



## TIER II WORKSHOP MINUTES

**Date:** July 17-19, 2001

**Location:** Ramada Inn, State College, PA

### Attendees

	<b>Name</b>	<b>Agency</b>
1	GEORGE M. KHOURY	PENNDOT DISTRICT 2-0
2	BERTON L. KISNER	PENNDOT DISTRICT 2-0
3	KEVIN KLINE	PENNDOT DISTRICT 2-0
4	DENNIS PRESTASH	PENNDOT DISTRICT 2-0
5	YVONNE BUCK	PENNDOT DISTRICT 2-0
6	JOE WALTER	PENNDOT DISTRICT 2-0
7	VICKIE E. RUSNAK	PENNDOT DISTRICT 2-0
8	MIKE KOZAK	PENNDOT DISTRICT 2-0
9	JAMES J. ROMAN	PENNDOT DISTRICT 2-0
10	JOE O'MELIA	PENNDOT DISTRICT 2-0
11	KAREN MICHAEL	PENNDOT DISTRICT 2-0
12	LARRY BRIODY	PENNDOT DISTRICT 2-0
13	JIM BONANTE	PENNDOT DISTRICT 2-0
14	MICHELLE ROWLES	PENNDOT DISTRICT 2-0
15	TIMOTHY TOALE	PENNDOT DISTRICT 2-0
16	RONALD E. POLLOCK	PENNDOT 2-0 MAINTENANCE (CENTRE)
17	KIM REESE	PENNDOT 2-0 MAINTENANCE (CLEARFIELD)
18	ROBERT P. SMELTZ	PENNDOT 2-0 (MAINTENANCE (CLINTON))
19	DAVE MATHESON	PENNDOT 2-0 MAINTENANCE (ELK)
20	MICHAEL PASTORE	PENNDOT DISTRICT 9-0
21	MATTHEW M. WEAVER	PENNDOT CENTRAL-BHSTE
22	DANIEL LEONARD	PENNDOT CENTRAL-BHSTE
23	BRENDA MURPHY	PENNDOT CENTRAL-BHSTE
24	DENNIS STARR	PENNDOT CENTRAL-BPR
25	KIM FERRONI	PENNDOT CENTRAL-BPR
26	STEVEN R. BERGMAN	FHWA-HARRISBURG
27	JODY McCULLOUGH	FHWA-HARRISBURG
28	DONNY HAMILTON	FHWA-HARRISBURG

## Attendees (cont'd)

	Name	Agency
29	EMILIANO LOPEZ	FHWA-EASTERN RESOURCE CENTER
30	RICHARD VIGLIONE	AREA TRANSPORTATION AUTHORITY
31	JEFF FORNWALT	BLAIR COUNTY 911 CENTER
32	HUGH MOSE	CENTRE AREA TRANSPORTATION AUTHORITY (CATA)
33	BILL TOBIN	CENTRE AREA TRANSPORTATION AUTHORITY (CATA)
34	DANIEL TANCIBOK	CENTRE COUNTY 911 CENTER
35	JEFFERY PURDY	EDWARDS & KELCEY
36	STAN NIEMCZAK	EDWARDS & KELCEY
37	BOB LEONARD	ERDMAN ANTHONY
38	JIM SCHOCK	ERDMAN ANTHONY
39	DAVID MODRICKER	FERGUSON TOWNSHIP
40	MIKE CORBETT	HIGHWAY INFORMATION SYSTEMS
41	JAMES WITHERSPOON	ITS AMERICA
42	LEN KOWALSKI	L. R. KIMBALL & ASSOCIATES
43	AMY KESSLER	NCPRPDC
44	PAUL JOVANIS	PENN STATE UNIVERSITY-ACADEMIA
45	LILY ELEFTERIADOU	PENN STATE UNIVERSITY-ACADEMIA
46	ROB COOPER	PENN STATE UNIVERSITY-PHYSICAL PLANT
47	TERESA DAVIS	PENN STATE UNIVERSITY-TRANSPORTATION SERVICES
48	BRUCE YOURKIN	PENN STATE UNIVERSITY-TRANSPORTATION SERVICES
49	DOUGLAS HOLMES	PENN STATE UNIVERSITY-TRANSPORTATION SERVICES
50	FRANK POPE	PENN STATE UNIVERSITY-TRANSPORTATION SERVICES
51	STEVE BARBER	PENNONI ASSOCIATES
52	DON SIEKERMAN	PA MOTOR TRUCKING ASSOCIATION
53	LT. JEFFERY WATSON	PENNSYLVANIA STATE POLICE
54	SGT. RICHARD STEIGERWALT	PENNSYLVANIA STATE POLICE
55	JOHN KNOWLES	PHILIPSBURG BOROUGH
56	JIM FRENCH	S. P. K. ENGINEERING/WEST VIRGINIA UNIVERSITY
57	DONALD ROBERSON	SURFACE SYSTEMS, INC.
58	MIKE MATSKO	SURFACE SYSTEMS, INC.
59	KAREN SHUTTY	THE EADS GROUP
60	ROBERT S. JAFFE	NATIONAL ITS ARCHITECTURE TEAM
61	ANDY PHLEGAR	NATIONAL ITS ARCHITECTURE TEAM
62	DOUG SIESEL	NATIONAL ITS ARCHITECTURE TEAM
63	TREVOR HARRIS	NATIONAL ITS ARCHITECTURE TEAM
64	STEVEN S. BOLT	ORTH-RODGERS & ASSOCIATES, INC
65	V. KIVANC CAGLAR	ORTH-RODGERS & ASSOCIATES, INC
66	ALEX ADEEKO	ORTH-RODGERS & ASSOCIATES, INC

