Connected Vehicle Architecture Workshop

SET-IT Use Example

June 16, 2016

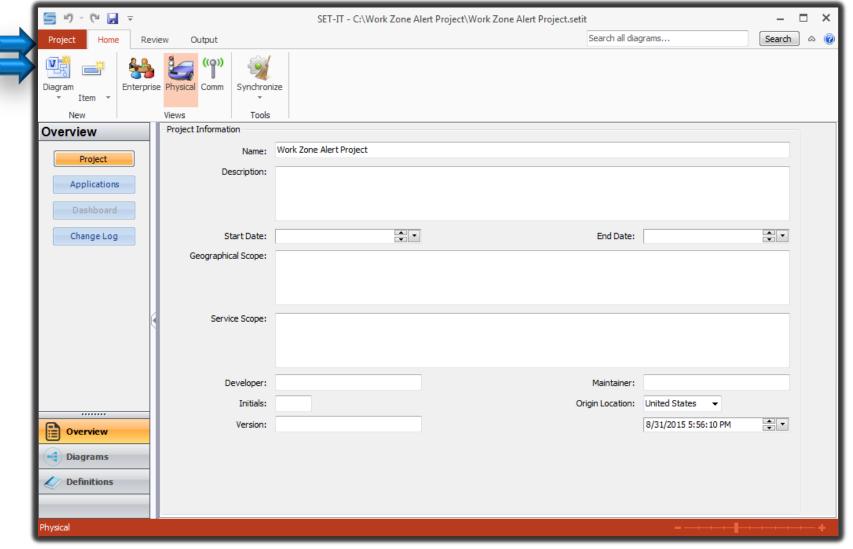
Workshop Agenda

Introduction	9:00 AM
CVRIA Overview	9:20 AM
 CVRIA Website Tour 	9:50 AM
 National ITS Architecture / CVRIA Integration 	10:20 AM
■ Break	10:35 AM
 Attendee Feedback on CVRIA 	10:50 AM
SET-IT Software Tour	11:20 AM
■ SET-IT Use Example	11:50 AM
■ Wrap-up	12:20 PM
Adjourn	12:30 PM

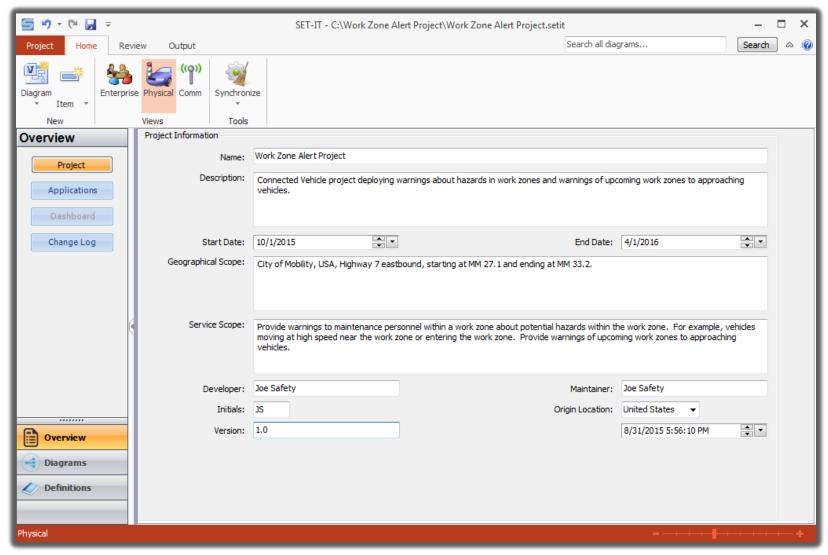
Project Architecture Process using SET-IT

- Start a new project
- Include application(s) in the project
- Tailor the physical view of each application (on a diagram and in the definitions)
- Tailor the enterprise view of the application
- Setup the communications view
- Create outputs

