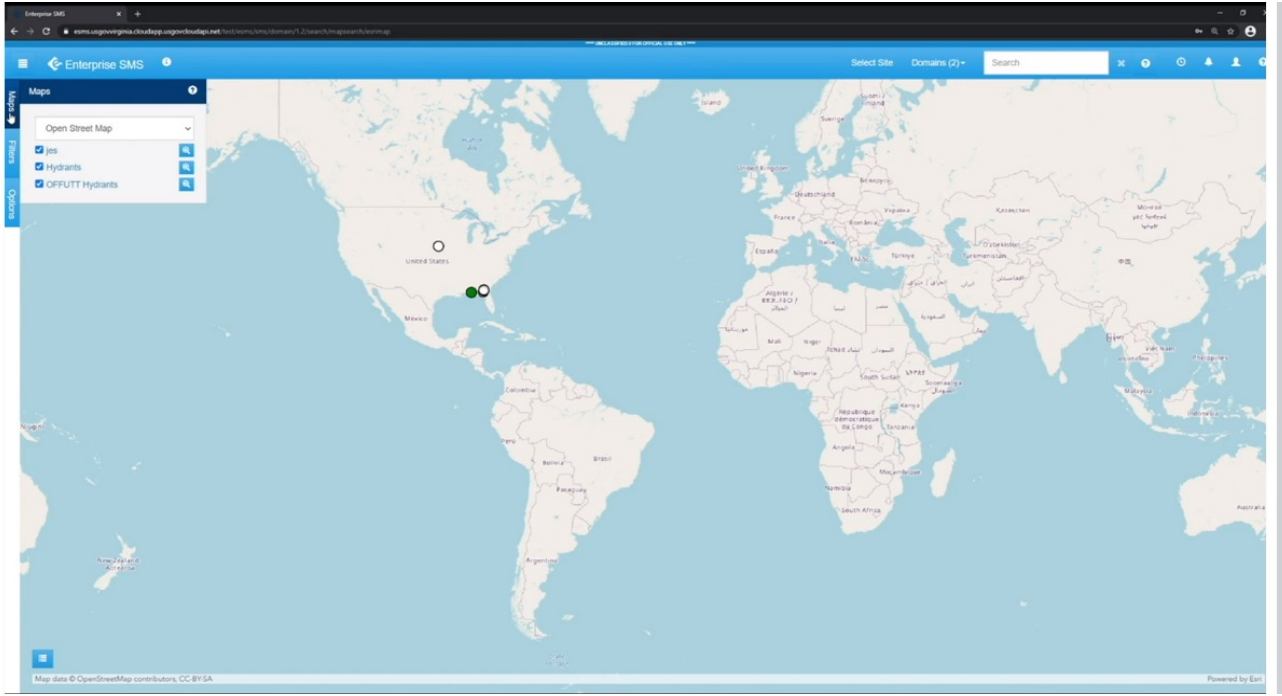
BUILDER SUMMIT

Map



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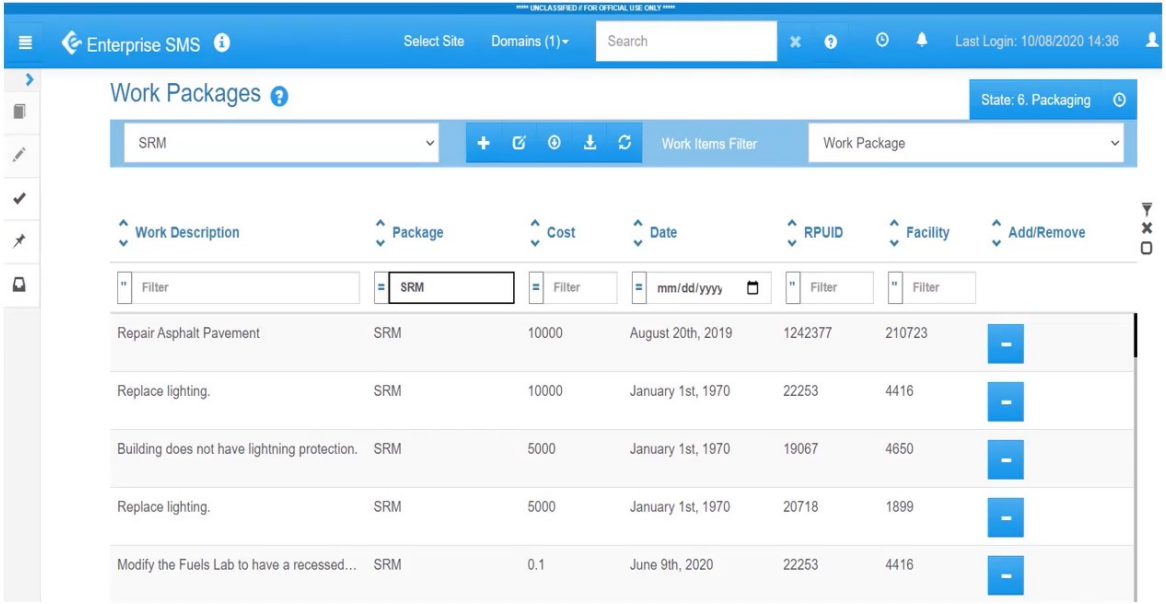
Work Package



