FY25 Q2 SMS Newsletter

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SAVE THE DATE

Utilities CSP | 22-23 JAN 25

The next Utilities SMS Working group is scheduled for January 22-23, 2025 at the Air Force Civil Engineer Center, Tyndall AFB, Florida. Virtual attendance will be supported for those who cannot join in person. The agenda will emphasize data modeling including a review of the revised utilities models in the Spatial Data Standards for Facilities Infrastructure and Environment. The purpose is to support the stand-up of utility modules in ESMS.

SMS Summit | 8-10 JUL 25

The next SMS Summit will be held at the National Academy of Sciences in Washington, DC 8-10 July 2025.

DAM INSPECTION AT FORT LIBERTY

In October 2024, Clint Wilson and Juan Davila-Perez from CERL, and Steven Goodpaster from Walla Walla District traveled to Fort Liberty, North Carolina to field test the SMS Dams inspection checklists and research data gathering in support of parametric cost estimation for sustainment work actions. Special thanks go to Shaun Stanton and his ERDC inspection team of dam inspection experts for sharing their insights. Thanks also to Yusuf Sharif and Lee Ward from Fort Liberty for hosting and adding DPW perspectives.

CIVIL WORKS AND SMS

In November 2024, CERL hosted a Civil Works Roadshow to spread awareness of Civil Works mission and research and development (R&D) efforts. Mike Mollineaux, a Research Mechanical Engineer with SMS-TCX, provided an overview of the operation and theory behind SMS and its potential use in sustaining civil works infrastructure. This included a discussion on the similarities, differences, and functional overlap between SMS and two other systems used to manage the sustainment of civil works infrastructure – Operational Condition Assessment (OCA) and Facilities & Equipment Maintenance (FEM). Mollineaux's presentation resulted in a planned effort in early 2025 to investigate how SMS, OCA, and FEM could be better integrated to provide efficiencies and mutual benefit.

ESMS DOD WORKING GROUPS

The Department of Defense (DoD) Enterprise SMS (ESMS) Working Group was established to improve the implementation of ESMS for all services and agencies. The working group's objective is to establish standardized processes and best practices, develop approaches to improve data quality, and drive continuous improvement and optimization within the program. Through this collaboration, DoD will be able to enhance decision-making for infrastructure investments. The focus areas within the working group are:

1

SMS Assessment Qualifications

The purpose is to establish a framework for assessment and assessor qualifications. The objective is to define qualifications required by assessors by domain and have as part of the Joint Inventory and Assessment Guide.

2

Data Quality

The purpose is to develop metrics and data standards for Buildings ESMS Data that provide the required level of confidence to support decision-making. The objective is to establish Key Performance Indicators (KPI) for Buildings data with minimum standards (addressing quality and completeness).

3

Assessment Guide

The purpose is to develop a standardized approach to inventory and assessments within ESMS. The objective is to produce appropriate guiding documents for use by services and agencies.

4

Cost Books

The purpose is to establish a Joint Cost Book for ESMS Domains. The objective is to define a Joint Cost Book Framework for all ESMS Domains.

To learn more or get involved with the ESMS working groups contact your service or agency program manager.

LMS UPGRADES & USER IMPACTS

The Learning Management System (LMS) for the Technical Center of Expertise (TCX) is back online after undergoing cosmetic, functional, and security upgrades. User accounts inactive for a year or more were purged, and all other passwords were reset as part of the process. All active users will need to create a new password upon their next login using the 'Lost Password' link on the login page. Completed Army Required Training was tracked, and user accounts were updated with the appropriate certificates in BUILDER. Training in progress was not recovered and will need to be retaken. We appreciate your patience while the LMS was upgraded, and we look forward to your feedback on the new training site.

ESMS QUICK UPDATES

- Sandbox Environments will be available for use testing and API development. Contact our Helpdesk to learn more.
- The work analysis engine, Builder import capabilities, and GIS data import capabilities have undergone across-the-board fixes and enhancements in FYQ1. Final touches are being put on the work analysis engine, several successful tests were run on Builder import capabilities, and GIS data import development is heavily underway.

ESMS FIELD APP UPDATE

Enterprise SMS (ESMS) Field App development is heavily underway. Field capabilities will introduce a quality assurance and quality control (QA/QC) data staging area called Workspaces. This new feature will eliminate BRED files, providing a fully centralized and API-supported work area for assessment firms to store and review data before merging into live inventory. ESMS Mobile utilizes the Mobile Information Collection Application (MICA) platform and the 15 years of expertise the MICA team provides. The development team is working with experienced BRED users to improve user experience in the ESMS Field App. A minimum viable product (MVP) will begin field testing in April FY25.