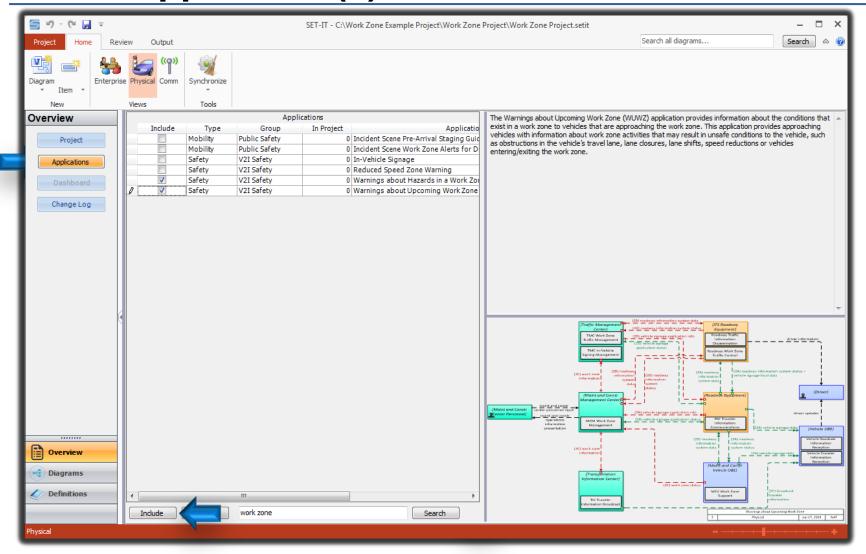
Start a New Project



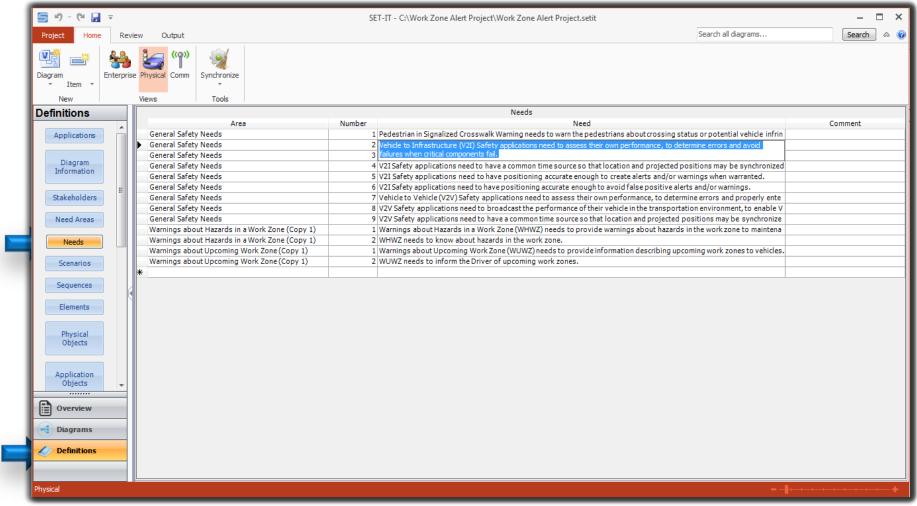
Provide Project Information



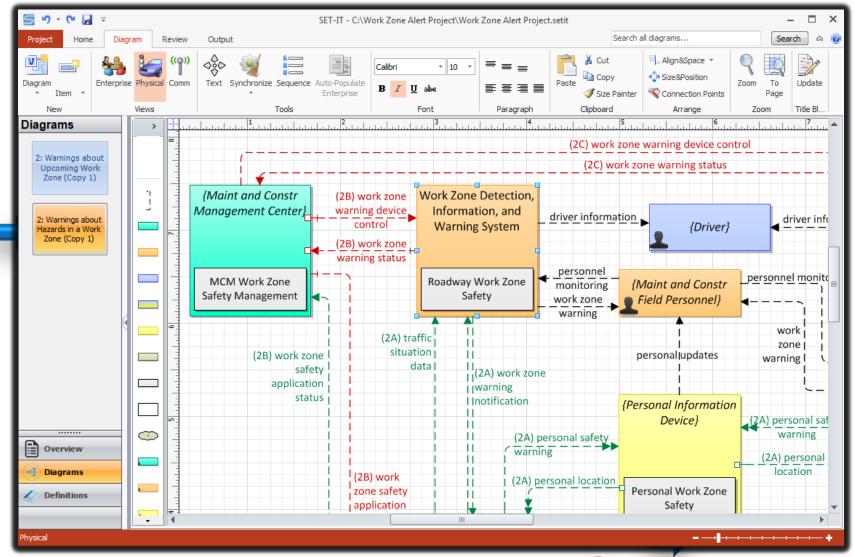
Select Application(s)



