

Engineering Notes No. 13.1

INFORMATION

NAME: Davian Rosario-Ortiz

DATE: 04/02/25 - 04/08/25

Sprint: 13

JIRA BACKLOG

Responsible for:

- Creating and refining test cases for VerifAI integration.
- Assisting with Final Test Plan development due on 04/15/2025.
- Researching map creation using OSMWebWizard.
- Preparing content for upcoming poster and final video deliverables.

Contributed to:

- Generating test cases to feed into VerifAI for learning and expansion.
- Investigating methods to impact or modify example.py for new map use.
- Coordination and review of Scenic-Sumo test environments.
- Participation in map development discussions and OSM resource review.

RESOURCES & DOCUMENTS CONTRIBUTED TO

Table 1 - Contributions

Date	Resource/Document	Location	Contribution Description
04/03/2025	Test Case Repository	Local drive	Created initial test cases for VerifAI input.
04/03/2025	OSMWebWizard Research	MP 224	Reviewed how to generate new maps via OSM tools.
04/08/2025	Final Test Plan Draft	One Drive	Drafted and updated key sections of the test plan.

COMPONENTS TESTED

Table 2 - Testing

Date Tested	Component	Result	Comments
04/03/2025	Scenic-Sumo map	Functional	Tested with existing and modified map setups.
04/08/2025	VerifAI	Functional	Resolved compatibility issues with correct Scenic Sumo version.

PROBLEMS SOLVED

Table 3 - Solutions

Date	Problem	Solution & Notes
04/03/2025	Map development uncertainty	Reviewed and applied OSM tools, began map experimentation.
04/08/2025	Fatal Error in Scenic-Sumo	Resolved by reverting to working map file.
04/08/2025	VerifAI compatibility issues	Fixed with appropriate version alignment with Scenic-Sumo.

PROBLEMS TO ADDRESS NEXT

Table 4 - Future Problems

Problem	Description
Map integration stability	Ensure map transitions do not cause future system crashes.
Test case refinement	Enhance and evaluate test case quality for robust results.
Poster and Video Planning	Coordinate messaging and visual content by their due dates.

MEETING NARRATIVE NOTES:

Table 5 - Meeting 1

04/03/2025	Meeting Type: In-Class (MP-224)	
Met with Product Owner(s): N		
Problems Brought Up:		
Problem	Proposed Solution	
VerifAI test case creation	Created starter test cases to iterate upon.	
Map import and example script	Modify example.py or use new OSM map	
Other Items Updated on:		
Reviewed OSMWebWizard for mapping process.		
Additional Notes:		
Planning more consistent MicaPlex workdays to wrap up deliverables.		

Table 6 - Meeting 2

04/08/2025	Meeting Type: In-Class (MP 224)	
Met with Product Owner(s): N		
Problems Brought Up:		
Problem	Proposed Solution	
Scenic-Sumo error after map change.	Reverted to stable map and continued test planning.	
VerifAI version mismatch	Serena resolved with correct version installation.	
Other Items Updated on:		
Final Test Plan draft continued, emphasis on simulation based-validation.		

Additional Notes:

- Poster due 04/21/2025; final video due 04/24/2025

NOTES: