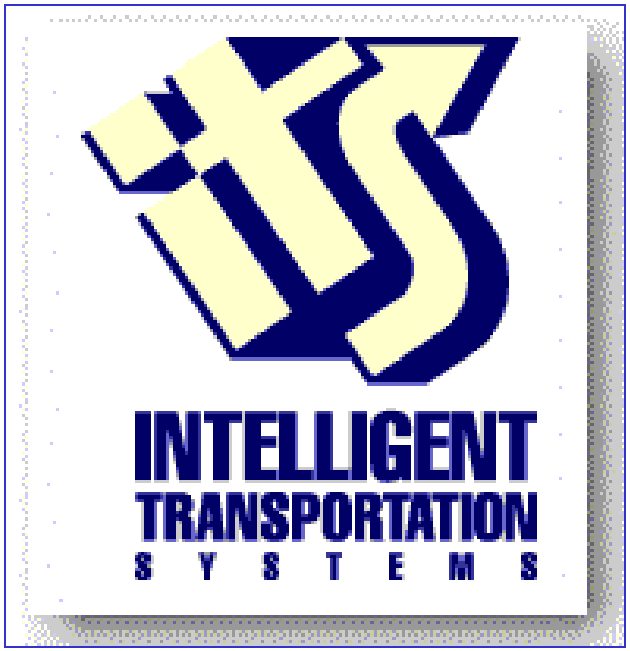
Support and Asset Inventory Management of ITS Devices

Western States Forum

June 2010



Jason Shaddix, ITS Support Lead
Oregon Department of Transportation

The goal of this presentation is to show how ODOT has utilized a **C**omputerized **M**aintenance **M**anagement **S**ystem (CMMS) to help solve many of the problems we face trying to support systems that are spread around a mostly rural state.

Outline

1. Presenter Information
2. ITS Assets
3. ITS Support
4. MicroMain Overview: Client, Reports, PDA
5. MicroMain Web Work Requests
6. MicroMain Web Asset Management
7. Conclusion

Presenter Information

Jason Shaddix, ITS Support Lead, Oregon DOT

- Team leader for ITS field support and ITS application developers.
- 10 years working in ITS, 5 additional years working in traffic signals
- Regional ITS Support Build-out: Offices, trucks, equipment, spares
- MicroMain Implementation: Review proposals, procure, deploy, enhance
- Alternate Network Connectivity –DSL, Cellular, WiFi.
- Traffic Signals Integration

ITS Assets

- Field Devices
- Transportation Operations Centers
- Servers
- Systems / Applications
- Traffic Signals

Oregon ITS in 2000

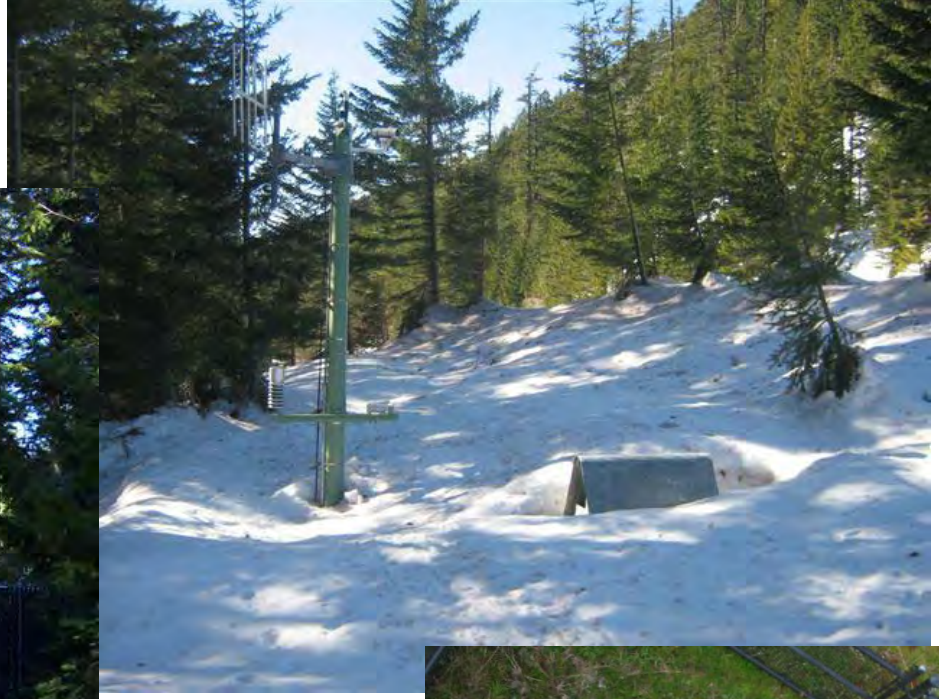
- 12 cameras in Region 1
- 6 RWIS stations
- 1 camera in Bend
- IT has 1½ FTE committed to ITS
- 5 Servers (RWIS Data Collection)
- 1 Application (SCAN)

Oregon ITS in 2010

- Total of approx 820 Field devices
- 4 Transportation Operation Centers
- 66 Servers
- 25 Applications
- 256 Cameras
- 98 Variable Message Signs
- 142 Ramp Meters
- 142 Portable Variable Message Signs
- 79 Road Weather Information Systems
- 100 Other devices such as HAR, Weather Warning Systems, and Ramp Gates.
- ODOT has 14 FTE committed to ITS Support

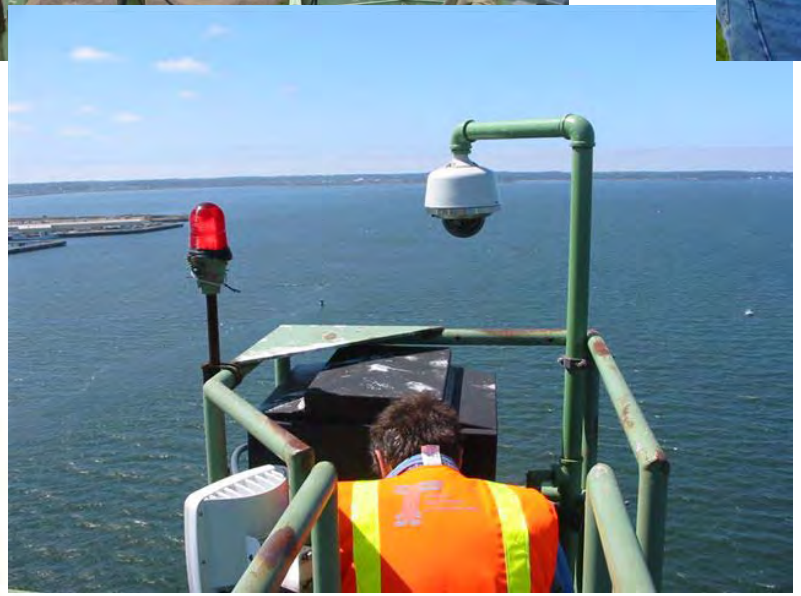
Traffic Signals Integration

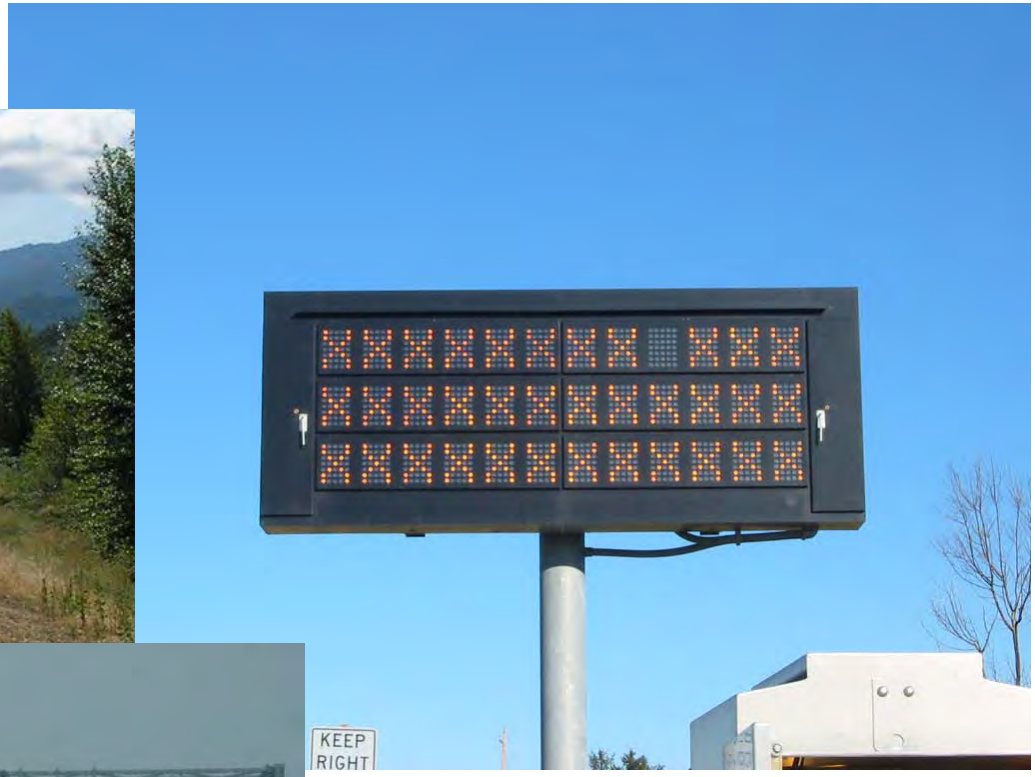
- ODOT owns around 1000 traffic signals
- Implementing Adaptive Traffic Control
- Implementing Central Traffic Management
- Approx 30 traffic signals online so far
- 146 planned upgrades & connections this year
- Significant changes in support needs



Weather Stations

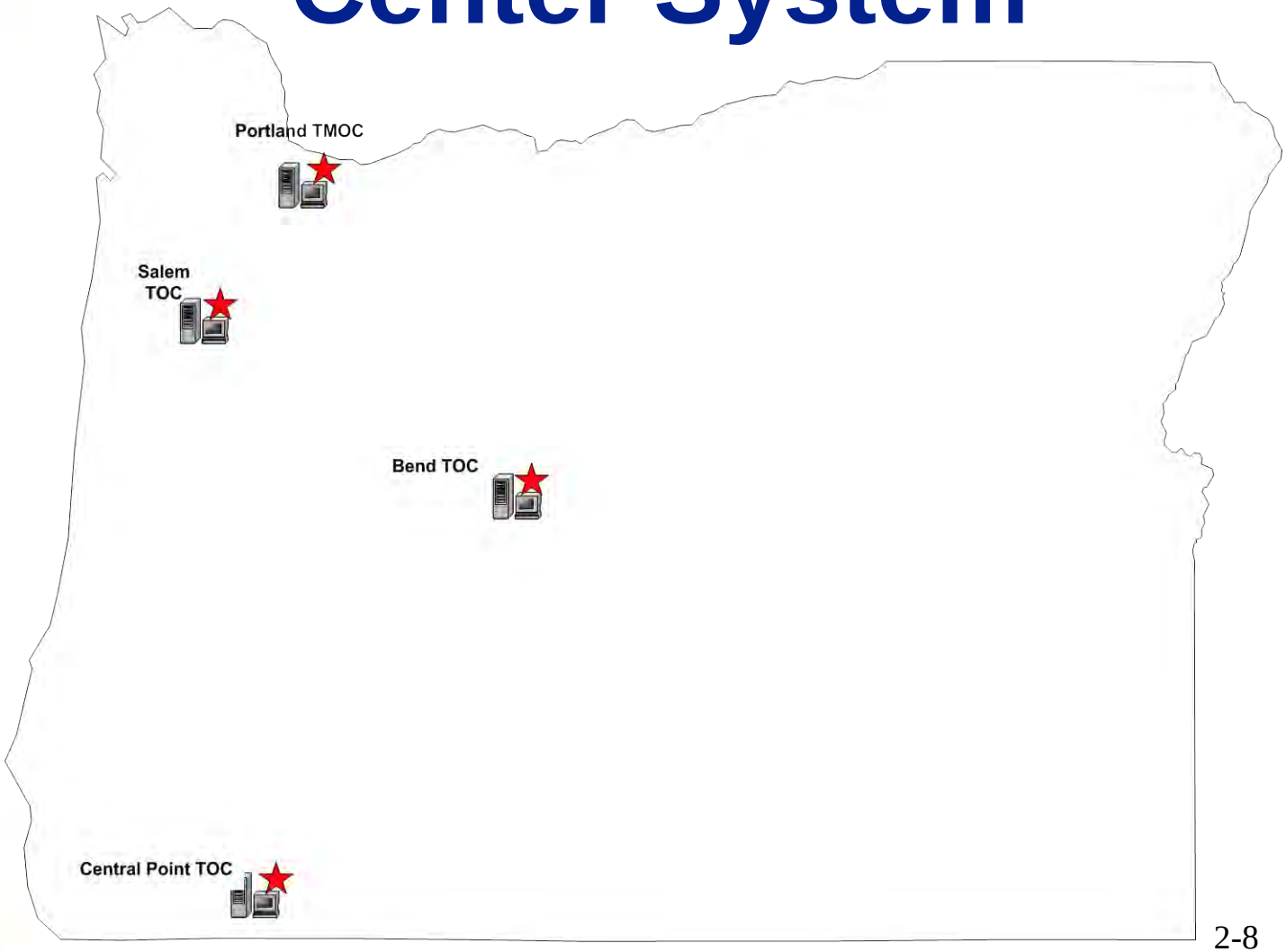
Cameras





VMS

Transportation Operations Center System



Region 1 -Portland

ODOT's Region 1 is mostly urban, including the Portland metro area. Region 1 constitutes approximately 44% of the ITS infrastructure in Oregon. ODOT-owned fiber optic communications infrastructure is available on most highway systems, and is the primary communications method employed.

- 135 Cameras
- 35 Variable Message Signs
- 142 Ramp Meters
- 34 Portable Variable Message Signs
- 14 Road Weather Information Systems
- 3 Other devices such as HAR, Weather Warning Systems, and Ramp Gates.

Region 1

Region 2 -Salem

ODOT's Region 2 is the second largest area asset-wise, and is comprised of mostly rural installations, with a few urban systems.

- 40 Cameras
- 15 Variable Message Signs
- 50 Portable Variable Message Signs
- 9 Road Weather Information Systems
- 56 Other devices such as HAR, Weather Warning Systems, and Ramp Gates.

Region 2

Region 3 -Medford

ODOT's Region 3 ties for the smallest area asset wise, and is comprised of mostly rural installations. Medford is the second region to build out and utilize a fiber ring for ITS and traffic systems.

- 29 Cameras
- 11 Variable Message Signs
- 19 Portable Variable Message Signs
- 10 Road Weather Information Systems
- 18 Other devices such as HAR, Weather Warning Systems, and Ramp Gates.

Region 3

Region 4 -Bend

ODOT's Region 4 has the third most ITS assets, and is mostly rural. Region 4 has been a leader in using broadband internet connections and implementing adaptive traffic control systems.

- 32 Cameras
- 11 Variable Message Signs
- 23 Portable Variable Message Signs
- 37 Road Weather Information Systems
- 7 Other devices such as HAR, Weather Warning Systems, and Ramp Gates.

Region 4

Region 5 -LaGrande

ODOT's Region 5 is the other area with the fewest ITS assets, and is the most rural of all the regions. No TOC.

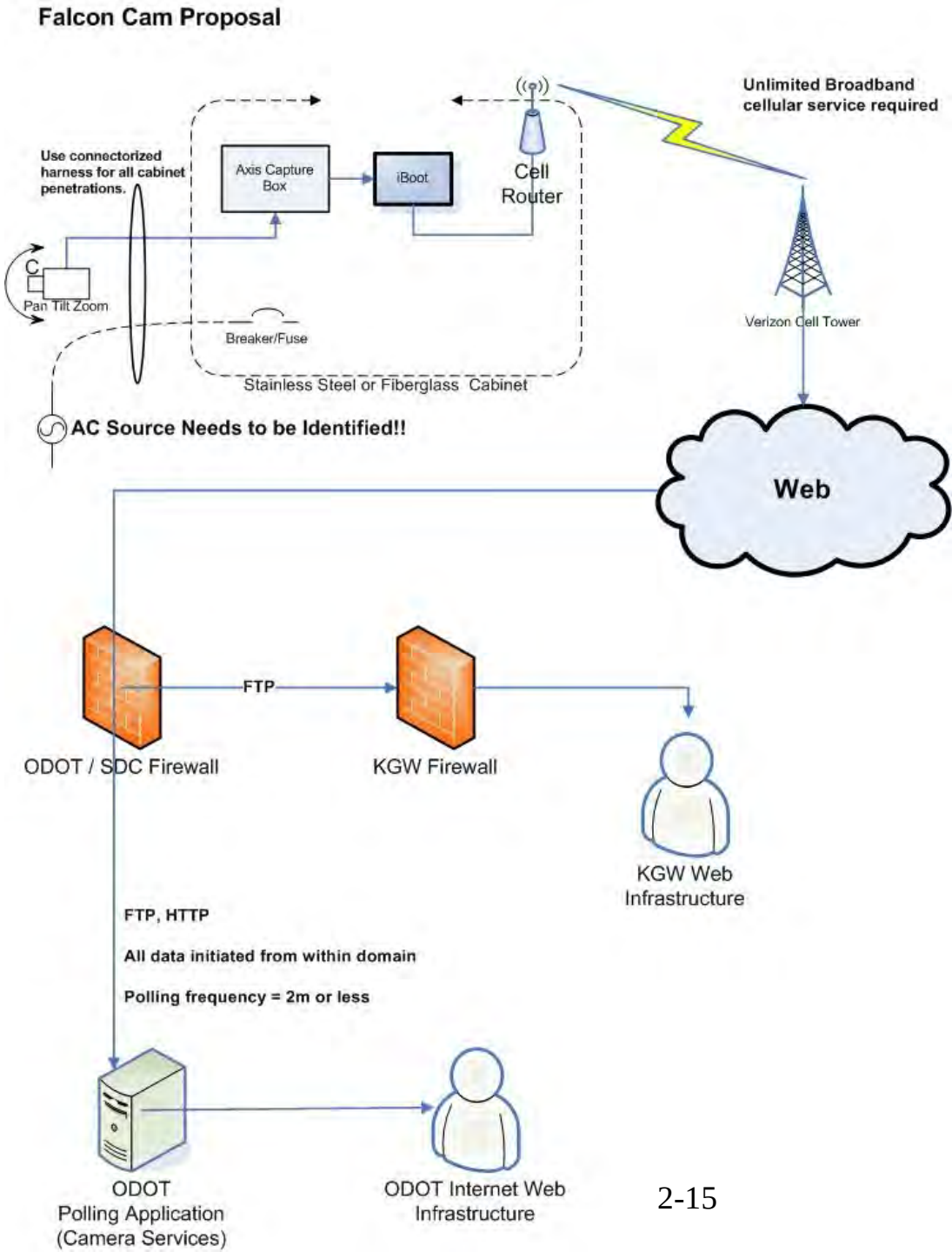
- 20 Cameras
- 26 Variable Message Signs
- 16 Portable Variable Message Signs
- 9 Road Weather Information Systems
- 16 Other devices such as HAR, Weather Warning Systems, and Ramp Gates.

