



***AFSPC  
Wing Transportation Control  
System  
(WTCS)***

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(719) 598-4328  
25 Mar 03**

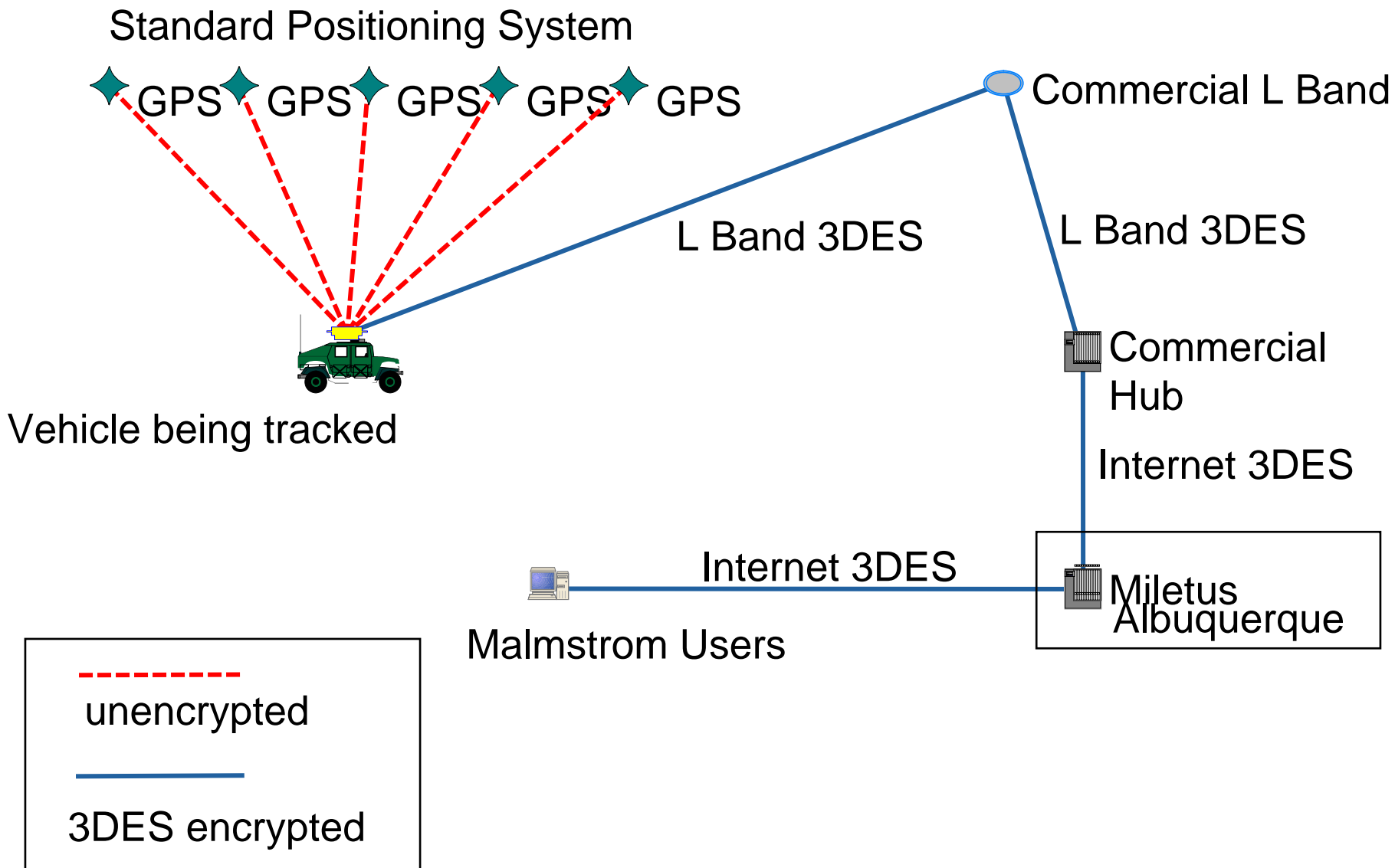


# *Wing Transportation Control System (WTCS)*

- **GPS Driven, ground vehicle comm and tracking tool**
- **Enhances field commander's situational awareness & ability to respond/act**
  - Visibility of total wing vehicle assets in the field
  - Security incident response time
  - Response force multiplier, any unit can be 'vectored' to assist
  - Redirection of mission tasking 'on-the-fly'
  - Safety of vehicles and operators
  - All drivers are now 'in-touch' on or off the wing complex
    - **Wing-wide updates to weather or readiness state changes**
    - **Single point to notify all deployed vehicles**