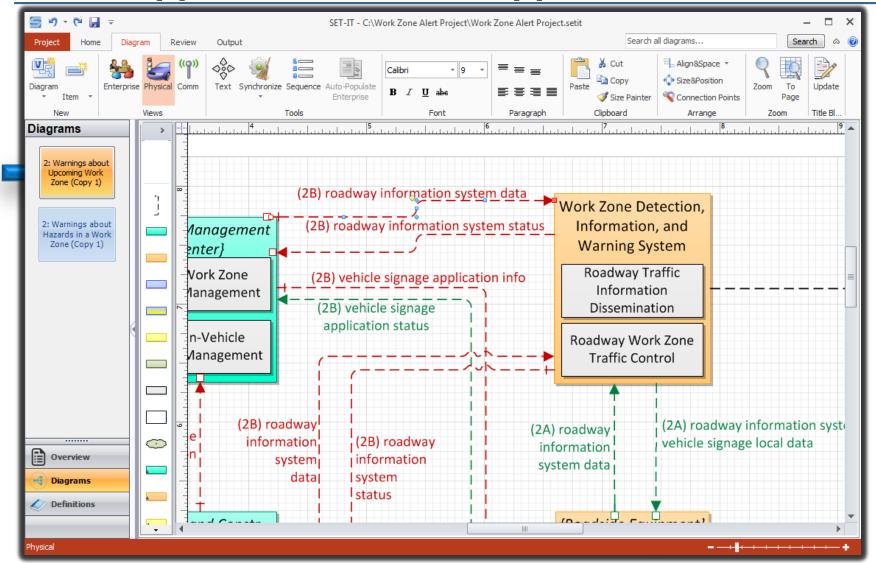
Needs Identification

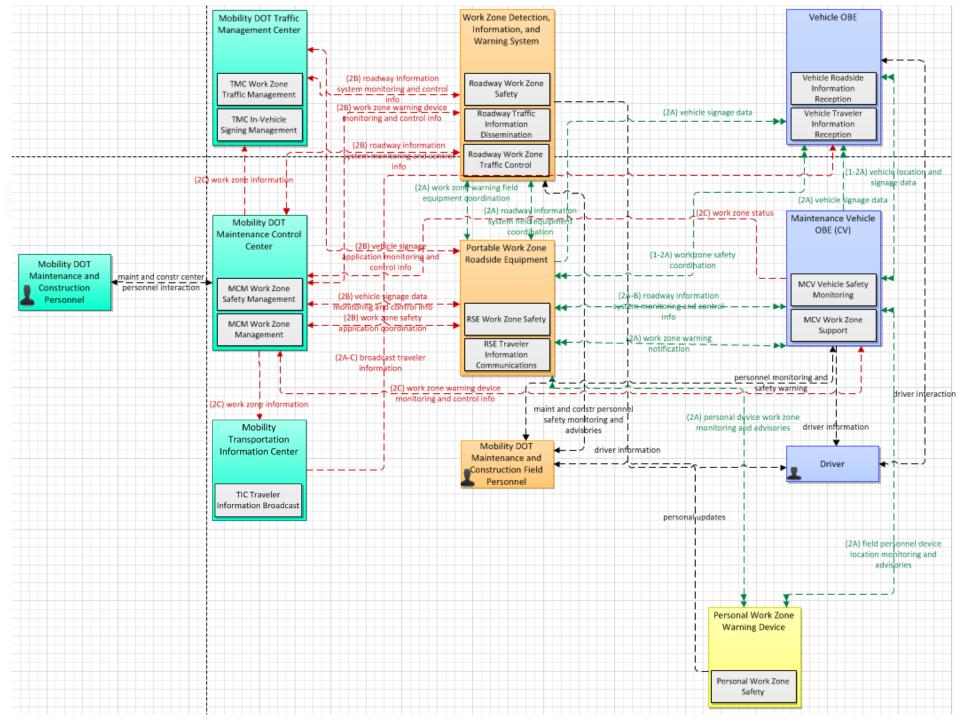


Tailor Applications – Physical Object Definition

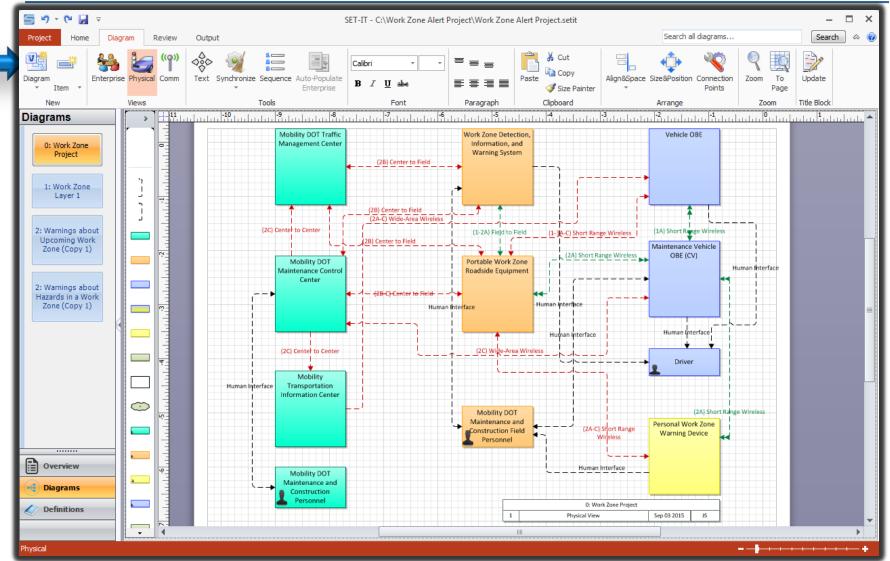


Tailor Applications – Next Application

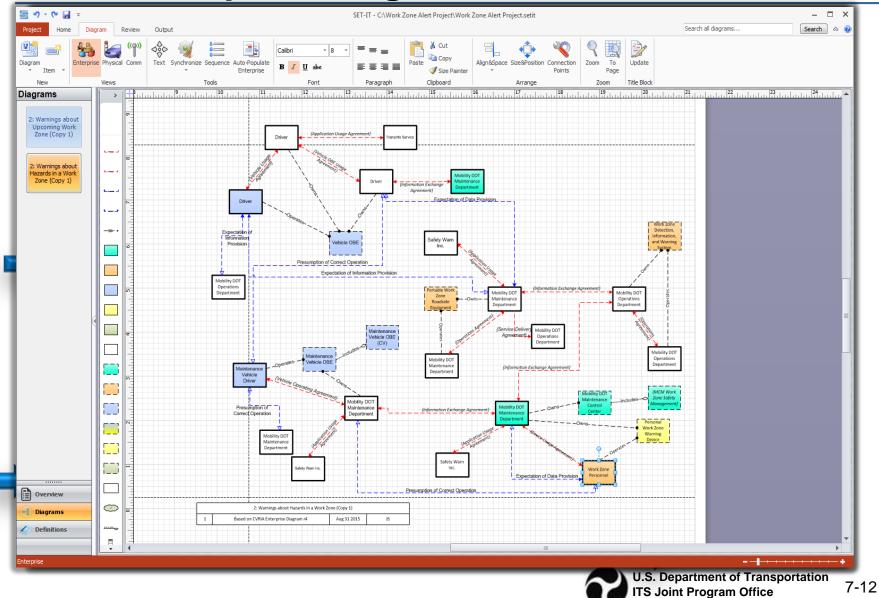




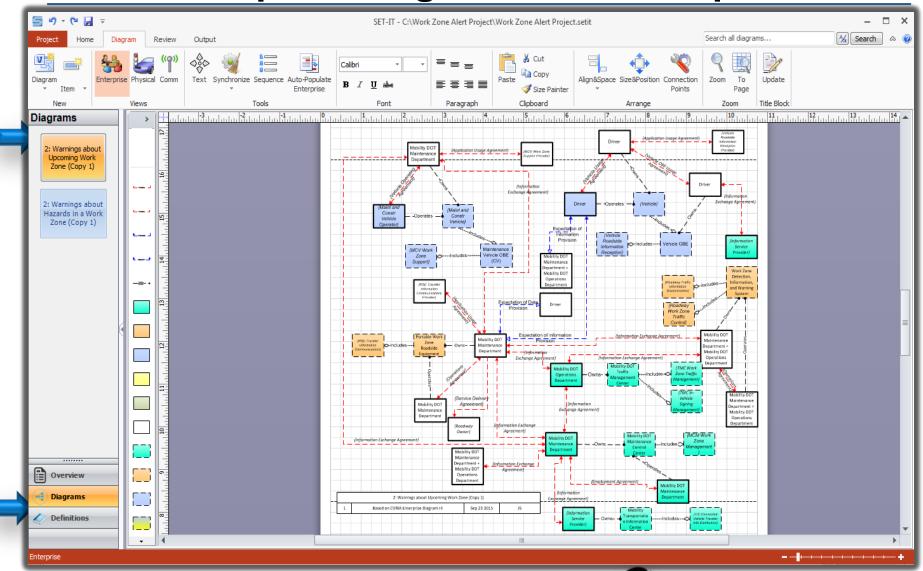
Physical Layer 0 Diagram



Tailor Enterprise Diagrams



Tailor Enterprise Diagrams – Auto-Populate



