

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PROPRIETARY PRODUCT CERTIFICATION

630-020-07
SPECIFICATION
08/14

To: Annette Brennan, District 5 Design Engineer
Design Engineer

Date: 02/02/2015

Financial Project ID: 435446-1-52-01 New Const. RRR

Federal Aid Number: _____

Project Name: Greater Orlando Transit Signal Priority

State Road Number: _____ Co. / Sec. / Sub.: Seminole County, Orange County, City of Orlando, City of Winter Park, City of Maitland

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, Manny Rodriguez, P.E., Project Manager, District 5, of the Florida Department of Transportation,
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."

, 02/02/2015
Signature Date

For Department Use Only

"I, Annette K Brennan, District Design 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.

A K Brennan, 2/9/15
Signature Date



Florida Department of Transportation

RICK SCOTT
GOVERNOR

719 South Woodland Boulevard
DeLand, FL 32720

JIM BOXOLD
SECRETARY

February 2, 2015

Ms. Annette Brennan, P.E.
Design Engineer
FDOT District Five

**Subject: Justification for Preferred Use of Proprietary Products
Greater Orlando Transit Signal Priority – FPID # 435446-1-52-01**

Dear Ms. Brennan:

Transit Signal Priority (TSP) is being proposed along the twelve (12) LYNX bus corridors within the SunRail stations in Central Florida as a part of Phase 1 of the Design portion for District Five Traffic Operations FPID No. 435446-1-52-01. These routes include a total of 134 traffic signals and 83 buses. The TSP systems will be operated and maintained by five (5) separate agencies, Orange County, Seminole County, the City of Orlando, the City of Winter Park, and the City of Maitland, after completion and acceptance. The objective of this project is to upgrade the existing traffic signal systems to provide a conditional Transit Signal Priority system that will be activated in accordance with the operator-defined constraints (e.g., late arriving buses, etc.). Transit Signal Priority (TSP) gives transit vehicles an extended green time (green extension) or reduction of red time (red truncation) at traffic signals to reduce the time they are slowed down by traffic signals. The TSP will feature:

- Advanced Vehicle Location (AVL) system
 - Mentor Engineering (Ranger)
 - Clever Devices
- TSP Intersection Equipment
 - GPS Radio Unit containing a GPS receiver with antenna and a 2.4 GHz spread spectrum transceiver with antenna
 - Multimode Phase Selector
 - Card Rack
 - Installation Cable
- TSP Bus Equipment
 - Low Priority Radio/GPS Control Unit
 - GPS/Radio Antenna
 - Vehicle Interface Cable

Ms. Brennan
February 2, 2015
Page Two

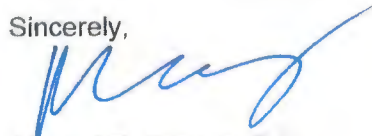
Given the current infrastructure and complexity of these signalized corridors, we would like to specify Global Traffic Technologies (GTT), LLC Opticom™ in the TSP Design. The use of this TSP system would allow system compatibility with other Regional deployments and provide significant operational benefits to the Maintaining Agencies and the Department for its signal system including:

- GTT Opticom™ is compatible with the existing traffic signal system and the various existing and planned traffic Intelligent Transportation Systems (ITS) components within Orange County, Seminole County, City of Orlando, and City of Winter Park.
- The maintenance of the Opticom™ equipment is serviced by the same manufacturer Global Traffic Technologies, LLC.
- LYNX has installed the GTT Opticom™ vehicle equipment in some of their existing buses. All new purchased LYNX buses come equipped with GTT Opticom™.
- GTT Opticom™' infrared is currently used for preemption on existing signal systems at all five previously identified maintaining agencies.
- GTT Opticom™ includes a Multimode Phase Selector (Model 764) that allows the usage of infrared and GPS TSP systems at the same signalized intersection.

As noted above, FDOT is developing the Transit Signal Priority Design portion of the signalized intersections within the identified twelve (12) corridors) in Phase 1 and would like to specify the procurement and installation of GTT Opticom™. This is a request for a sole proprietary use of the GTT Opticom™ TSP package.

If you have any questions or comments, please feel free to contact me at 386-943-5307 or via email at Manny.Rodriguez@dot.state.fl.us.

Sincerely,



Manuel Rodriguez, P.E.
Project Manager FDOT
District Five