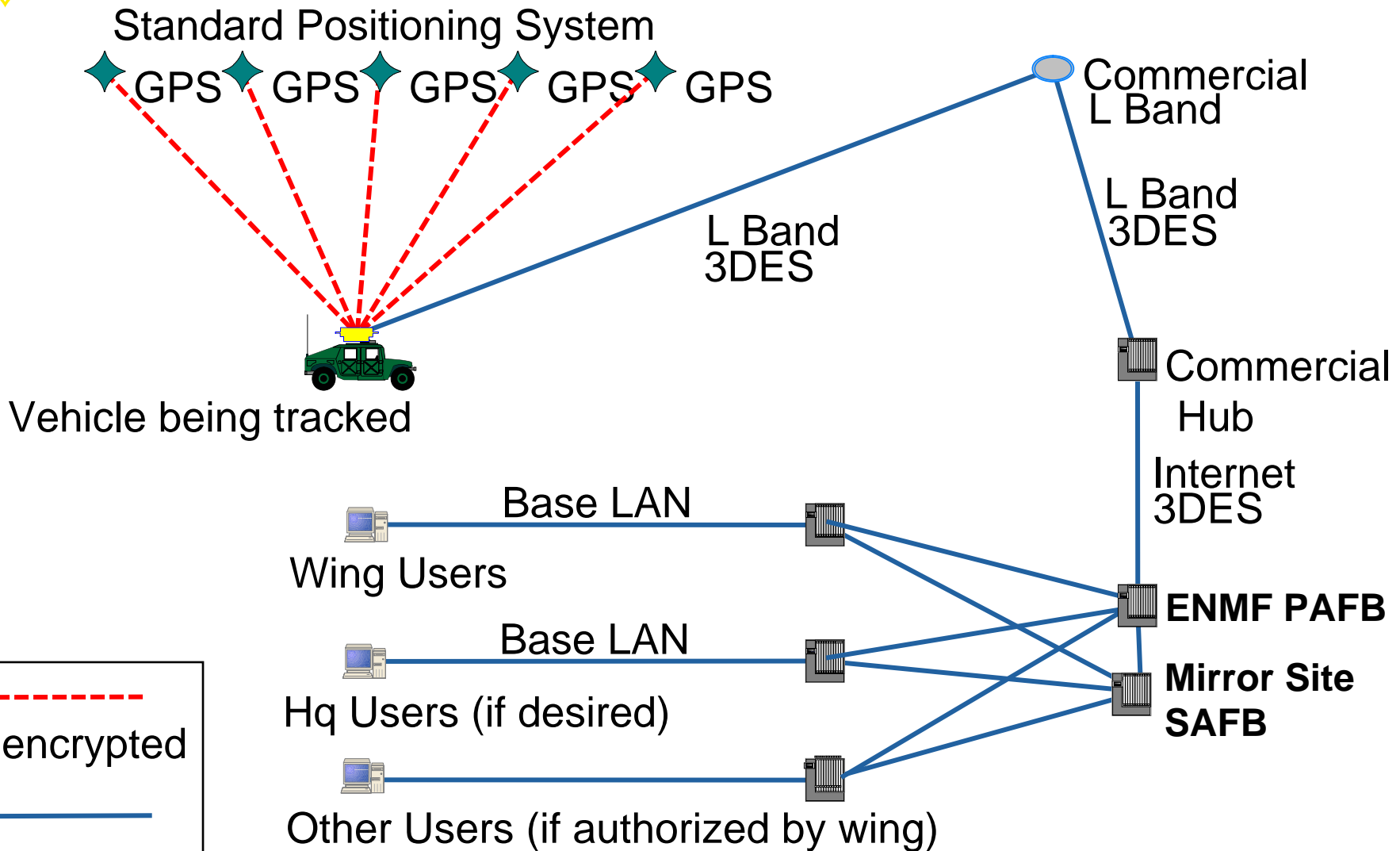


# WTCS Spiral 1 Architecture





# WTCS Spiral 2 Architecture

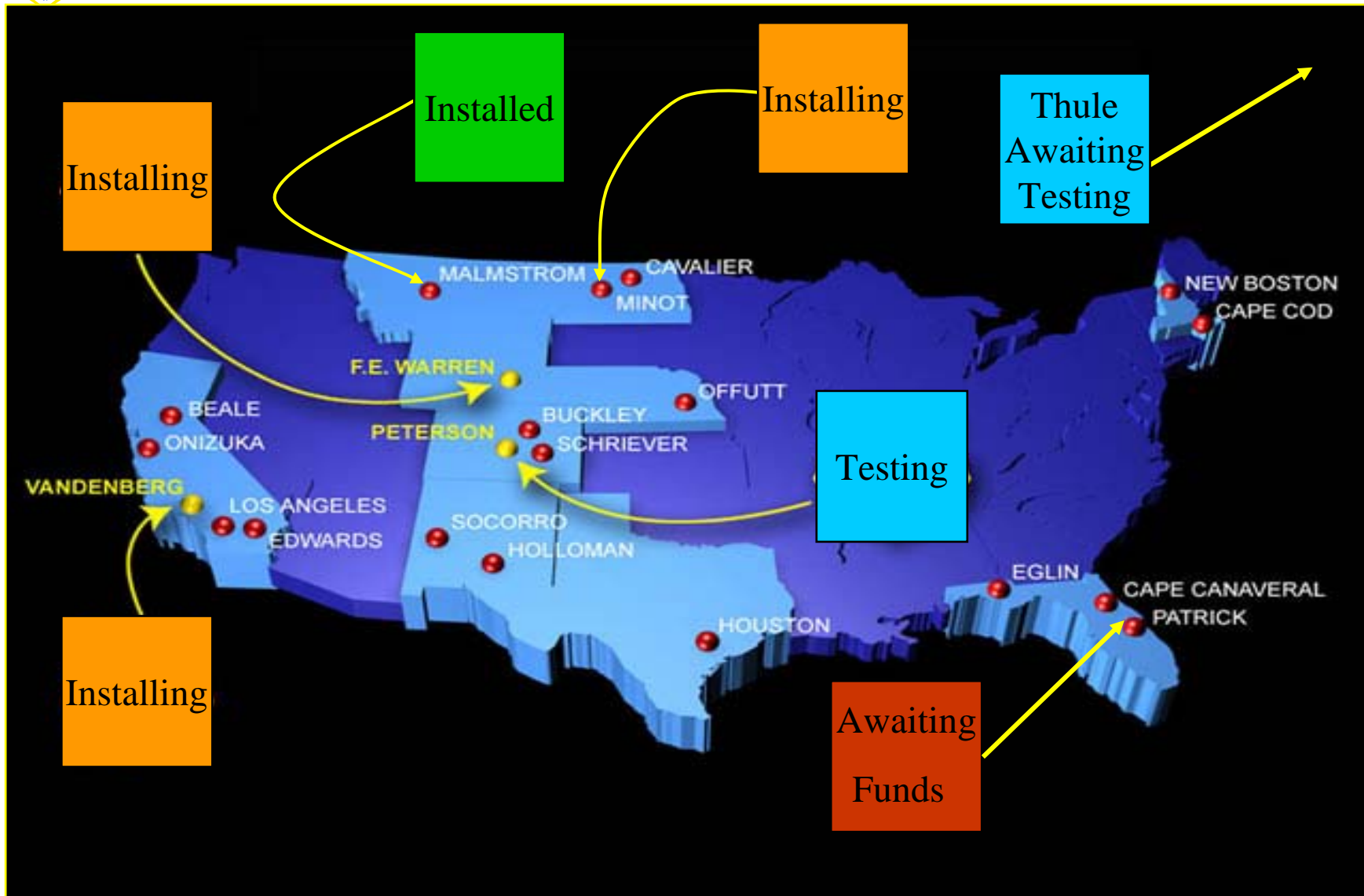


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unencrypted

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3DES  
encrypted



# Installation Progress





# Typical Installation





# Road Conditions Map

341st Road Conditions and Weather Information - Microsoft Internet Explorer

Weather | State DOTs

341st Transportation Control Center, Malmstrom AFB  
Phone: 406-731-2598  
DSN: 632-2598

Help Reference  
Customer Support

WingTCS  
Usr:   
