



**I-95 CORRIDOR COALITION
YEAR 14B
SCOPE OF WORK FORM**

Project Title: Development and Testing of Electronic Payment Services National Interoperability Specification for Next Generation ETC Services

Project Code: 14Ba-6E

Coalition Funding Amount: \$273,200

Program Track: Electronic Payment Services

Program Year: 14B

SECTION A – BACKGROUND

Description (include location of effort):

This project entails developing a vehicle-to-roadside electronic payment services national interoperability specification (EPSNIS) and confirming that the specification and use thereof supports a legacy environment (clearing transactions from toll roads and merchants through a toll authority) as well as one where the payment media and customer accounts are managed by non-agency financial services companies. Once written, a Reference Implementation Test will be conducted to validate the EPSNIS standard and the model's architecture. The deliverable will be a managed-source specification maintained by the OmniAir Consortium and available to any financial services entity or electronic payment services provider who wants to participate. The project test will occur at the New York State Bridge Authority's Bear Mountain Bridge facility, PO Box 1010 Highland, NY 12528.

Objectives:

The objective is to enable national interoperability of cost-effective EPS systems. Through standardizing the application, this project deliverable will provide a publicly-managed, open-source standard that EPS providers may reference when contracting for back-office services. The EPSNIS will create contestability in an area of operations where price inelasticity exists now. It will prepare the EPS industry for the future by providing a path to national service-level interoperability for systems based on the 5.9GHz DSRC 'VII' technology supported by USDOT.

SECTION B – TASKS AND DELIVERABLES

Task 1 Title: Outreach (with OmniAir EPS Committee and to non-ETC SME experts in the banking/financial community)

Task 1 Description: The development of the EPSNIS requires experienced input from both inside the toll industry, and peripheral to and outside of it due to the national application of the

EPSNIS and the extension of the EPS paradigm outside of the familiar boundaries. Therefore, the first set of activities capture OmniAir members goals for an EPSNIS and identifies the like-minded organizations from the payments industry (i.e., NACHA, EPCGlobal, bankcard associations) who are valuable subject matter experts (SME) with experience to share.

Task 1 Deliverables: Identification of OmniAir EPS Committee and non-member Subject Matter Expert Group

Task 2 Title: Define EPSNIS Functional Requirements

Task 2 Description: With so many stakeholders in EPS, several of them new, it is necessary to ask each one “what is an EPSNIS to you?” As such, after identifying the correct stakeholders, the next set of tasks encompass collaboration with them on defining the functional requirements of an EPSNIS, refining them and then confirming them as the building block for the specification.

Task 2 Deliverables: ‘EPSNIS Functional Requirements’ document

Task 3 Title:
EPS National Interoperability Specification Development

Task 3 Description: This is an extensive process of specification development that begins by creating, with SMEs, a preliminary draft specification and presenting this for approval by OmniAir. Next is cooperation with organizations to extend and become compatible with related industry payment specifications that advance the development and acceptance of the OmniAir EPSNIS. Following this is another review and approval process, a second commenting process, and then a final, draft Specification.

Task 3 Deliverables: OmniAir EPS National Interoperability Specification

Task 4 Title: Develop Reference Implementation Test

Task 4 Description: In this phase, at the test host facility, the partners will design, test and document a Reference Implementation Test where both the technology and the payment architectures will be operated side-by-side to validate the draft EPSNIS and verify performance. Results may mean modifying the EPSNIS and another round of review and approval. Eventually, both the EPSNIS and RIT will be released for use in similar tests and eventual deployment by the EPS industry.

Task 4 Deliverable: OmniAir EPSNIS Reference Implementation Test and Test Plan.

SECTION C – BUDGET

General Budget Information (same as idea form information):

\$ 475,600 Total project costs.

\$ 273,200 In Coalition funds.

Please provide information below regarding other funding sources available/required including: agency, private, or other federal funds.

- Port Authority of New York and New Jersey: Contract oversight at \$24,000.
- New York State Bridge Authority: Test Facility Equipment and Personnel at \$35,000
- OmniAir EPS Committee and industry volunteers: SME hours at \$105,000
- OmniAir: Direct Cost cash contribution at \$38,400

Detailed Budget Information:

Please submit a detailed budget breakdown for this project. Include cost per task, allocations by firm by task, labor hours, labor dollars and directs.

Please see attached Excel Spreadsheet: I95 EPSNIS Cost Matrix, May 2006

SECTION D - SCHEDULE

Provide a schedule by task. Include an anticipated NTP date, key milestones and completion date.

Please see the same attached Excel Spreadsheet: I95 EPSNIS Cost Matrix, May 2006

SECTION E – CONTACT INFORMATION

Sponsoring or Managing Agency Project Manager:

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