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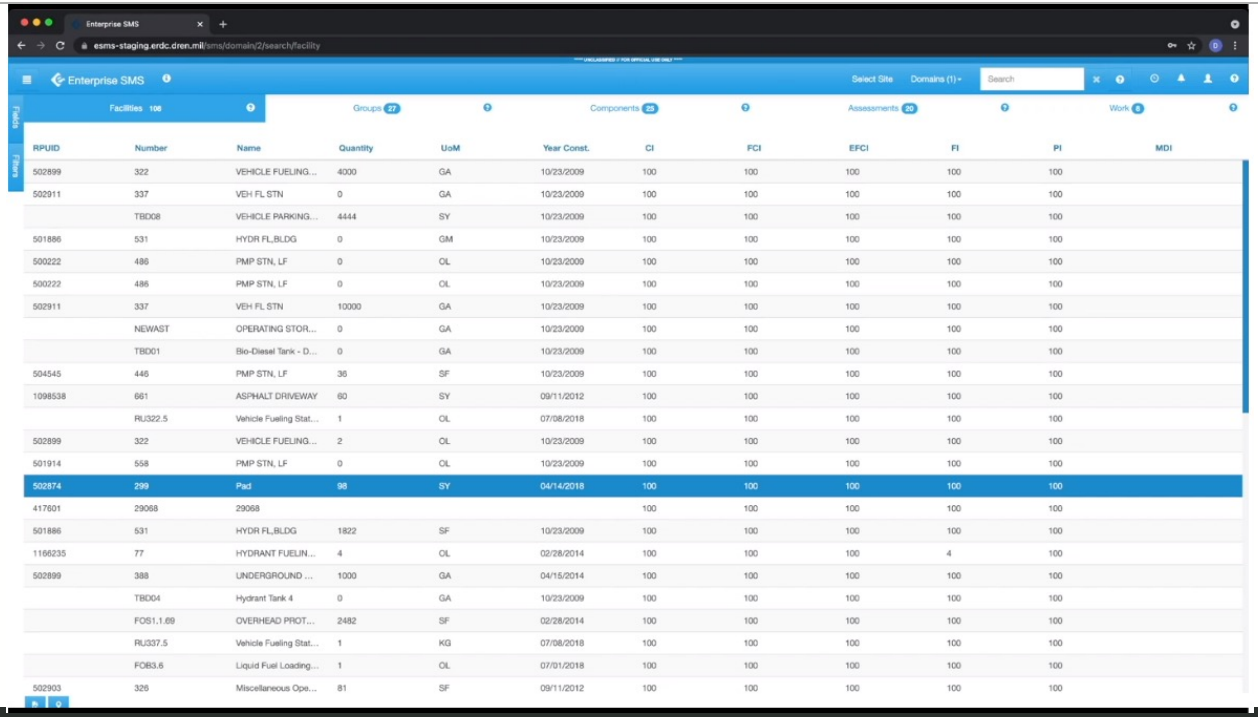
Searching