Region 5

Field Device Connectivity

- Fiber Optics –ODOT Owned, leased dark fiber, bandwidth
- Frame circuits -56K, T1
- Microwave –ODOT owned
- POTS –Dialup
- Leased Lines -Serial
- Cellular –Public, Private
- Broadband –DSL, Cable

Field Device Connectivity



Network Architecture

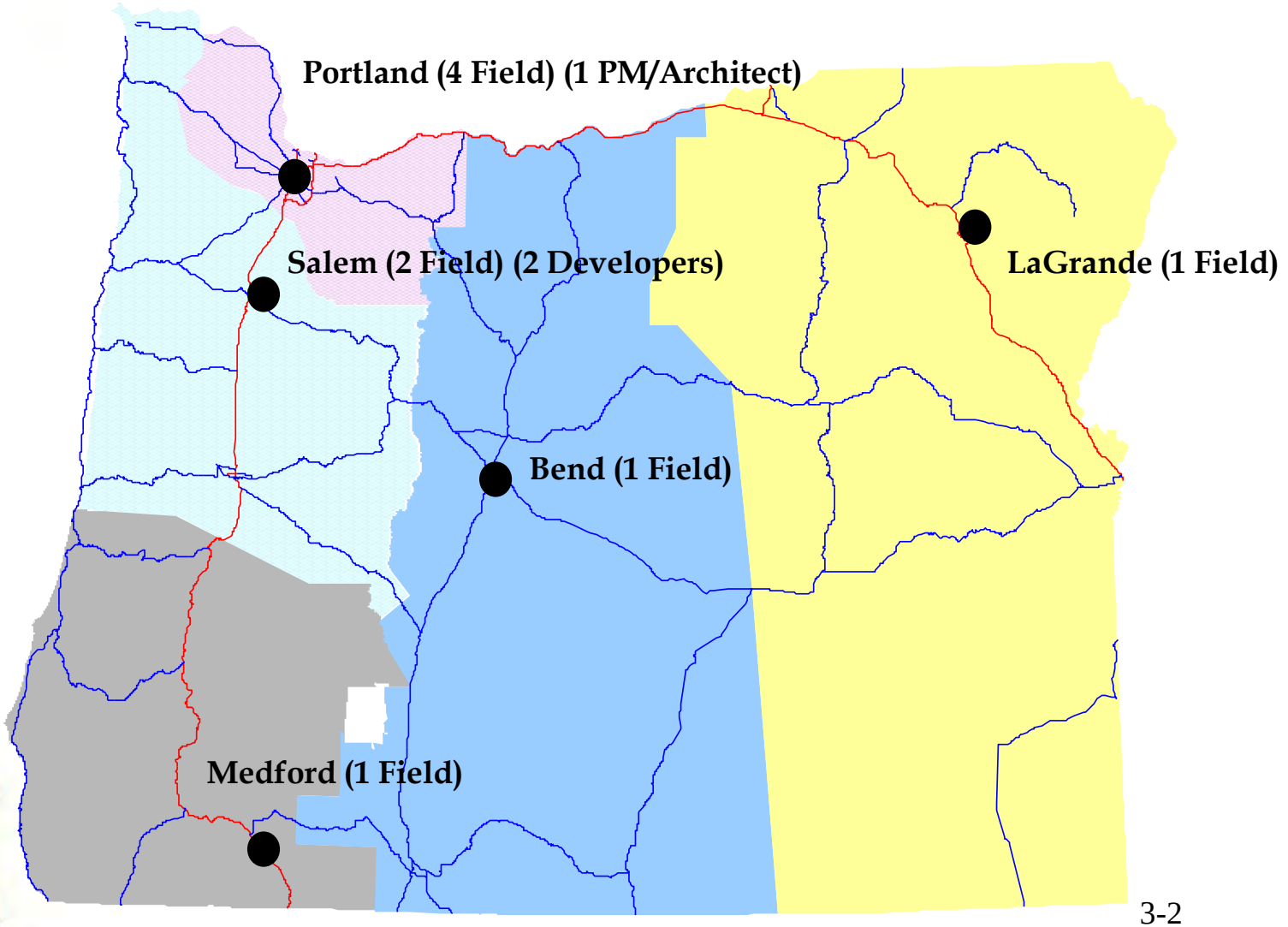
- Each TOC has head end network gear to catch field circuits
- Devices point to their regional TOC
- Redundant (back-up) circuits between TOCs
- All public circuits are firewalled, and terminate in a DMZ
- One 3G CDMA Cellular Private Network connection, more planned

Challenges in Asset Management

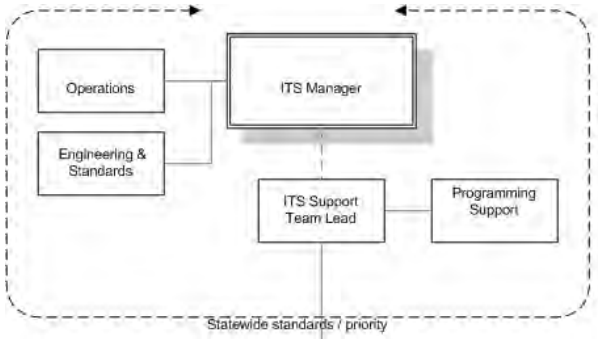
- Inventory Management
- Preventative Maintenance Scheduling and Tracking
- Asset Repair History
- Maintenance Cost Tracking
- Prioritization
- Standards

Oregon ITS Support

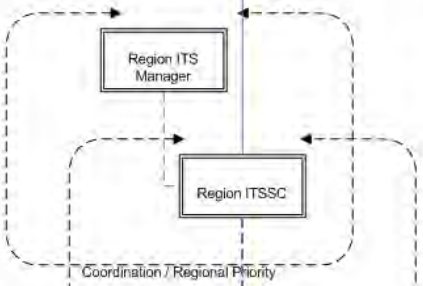
Regional Support Distribution



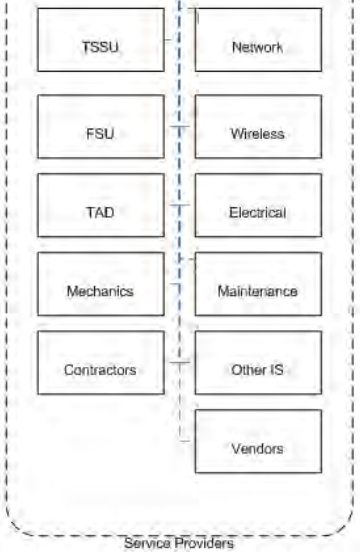
ITS Regional Organization



Statewide Budget, Standards, Maintenance Program, Operations



Responsible for setting regional priorities, allocating budget.
ITSSC- to perform or coordinate maintenance



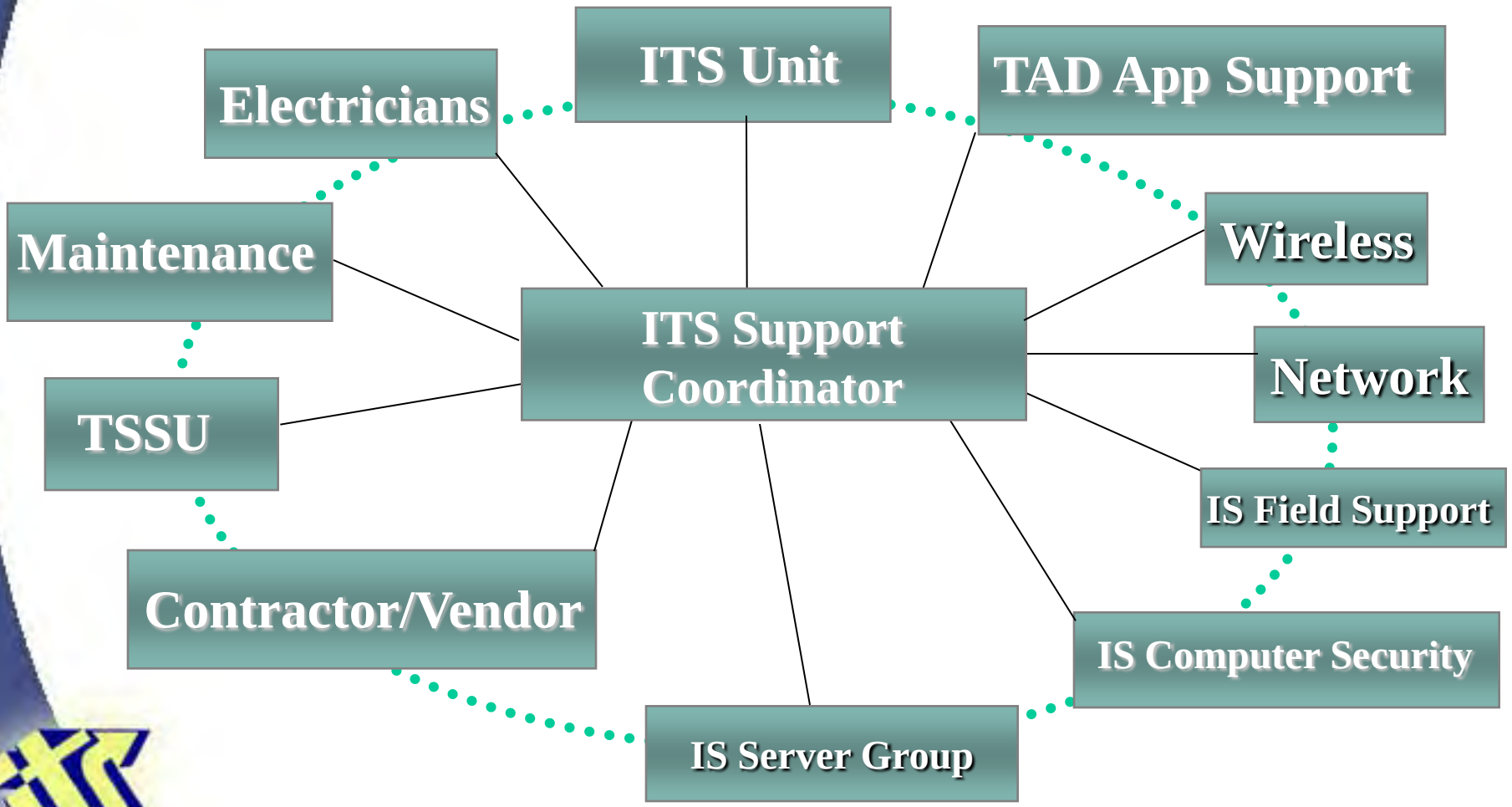
Specialist resources available to support coordinator to repair and maintain ITS systems.

Most ITS systems include components several crews would typically consider within their domain. The unusual complexity and interconnection of these systems create the need to manage support across crews. The ITS support Coordinator needs to understand each component in their systems, and possess the ability to communicate with each support crew they may need to get assistance from.

ITS Support Coordinators

- The ITS Support Coordinator performs, evaluates, and coordinates projects and activities that support operations and maintenance of ITS systems.
- Accountable for problem resolution even though effecting a solution may require action from many support teams.
- Single point of contact for TOC and field device issues.

ITS Support Providers



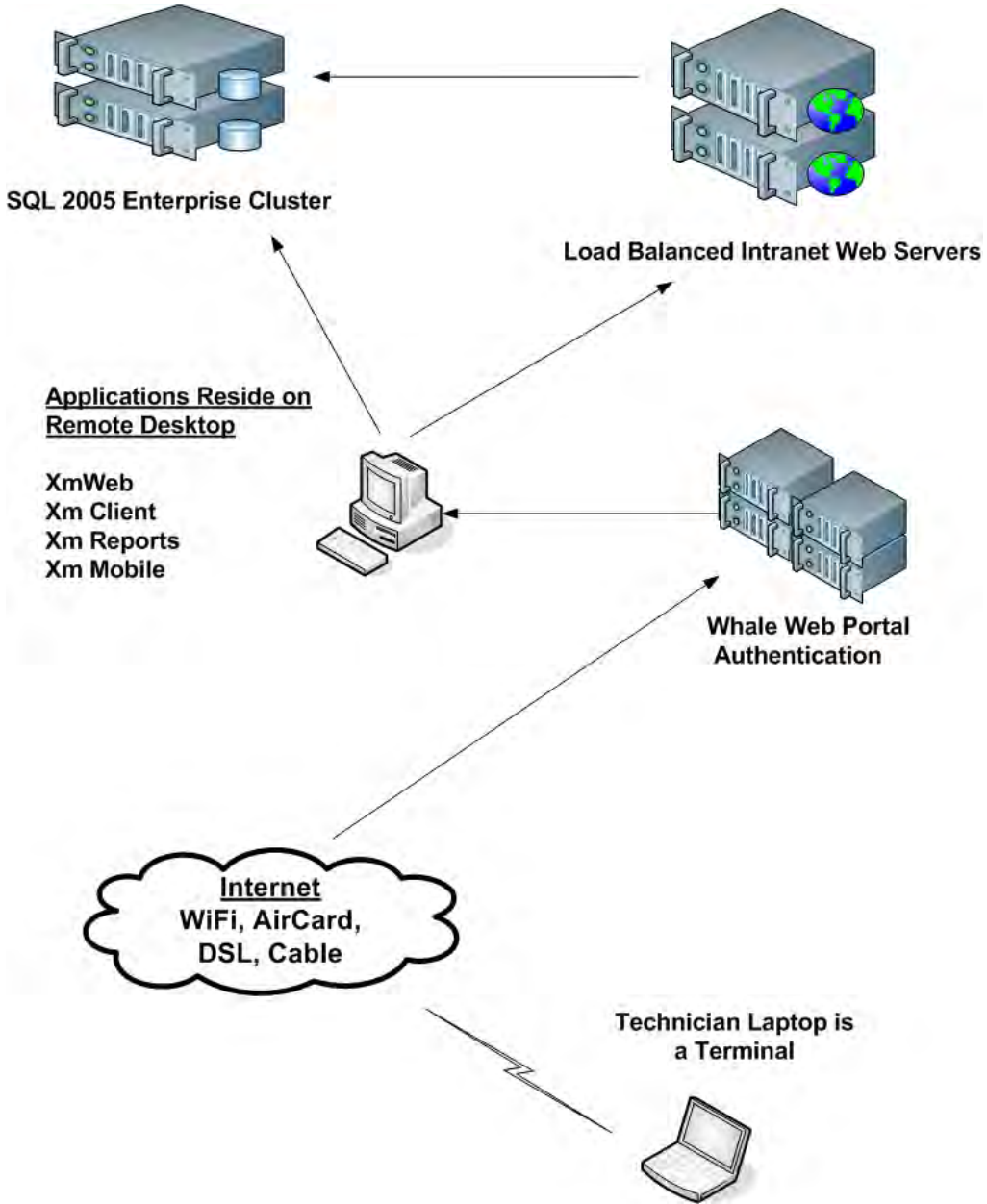
Working Together

Remote Support

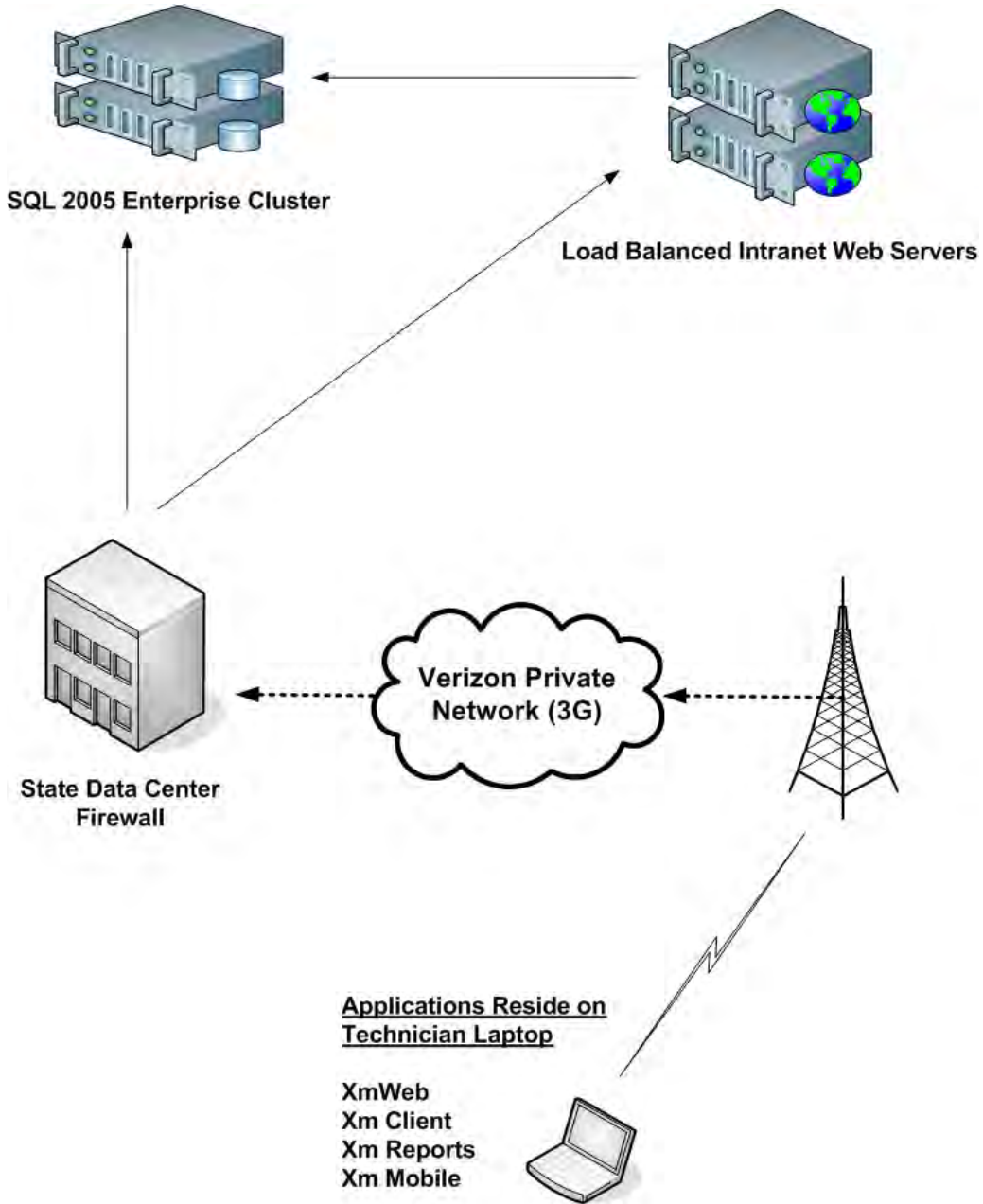
Technicians can access central applications from the field or home

- VPN Web Portal with Remote Desktop
- NetMotion
- Verizon Private Network / Gobi
- PDA
- Blackberry

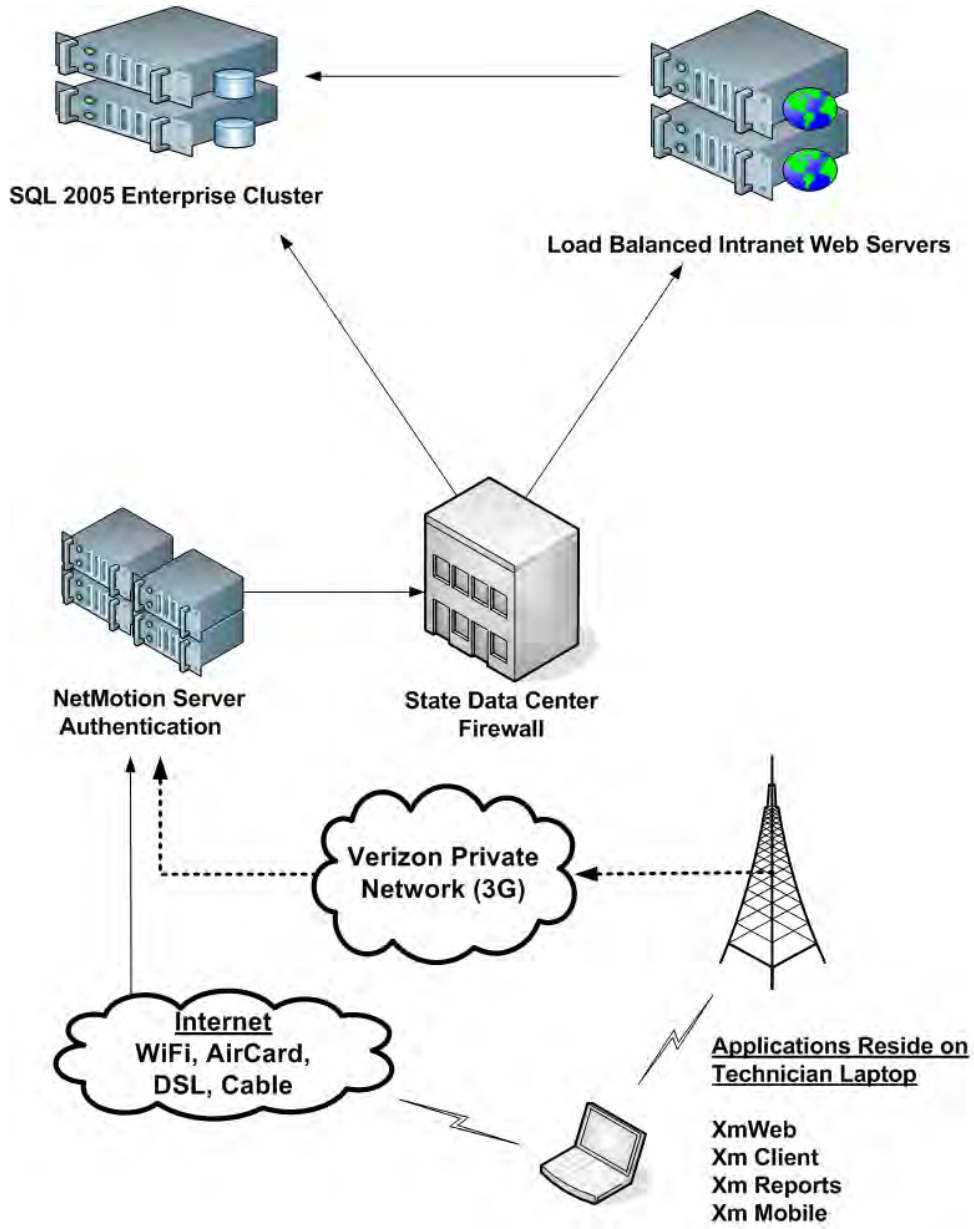
Whale Web Portal



Verizon Private Network



NetMotion

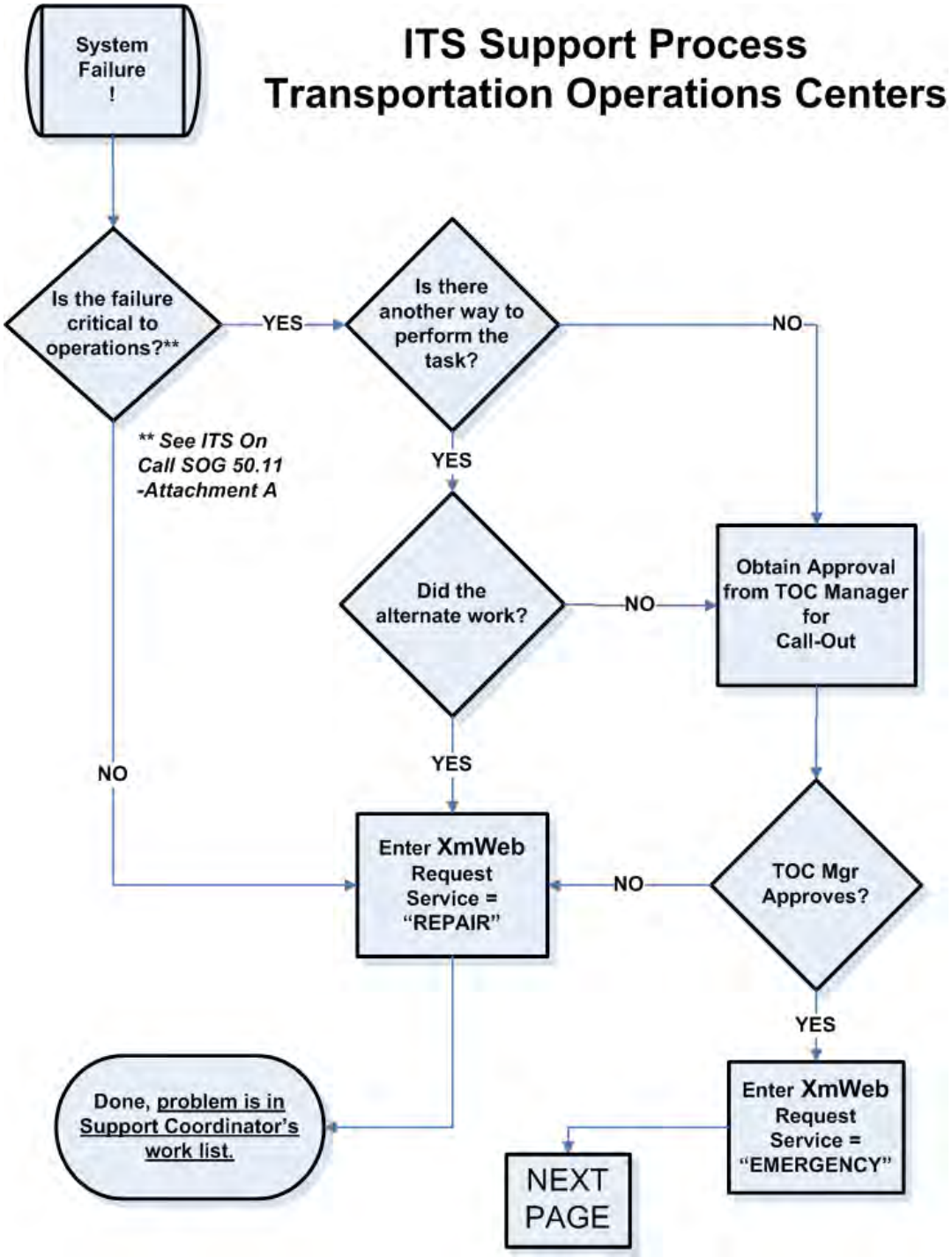

SQL 2005 Enterprise Cluster
Load Balanced Intranet Web Servers
NetMotion Server
Authentication
State Data Center
Firewall
Verizon Private
Network (3G)
Internet
WiFi, AirCard,
DSL, Cable
Applications Reside on
Technician Laptop
XmWeb
Xm Client
Xm Reports
Xm Mobile