SMS-TCX PEOPLE UPDATES

- Trevor Betz, Research Mechanical Engineer, completed his PhD in August 2024. Congratulations Trevor!
- Clint Wilson, Research Civil Engineer, served as the U.S. Army Corps of Engineers' (USACE) Local Government Liaison to Pinellas Country, Florida in the wake of hurricanes Hellene and Milton to facilitate communication between local, federal, and other assisting agencies responding to the disaster.



Pictured: USACE Liaison Clint Wilson and USACE Hurricane Milton Emergency Field Office Commander Maj. Matt Westcott

2024 CERL ANNUAL AWARDS

Current, and former SMS-TCX team members took home several awards at the 2024 CERL Annual Awards ceremony in December.



Technology Infusion Achievement Award

SMS team members won the James D. Prendergast Technology Infusion Achievement Award for creating the ESMS Demo Site, which has an example infrastructure dataset used for testing the application and training users.

Recipients: Rhoda F. Brucker, Jeffery W. Bulmahn, Thomas B. Doty, Mark E. Fisher, Michael N. Grussing, Kirsten E. Landers, Paisley P. Mahern, Daniel H. Marcuccilli, Eric R. Mixon, Brayden J. Riesberg, Robert A. Sievers, Ryan E. Smith, Jayalakshmi Subramanian, Matthew C. Walters, Clint A. Wilson

Distinguished Employee Award

Dr. Don Uzarski, Principal Investigator of the initial versions RAILER and BUILDER, won the Distinguished Employee Award which recognizes a former CERL employee whose career body of work produced outcomes that have significant and long-lasting impact on the Army, DoD, and the Nation.





Research Assistant of the Year

Robert Skudnig, Research Assistant, won the Research Assistant of the Year award for his work on the Machine Learning Methodology to Predict Facility Mission Dependency Index (MDI) project.

2024 SMS PUBLICATIONS

Bartels, L. B., Betz, T. S., & Grussing, M. N. (2024). Measuring and Optimizing for Infrastructure Endurance. *Journal of Performance of Constructed Facilities*, *38*(4), 04024024. Read more.

Betz, T., El-Rayes, K., & Grussing, M. (2024). Multiyear Facility Maintenance Optimization. *Journal of Performance of Constructed Facilities*, *38*(2), 04024005. Read More.

Betz, T., El-Rayes, K., & Johnson, M. (2024). Optimizing the decarbonization of a geographically dispersed building portfolio. *Building and Environment*, *262*, 111767. Read more.

Dulin, S., Betz, T., Bartels, L., & Grussing, M. (2024). Clustering to Inform Infrastructure Inspections. *Journal of Performance of Constructed Facilities*, *38*(6), 06024001. Read more.

Grussing, M. (2024). Utilizing facility data to identify energy improvements. *The Military Engineer*, *116* (753), 61–62. Read more.

Larsen, P., Grussing, M., Bercos-Hickey, E., Bidner, C., LaCommare, K., Landers, K., Mehnert, B., Patricola, C., Powell, A., Spears, M., & Wehner, M. (2024). Weather effects on the lifecycle of US Department of Defense equipment replacement (WELDER). *Building and Environment*, *259*, 111639. Read more.

Thangeda, P., Betz, T. S., Grussing, M. N., & Ornik, M. (2024). InfraLib: Enabling Reinforcement Learning and Decision Making for Large Scale Infrastructure Management. *arXiv preprint arXiv:2409.03167*. Read more.

MEET THE TEAM



Carrie Heishman joined SMS-TCX in June 2024 as the SMS Integration Program Manager. In this role, she supports overall ESMS implementation for all organizations and domains. Ms. Heishman also supports the implementation of the Army's Mission Dependency Index (MDI). Prior to joining SMS-TCX, she managed asset management and real property programs for the U.S. Army. Ms. Heishman has a master's from Johns Hopkins University, is a Project Management Professional (PMP) and a Certified Defense Financial Manager (CDFM). She is a member of the Federal Facilities Council and International Standards Organization (ISO) 55000 Technical Committee 251: Asset Management, where she recently led aspects of the ISO 55000 and 550001 standard updates. She looks forward to collaborating with all stakeholders to ensure the transition to ESMS is as efficient as possible.

Attachments

- FY25-Q2.pdf [1.27 MB]