



December 20, 2011

Standard Unified Modeling, Mapping & Integration Toolkit (SUMMIT)

EXECUTIVE SUMMARY

Description

SUMMIT is a DHS S&T-developed modeling & simulation software environment that enables analysts, emergency planners, responders, and decision makers to seamlessly access integrated suites of modeling tools & data sources for planning, exercise, or operational response. SUMMIT is being used in small and large-scale exercises to accelerate scenario planning, provide scientifically-grounded scenario data, and enhance the realism and common operating picture. SUMMIT will integrate with the HSEEP Enterprise Platform to provide the modeling & simulation component.

Exit Criteria

The DHS S&T effort will develop the SUMMIT architecture, implement a seed implementation of SUMMIT, and transition the seed implementation of SUMMIT to FEMA NESC for further hardening for operational use. SUMMIT will also be piloted in a number of federal, regional, or state/local exercises.

Major Accomplishments

- Developed SUMMIT cascade architecture
- Demonstrated M&S value across exercise roles and throughout HSEEP cycle through support of NLE 11
- Demonstrated initial integration of M&S (SUMMIT) into HSEEP-EP
- Developed NIEM conformance standard—the first approved and authorized exchange for the HSEEP-EP program
- Identified NESC M&S process flow and aligned it with service lines
- Developed and delivered SUMMIT Strategic Transition Plan

Major Milestones

March 2012	NESC-accessible SUMMIT beta system
April 2012	M&S support of Utah ShakeOut exercise
May 2012	M&S support of NLE 12 Exercise #3
June 2012	NESC-accessible and user-accessible SUMMIT v1 system
July 2012	M&S support of Evergreen Exercise
December 2012	SUMMIT v1 system is operating on DHS system
December 2012	S&T transition of SUMMIT to FEMA complete

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