



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
PROPRIETARY PRODUCT CERTIFICATION

630-020-07  
PROGRAM MANAGEMENT  
06/16

To: Mario Bizzio, P.E.  
Design Engineer

Date: \_\_\_\_\_

Financial Project ID: 436123-1-52-01 New Const.  RRR   
Federal Aid Number: 8529-004-U  
Project Name: SR 405 (Columbia Blvd.) at Sisson Road Intersection Improvements  
State Road Number: 405 Co. / Sec. / Sub.: Brevard / 70001  
Begin Project MP: 2.825 End Project MP: 2.960  
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 Traffic Operations Manager, 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 \_\_\_\_\_, 7/2/2019  
Signature Date

For Department Use Only

"I, JAMES S. STROZ, JR \_\_\_\_\_, DIST. TRAFFIC OPS. ENGINEER  
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] \_\_\_\_\_, 7/3/19  
Signature Date



BOARD OF COUNTY COMMISSIONERS

**Public Works Department**

2725 Judge Fran Jamieson Way  
Building A, Room 201  
Viera, Florida 32940

July 2, 2019

Mario Bizzio, P.E.  
FDOT District 5 Design Engineer  
719 S. Woodland Blvd  
Deland, FL 32720

**RE: Justification for Use of Proprietary Products for Traffic Signal and ITS Equipment by Brevard County –  
FPID: 436123-1 (SR 405 at Sisson Road)**

Dear Mr. Bizzio,

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

- Trafficware Wired Cabinet Assembly TS2 Size 6 Controller Cabinet with Trafficware TS2-1 ATC Commander Controller with Ethernet — NEMA TS2
- Trafficware TS2-1 Commander ATC Controller with Ethernet – NEMA TS2

Approving these proprietary products is required for consistency with the Brevard County Traffic Operations' existing traffic signal systems and will prevent the need for supplemental training and synchronization efforts. Further justification for the use of this proprietary product has been provided below.

**Function**

- Brevard County operates Trafficware's ATMS.now central control software from the Brevard County Traffic Management Center (TMC). Trafficware traffic signal controllers are required to function with this software system.
- The Commander ATC Controller is the most recent addition to Trafficware's line of traffic signal controllers. Use of this controller will support future connected vehicle and automated traffic signal performance metric data collection functionality, which are goals of Brevard County and FDOT District 5.
- The Trafficware TS2 Size 6 — NEMA TS2 cabinet is manufactured by Trafficware and is verified to be compatible with the Trafficware TS2-1 Commander ATC Controller.
- Brevard County's ITS communication network utilizes Ethernet at the Data-link layer; therefore, Ethernet communications is a requirement of traffic signal controllers.

**Aesthetics**

- The design of the Trafficware TS2 Size 6 cabinet is consistent with Brevard County's traffic signal controller cabinet deployment.

## Logistics

- Trafficware traffic signal controllers and cabinets are utilized throughout Brevard County. County staff is familiar with the maintenance and operations of these traffic signal controllers and controller cabinets.
- The County's ATMS.now central software system requires Trafficware traffic signal controllers.

## Lifecycle

- The County maintains spare Trafficware cabinets and parts. Use of Trafficware traffic signal controllers and controller cabinets will allow for timely repair and replacement of failed or damaged components.
- The County exclusively uses Trafficware traffic signal controllers and has found that the equipment performs well over extended periods of use.

## Training

- Since the County solely uses Trafficware traffic signal controllers, maintenance and operations personnel have extensive experience with this equipment. No additional training will be required.

## Synchronization

- Consistency in the traffic signal system is critical due to limited County resources and staff. Use of the Trafficware traffic signal controller and controller cabinets allows the County to leverage significant sunk cost in training, lessons learned, software, and spare components.
- Brevard County operates Trafficware's ATMS.now central control software from the Brevard County TMC. Trafficware traffic signal controllers are required to function with this software system
- The Trafficware Commander ATC controllers are capable of fulfilling the automated traffic signal performance metric data collection goals of FDOT District 5, which will support the District's Integrated Corridor Management, Decision Support System, and Data Fusion initiatives.

In summary, Brevard County is requesting approval for the use of the aforementioned proprietary products listed in this document.

Thank you for consideration of this request.

Sincerely,



Corrina Gumm, P.E.

Interim Director of Public Works/Traffic Operations Program Manager