

ITS Software Update

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Traffic Engineering and Operations

ITS Program

FDOT Ramp Metering Firmware

- ❑ Release 1.0.0
- ❑ Based on Washington DOT algorithms
- ❑ Works with existing Ramp Metering Subsystem in SunGuideSM Software
- ❑ Owned by FDOT
- ❑ Documentation at same high level as SunGuideSM Software
 - SDD
 - SICP
 - VDD
 - SUM



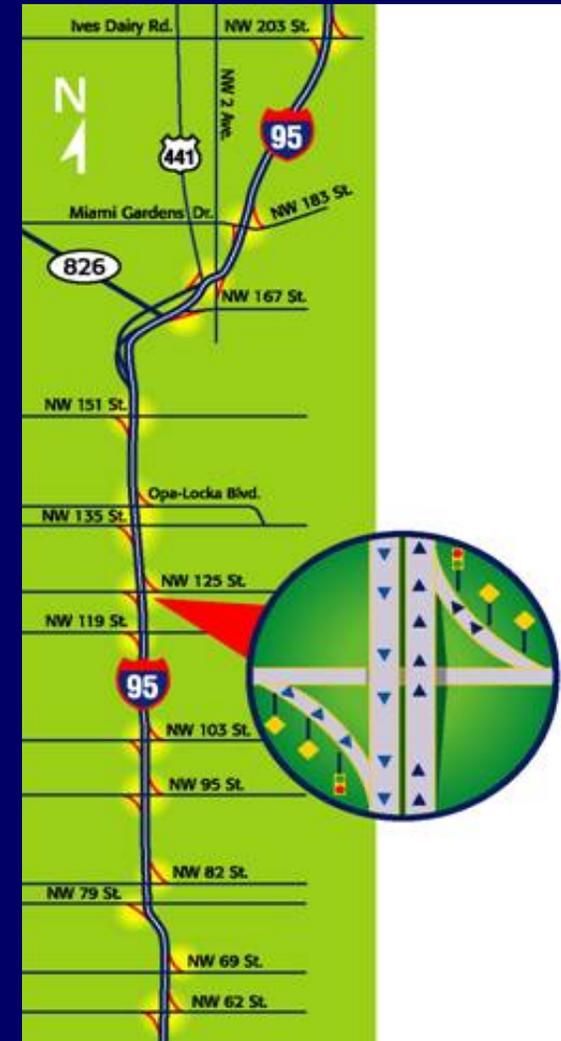
FDOT Ramp Metering Firmware

- ❑ Hosted on 170E Controller
- ❑ Runs on a 68HC11 CPU
- ❑ Code is C# rather than older assembly code



FDOT Ramp Metering Firmware

- ❑ Delivered to FDOT for IV&V on March 15, 2007
- ❑ IV&V performed at TERL in April 2007
- ❑ Testing in Miami beginning May 2007
- ❑ Initial deployment along I-95 in Miami



SunGuideSM Software

- ❑ Release 2.2
- ❑ Release 2.2.2
- ❑ Release 3.0
- ❑ Release 3.1
- ❑ Release 4.0



SunGuideSM Software Release 2.2



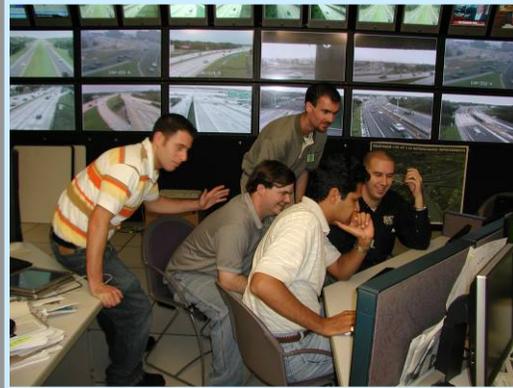
October 2006
Ft. Lauderdale



October 2006
Miami



SunGuideSM Software Release 2.2



October 2006
Jacksonville



October 2006
TERL

SunGuideSM Software Release 2.2



October 2006
Orlando



December 2006
Tampa

SunGuideSM Software Release 2.2.2

- ❑ FDOT owns 21 Subsystems/11 Drivers, TxDOT owns 8 Subsystems/3 Drivers
- ❑ 614 Functional Requirements / 162 Sub-requirements
- ❑ Lines of Code: 1.7M SLOC



SunGuideSM Software Release 2.2.2

- Scheduled Action Subsystem
 - CCTV Preset Scheduler



Sequence Activation - Windows Internet Explorer

Devices

- 1-CCTV (cctv)
- 2-CCTV (cctv)
- 3-CCTV (cctv)
- 4-CCTV (cctv)
- 5-CCTV (cctv)
- 6-CCTV (cctv)

Sequence: Presets 1 - 5

Timing:

- Run 1 time(s)
- Run until 00 (Midnight) : 00

Repeat frequency:

- Restart the sequence immediately when it finishes
- Restart the sequence every [] seconds

Activate

SunGuideSM Software Release 2.2.2

□ GUI Enhancement

- Map load time reduced from minutes to seconds
- Change password
- Log out/re-login without reloading map
- Select subsystems to load before logging in
- Operator map logs to Status Logger
- District views in Navigation Panel customizable by District



SunGuideSM Software Release 2.2.2



SunGuideSM Software Release 3.0

- ❑ Requirements approved by CMB at November 2, December 1, January 12, and March 8 meetings
- ❑ Letter of Authorization provided to start work on March 7, 2007
- ❑ 6 months for design and development
- ❑ Deployment to the District RTMC's in September and October 2007