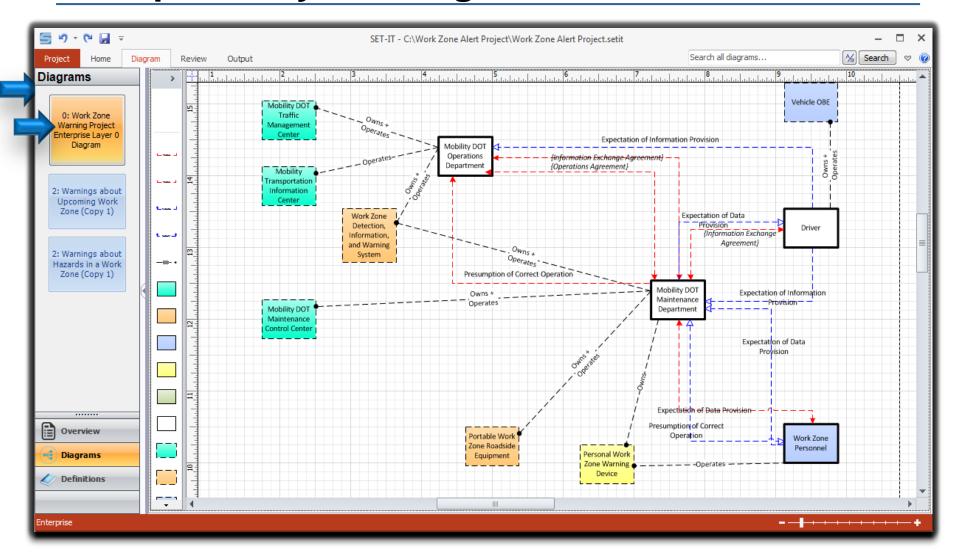
Enterprise Layer 0

- Summarizes the Stakeholders and their Roles and Responsibilities for the entire project
- Create this after you have created a Physical Layer 0 drawing
- Will draw each of the Stakeholders (aka Enterprise Objects)
 - Relationships (agreements, coordination, etc.)
 with each other
 - Relationships with the Resources/Elements they own and/or operate