Statewide After Hours Support

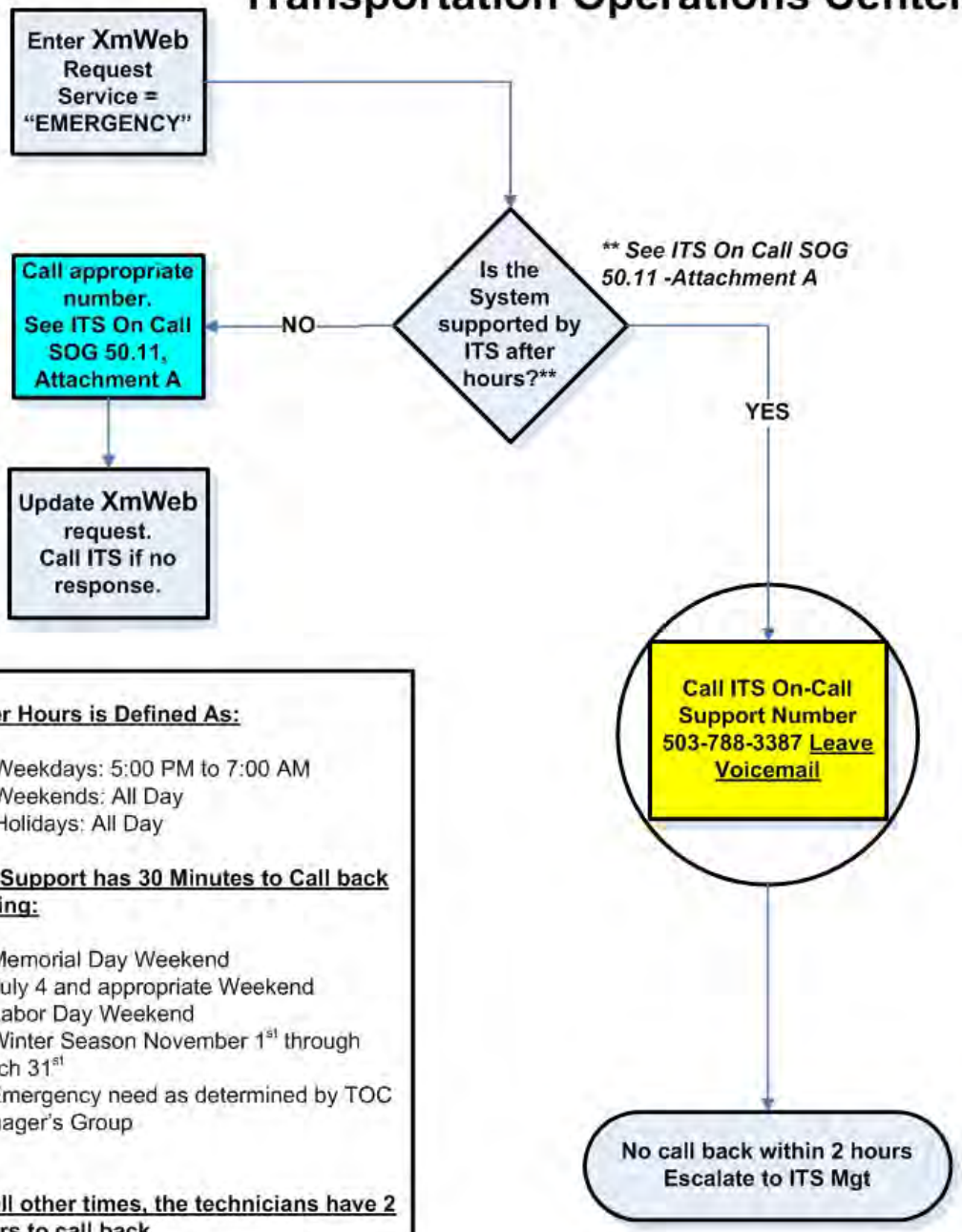
Adherence to standards and using Micromain has allowed us to provide statewide after hours support

- Micromain is used by all dispatch centers
- Records problems and initiates emergency call outs very quickly
- On-Call staff, Support Coordinators, and management get auto-notifications
- Emergency notification to On-Call staff

ITS Support Process
Transportation Operations Centers



ITS Support Process
Transportation Operations Centers



After Hours is Defined As:

- Weekdays: 5:00 PM to 7:00 AM
- Weekends: All Day
- Holidays: All Day

ITS Support has 30 Minutes to Call back During:

A) Memorial Day Weekend
B) July 4 and appropriate Weekend
C) Labor Day Weekend
D) Winter Season November 1st through March 31st
E) Emergency need as determined by TOC Manager's Group

At all other times, the technicians have 2 hours to call back

Regional Support Challenges

- Work Request Management and Distribution
  - Requests: Techs, Dispatch Centers, Business
  - Work Flow / Process
  - Priority
  - Change Notification
  - Coordination of Efforts
- Crew Supervision
  - Workload Management
  - Performance Measures
  - Standards Enforcement
  - Time Tracking

MicroMain Overview

ODOT ITS chose MicroMain as its **C**omputerized **M**aintenance **M**anagement **S**ystem to solve these asset management and support challenges.

ODOT evaluated 21 CMMS Applications, and decided on MicroMain based on features, standards, cost, and source code ownership.

MicroMain Components

- Server component: SQL database
- Xm Client
- Xm Reports
- Xm Mobile
  - Handheld (Win CE or Palm)
  - PC
- Xm Web

Application Details

- MicroMain Xm Enterprise SQL
- Purchase included source code
- Licenses are concurrent
- All user interfaces connect to central SQL DB

ODOT Server Environment

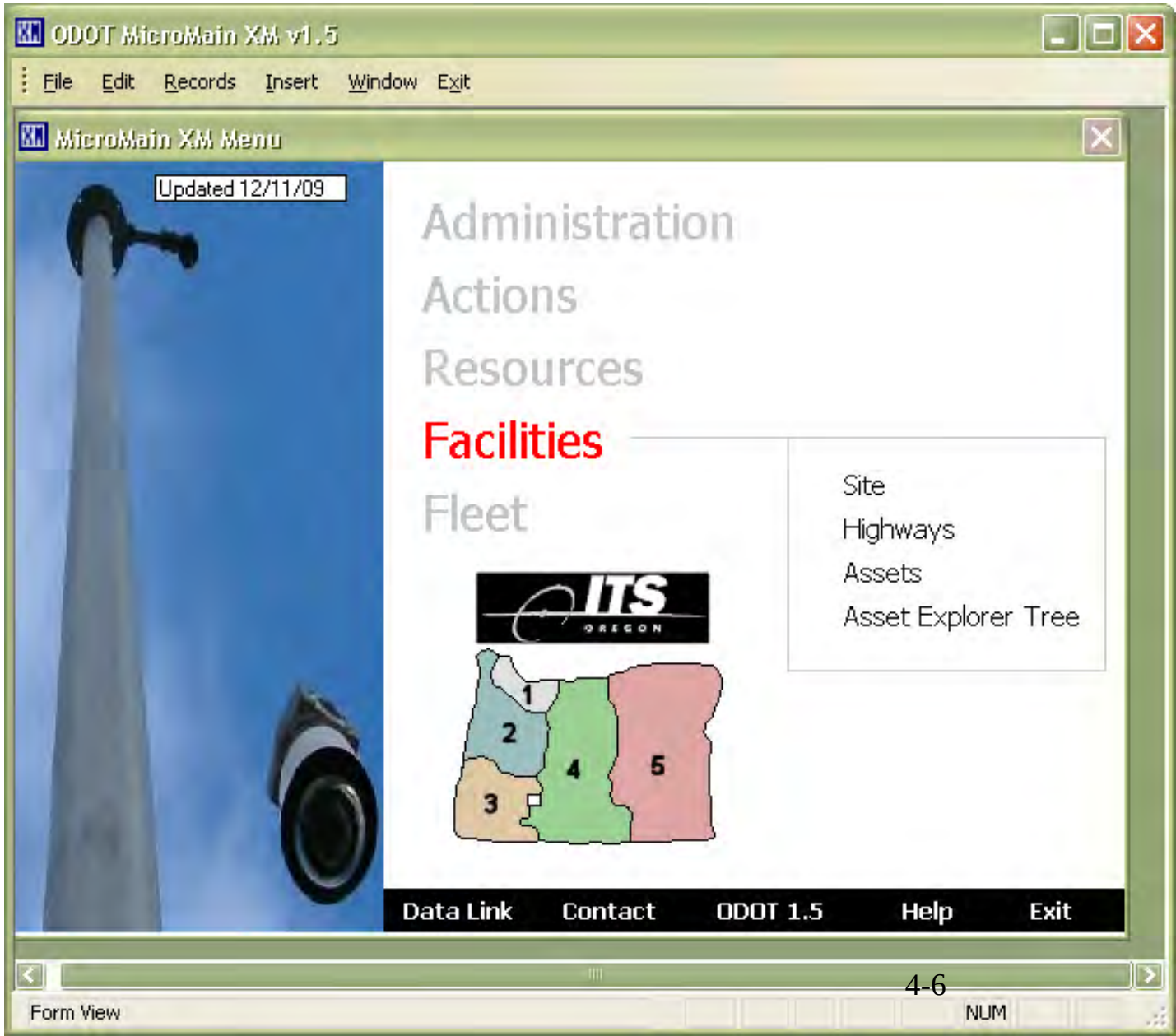
- ODOT Network Domain
- MS Windows Server 2008 64Bit
- MS SQL Enterprise 2005 (Clustered)

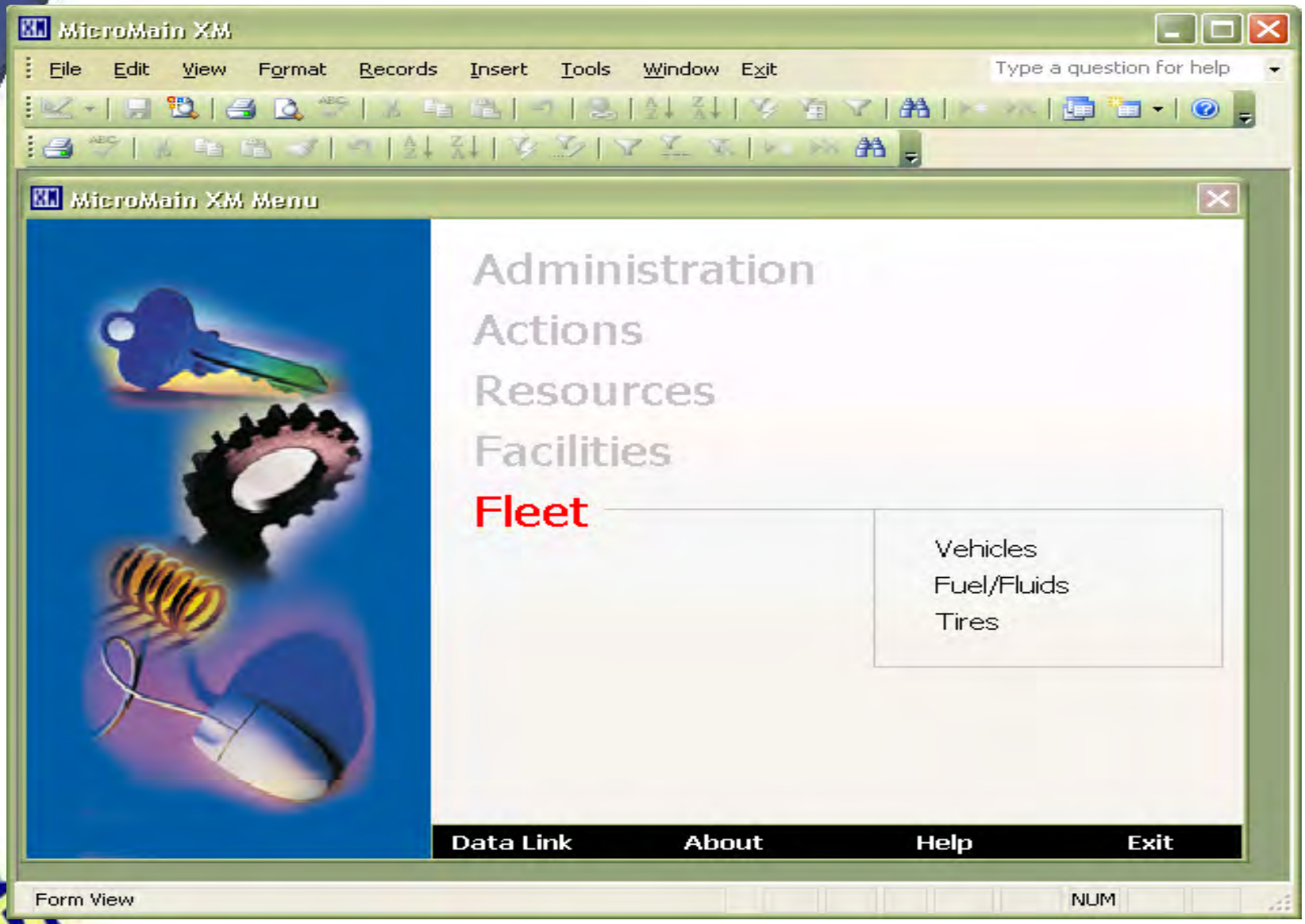
ODOT PC Environment

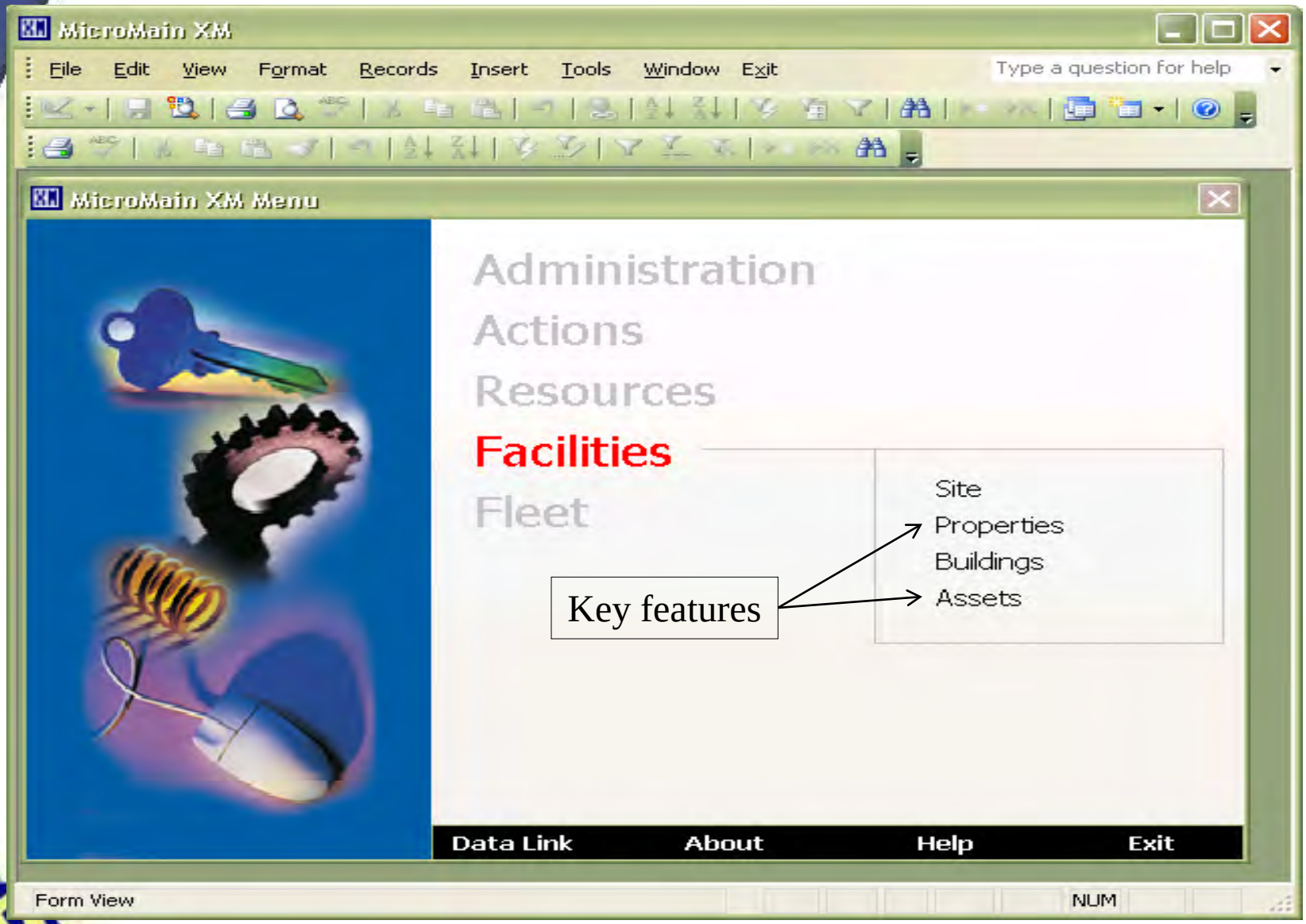
- Windows XP Professional, SP3
- MS Office 2003
- MicroMain Xm Client –MS Access
- MicroMain Xm Reports –MS Access
- .Net Web client
- IE Explorer V7
- .Net PDA client