Pwd:   
Login

cept Hwy 200 G-1 to Simms/ All secondary roads in I-Fit area-YELLOW... Malmstrom AFB - GREEN... Great Falls - GREEN... Entire 564MS

autodesk

- Cities
- Roads
  - Red
  - Yellow
  - Green
  - Unspecified
- Rivers-USGS
- Lakes-USGS
- Mountain Text
- Mountains
- Grid Text
- Grid
- Squadron Text
- Squadron Areas



# Messaging Interface

GPS Tracking - For Official Use Only - Microsoft Internet Explorer

Weather State DOTs Road Map WingTCS

341st Transportation Control Center, Malmstrom AFB  
 Phone: 406-731-2598  
 DSN: 632-2598

Dave  
 Logged In

Alert 490MS-GREEN Except Hwy 191 Lewistown to O-1/ Hwy 87 Lewistown to Grassrange/ Hwy 19 O-4 to Grassrange-YELLOW, Hwy 191 Eddie

ALL <ALL>

<ALL UNITS>

**Maintenance\_Group**

- ET-2435 [MMT4]
- ET-2536
- ET-3112
- ET-3141
- ET-3435
- ET-3529
- ET-3565
- ET-3708
- ET-4059 [mmt\_8]
- ET-4105

**Ops\_Group**

- ET-1318
- ET-2400 [MSL8]
- ET-2409
- ET-2411 [MISSILE\_17]
- ET-2416 [missile\_19]
- ET-2447 [Missile-18]
- ET-2449
- ET-2580
- ET-3165
- ET-3205
- ET-3391 [missile09]
- ET-3398
- ET-3407
- ET-3478 [\_Missile\_16]
- ET-3534
- ET-3543 [missile\_20]
- ET-3612
- ET-3635
- ET-3679 [Missile\_01]
- ET-3721
- ET-4325
- ET-4340 [Missile\_10]

**Security\_Forces**

- ET-1544
- ET-2404 [jackal\_6\_]
- ET-2405

v2.0.2.46S

Status	From -> To	Message	Date
✓	TCC2 -> ET-2552 [ S60 ]	Still working on your permission to roll...copy	22-Oct-02 11:39:22 AM
✓	ET-2416 [ missile_19 ] -> FL:Dis	LOGIN: missile_19	22-Oct-02 11:38:10 AM
✓	TCC2 -> ET-2400 [ MSL8 ]	Good Going MS8	22-Oct-02 11:33:47 AM
✓	ET-2400 [ MSL8 ] -> FL:Dispatc	MSL8 arrived at maf	22-Oct-02 11:33:34 AM
✓	ET-2400 [ MSL8 ] -> FL:Dispatc	we have visual	22-Oct-02 11:30:21 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	SORRY ON YOUR LEFT YOU JUST PASSED IT	22-Oct-02 11:30:20 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	KEEP GOING STRAIT AND YOU WILL SEE A PAVED ROAD TO THE RIG	22-Oct-02 11:29:59 AM
✓	ET-2400 [ MSL8 ] -> FL:Dispatc	copy thanks	22-Oct-02 11:29:42 AM
✓	ET-3679 [ Missile_01 ] -> FL:Dis	our radio does not seem to work on freq 3. thanks	22-Oct-02 11:29:17 AM
✓	ET-2447 [ Missile-18 ] -> FL:Dist	LOGIN: Missile-18	22-Oct-02 11:28:47 AM
✓	12MS2 -> ET-2400 [ MSL8 ]	You'll run into H-01 in about 1.5 mi...	22-Oct-02 11:28:39 AM
✓	ET-3679 [ Missile_01 ] -> FL:Dis	Tcc please callA01 and let them know we are at ck pt 1	22-Oct-02 11:28:07 AM
✓	ET-2400 [ MSL8 ] -> FL:Dispatc	* we are close	22-Oct-02 11:27:52 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	POLL: POSITION REQUEST	22-Oct-02 11:27:46 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	H-1	22-Oct-02 11:27:19 AM
✓	Chris -> ET-3529	! [SPECIAL COMMAND][01:02]	22-Oct-02 11:27:17 AM
✓	ET-2552 [ S60 ] -> FL:Dispatch	all the cars were doing normal speeds	22-Oct-02 11:27:01 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	POLL: POSITION REQUEST	22-Oct-02 11:26:58 AM
✓	12MS2 -> ET-2400 [ MSL8 ]	Should be right at next intersection...	22-Oct-02 11:26:29 AM
✓	ET-2552 [ S60 ] -> FL:Dispatch	there have been a couple of cars passing my location	22-Oct-02 11:26:25 AM
✓	ET-2400 [ MSL8 ] -> FL:Dispatc	we are on gravel, and are moving	22-Oct-02 11:25:54 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	POLL: POSITION REQUEST	22-Oct-02 11:25:25 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	ARE YOU ON GRAVEL OR PAVED ROAD	22-Oct-02 11:24:41 AM
✓	TCC3 -> ET-2400 [ MSL8 ]	ARE YOU STOPPED	22-Oct-02 11:24:20 AM
✓	ET-2400 [ MSL8 ] -> FL:Dispatc	we got close to J01 then turned around and headed to H01	22-Oct-02 11:23:51 AM

SEND TO: <ALL UNITS>

Map Message Status Unused

22-Oct-02 11:46:56 AM





# Mapping View

GPS Tracking - For Official Use Only - Microsoft Internet Explorer

Weather State DOTs Road Map WingTCS

341st Transportation Control Center, Malmstrom AFB  
Phone: 406-731-2598  
DSN: 632-2598

Dave  
Logged In

Entire 490MS-GREEN Except Hwy 191 Lewistown

**<ALL>**  
**<ALL UNITS>**

- Maintenance\_Group
  - ET-2435 [ MMT4 ]
  - ET-2536
  - ET-3112
  - ET-3141
  - ET-3435
  - ET-3529
  - ET-3565
  - ET-3708
  - ET-4059 [ mmt\_8 ]
  - ET-4105
- Ops\_Group
  - ET-1318
  - ET-2400 [ MSL8 ]
  - ET-2409
  - ET-2411 [ MISSILE\_17 ]
  - ET-2416 [ missile\_19 ]
  - ET-2447 [ Missile-18 ]
  - ET-2449
  - ET-2580
  - ET-3165
  - ET-3205
  - ET-3391 [ missile09 ]
  - ET-3398
  - ET-3407
  - ET-3478 [ \_Missile\_16 ]
  - ET-3534
  - ET-3543 [ missile\_20 ]
  - ET-3612
  - ET-3635
  - ET-3679 [ Missile\_01 ]
  - ET-3721
  - ET-4325
  - ET-4340 [ Missile\_10 ]
- Security\_Forces
  - ET-1544
  - ET-2404 [ jackal\_6\_ ]
  - ET-2406

Map Message Status Unused

22-Oct-02 11:50:37 AM

Lat:48.255778 Lon:-110.876850 Width: 198.87 mi (320.05km) Map: State level