## **Page 3**

**Re:** Tier II Workshop Minutes

**Date:** July 17-19, 2001

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### **Purpose**

The Tier II Architecture Workshop was a 3-day gathering of local transportation professionals and non-transportation stakeholders aimed at providing technical assistance to stakeholders in developing a draft version of the Regional ITS Architecture. The workshop was a sequel to the Tier I Workshop, which was held on February 28, 2001 in State College, PA.

The following are the key points during the workshop:

### **Day 1: July 17, 2001**

1. Opening remarks by George Khoury (DE-PennDOT 2-0) in which he expressed his appreciation at the turnout and level of interest shown by the attendees. He reiterated the significance of the workshop and noted that this was a first of its kind in many ways, particularly within the region. He affirmed District 2-0's desire to deploy ITS technologies throughout the region and stressed the need to define the best way to deploy these technologies. He also stated that the concept of a regional ITS architecture development program was focused initially on the State College area. This was later reviewed to cover the entire District 2-0 region and strategic counties outside the region. He ended his remarks by introducing the Architecture Team: Dr. Robert Jaffe, Andy Phlegar, Doug Siesel, and Trevor Harris.
2. Denny Prestash reiterated some of the points made by George Khoury and encouraged active participation by all attendees.
3. Attendees introduced themselves, indicating the agency they represented.
4. The Architecture Team outlined the objectives and expected results for the Tier II Workshop. The role of regional stakeholders as well as the Architecture Team in the architecture development process was highlighted. An outline of the workshop agenda items was also presented to the participants.
5. The Architecture Team reviewed the activities of the Tier I Workshop, which was held on February 28, 2001.
6. The Architecture Team previewed the workshop activities as well as identified the key post-workshop activities. The post-workshop activities include:
  - Finish Tailoring Architecture Flows
  - Incorporate missing stakeholders
  - Explore Operating agreements, Project definition/phasing, Coordination with capital projects, Regional technology agreements, Interface standards, and Architecture updates over time
7. An inventory of local system elements (as identified by the Project Consultant, Orth-Rodgers & Associates, Inc.) was presented to participants for review. This review process was an interactive session, facilitated by the Architecture Team. Revision of the Inventory was based on stakeholder input and the identified elements were mapped to entities in the

## Page 4

Re: Tier II Workshop Minutes

Date: July 17-19, 2001

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National ITS Architecture. Some of the key issues that were addressed during the inventory review process include:

- American Automobile Association (AAA) is not a public sector stakeholder and therefore does not need to be highlighted in the Turbo Architecture database.
  - A generic stakeholder name, 'Concierge Service Provider', was created to replace the 'AAA' and a corresponding generic ITS element, 'Concierge Service Center' was created and mapped to the Information Service Provider in the National ITS Architecture.
  - 'Stand-alone' traffic signal control systems with no plan for centralized control or emergency/transit vehicle preemption should not be classified as ITS elements.
  - Municipalities with existing/planned centralized control traffic signal systems or traffic signals with emergency/transit vehicle preemption capabilities were identified as ITS elements in the Turbo Architecture database.
  - PennDOT 2-0's district office, located in Clearfield, is capable of controlling traffic signals in District 2-0 municipalities.
  - The interconnects associated with DuFAST Transit Authority were identified, reviewed, and validated in the Turbo Architecture database based on input from Rick Viglione (ATA) and Amy Kessler (NCPRPDC).
  - Private sector commercial vehicle operations are normally included in statewide ITS architectures rather than regional architectures and most commercial vehicle activities tend to be monitored at state level.
  - ATIRC: Clarification needed on the conceptual system design and operational objectives, i.e. proposed location, year of deployment, associated stakeholder(s), type of information exchange, etc.
8. Buffet lunch at the Ramada Inn provided by PennDOT Central.
9. Transportation Services and Market Packages were reviewed for selection in relation to local transportation needs and existing/planned ITS services in the region. The sixty-three (63) market packages in the National ITS Architecture were analyzed and applicable market packages that reflected the existing and future ITS User Service needs of the region were selected based on input from all participants. The Architecture Team facilitated this interactive session.
10. The workshop was adjourned for the day.

### **Day 2: July 18, 2001**

11. The Architecture Team provided a brief description of some key components of the National ITS Architecture. These included *subsystems* in the *Physical Architecture*, *terminators* that define the architecture boundary, types of communication links between subsystems and terminators, and *interconnect* or connectivity between subsystems, and between subsystems and terminators in the National ITS Architecture.

12. With significant input from all participants, the process of tailoring existing and planned interconnects between key ITS-related elements in the region was carried out, with technical guidance from the Architecture Team. Some of the key issues discussed include:

- The interconnects associated with DuFAST Transit Authority were identified and reviewed based on input from Rick Viglione (ATA) and Amy Kessler (NCPRPDC).
- The interconnects associated with all 911 Centers in the region were identified and reviewed based on input from Dan Tancibok (Centre County 911 Center).
- The interconnects associated with local police departments in the region were identified and reviewed based on input from Lt. Watson and Sgt. Steigerwalt (Pennsylvania State Police).
- Commercial vehicle interconnects were identified and reviewed with significant input from Don Siekerman (PMTA).
- Berton Kisner (ADE, PennDOT 2-0) highlighted the importance of regional coordination for Wal-Mart's warehouse distribution activities.
- Maintenance Operations within the region were extensively reviewed with significant input from PennDOT 2-0's maintenance personnel.
- PSU Transportation Service elements and interconnects with other ITS elements in the State College area were extensively reviewed, particularly during special events such as football games and University Commencement ceremonies.

13. Buffet lunch at the Ramada Inn provided by PennDOT Central.

14. The entire workshop reconvened to review all interconnects that were identified before the lunch break. A variety of interagency coordination activities were identified, reviewed, and validated in the Turbo Architecture database based on consensus from the participants.

15. The workshop was adjourned for the day.

**Day 3: July 19, 2001**

16. Continental Breakfast provided by PennDOT Central.

17. The existing/planned Architecture Flows (specific information exchange) between individual ITS elements were identified, evaluated, and validated in the Turbo Architecture database based on input from the stakeholders and guidance from the Architecture Team.

18. The Architecture Team reviewed the Key Standards in the National ITS Architecture including the concept of ITS Standards, objectives of ITS Standards, scope of Key Standards efforts, and ITS Standards information resources.

19. The Architecture Team outlined the follow-up actions that need to be undertaken after the Tier II Workshop. These include:

- Review Inventory items and modify as necessary
- Review interconnects between elements

- Review Architecture Flows and customize to reflect the region's needs
- Review sections of the draft architecture with specific stakeholder groups
- Define projects based on regional architecture
- Identify and review Project definition/phasing
- Identify and review Operating agreements between stakeholders
- Ensure coordination with planned capital projects
- Establish Regional technology agreements
- Review Interface standards
- Identify a framework for the Architecture maintenance/refinement
- Facilitate continued engagement of existing stakeholders
- Establish and maintain a champion
- Identify opportunities to share funding/resources
- Identify opportunities for institutional integration
- Identify other stakeholders that should be included in the architecture
- Identify opportunities to share regional architecture with policy and decision makers
- Maintain lines of communication between stakeholders

**20.** In his closing remarks, George Khoury expressed his appreciation for the active participation and encouraged all participants to maintain their interest in the Regional ITS Architecture Development Program.

cc: File, OR&A