

Washington Metropolitan Area Transit Authority
Board Action/Information Summary

<input checked="" type="radio"/> Action <input type="radio"/> Information	MEAD Number: 100893	Resolution: <input type="radio"/> Yes <input checked="" type="radio"/> No
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TITLE:

IT Communications and Systems for Dulles Corridor

PURPOSE:

To obtain Board approval to initiate and award competitive procurements or modify existing contracts to extend the Metro communications network and Automatic Train Supervision (ATS) systems to the new Dulles Corridor. In addition, approval is requested to initiate and award a sole source contract to ARINC for the purpose of modifying Metro's existing ATS system. This will enable centralized control of the Dulles extension and ensure compatibility between the existing Metro system and the Dulles Corridor.

DESCRIPTION:

The Dulles Corridor project requires extension of the current Metro-wide communication infrastructure. This is required to allow all of the existing train control and communications systems to operate on the Dulles extension. This includes telephone systems, Passenger Information Display System (PIDS), fare card systems, Station Kiosks, intercom, etc. This project will design and build the Dulles communications backbone infrastructure extension to support all of the mission critical operations, safety, administrative, and monitoring systems that are integral to the operation of the Dulles Corridor. The extension will provide integration and compatibility to the following existing network services:

Fiber/Optic data transport
Data/Voice communications
Network Security
LAN/WAN
Emergency communications

Reimbursable funding has been budgeted for the Dulles Communication Backbone in the amount \$11,159,337 of which this action is utilizing \$8,041,851.

The Dulles Corridor project also requires changes to the design and modification

of Metro`s existing Automatic Train Supervision (ATS) system to ensure that the Rail Operations and Control Center is able to properly monitor the Dulles system extension and control all wayside equipment to Dulles.

In addition to these fundamental network technologies, the Authority will also require intermittent support from subject matter experts (SMEs) in areas which require special expertise. These disciplines include program management and engineering in the following technical domains: power systems, data and voice networks, wireless networks, enterprise applications, technical infrastructure, IT security, and data.

Reimbursable funding has been budgeted for the Dulles ROCS Upgrade for Automatic Train Supervision in the amount \$8,374,611 of which this action is utilizing \$4,336,631. Based on this funding, there are two capital positions funded for three years.

This action supports Metro`s goals to:

Create a safety environment - the extended communication infrastructure will provide the communication technology for emergency and non-emergency communications to Dulles.

Deliver quality services - the extended communication infrastructure will integrate with the existing Metro communication infrastructure to ensure reliable Metro-wide communications for both customers and computer systems.

Use resources wisely - the extended communication infrastructure design will utilize state-of-art networking technologies which will improve productivity and reduce maintenance requirements.

RESPONSIBLE DEPARTMENT/ PROGRAM MANAGER: The Department of Information Technology (IT) will be responsible for this project. The Program Manager for the communications backbone is Charles Wolfe in the office of Network Communications. The Program Manager for integration of existing systems is Robert Kramer in the office of Applications Development and Operations.

FUNDING IMPACT:

FUNDING IMPACT

Budget: Reimbursable
Project: Dulles Communication Backbone
- PD_DLDB_STC0801

Budget Information	Dulles
Budget Amount:	\$11,159,337
This Action:	\$8,041,851
Prior Actions:	\$3,117,486
Subtotal:	\$11,159,337
Remaining Budget:	\$0

Budget: Reimbursable

Project: Dulles ROCS Upgrade, ATC - PD_DLDB_ATC0801

Budget Information	Dulles
Budget Amount:	\$8,374,611
This Action:	\$4,336,631
Prior Actions:	\$3,197,980
Subtotal:	\$7,534,611
Remaining Budget:	\$840,000

RECOMMENDATION:

Approval to initiate and award competitive procurements or modify existing contracts to extend the Metro communications network and ATS systems to the new Dulles Corridor. In addition, approval is requested to initiate and award a sole source contract to ARINC for the purpose of modifying Metro's existing ATS system. This will enable centralized control of the Dulles extension and ensure compatibility between the existing Metro system and the Dulles Corridor.