RPUID	Number	Name	Quantity	UoM	Year Const.	CI	FCI	EFCI	FI	PI	MDI
502899	322	VEHICLE FUELING...	4000	GA	10/23/2009	100	100	100	100	100	
502911	337	VEH FL STN	0	GA	10/23/2009	100	100	100	100	100	
	TBD08	VEHICLE PARKING...	4444	SY	10/23/2009	100	100	100	100	100	
501886	531	HYDR FL_BLDG	0	GM	10/23/2009	100	100	100	100	100	
500222	486	PMP STN, LF	0	OL	10/23/2009	100	100	100	100	100	
500222	486	PMP STN, LF	0	OL	10/23/2009	100	100	100	100	100	
502911	337	VEH FL STN	10000	GA	10/23/2009	100	100	100	100	100	
	NEWAST	OPERATING STOR...	0	GA	10/23/2009	100	100	100	100	100	
	TBD01	Bio-Diesel Tank - D...	0	GA	10/23/2009	100	100	100	100	100	
504545	446	PMP STN, LF	36	SF	10/23/2009	100	100	100	100	100	
1098538	661	ASPHALT DRIVEWAY	60	SY	09/11/2012	100	100	100	100	100	
	RU322.5	Vehicle Fueling Stat...	1	OL	07/08/2018	100	100	100	100	100	
502899	322	VEHICLE FUELING...	2	OL	10/23/2009	100	100	100	100	100	
501914	558	PMP STN, LF	0	OL	10/23/2009	100	100	100	100	100	
502874	299	Pad	98	SY	04/14/2018	100	100	100	100	100	
417601	29068	29068				100	100	100	100	100	
501886	531	HYDR FL_BLDG	1822	SF	10/23/2009	100	100	100	100	100	
1166235	77	HYDRANT FUELIN...	4	OL	02/28/2014	100	100	100	4	100	
502899	388	UNDERGROUND ...	1000	GA	04/15/2014	100	100	100	100	100	
	TBD04	Hydrant Tank 4	0	GA	10/23/2009	100	100	100	100	100	
	FOS1.1.69	OVERHEAD PROT...	2482	SF	02/28/2014	100	100	100	100	100	
	RU337.5	Vehicle Fueling Stat...	1	KG	07/08/2018	100	100	100	100	100	
	FOB3.6	Liquid Fuel Loading...	1	OL	07/01/2018	100	100	100	100	100	
502903	326	Miscellaneous Ope...	81	SF	09/11/2012	100	100	100	100	100	

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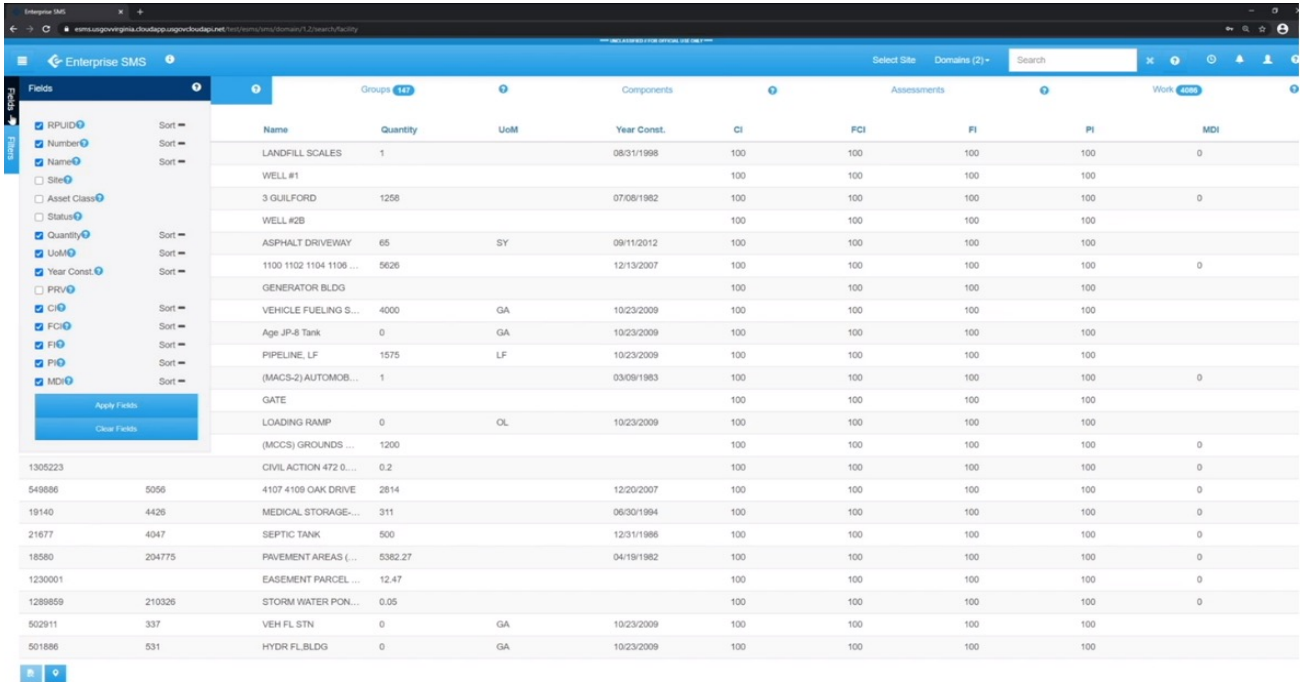
Data Fields to Display