Xm Client

- Quick Summary
- MS Access
- Linked Tables
- Accidental Changes
- Used by Admin




MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Vehicles
Fuel/Fluids
Tires
Data Link
About
Help
Exit
Form View
NUM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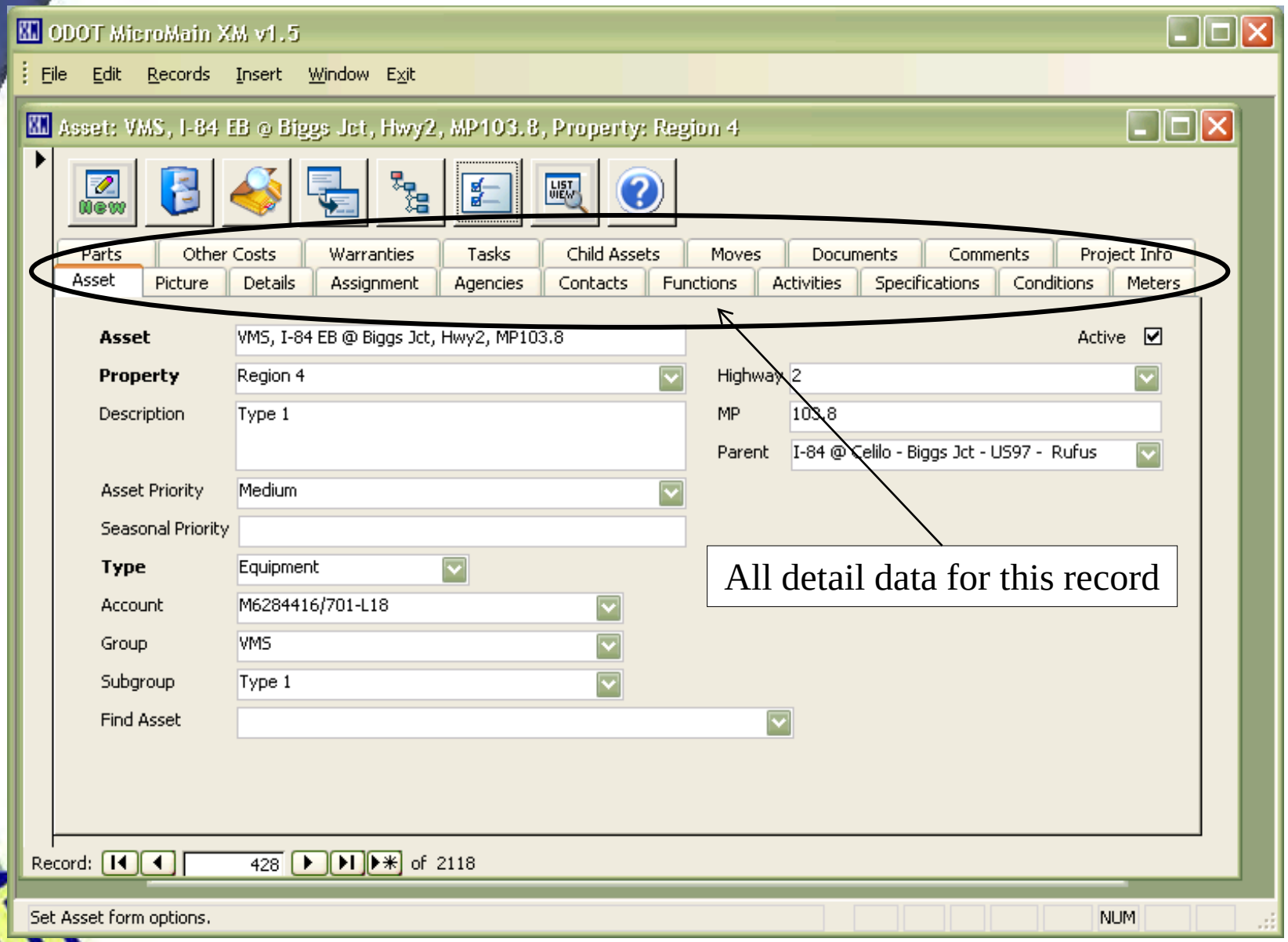
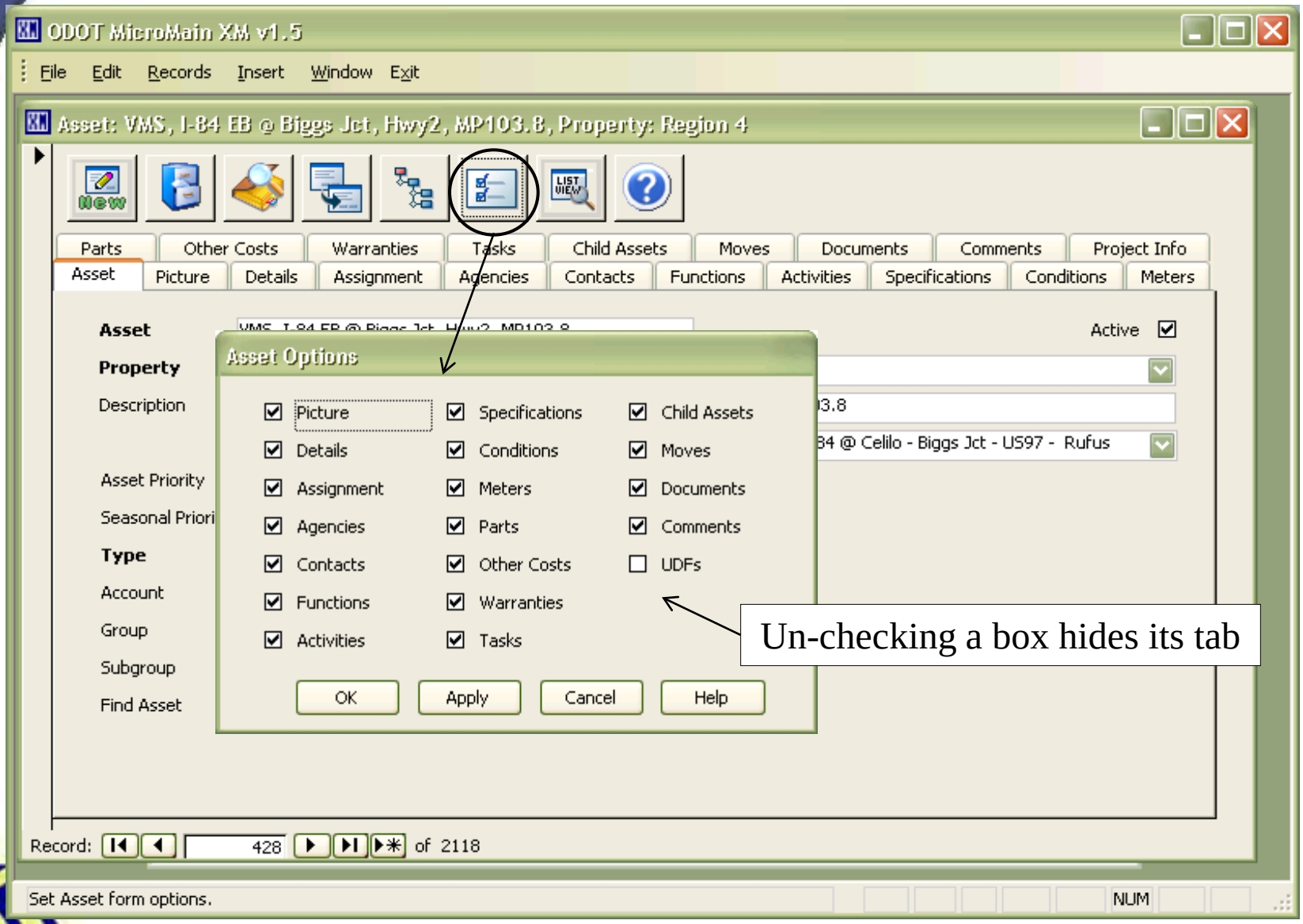
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Site
Properties
Buildings
Assets
Key features
Data Link
About
Help
Exit
Form View
NUM


ODOT MicroMain XM v1.5
File Edit Records Insert Window Exit
Asset: VMS, I-84 EB @ Biggs Jct, Hwy2, MP103.8, Property: Region 4
New
LIST VIEW
Parts Other Costs Warranties Tasks Child Assets Moves Documents Comments Project Info
Asset Picture Details Assignment Agencies Contacts Functions Activities Specifications Conditions Meters
Asset VMS, I-84 EB @ Biggs Jct, Hwy2, MP103.8
Active
Property Region 4
Highway 2
Description Type 1
MP 103.8
Parent I-84 @ Celilo - Biggs Jct - US97 - Rufus
Asset Priority Medium
Seasonal Priority
Type Equipment
Account M6284416/701-L18
Group VMS
Subgroup Type 1
Find Asset
All detail data for this record
Record: 428 of 2118
Set Asset form options.
NUM


ODOT MicroMain XM v1.5
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Asset
Property
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Seasonal Priori
Type
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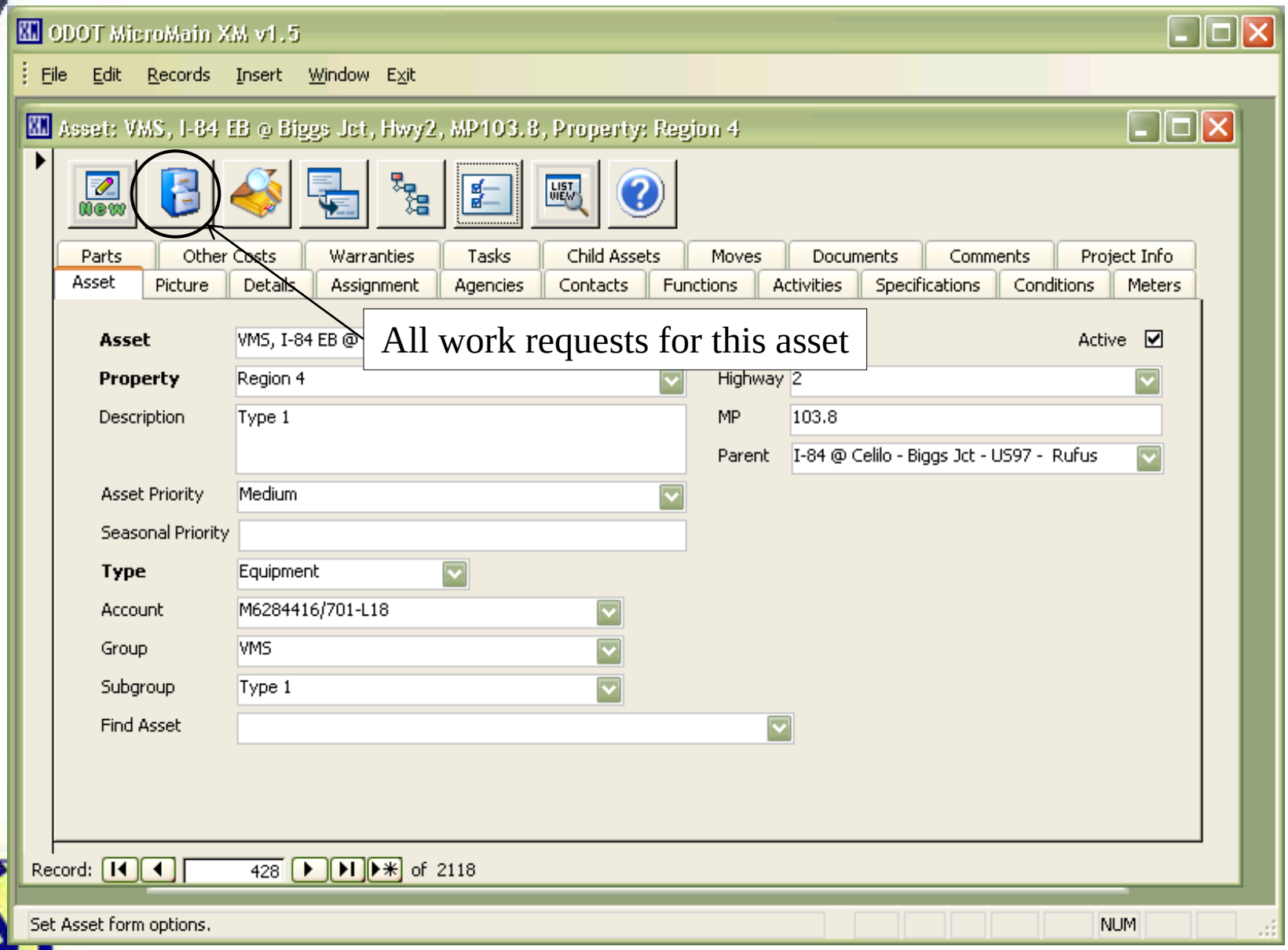
Subgroup
Find Asset
Active
Asset Options
Picture
Details
Assignment
Agencies
Contacts
Functions
Activities
Specifications
Conditions
Meters
Parts
Other Costs
Warranties
Tasks
Child Assets
Moves
Documents
Comments
UDFs
OK
Apply
Cancel
Help
Un-checking a box hides its tab
Record: 428 of 2118
Set Asset form options.
NUM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Asset Picture Details Assignment Agencies Contacts Functions Activities Specifications Conditions Meters
All work requests for this asset
Asset VMS, I-84 EB @
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Property Region 4
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Description Type 1
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Asset Priority Medium
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Type Equipment
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Group VMS
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Find Asset
Record: 428 of 2118
Set Asset form options.
NUM

ODOT MicroMain XM v1.5 - [Asset History: VMS, I-84 EB @ Biggs Jct, Hwy2, MP103.8, Region 4]

File Edit Records Insert Window Exit

Report: Date from 5/24/2009 to 5/24/2010

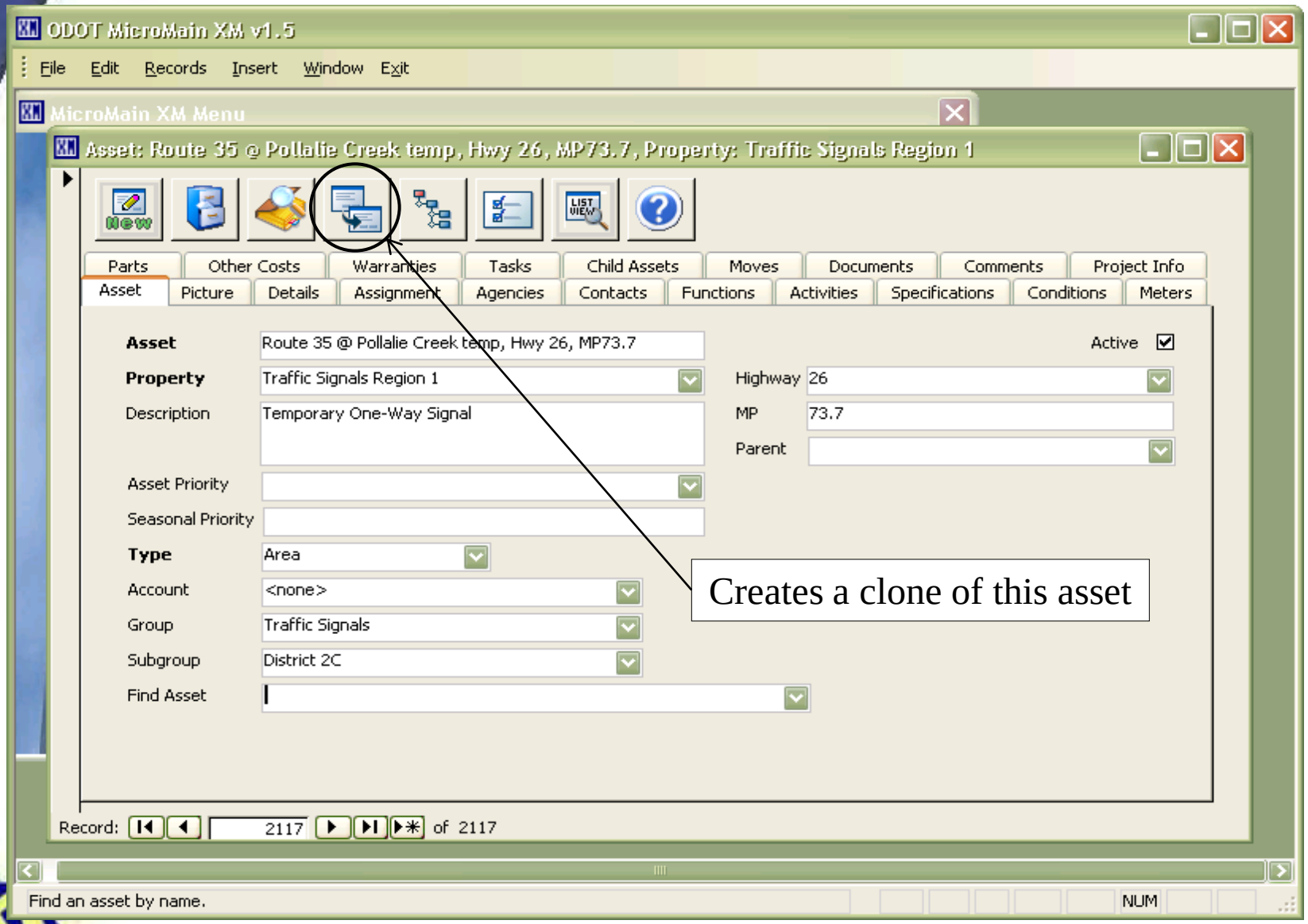
Total Cost 1,731.50
Total Work Orders 11

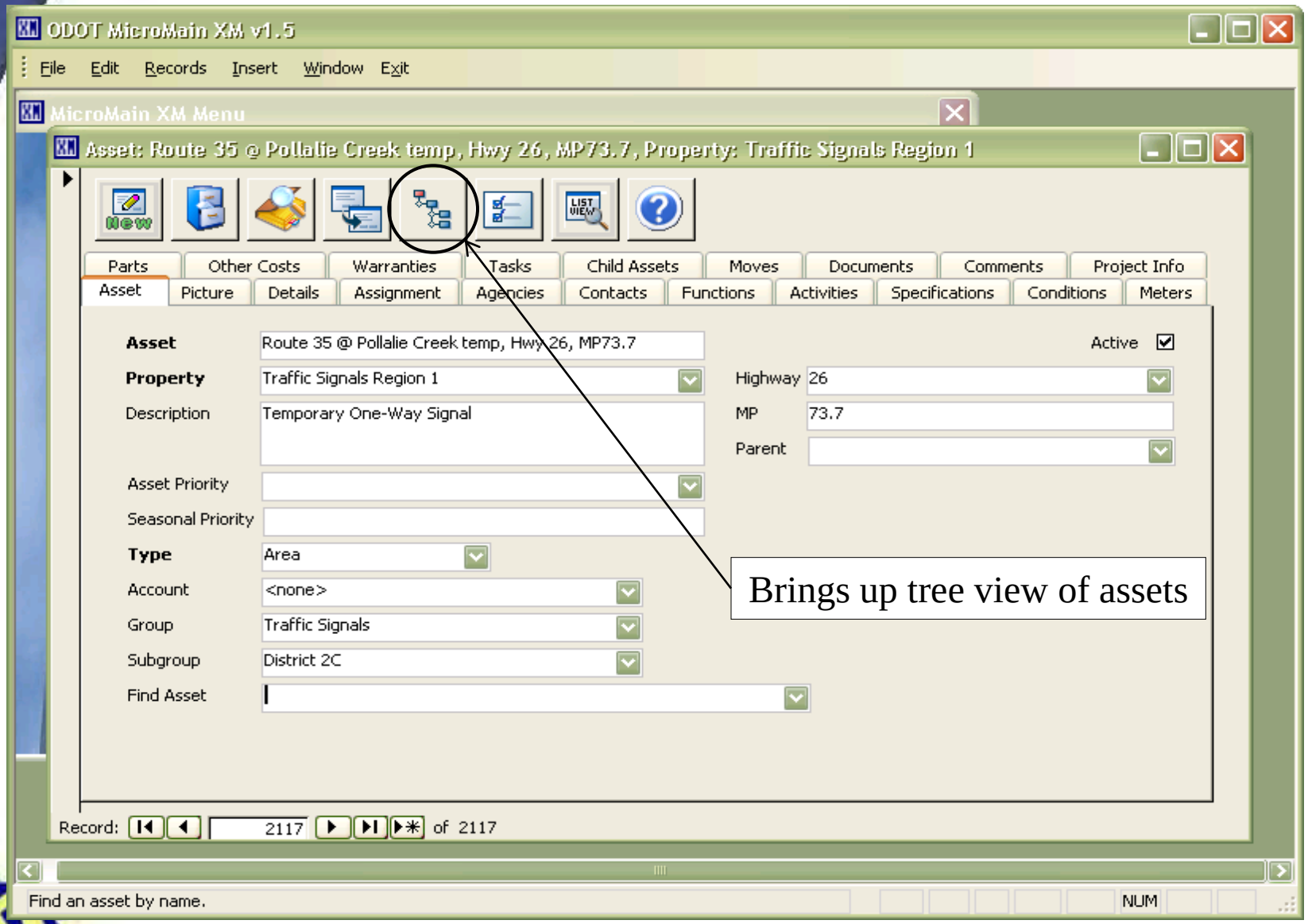
WO Numbe	Service	Description	Status	Requested	Issued	Completed	Cost	Primary Failure	Comments
14456	Annual PM, VMS, 5/13/2010	Autogenerated annual VMS PM, Inspect Mounting Hardware - Ensure Mounting Hardware, esp bolts are tight, and in good condition	Requested	4/11/2010 3:52:14 PM			0.00		
11688	Failed Inspection Point(s) from WO 10009	POINT: Sign enclosure fan operation ACTION: Observe sign housing fan operation. Troubleshoot thermostat, fan	Requested	8/19/2009 9:40:16 AM			0.00		81809 JT fan on pvc black pipe by door is out. Any question call me. POINT: Sign enclosure fan operation Comments: Observe sign housing fan operation.
10009	VMS PM, Annual (Region 4), 3/13/2009	Autogenerated annual VMS PM, Inspect Mounting Hardware - Ensure Mounting Hardware, esp bolts are tight, and in good condition	Completed	3/13/2009 1:59:57 PM	8/19/2009 9:56:49 AM	8/19/2009 3:46:27 PM	432.00	No Failure	81809 JT JAWS pm sign failed fan behind power suplys middle pvc tube left side facing sign.
8509	rfw	polled sign, gave 'service A' message. shows message on.	Canceled	10/22/2008 9:41:16 AM	7/27/2009 9:12:38 AM		0.00		
6395	VMS PM, Annual (Region 4), 11/14/2008	Autogenerated annual VMS PM, Clean Lexan - Clean Lexan inside and out	Completed	3/10/2008 10:19:37 AM	9/15/2008 8:00:38 AM	9/17/2008 4:55:43 PM	162.00		9/15/08 GRB & JJS Annual PM.
5213	Repair	Do you know that we have to go thru Standalone to activate this sign?	Completed	12/7/2007 12:00:20 PM	12/10/2007 7:25:06 AM	12/10/2007 7:25:12 AM	27.50	Operator Error	12/10/07 0715hrs - JAWS - Checked operation with Launcher and was successful. Confirmed with operator what occurred and found operator only attempted once then went to Skyline.
5182	Repair	Re-install UPS at this location.. VMS would not work, Standalone came back ring no answer.	Open	12/2/2007 9:01:33 PM	4/16/2008 11:22:08 AM		67.50		11/25/08 JAWS - Have not been able to find the UPS that was repaired and returned per ups tracking below. Need to find UPS and re-install at this location.
3669	VMS PM, Annual (Region 4), 8/31/2007	Preventative Maintenance for permanent Variable Message Signs Inspect Mounting Hardware - Ensure Mounting Hardware, esp bolts are tight, and in good condition	Completed	6/13/2007 6:14:11 PM	9/25/2007 4:55:30 PM	9/25/2007 4:56:09 PM	405.00	No Failure	9/19/07 GRB & JJT Annual PM. Cleaned and checked filters. Station 4 contacted the sign and installed and removed a message. Good comms. Beacons were activated and de-activated.
1256	VMS PM, Annual (Region 4), 8/31/2006	Preventative Maintenance for permanent Variable Message Signs	Canceled	6/12/2006 1:08:58 PM			0.00	No Failure	
848	Repair	While in area requested that TOC test VMS. Found that communication was not possible. 1500hrs on site found controllers and power off. UPS failed to	Completed	5/23/2006 8:46:55 AM	11/1/2007 5:10:48 PM	11/1/2007 5:19:47 PM	582.50	Part Failure	10/24/07 GRB & DA Checked charging, all ok. Performed conductance testing. Results follow. BAT 1 2 3 4 -- 236 236 224 230 mhos
573	Emergency Repair	Sign not working. 03/31/2006 1000hrs Ken S. on site to check into problems. The UPS was turned off and we found the batteries were connected	Completed	3/30/2006 5:44:01 PM	4/5/2006 9:08:10 AM	4/5/2006 9:08:24 AM	55.00	Utilities	

Record: 10 of 11

Read-only. Service performed on work order.