SunGuideSM Software Release 3.0

- ❑ 7 new subsystems and enhancements to 9 existing subsystems
- ❑ 7 new drivers
- ❑ Builds on Release 2.2 by further integrating and enhancing the Event Management and Reporting subsystems and adding the Responder Audit subsystem
- ❑ Integrated with the Event Management subsystem are two new Road Ranger drivers and two new AVL drivers
- ❑ Event Viewer subsystem
- ❑ Video Incident Detection driver
- ❑ Config Editor subsystem



SunGuideSM Software Release 3.0

□ D-5 iFlorida enhancements

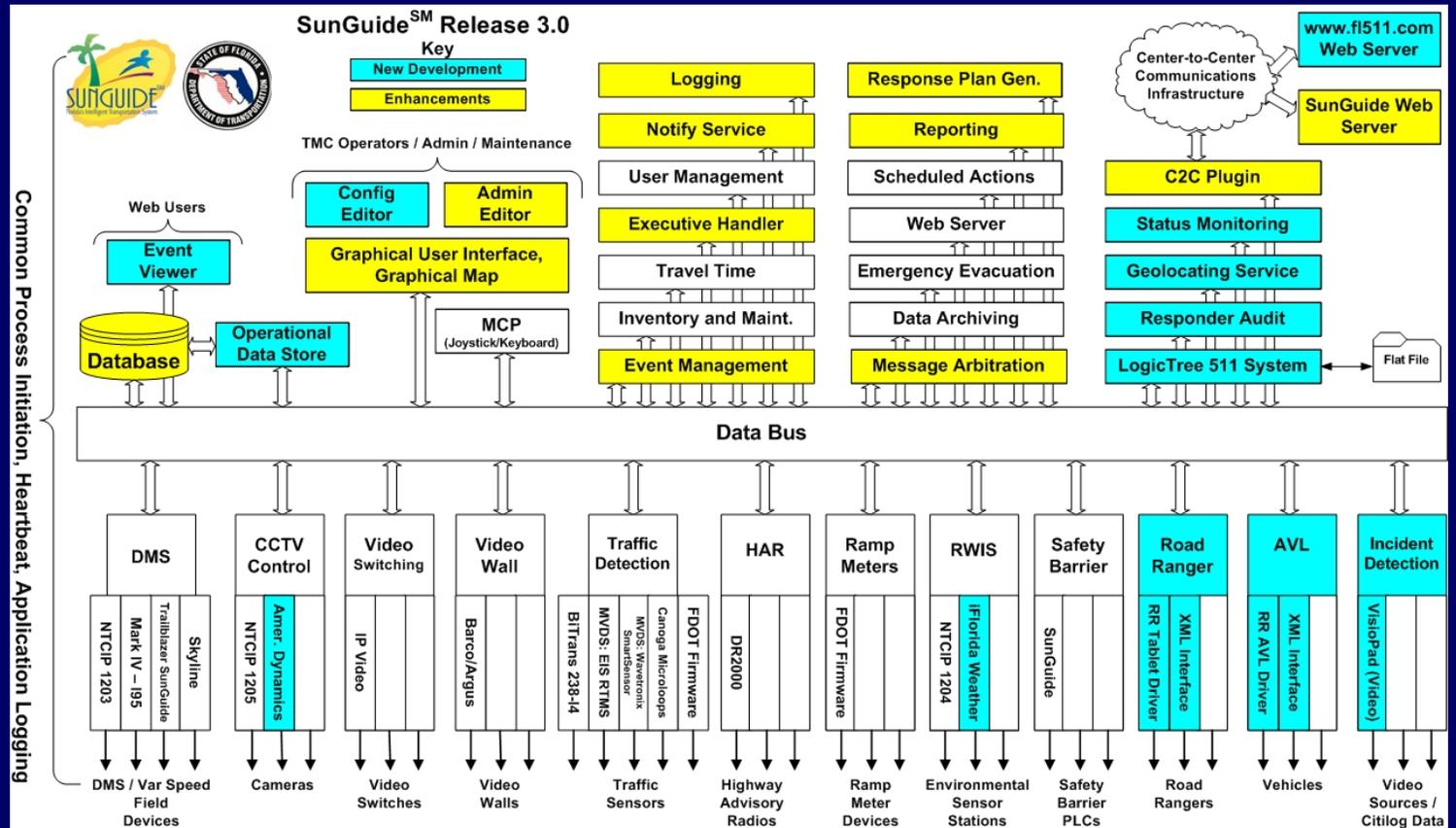
- 511 subsystem
- www.fl511.com Web Server
- Operational Data Store subsystem
- American Dynamics CCTV Control driver
- iFlorida Weather driver

□ Supporting Enhancements

- Database
- GUI
- C2C
- Logging
- Admin Editor



SunGuideSM Software Release 3.0



SunGuideSM Software Release 3.1

- ❑ Enhancements to existing Travel Time subsystem
- ❑ Probe Travel Time subsystem
- ❑ AVI Data Collection drivers
- ❑ LPR Data Collection drivers
- ❑ Supports legacy projects for D-5, OOCEA, and Turnpike Enterprise (iFlorida) and D-3 (Tallahassee)



SunGuideSM Software Release 4.0

- ❑ FHP CAD Interface?
 - ConOps under review
- ❑ AMBER Alert enhancement?
 - ConOps under review
- ❑ Data Fusion subsystem
 - Supports Next-generation Statewide ATIS
 - Builds off iFlorida and existing statewide ATIS systems





Questions?

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