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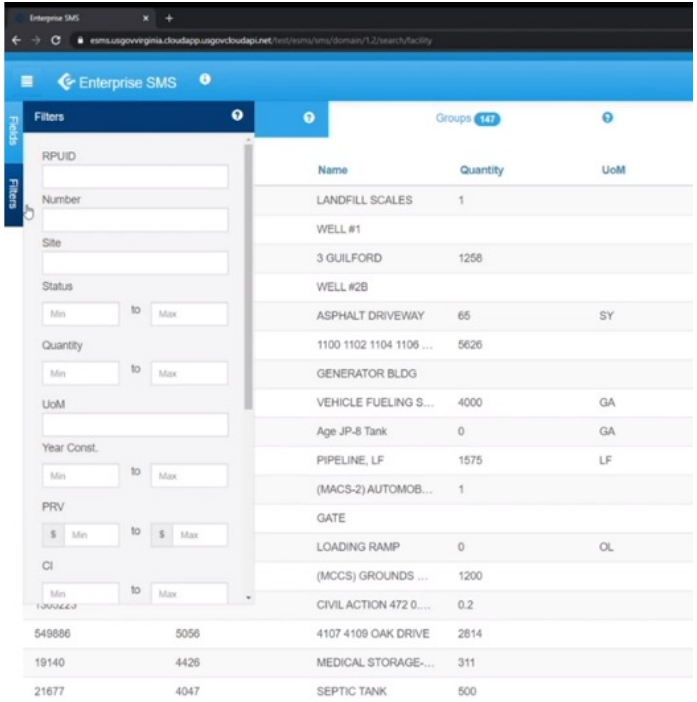
Search Filters



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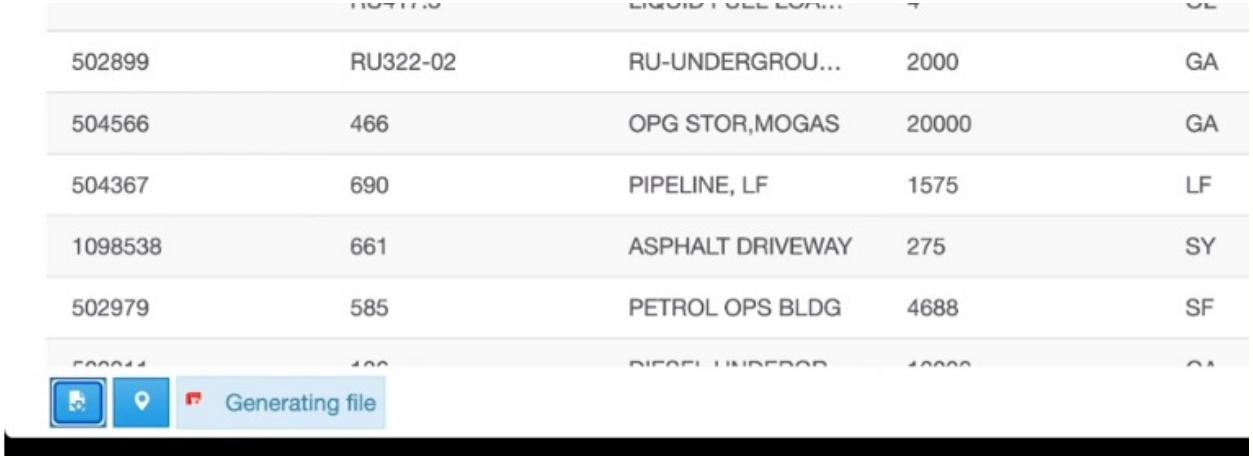
Export a CSV