NUM


ODOT MicroMain XM v1.5
File Edit Records Insert Window Exit
MicroMain XM Menu
Asset: Route 35 @ Pollalie Creek temp, Hwy 26, MP73.7, Property: Traffic Signals Region 1
Parts Other Costs Warranties Tasks Child Assets Moves Documents Comments Project Info
Asset Picture Details Assignment Agencies Contacts Functions Activities Specifications Conditions Meters
Asset Route 35 @ Pollalie Creek temp, Hwy 26, MP73.7
Active
Property Traffic Signals Region 1
Highway 26
Description Temporary One-Way Signal
MP 73.7
Parent
Asset Priority
Seasonal Priority
Type Area
Account <none>
Group Traffic Signals
Subgroup District 2C
Find Asset
Creates a clone of this asset
Record: 2117 of 2117
Find an asset by name.
NUM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Property Traffic Signals Region 1
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Description Temporary One-Way Signal
MP 73.7
Parent
Asset Priority
Seasonal Priority
Type Area
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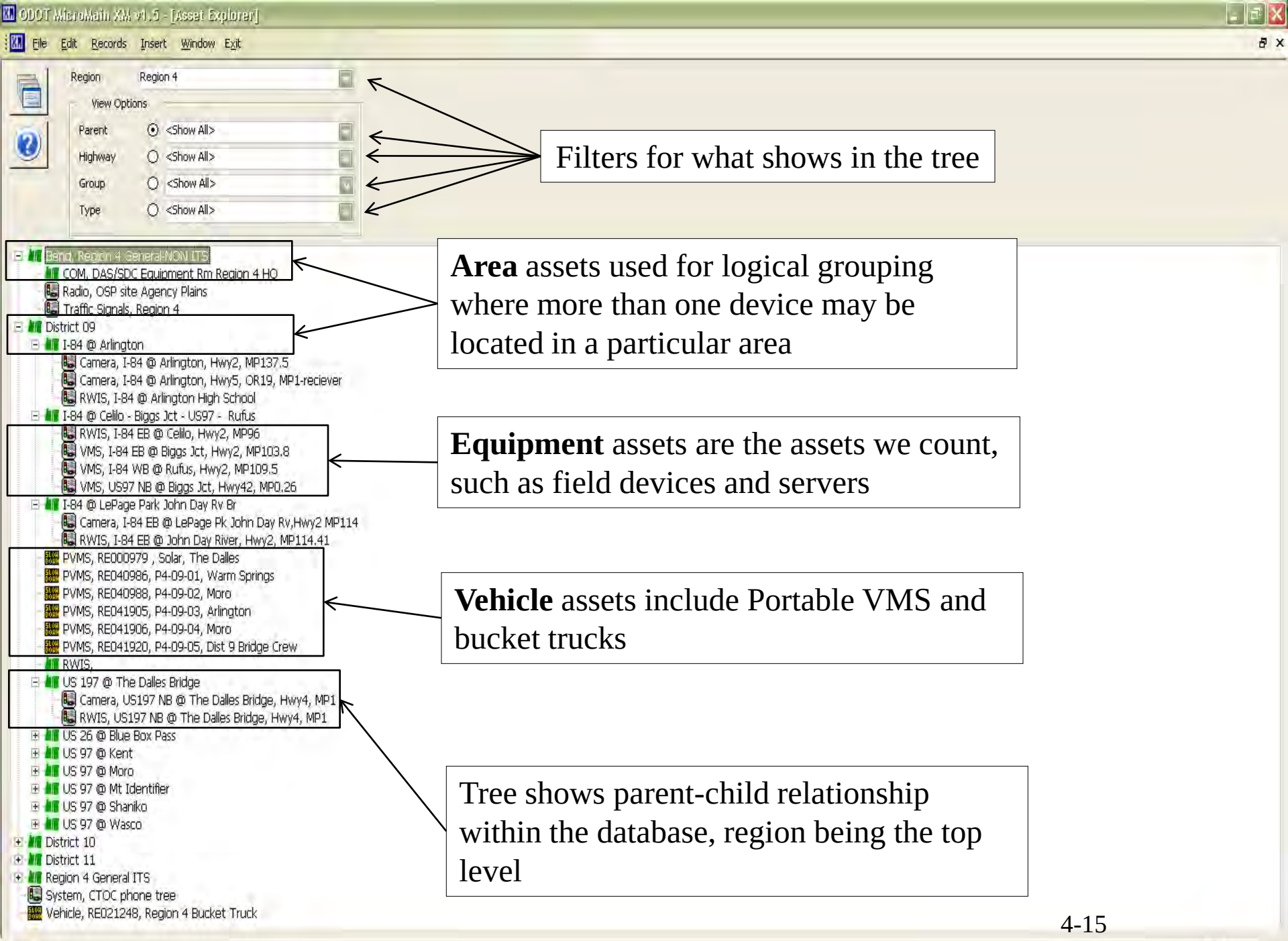
Group Traffic Signals
Subgroup District 2C
Find Asset
Record: 2117 of 2117
Find an asset by name.
NUM
Brings up tree view of assets



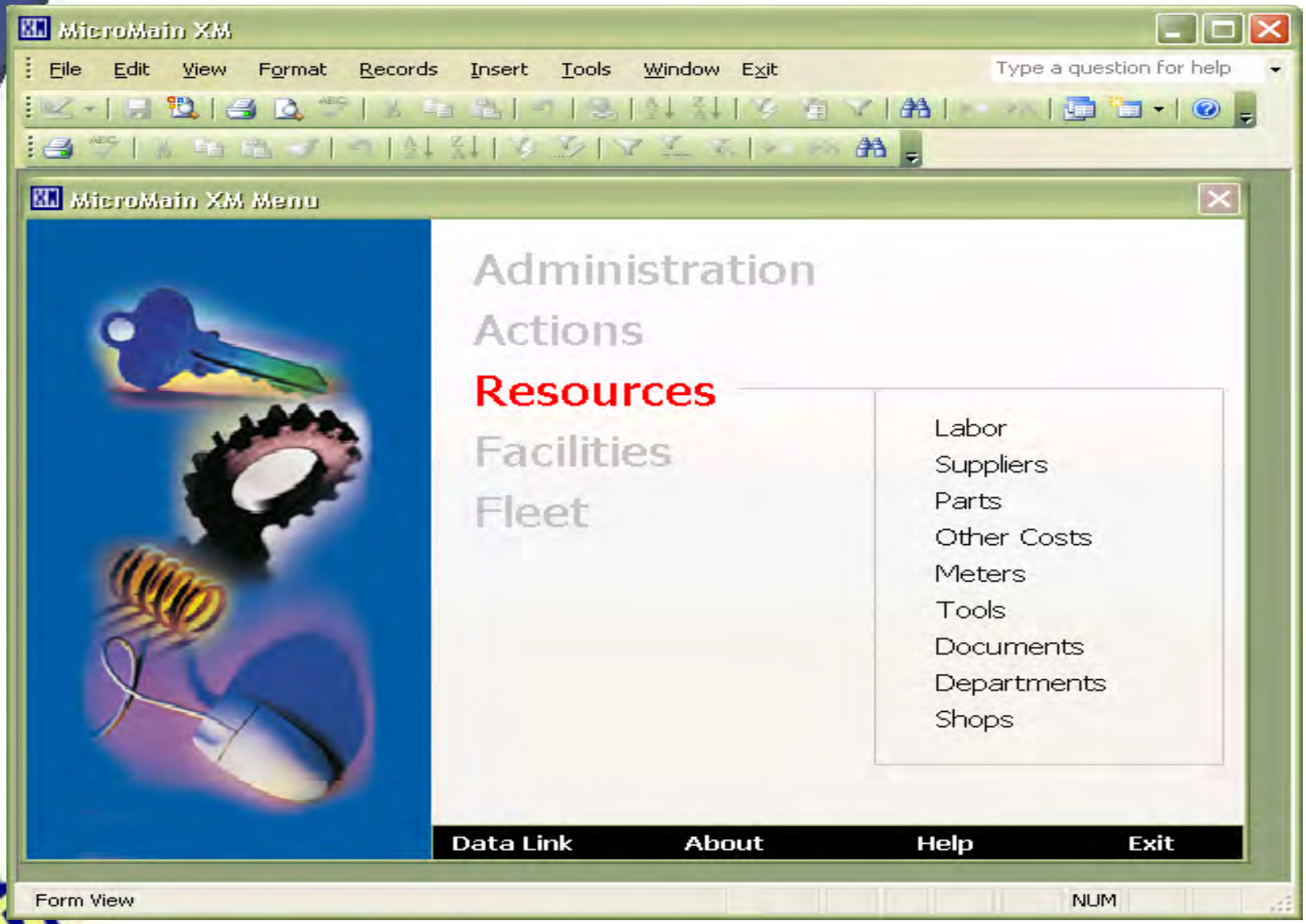
Filters for what shows in the tree

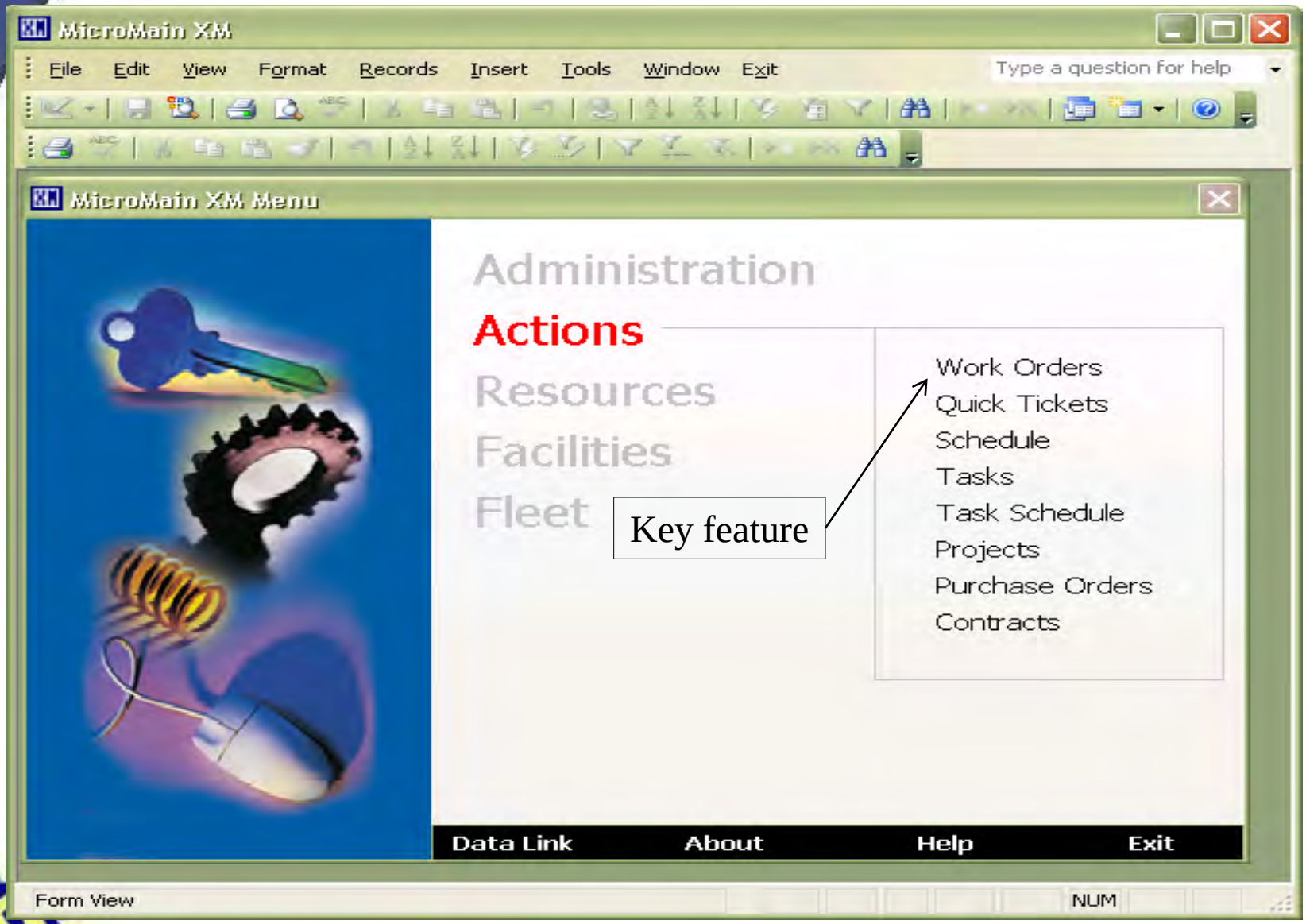
Area assets used for logical grouping where more than one device may be located in a particular area

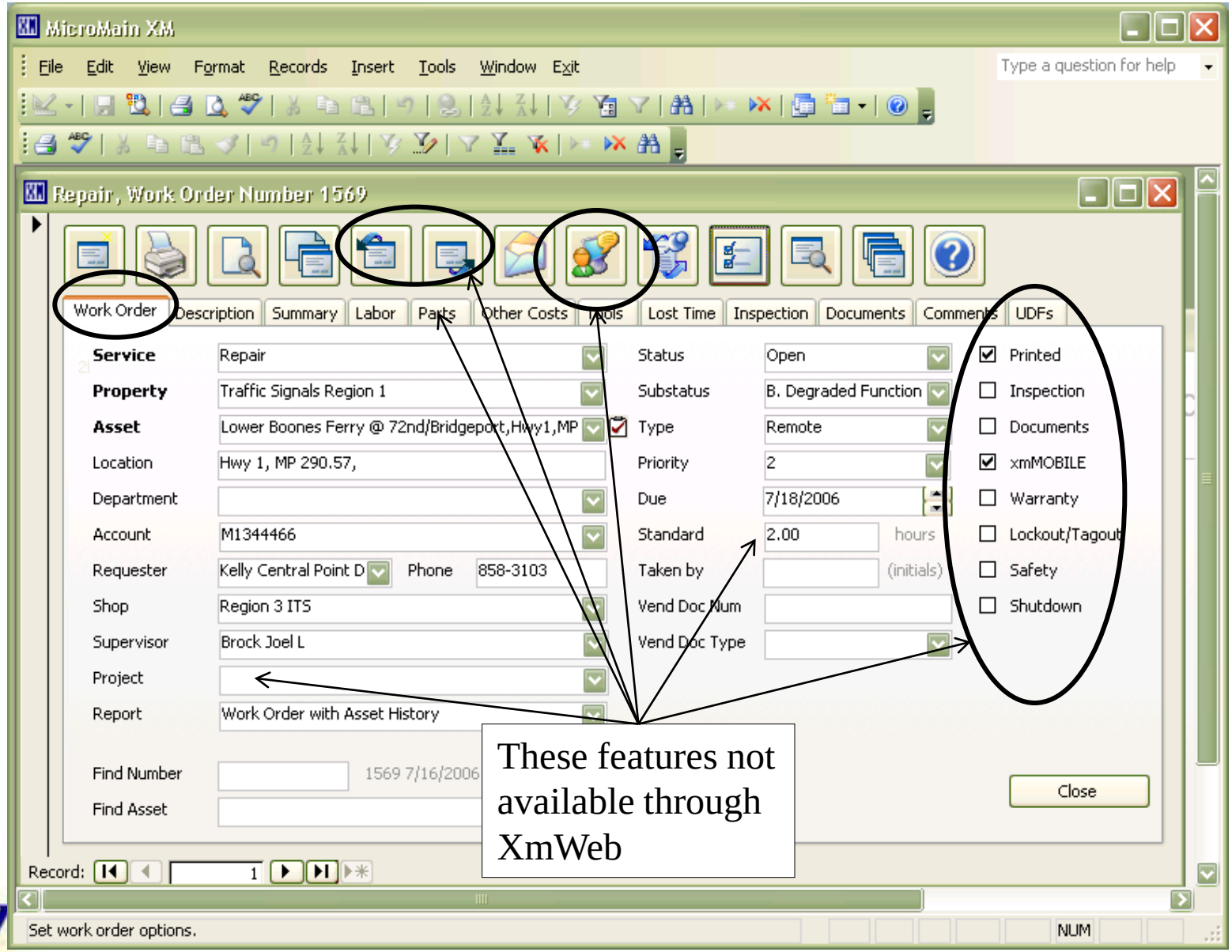
Equipment assets are the assets we count, such as field devices and servers

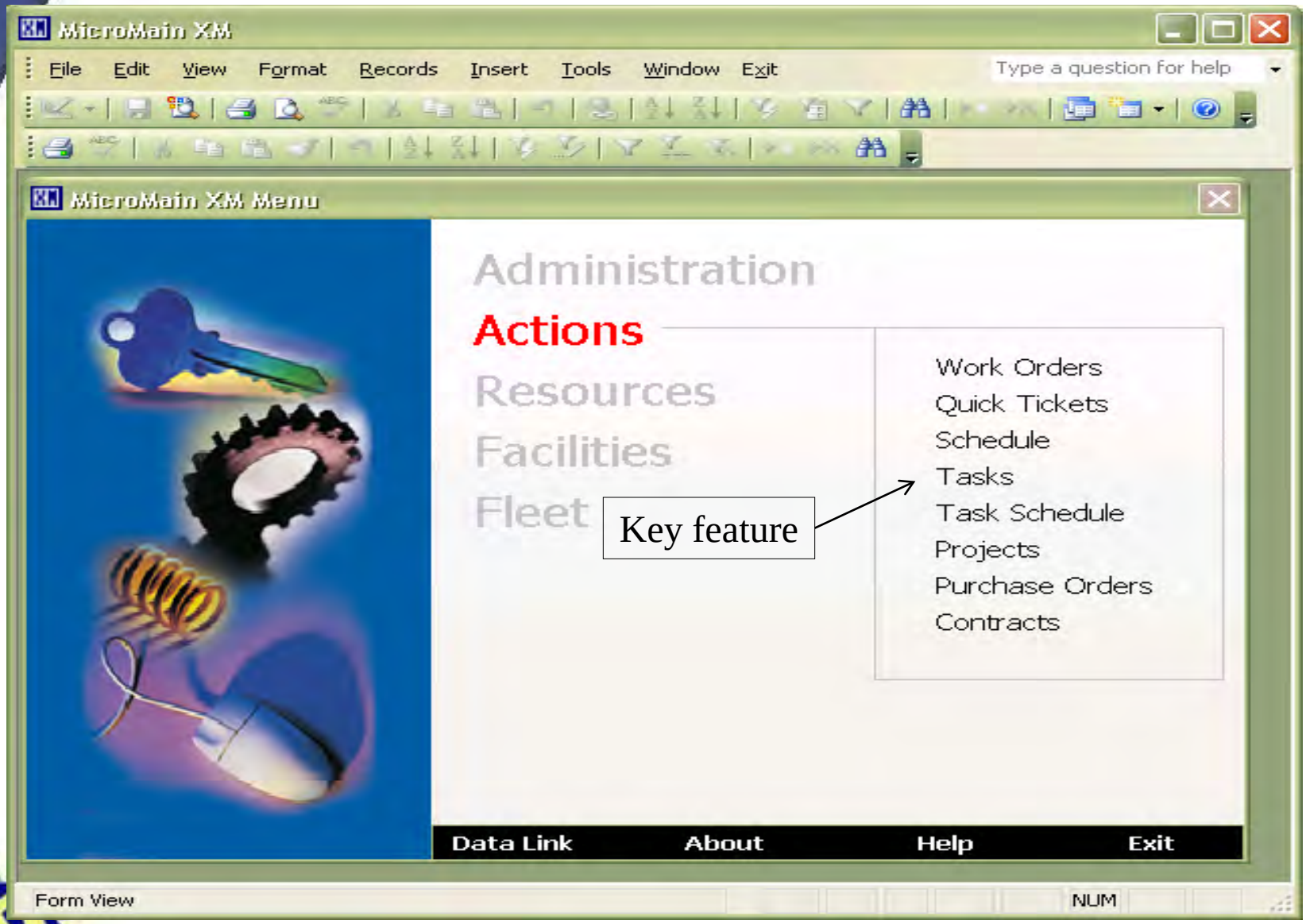
Vehicle assets include Portable VMS and bucket trucks