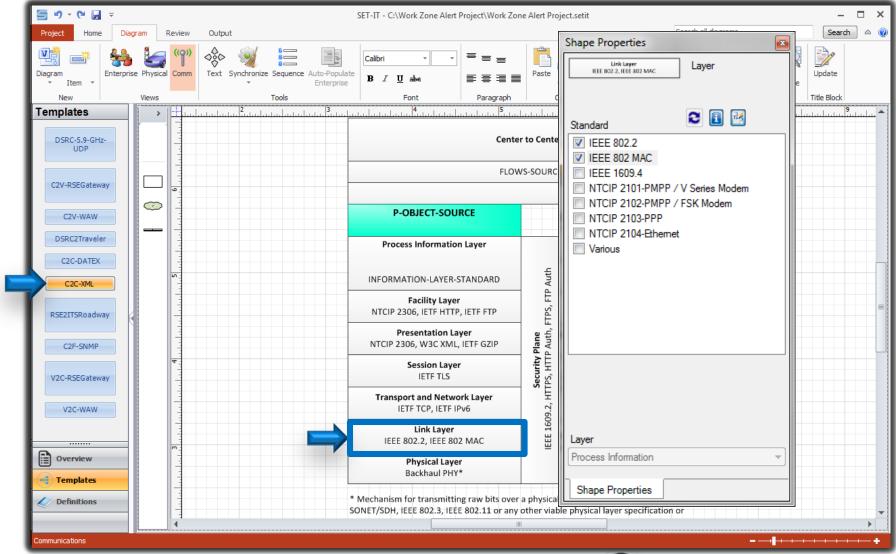
Enterprise Layer 0 (cont)

- You will need to edit the drawing just as with Physical Layer 0
- Used as part of the Concept of Operations

