



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PROPRIETARY PRODUCT CERTIFICATION

630-020-07
PROGRAM MANAGEMENT
06/16

To: Mario Bizzio, P.E.
Design Engineer

Date: 04/02/2018

Financial Project ID: 428930-1-88-01 New Const. RRR
Federal Aid Number: ITS5 020 A
Project Name: Brevard County Intelligent Transportation System (ITS) Operational Support
State Road Number: _____ Co. / Sec. / Sub.: _____
Begin Project MP: _____ End Project MP: _____
Full Federal Oversight: No Yes Note: If Yes, submit to FHWA Director.

A justification and all supporting documents must be attached to this document.
Mark the appropriate certification:

"I, Corrina Gumm, P.E., Traffic Operations Prg. Mgr., of the Brevard County
Print Name of Initiator Position Title Name of Agency

do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2),
Mark appropriately (choose only one option):

- that this patented or proprietary item is essential for synchronization with existing highway facilities.
- that no equally suitable alternative exists for this patented or proprietary item."

Corrina Gumm _____ 4/3/2018
Signature Date

For Department Use Only

"I, _____
Print Name Position Title

of the Florida Department of Transportation, do hereby approve this certification request made in accordance with the requirements of 23 CFR 635.411(a)(2),
Mark appropriately (choose only one option):

- that this patented or proprietary item is essential for synchronization with existing highway facilities.
- that no equally suitable alternative exists for this patented or proprietary item."

Identify any conditions and limitations:

Signature Date



**Public Works Department
Traffic Operations Program**
2725 Judge Fran Jamieson Way
Building A, Room 211
Viera, Florida 32940

BOARD OF COUNTY COMMISSIONERS

April 3, 2018

Mario Bizzio, P.E. – District 5 Design Engineer
Florida Department of Transportation
719 South Woodland Boulevard
Deland, FL 32720

Subject: Justification for Preferred Use of Proprietary Products for Traffic Signal ITS
Equipment by Brevard County – ITS Operational Support
FPID: 428930-1-88-01

Dear Mr. Bizzio,

Brevard County Traffic Operations ITS Division requests the approval of the attached Proprietary Product Certification Form No. 530-020-07, completed in accordance with the Proprietary Products Review and Certification Procedure 630-020-005-a adopted August 20, 2014 for the following proprietary products:

1. Juniper EX-4300-32F – 32 port managed network switch/router

The specified Juniper equipment is being requested as a replacement for the existing Juniper (EX-4200-24P) equipment used throughout Brevard County which is End of Life - End of Support as of 06/30/2018 (EOL). Approving this proprietary product will allow for uniformity and consistency with the existing ITS communications network for Brevard County. It will also eliminate the need for redesign and reconfiguration of the current networking schema, software and staff training, staff certifications, and additional costs that Brevard County would incur if moving to a non-same networking hardware platform. Utilizing the same hardware design will eliminate any unnecessary network outages or hardware/ software compatibility issues that can arise when mixing networking technologies.

Juniper EX-4300-32F – 32 Port Managed Network Switch/Router

Function

The Juniper EX-4300-32F managed network switch/router is consistent with the existing network switching/routing equipment used within Brevard County. All current Brevard County network switch/routers are the Juniper EX-4200-24P(EOL) or current supported Juniper EX-4300-32F. The Juniper line of switching/routing equipment was chosen because it met the networking equipment specifications for Brevard County and the FDOT. This equipment has proven to be reliable with minimal staff maintenance required over its 10 year history with Brevard County.

Aesthetics

The decision to utilize the Juniper EX-4300-32F has little to do with Aesthetics other than the equipment is consistent with the existing Brevard County network hardware, topology and design.

Logistics

This Juniper EX-4300-32F is utilized at strategic locations throughout Brevard County. These are the backbone of the ITS fiber optic network providing a stable network routing structure for county wide ITS communications. County staff is familiar with the command line, code structure, protocols and maintenance of this device. Existing management software is in place to keep maintenance and costs at a minimum.

Lifecycle

Brevard County has no official documentation as to the average or expected lifecycle for this device as of yet; however, some of the EX-4200-24P (EOL) units have been in service for approximately 10 years and are still in service today.

Training

No additional training is required for Brevard County staff. Brevard County has utilized Juniper equipment for approximately 10 years providing County employees with several years of experience. Additionally Juniper Networks, Inc., an American Multinational Corporation, provides excellent customer service and is readily available to assist with technical support and consistent security and software updates.

Need for Synchronization

Synchronization is crucial due to limited County resources and staff. The Juniper EX-4300-32F simplifies synchronization and installation by keeping the exact configuration and protocols used within the current communications network schema. This allows for a simplified transfer of current configurations and installation of the new equipment. Furthermore, maintaining same hardware allows for seamless network communication with existing Juniper equipment and simplified hardware management.

We respectfully request your approval of the Justification for Preferred Use of Proprietary Products using fund FPID: 428930-1-88-01 for the reasons as described.

Sincerely,



Corrina Gumm, P.E.
Traffic Operations Program Manager