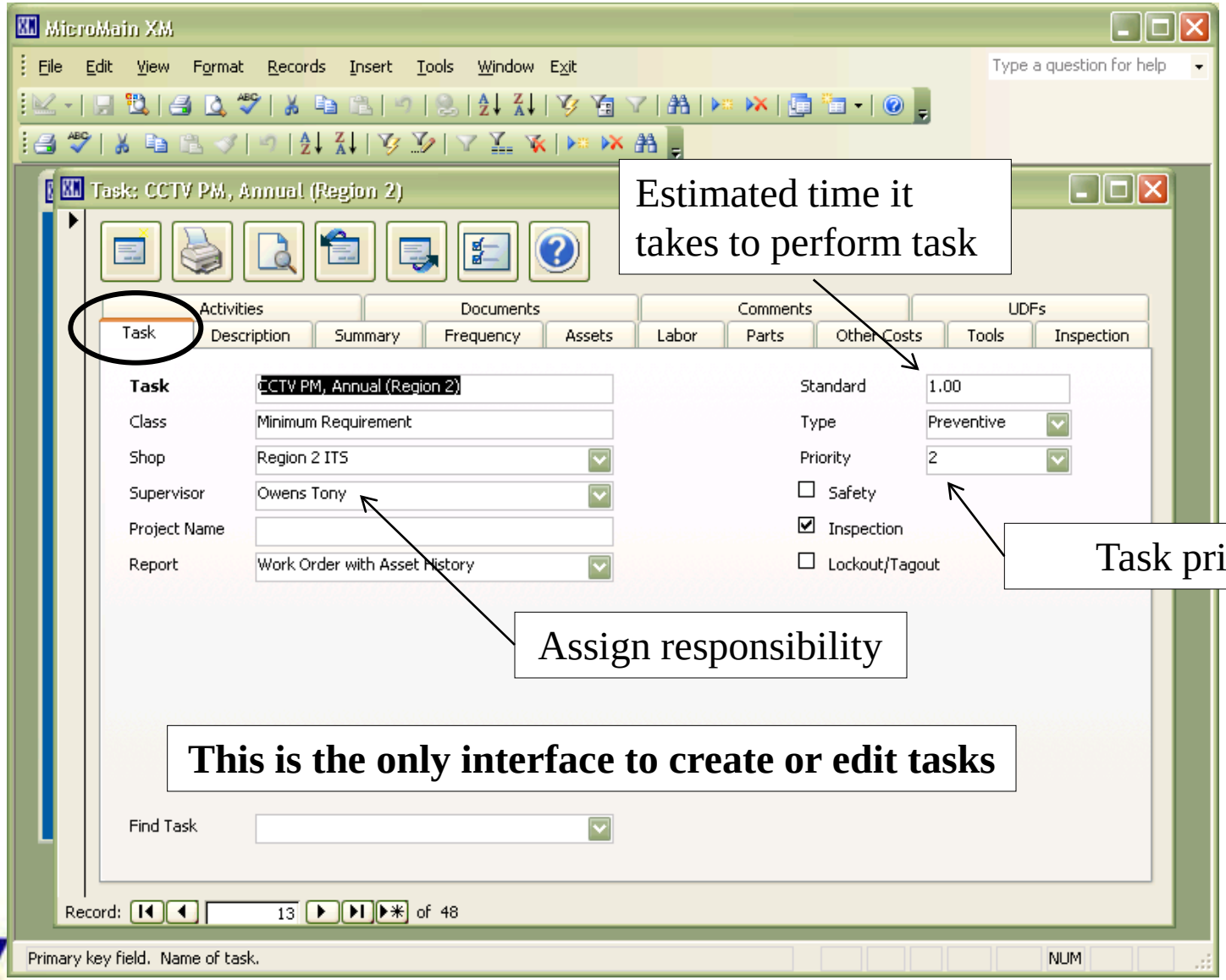
Tree shows parent-child relationship within the database, region being the top level

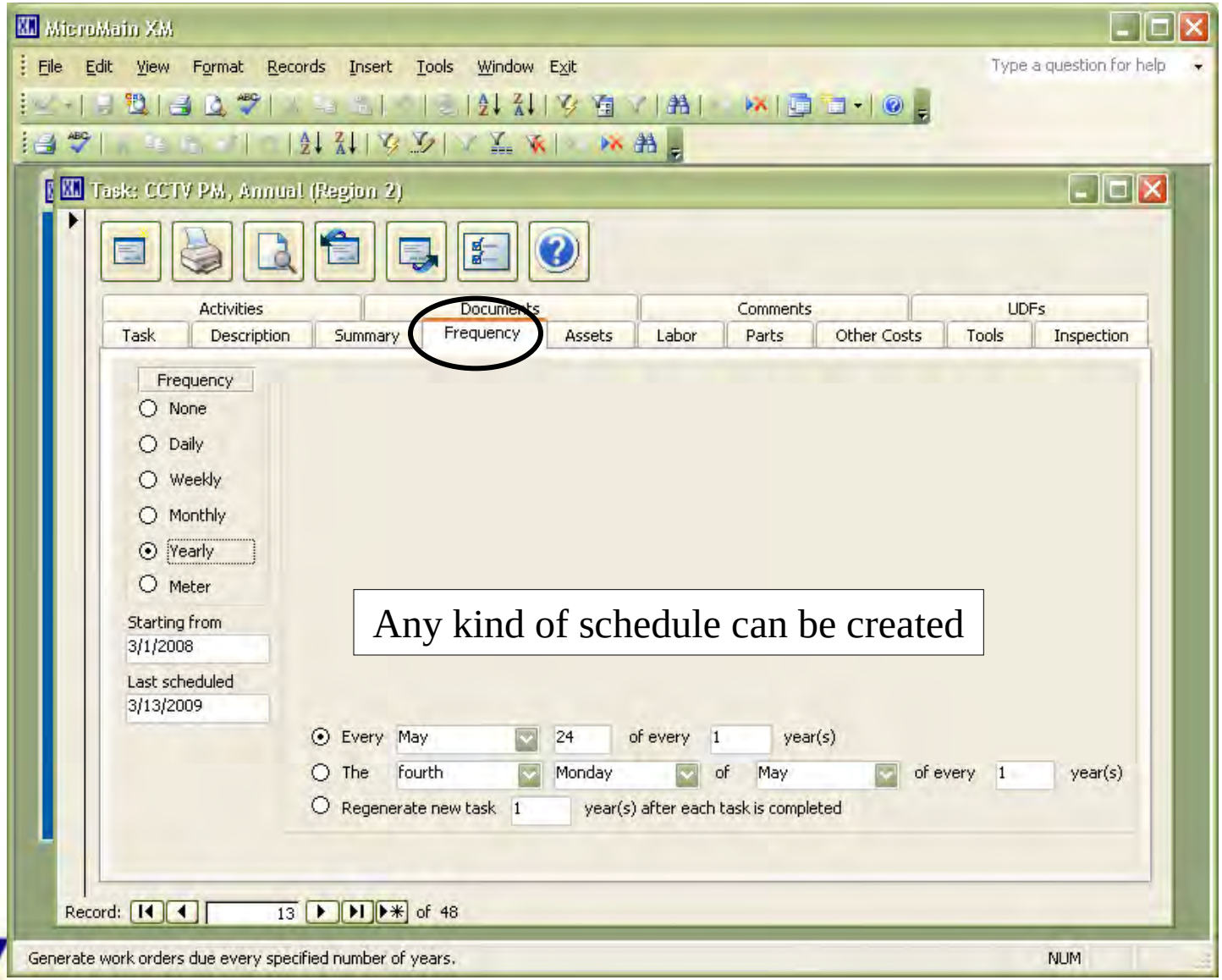

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Labor
Suppliers
Parts
Other Costs
Meters
Tools
Documents
Departments
Shops
Data Link
About
Help
Exit
Form View
NUM

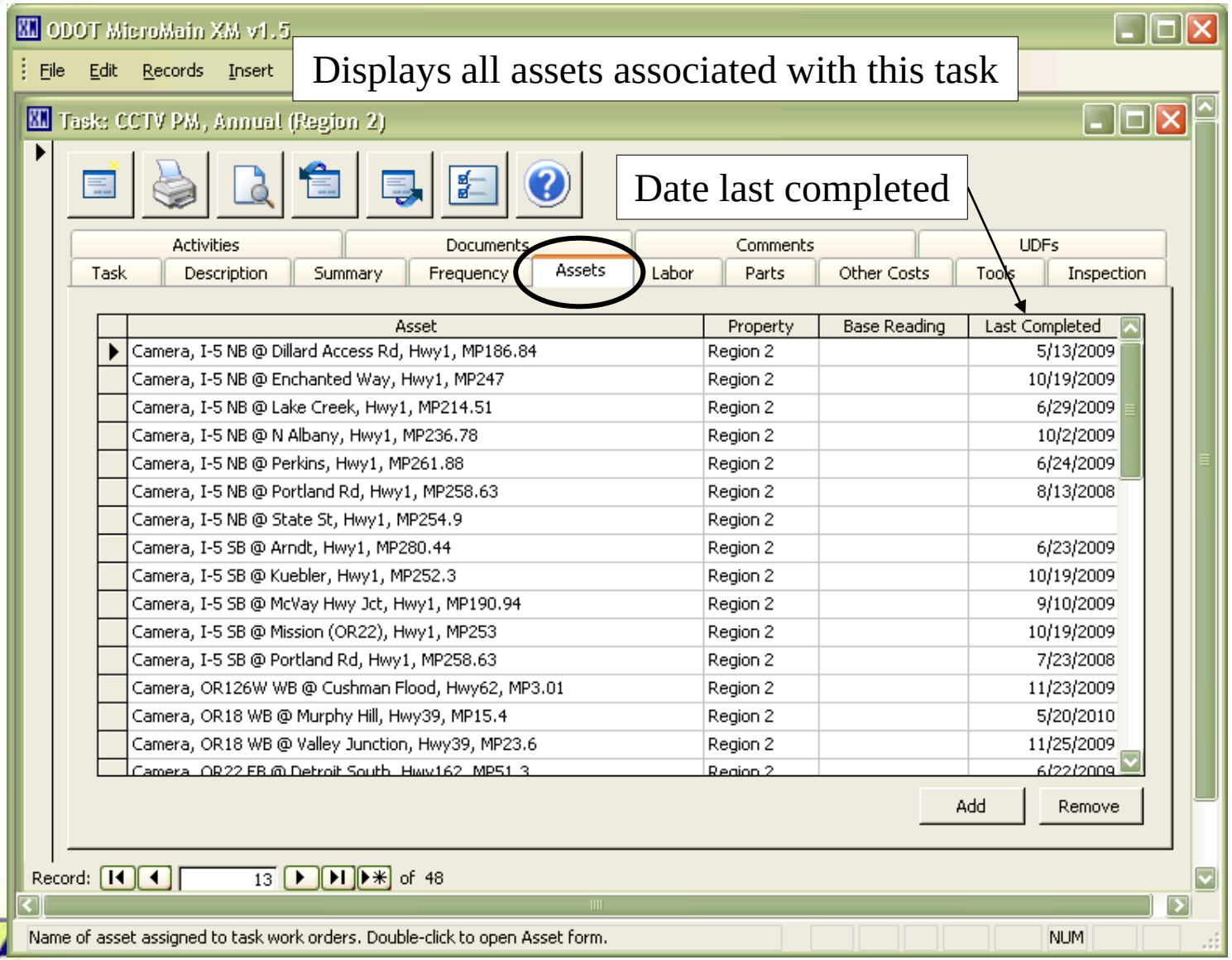

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Key feature
Work Orders
Quick Tickets
Schedule
Tasks
Task Schedule
Projects
Purchase Orders
Contracts
Data Link
About
Help
Exit
Form View
NUM

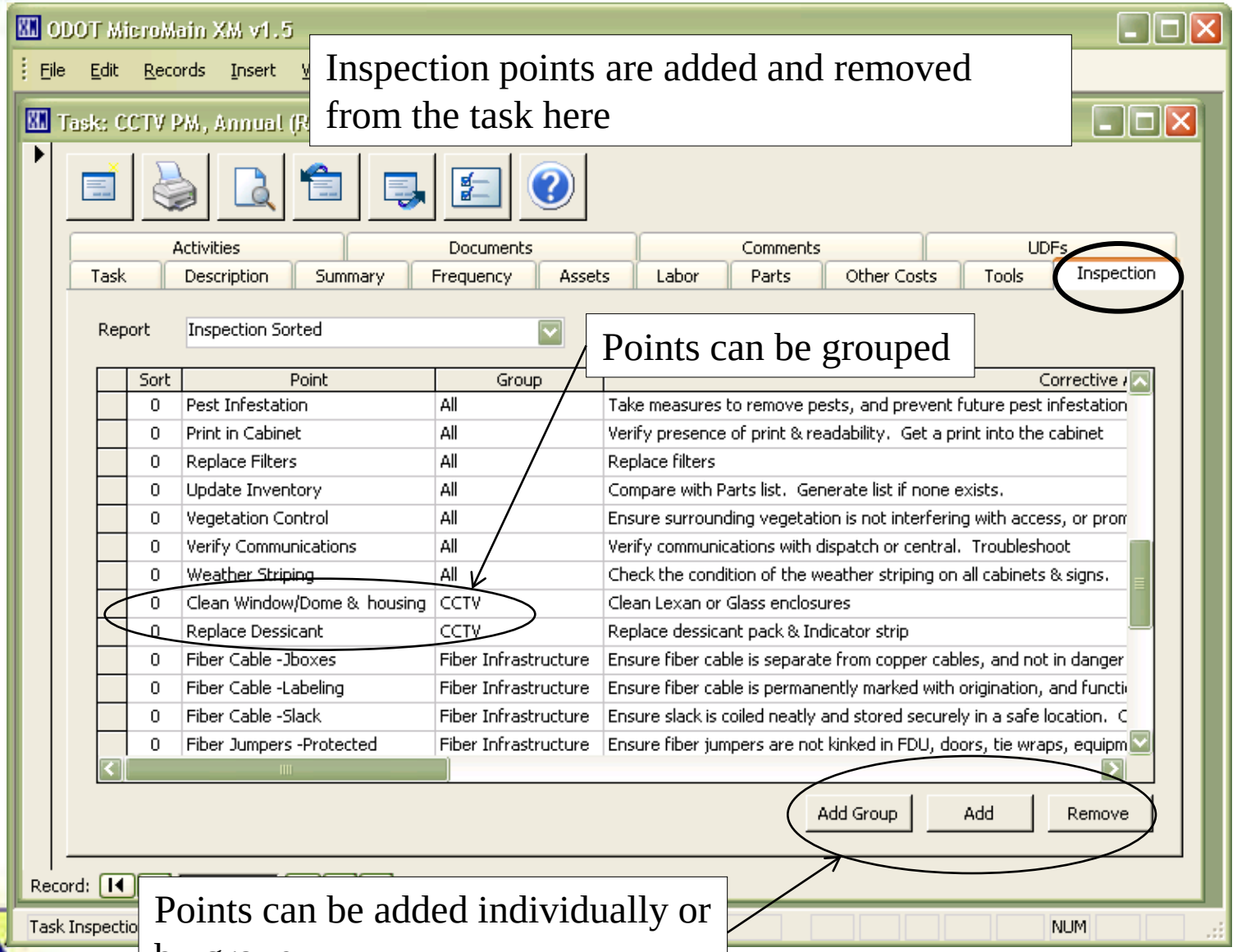

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
Repair, Work Order Number 1569
Work Order Description Summary Labor Parts Other Costs Tools Lost Time Inspection Documents Comments UDFs
Service Repair
Property Traffic Signals Region 1
Asset Lower Boones Ferry @ 72nd/Bridgeport,Hwy1,MP
Location Hwy 1, MP 290.57,
Department
Account M1344466
Requester Kelly Central Point D Phone 858-3103
Shop Region 3 ITS
Supervisor Brock Joel L
Project
Report Work Order with Asset History
Find Number 1569 7/16/2006
Find Asset
Status Open
Substatus B. Degraded Function
Type Remote
Priority 2
Due 7/18/2006
Standard 2.00 hours
Taken by (initials)
Vend Doc Num
Vend Doc Type
Printed
Inspection
Documents
xmMOBILE
Warranty
Lockout/Tagout
Safety
Shutdown
Close
Record: 1
Set work order options.
NUM
These features not available through XmWeb

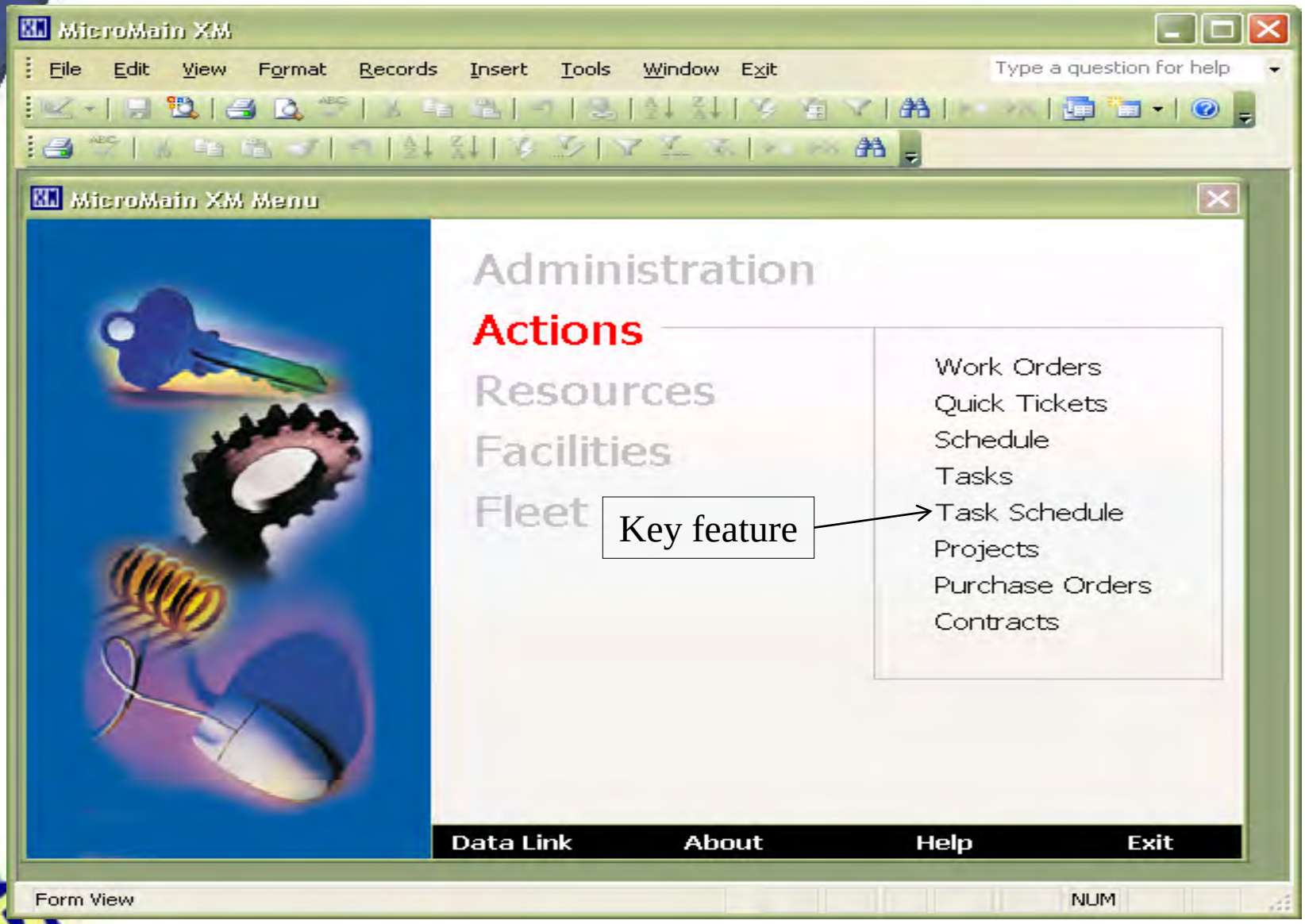

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Key feature
Work Orders
Quick Tickets
Schedule
Tasks
Task Schedule
Projects
Purchase Orders
Contracts
Data Link
About
Help
Exit
Form View
NUM

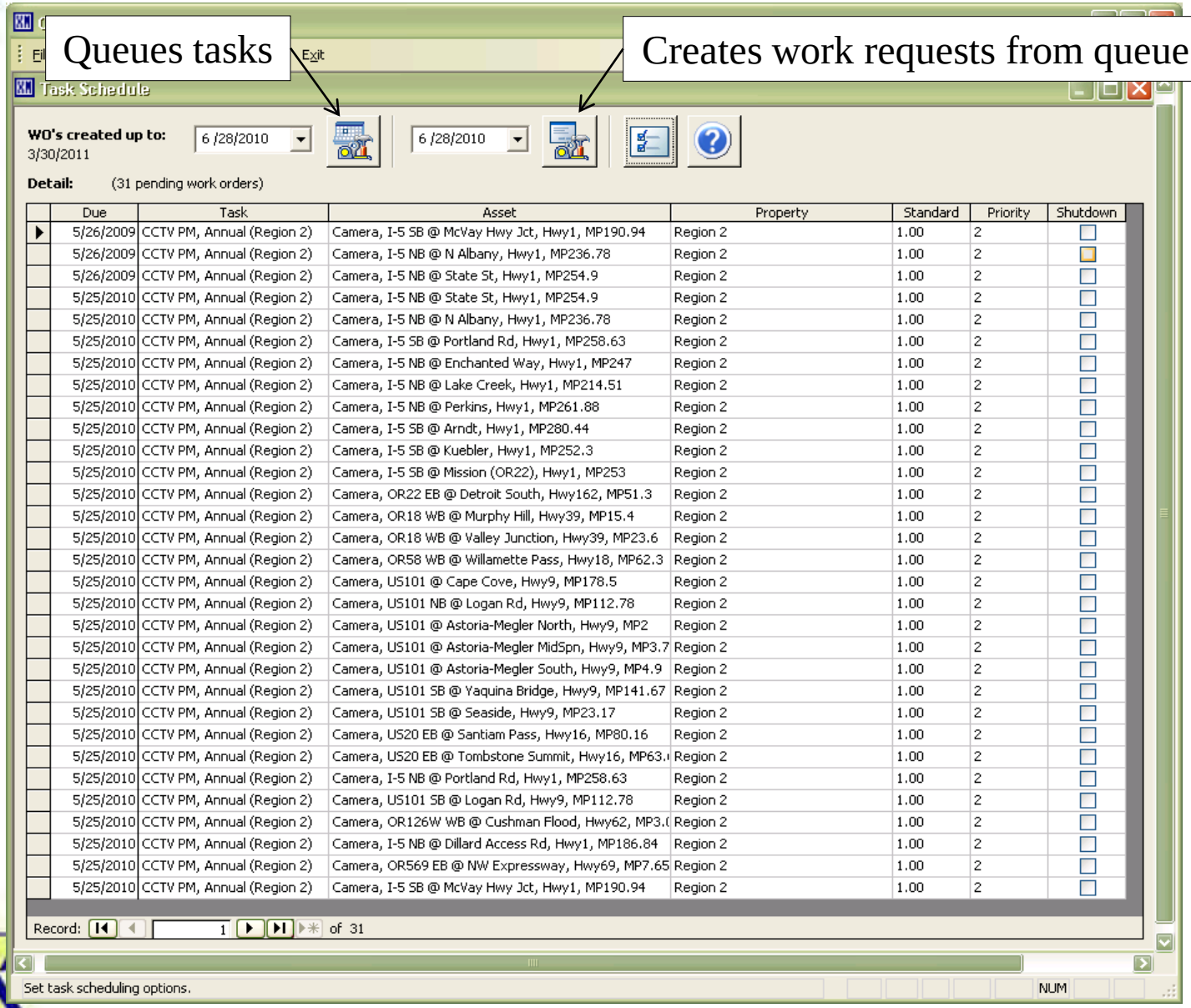

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
Task: CCTV PM, Annual (Region 2)
Activities
Documents
Comments
UDFs
Task
Description
Summary
Frequency
Assets
Labor
Parts
Other Costs
Tools
Inspection
Task
CCTV PM, Annual (Region 2)
Class
Minimum Requirement
Shop
Region 2 ITS
Supervisor
Owens Tony
Project Name
Report
Work Order with Asset History
Standard
1.00
Type
Preventive
Priority
2
Safety
Inspection
Lockout/Tagout
Find Task
Record: 13 of 48
Primary key field. Name of task.
NUM
Estimated time it takes to perform task
Task priority
Assign responsibility
This is the only interface to create or edit tasks