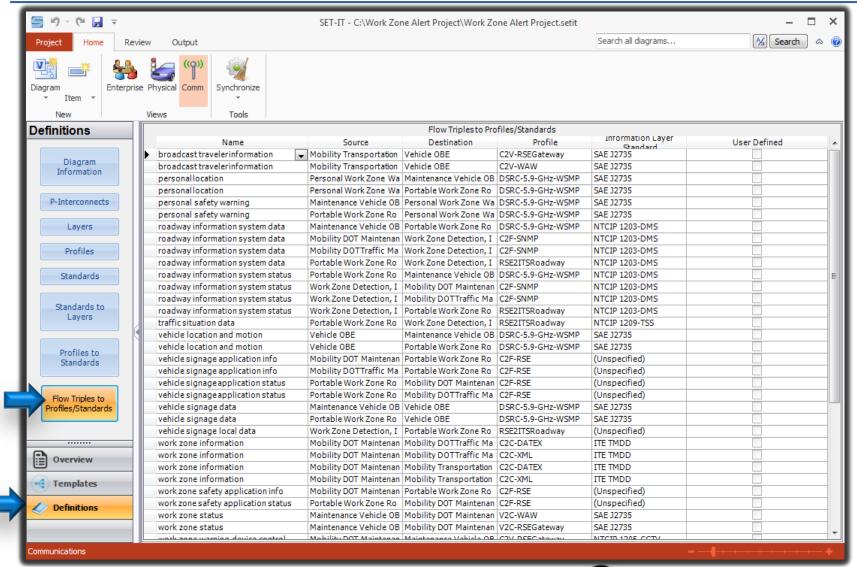
Enterprise Layer 0 Diagram



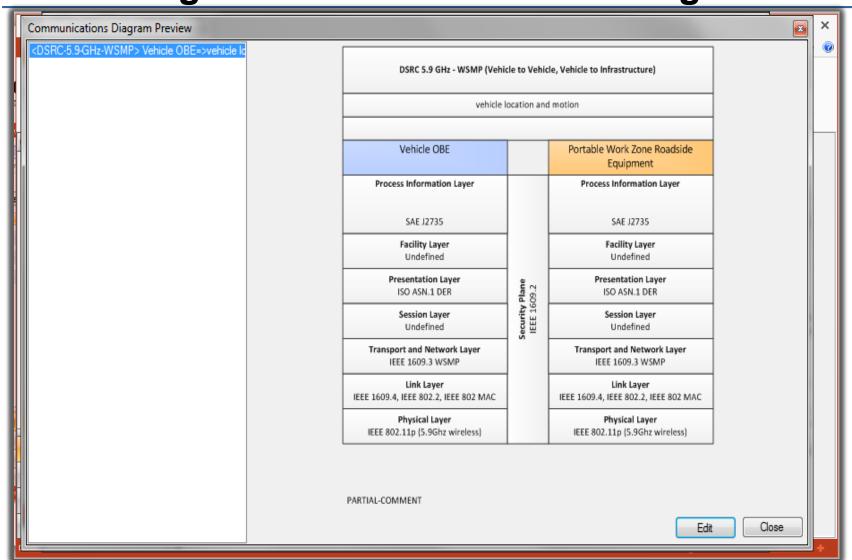
Communications Diagrams



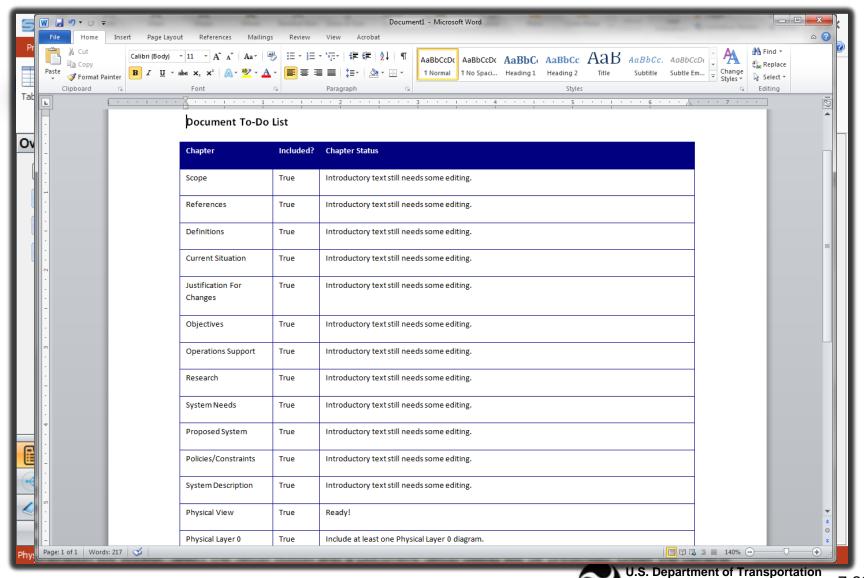
Tailoring Communications View Templates - Definitions



Generating Communications View Diagrams

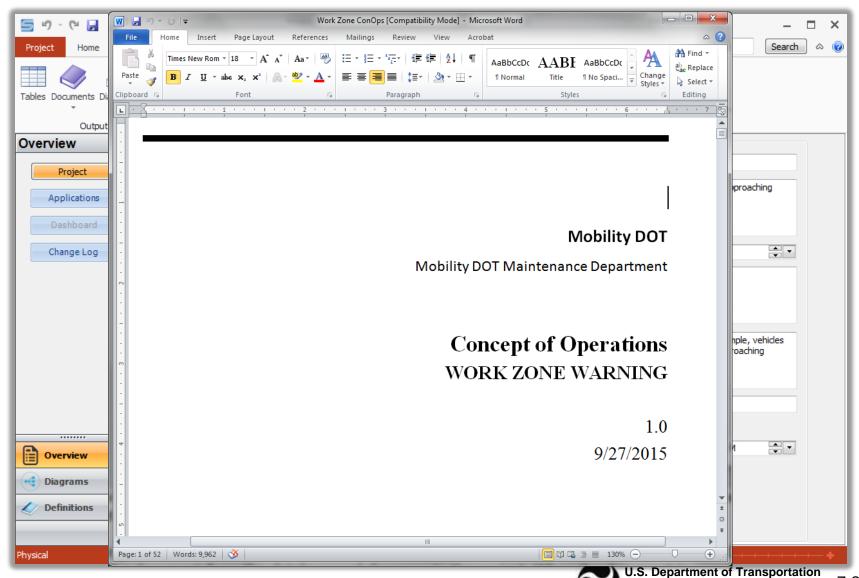


Outputs – Concept of Operations (ConOps)



