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Common Maneuver Networks

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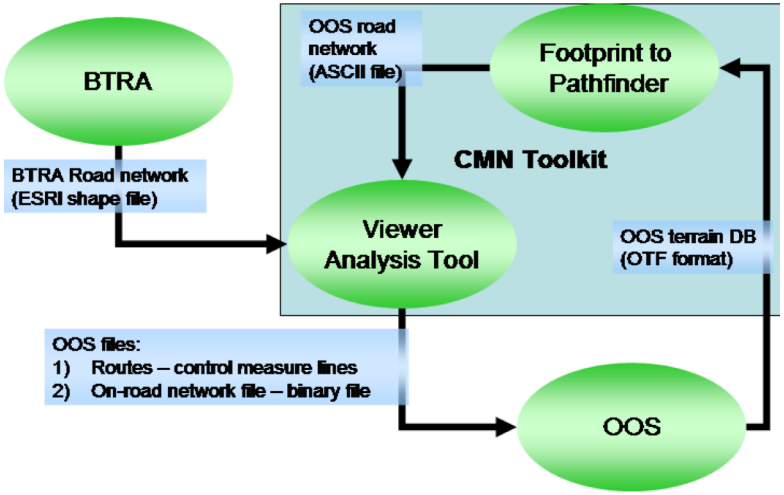
Resume

Common Maneuver Networks

Aligning Maneuver Data Representations



Operational Payoff/Transition Targets:
Current Battle Command (BC) and Embedded Training (ET) systems do not share a common representation of the environment or many analysis services, including those associated with tactical maneuver data. This commonality is needed to achieve a Common Operational Picture (COP) and enable the Future Force/Future Combat System (FCS). Program is sponsored by the US Army Engineer Research and Development Center (ERDC) through TRAC-Monterey.

Deliverables:
FY04/05: Contributions to project technical reports and conference papers; data modeling and transformations

Technical Objective
Develop a capability for sharing tactical maneuver data and integrated products between Battle Command and Embedded Training systems. Achieve standardization with broader community initiatives for DoD, Joint, and Coalition Forces.

Technology Challenges
Multiple representations of the battlespace to be aligned through a common ontology.

Technical Approach:
Research data modeling and data interchange mechanisms; design/develop common representations and cross-system transformations.

Cost and Schedule:
FY04 ($45K): Data modeling and problem analysis between Battlespace Terrain Reasoning and Awareness (BTRA) and OneSAF Objective System (OOS)
FY05 ($125K): Common ontology design and development; data model transformations

Student Involvement:
Doctoral research: Curtis Blais, MOVES (Fall '05)

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