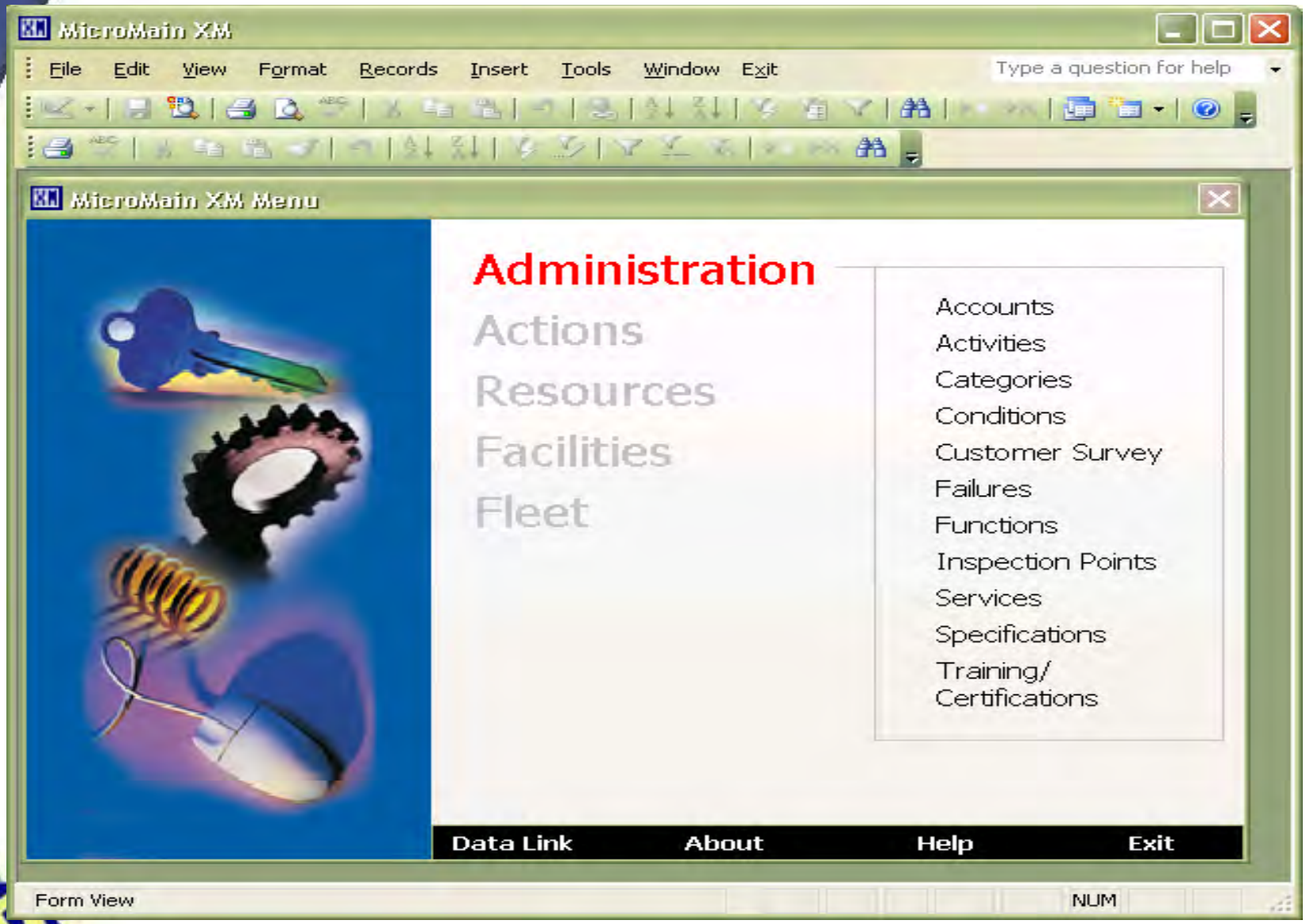

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
Task: CCTV PM, Annual (Region 2)
Activities
Documents
Comments
UDFs
Task
Description
Summary
Frequency
Assets
Labor
Parts
Other Costs
Tools
Inspection
Frequency
None
Daily
Weekly
Monthly
Yearly
Meter
Starting from
3/1/2008
Last scheduled
3/13/2009
Any kind of schedule can be created
Every May 24 of every 1 year(s)
The fourth Monday of May of every 1 year(s)
Regenerate new task 1 year(s) after each task is completed
Record: 13 of 48
Generate work orders due every specified number of years.
NUM


ODOT MicroMain XM v1.5
File Edit Records Insert
Displays all assets associated with this task
Task: CCTV PM, Annual (Region 2)
Date last completed
Activities
Documents
Comments
UDFs
Task
Description
Summary
Frequency
Assets
Labor
Parts
Other Costs
Tools
Inspection
Asset
Property
Base Reading
Last Completed
Camera, I-5 NB @ Dillard Access Rd, Hwy1, MP186.84 Region 2 5/13/2009
Camera, I-5 NB @ Enchanted Way, Hwy1, MP247 Region 2 10/19/2009
Camera, I-5 NB @ Lake Creek, Hwy1, MP214.51 Region 2 6/29/2009
Camera, I-5 NB @ N Albany, Hwy1, MP236.78 Region 2 10/2/2009
Camera, I-5 NB @ Perkins, Hwy1, MP261.88 Region 2 6/24/2009
Camera, I-5 NB @ Portland Rd, Hwy1, MP258.63 Region 2 8/13/2008
Camera, I-5 NB @ State St, Hwy1, MP254.9 Region 2
Camera, I-5 SB @ Arndt, Hwy1, MP280.44 Region 2 6/23/2009
Camera, I-5 SB @ Kuebler, Hwy1, MP252.3 Region 2 10/19/2009
Camera, I-5 SB @ McVay Hwy Jct, Hwy1, MP190.94 Region 2 9/10/2009
Camera, I-5 SB @ Mission (OR22), Hwy1, MP253 Region 2 10/19/2009
Camera, I-5 SB @ Portland Rd, Hwy1, MP258.63 Region 2 7/23/2008
Camera, OR126W WB @ Cushman Flood, Hwy62, MP3.01 Region 2 11/23/2009
Camera, OR18 WB @ Murphy Hill, Hwy39, MP15.4 Region 2 5/20/2010
Camera, OR18 WB @ Valley Junction, Hwy39, MP23.6 Region 2 11/25/2009
Add
Remove
Record: 13 of 48
Name of asset assigned to task work orders. Double-click to open Asset form.
NUM

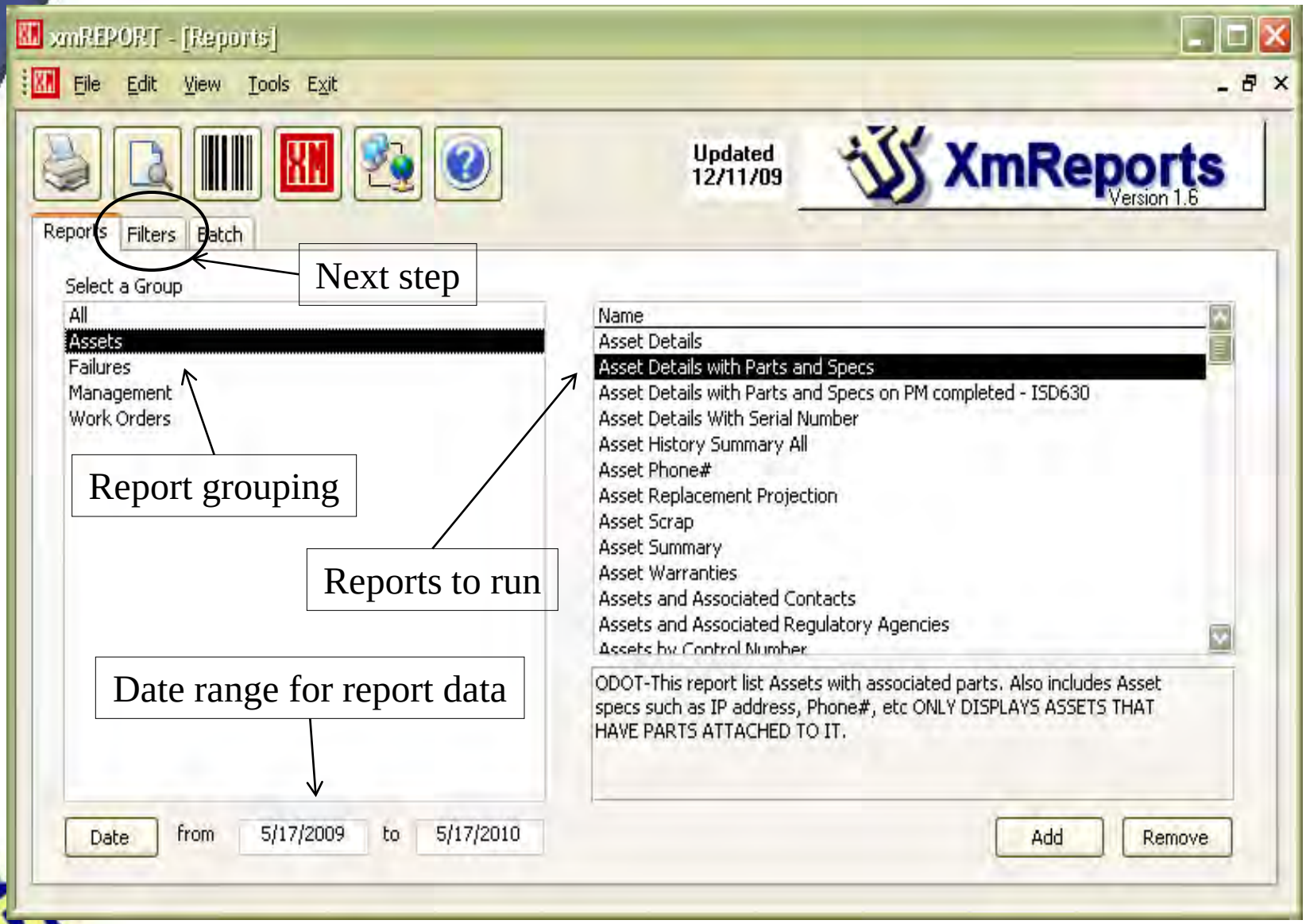

ODOT MicroMain XM v1.5
File Edit Records Insert
Task: CCTV PM, Annual (R
Inspection points are added and removed from the task here
Activities
Documents
Comments
UDFs
Task
Description
Summary
Frequency
Assets
Labor
Parts
Other Costs
Tools
Inspection
Report
Inspection Sorted
Points can be grouped
Sort
Point
Group
Corrective
0 Pest Infestation All Take measures to remove pests, and prevent future pest infestation
0 Print in Cabinet All Verify presence of print & readability. Get a print into the cabinet
0 Replace Filters All Replace filters
0 Update Inventory All Compare with Parts list. Generate list if none exists.
0 Vegetation Control All Ensure surrounding vegetation is not interfering with access, or prom
0 Verify Communications All Verify communications with dispatch or central. Troubleshoot
0 Weather Striping All Check the condition of the weather striping on all cabinets & signs.
0 Clean Window/Dome & housing CCTV Clean Lexan or Glass enclosures
0 Replace Dessicant CCTV Replace dessicant pack & Indicator strip
0 Fiber Cable -Jboxes Fiber Infrastructure Ensure fiber cable is separate from copper cables, and not in danger
0 Fiber Cable -Labeling Fiber Infrastructure Ensure fiber cable is permanently marked with origination, and functi
0 Fiber Cable -Slack Fiber Infrastructure Ensure slack is coiled neatly and stored securely in a safe location. C
0 Fiber Jumpers -Protected Fiber Infrastructure Ensure fiber jumpers are not kinked in FDU, doors, tie wraps, equipm
Add Group
Add
Remove
Record:
Task Inspectio
NUM
Points can be added individually or by group

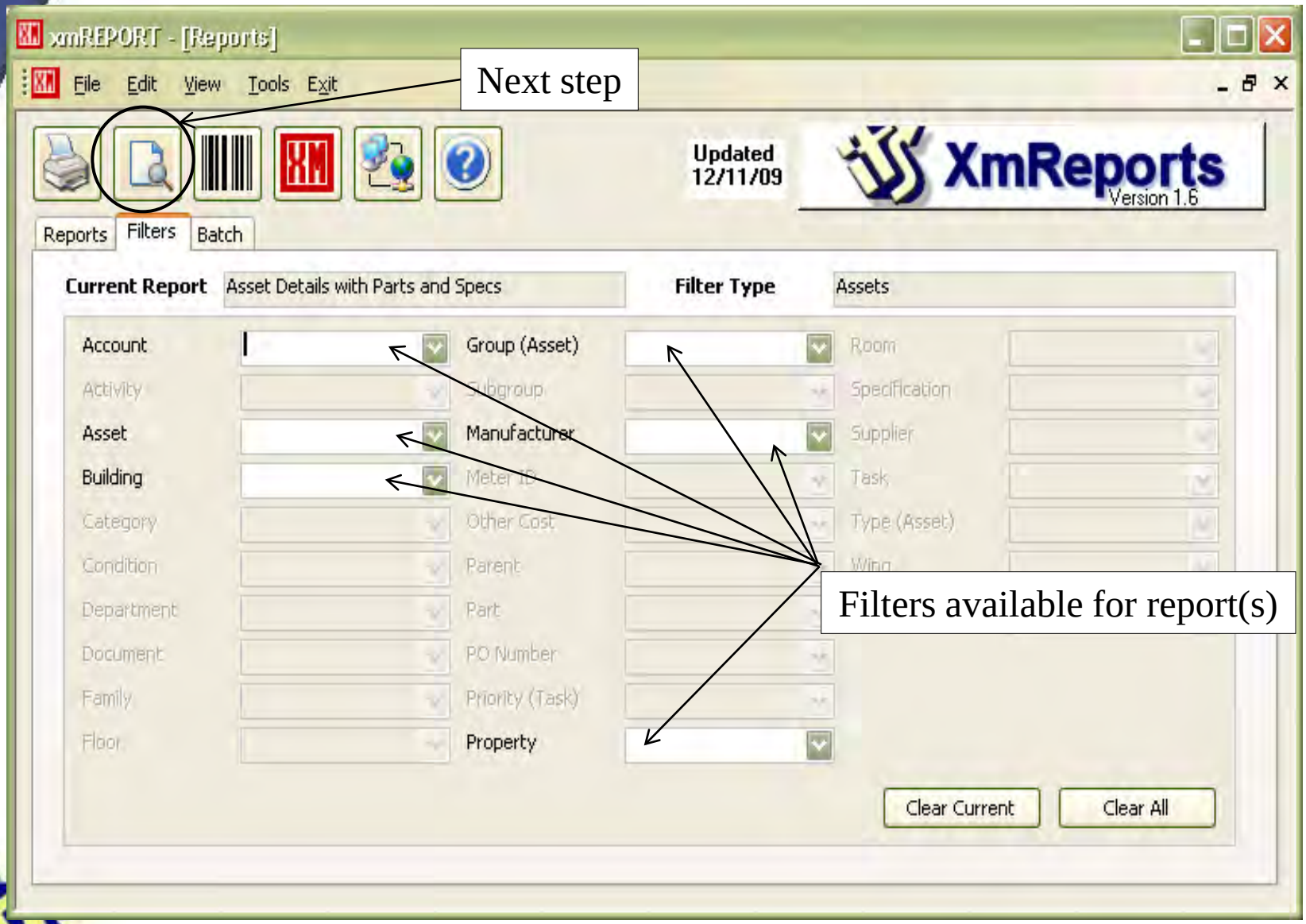

MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Key feature
Work Orders
Quick Tickets
Schedule
Tasks
Task Schedule
Projects
Purchase Orders
Contracts
Data Link
About
Help
Exit
Form View
NUM

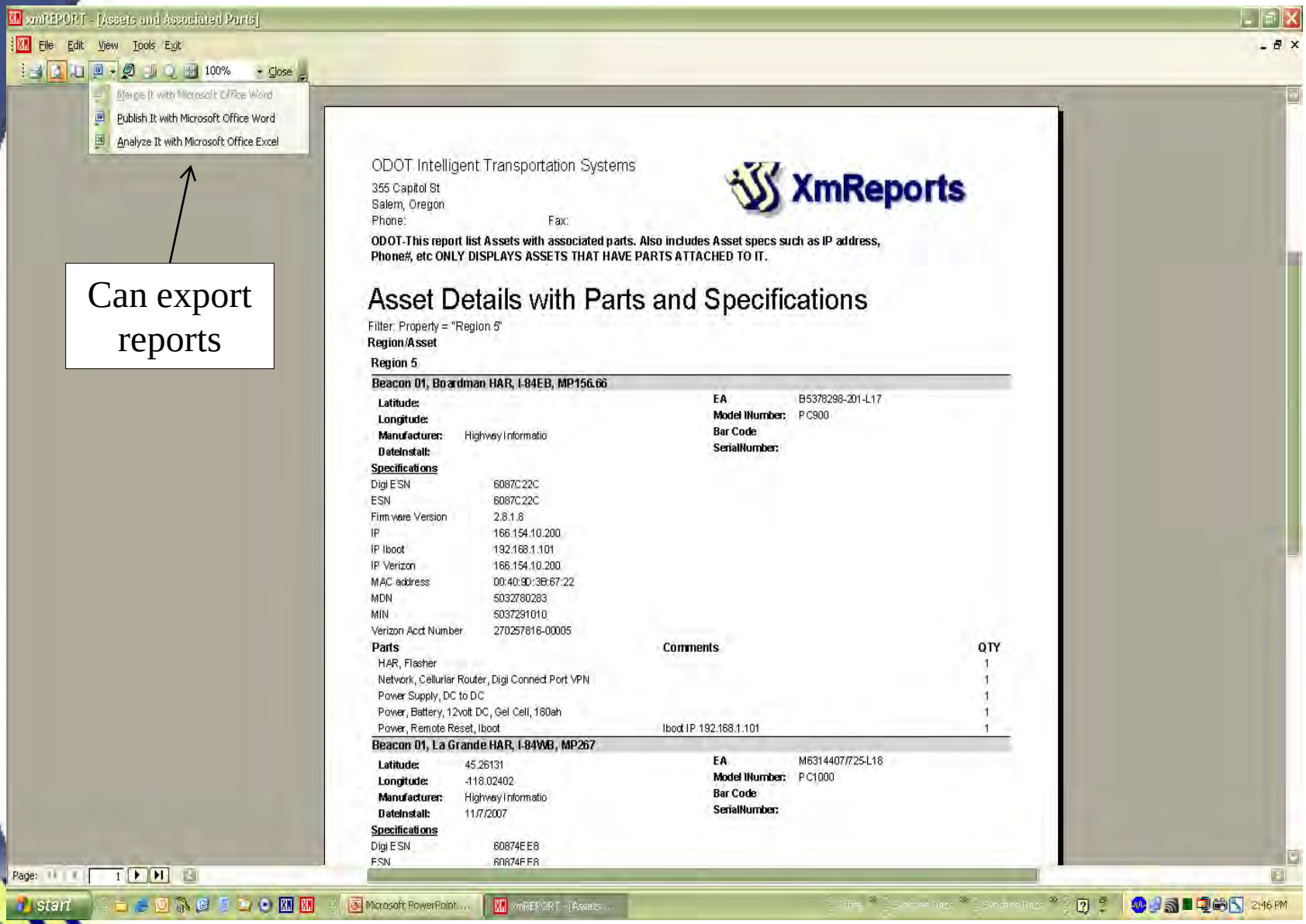

Queues tasks
Creates work requests from queue
Exit
Task Schedule
WO's created up to:
3/30/2011
6 /28/2010
6 /28/2010
Detail:
(31 pending work orders)
Due
Task
Asset
Property
Standard
Priority
Shutdown
5/26/2009 CCTV PM, Annual (Region 2) Camera, I-5 SB @ McVay Hwy Jct, Hwy1, MP190.94 Region 2 1.00 2
5/26/2009 CCTV PM, Annual (Region 2) Camera, I-5 NB @ N Albany, Hwy1, MP236.78 Region 2 1.00 2
5/26/2009 CCTV PM, Annual (Region 2) Camera, I-5 NB @ State St, Hwy1, MP254.9 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ State St, Hwy1, MP254.9 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ N Albany, Hwy1, MP236.78 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 SB @ Portland Rd, Hwy1, MP258.63 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ Enchanted Way, Hwy1, MP247 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ Lake Creek, Hwy1, MP214.51 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ Perkins, Hwy1, MP261.88 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 SB @ Arndt, Hwy1, MP280.44 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 SB @ Kuebler, Hwy1, MP252.3 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 SB @ Mission (OR22), Hwy1, MP253 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, OR22 EB @ Detroit South, Hwy162, MP51.3 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, OR18 WB @ Murphy Hill, Hwy39, MP15.4 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, OR18 WB @ Valley Junction, Hwy39, MP23.6 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, OR58 WB @ Willamette Pass, Hwy18, MP62.3 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 @ Cape Cove, Hwy9, MP178.5 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 NB @ Logan Rd, Hwy9, MP112.78 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 @ Astoria-Megler North, Hwy9, MP2 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 @ Astoria-Megler MidSpn, Hwy9, MP3.7 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 @ Astoria-Megler South, Hwy9, MP4.9 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 SB @ Yaquina Bridge, Hwy9, MP141.67 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 SB @ Seaside, Hwy9, MP23.17 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US20 EB @ Santiam Pass, Hwy16, MP80.16 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US20 EB @ Tombstone Summit, Hwy16, MP63.(Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ Portland Rd, Hwy1, MP258.63 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, US101 SB @ Logan Rd, Hwy9, MP112.78 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, OR126W WB @ Cushman Flood, Hwy62, MP3.(Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 NB @ Dillard Access Rd, Hwy1, MP186.84 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, OR569 EB @ NW Expressway, Hwy69, MP7.65 Region 2 1.00 2
5/25/2010 CCTV PM, Annual (Region 2) Camera, I-5 SB @ McVay Hwy Jct, Hwy1, MP190.94 Region 2 1.00 2
Record: 1 of 31
Set task scheduling options.
NUM