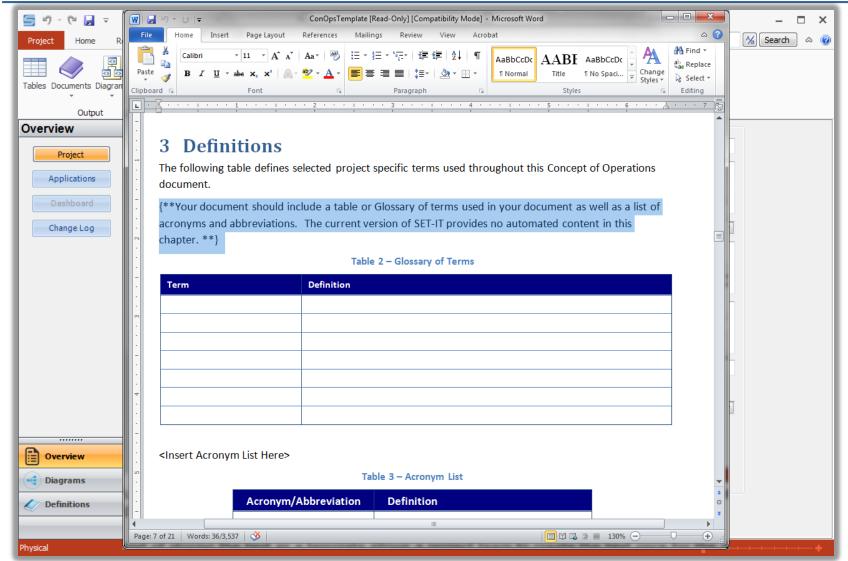
ITS Joint Program Office

ConOps Document Content Setup

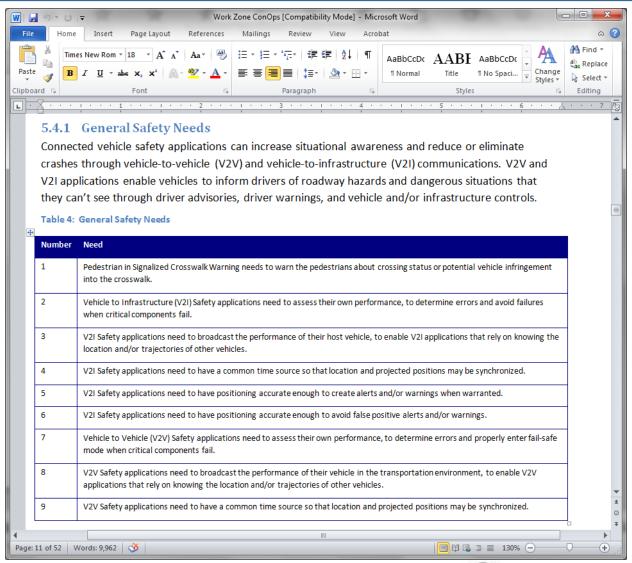


ITS Joint Program Office

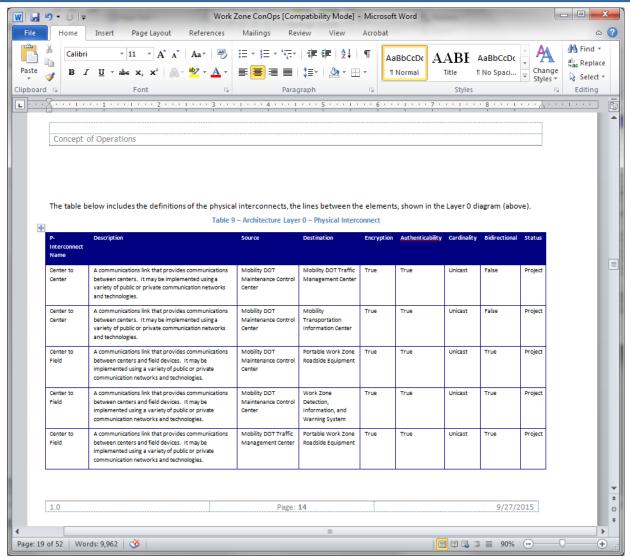
Editing Document Templates



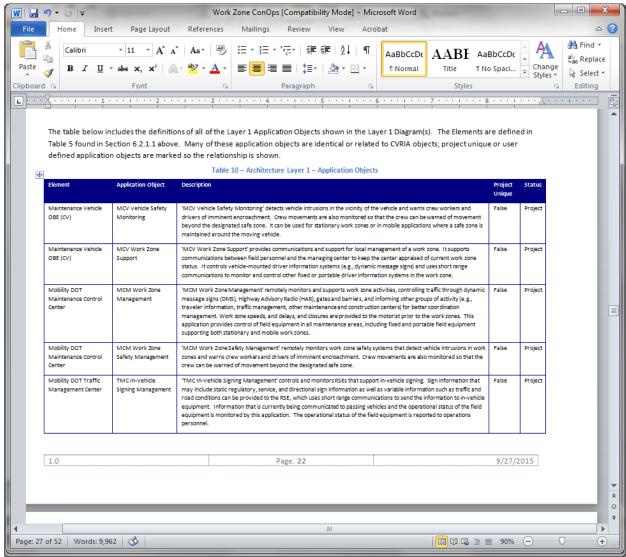
Concept of Operations - Needs



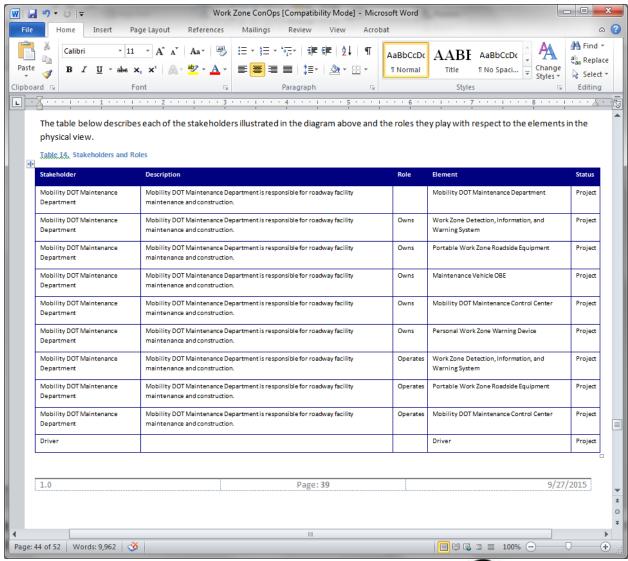
Concept of Operations – Physical Layer 0



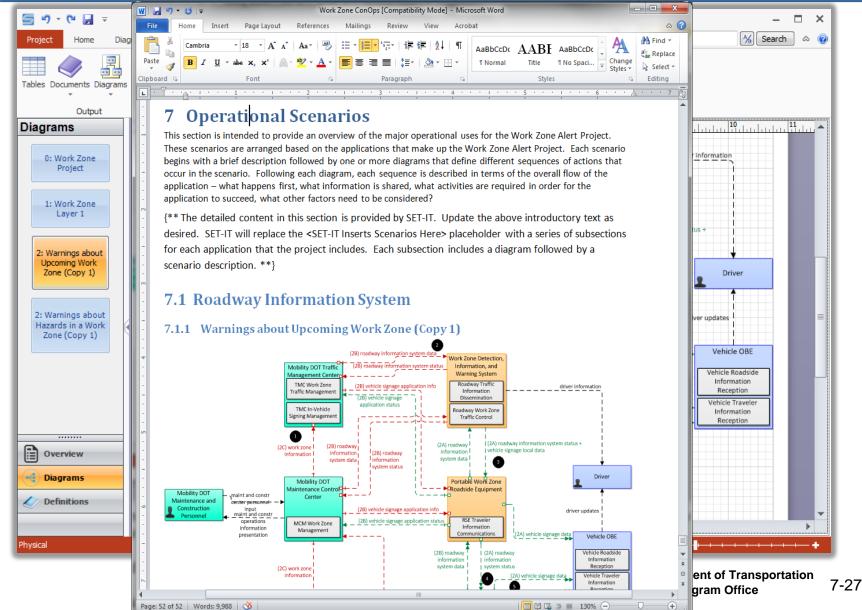
Concept of Operations – Physical Layer 1



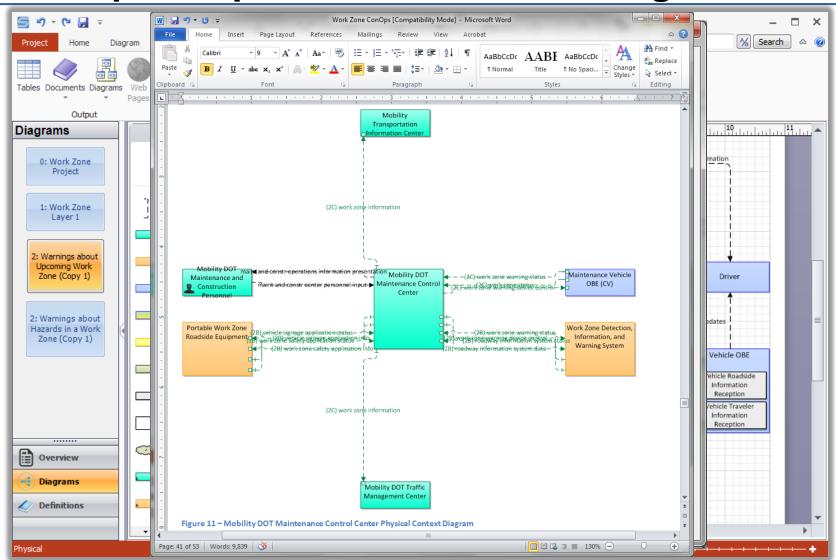
Concept of Operations – Enterprise Layer 0



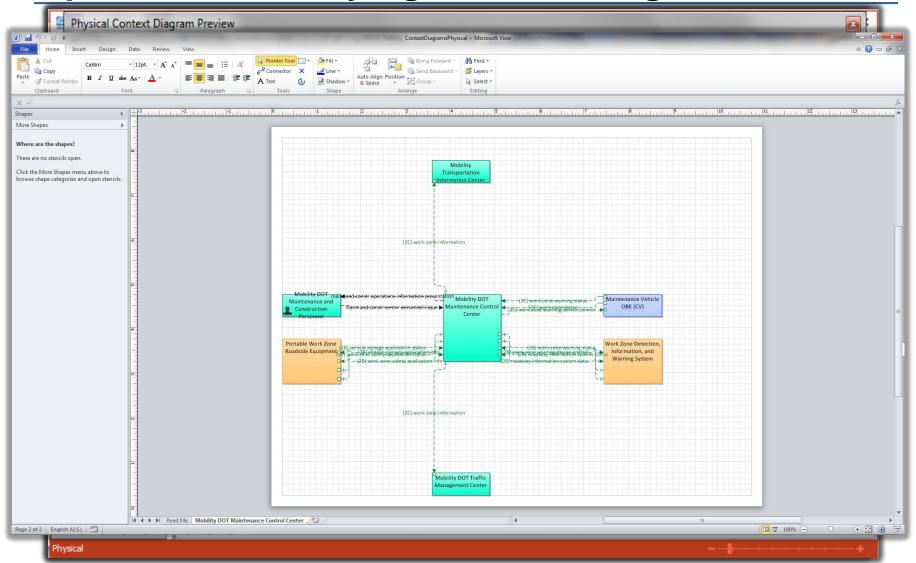
Concept of Operations – Application Scenarios



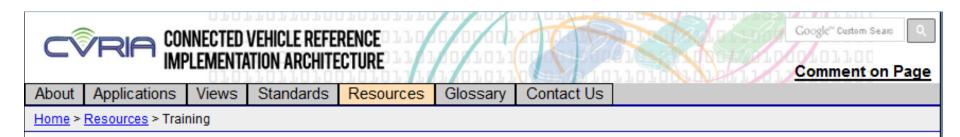
Concept of Operations – Context Diagrams



Options for Modifying Context Diagrams



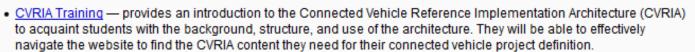
Further Training is Available



Training

In order to better understand the architecture and the software tool that makes use of the architecture, online or web-based training material has been developed.

Each course is modular in nature allowing you to take the training at your own pace. Each course is presented in a web-based format using Adobe Presenter with narration by instructors from the National ITS Architecture team.





SET-IT Training — provides an introduction and overview of the Systems Engineering Tool for Intelligent Transportation (SET-IT) software. The
modules cover the basic layout of the tool, how to navigate the tool, and the basic steps to create a connected vehicle project architecture that is
based on CVRIA.