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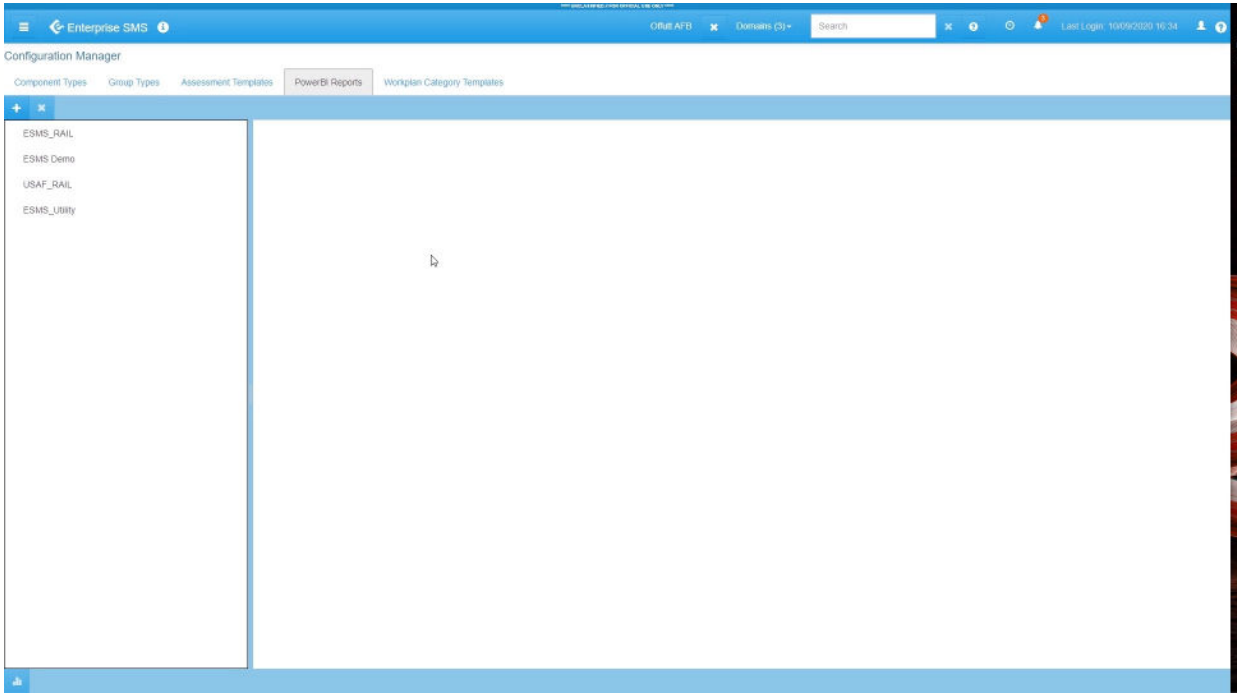
Reports

Select from multiple report options



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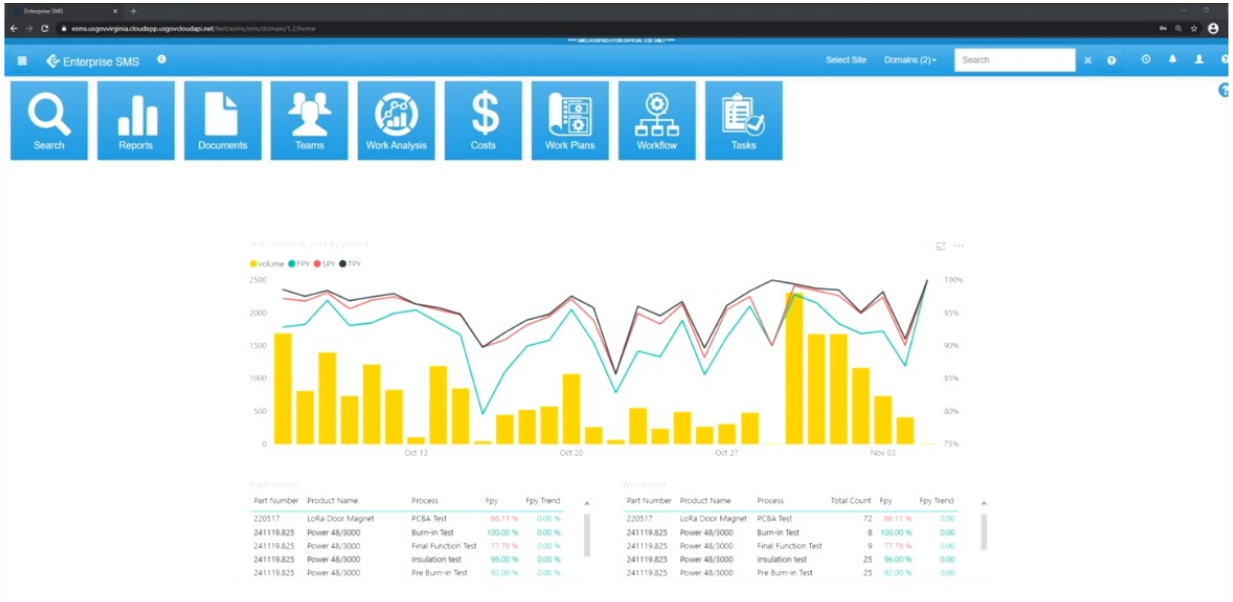
Reports



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AF Utilities Update

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