MicroMain XM
File Edit View Format Records Insert Tools Window Exit
Type a question for help
MicroMain XM Menu
Administration
Actions
Resources
Facilities
Fleet
Accounts
Activities
Categories
Conditions
Customer Survey
Failures
Functions
Inspection Points
Services
Specifications
Training/
Certifications
Data Link
About
Help
Exit
Form View
NUM

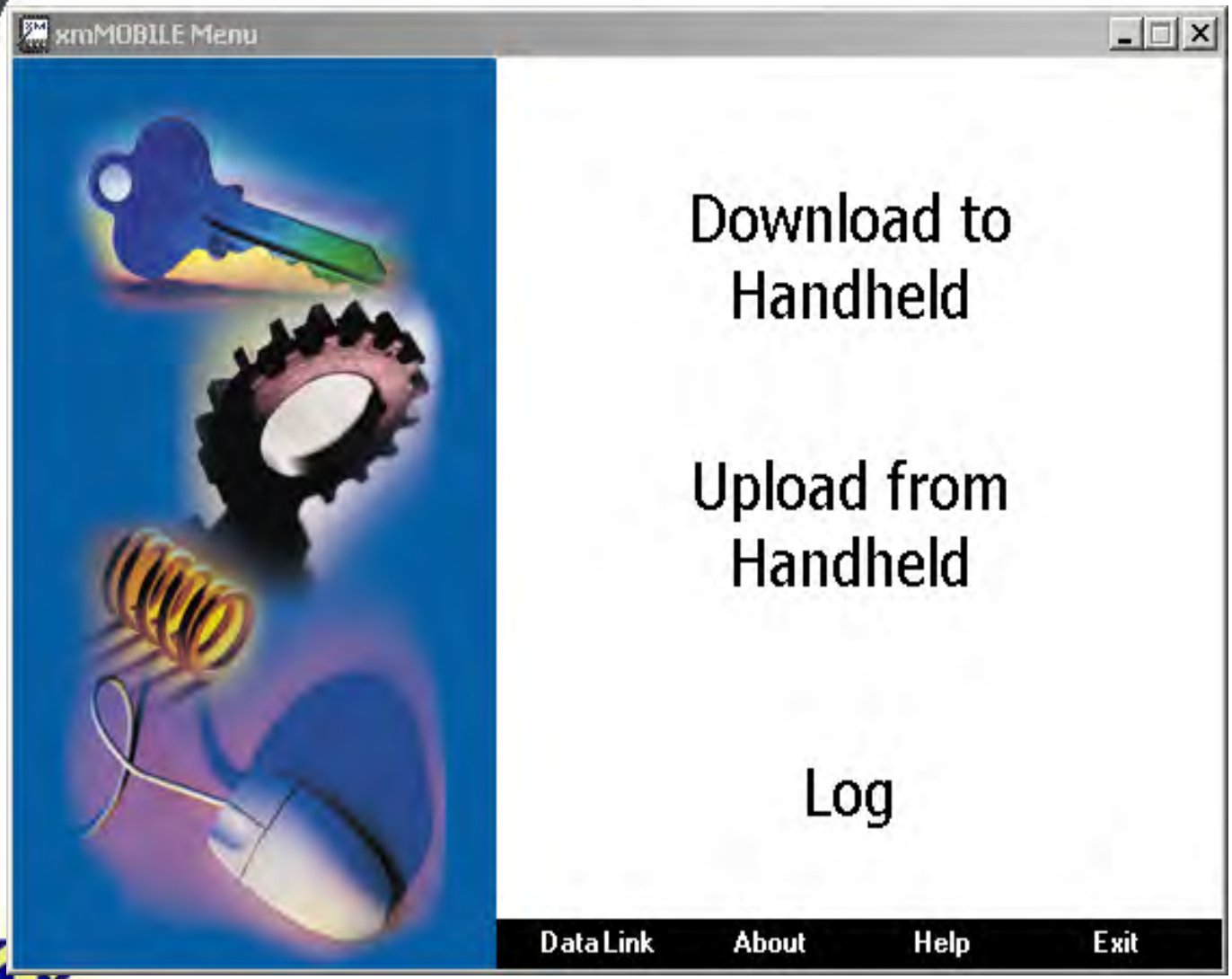
Xm Reports

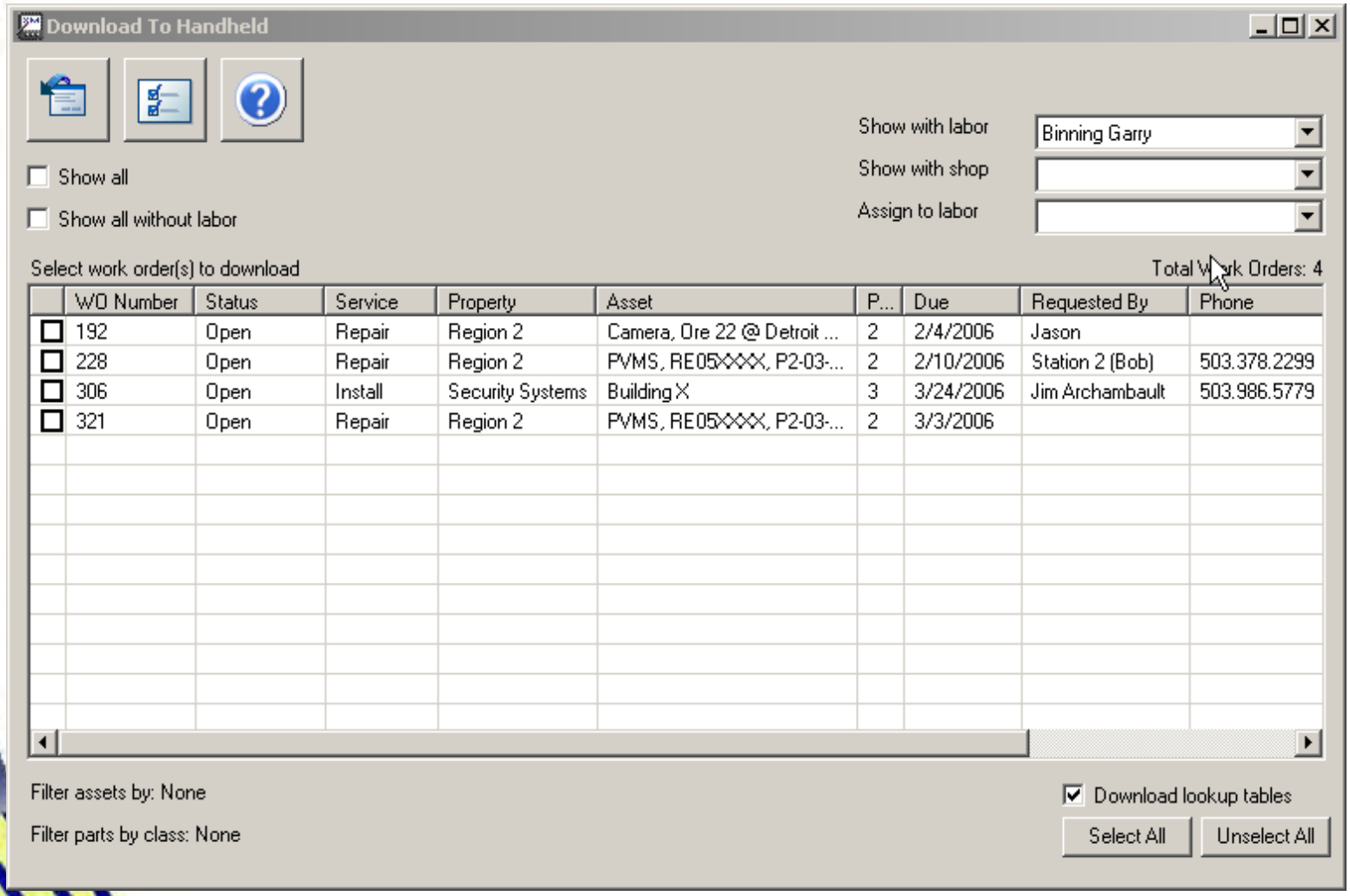

xmREPORT - [Reports]
File Edit View Tools Exit
Updated 12/11/09
XmReports Version 1.6
Reports Filters Batch
Next step
Select a Group
All
Assets
Failures
Management
Work Orders
Report grouping
Reports to run
Name
Asset Details
Asset Details with Parts and Specs
Asset Details with Parts and Specs on PM completed - ISD630
Asset Details With Serial Number
Asset History Summary All
Asset Phone#
Asset Replacement Projection
Asset Scrap
Asset Summary
Asset Warranties
Assets and Associated Contacts
Assets and Associated Regulatory Agencies
ODOT-This report list Assets with associated parts. Also includes Asset specs such as IP address, Phone#, etc ONLY DISPLAYS ASSETS THAT HAVE PARTS ATTACHED TO IT.
Date range for report data
Date
from
5/17/2009
to
5/17/2010
Add
Remove


xmREPORT - [Reports]
File Edit View Tools Exit
Next step
Updated 12/11/09
XmReports Version 1.6
Reports Filters Batch
Current Report
Asset Details with Parts and Specs
Filter Type
Assets
Account
Activity
Asset
Building
Category
Condition
Department
Document
Family
Floor
Group (Asset)
Subgroup
Manufacturer
Meter ID
Other Cost
Parent
Part
PO Number
Priority (Task)
Property
Room
Specification
Supplier
Task
Type (Asset)
Wing
Filters available for report(s)
Clear Current
Clear All


xmREPORT - [Assets and Associated Parts]
File Edit View Tools Exit
100% Close
Merge It with Microsoft Office Word
Publish It with Microsoft Office Word
Analyze It with Microsoft Office Excel
Can export reports
ODOT Intelligent Transportation Systems
355 Capitol St
Salem, Oregon
Phone: Fax:
XmReports
ODOT-This report list Assets with associated parts. Also includes Asset specs such as IP address, Phone#, etc ONLY DISPLAYS ASSETS THAT HAVE PARTS ATTACHED TO IT.
Asset Details with Parts and Specifications
Filter: Property = "Region 5"
Region/Asset
Region 5
Beacon 01, Boardman HAR, I-84EB, MP156.66
Latitude:
Longitude:
Manufacturer: Highway Informatio
DateInstall:
EA B5378298-201-L17
Model INumber: PC900
Bar Code
SerialNumber:
Specifications
Digi ESN 6087C22C
ESN 6087C22C
Firmware Version 2.8.1.8
IP 166.154.10.200
IP Iboot 192.168.1.101
IP Verizon 166.154.10.200
MAC address 00:40:9D:3B:67:22
MDN 5032780283
MIN 5037291010
Verizon Acct Number 270257816-00005
Parts Comments QTY
HAR, Flasher 1
Network, Cellular Router, Digi Connect Port VPN 1
Power Supply, DC to DC 1
Power, Battery, 12volt DC, Gel Cell, 180ah 1
Power, Remote Reset, Iboot Iboot IP 192.168.1.101 1
Beacon 01, La Grande HAR, I-84WB, MP267
Latitude: 45.26131
Longitude: -118.02402
Manufacturer: Highway Informatio
DateInstall: 11/7/2007
EA M6314407/725-L18
Model INumber: PC1000
Bar Code
SerialNumber:
Specifications
Digi ESN 60874EE8
Page: 1
start
Microsoft PowerPoint ...
xmREPORT - [Assets ...
2:46 PM

Xm Mobile


xmMOBILE Menu
Download to Handheld
Upload from Handheld
Log
DataLink
About
Help
Exit


Download To Handheld
Show with labor
Binning Garry
Show with shop
Assign to labor
Show all
Show all without labor
Select work order(s) to download
Total Work Orders: 4
WO Number
Status
Service
Property
Asset
P...
Due
Requested By
Phone
192
Open
Repair
Region 2
Camera, Ore 22 @ Detroit ...
2
2/4/2006
Jason
228
Open
Repair
Region 2
PVMS, RE05XXXX, P2-03-...
2
2/10/2006
Station 2 (Bob)
503.378.2299
306
Open
Install
Security Systems
Building X
3
3/24/2006
Jim Archambault
503.986.5779
321
Open
Repair
Region 2
PVMS, RE05XXXX, P2-03-...
2
3/3/2006
Filter assets by: None
Filter parts by class: None
Download lookup tables
Select All
Unselect All

Windows CE


xmMOBII
9:17
Service
Emergency Repair
Property
Region 4
Asset
Camera, US 20 WB @ Sister
Status
Open
Location
0
Due
3/16/2006
OK
Cancel
Work Order
Details
Description
Comments
Work Order

Xm Web

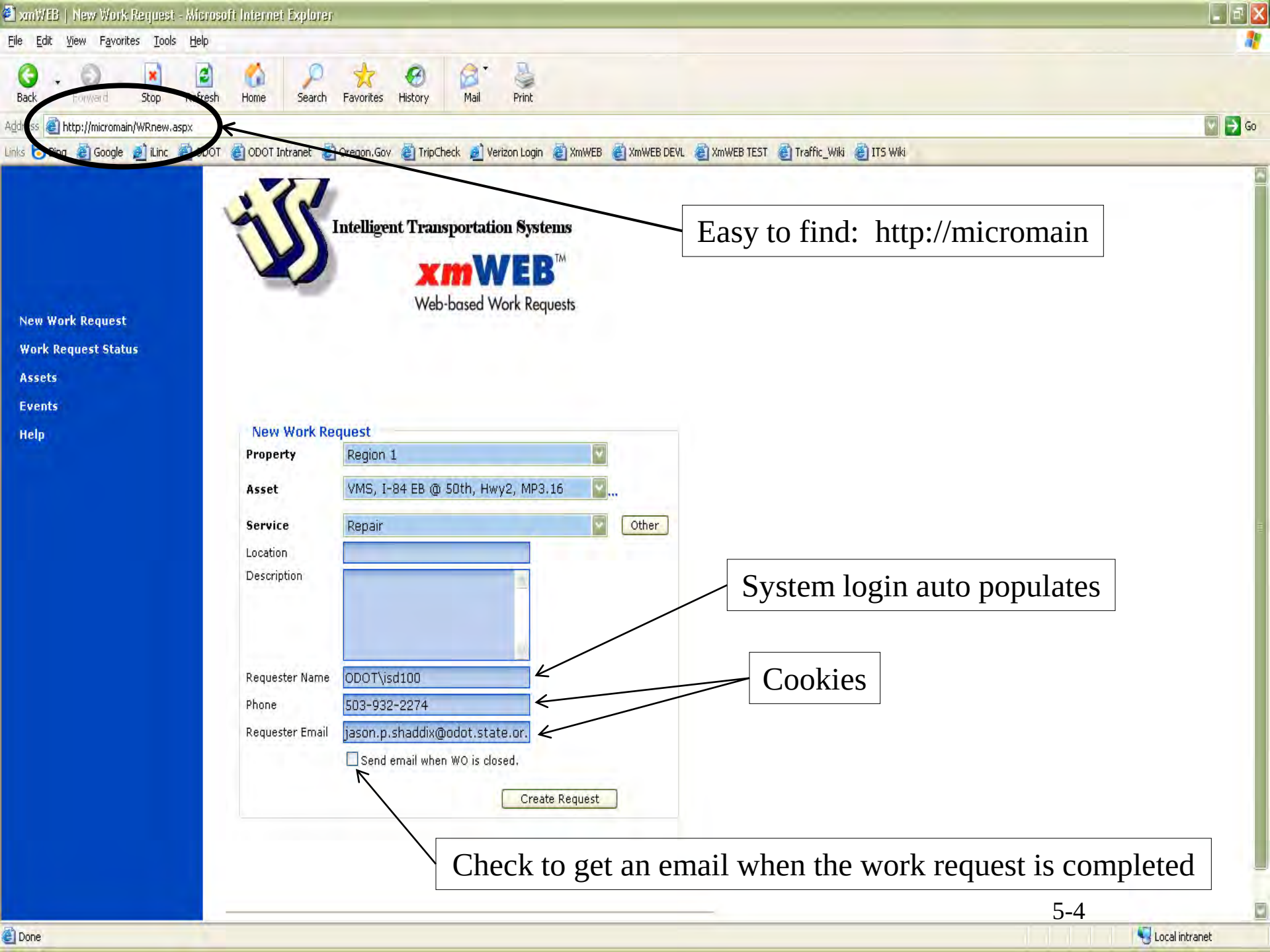
ODOT has heavily modified the XmWeb interface. It's now the primary interface used by technicians and dispatch operators for:

- Work Requests and Assignments
- Repair and Maintenance Documentation
- Asset Inventory Management
- After Hours Communications and Notification

XmWeb Work Requests

- Create Work Requests
- Edit Work Requests
- Search Work Requests for Status
- Labor Entry

Live Demo XmWeb
Work Requests

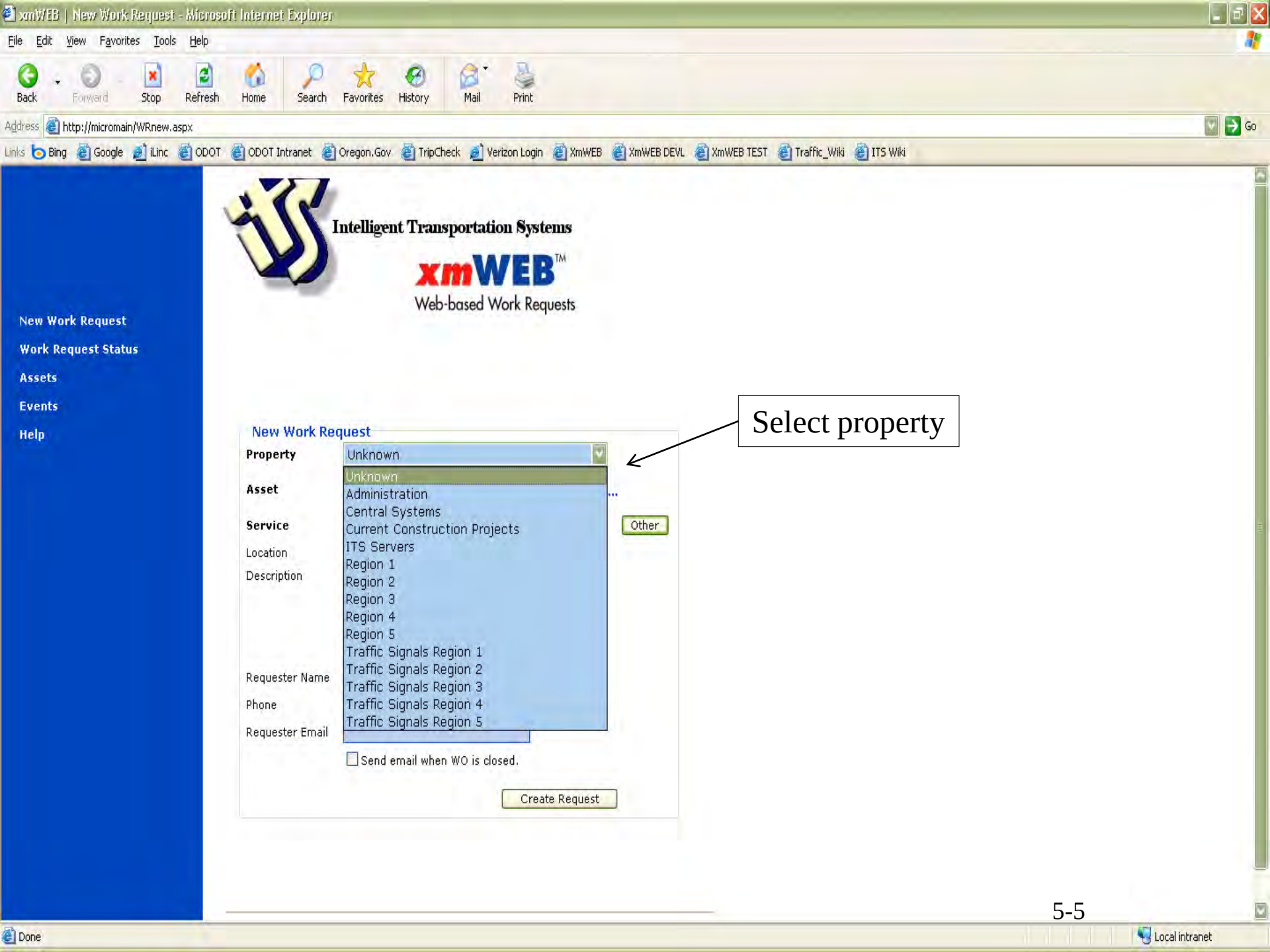


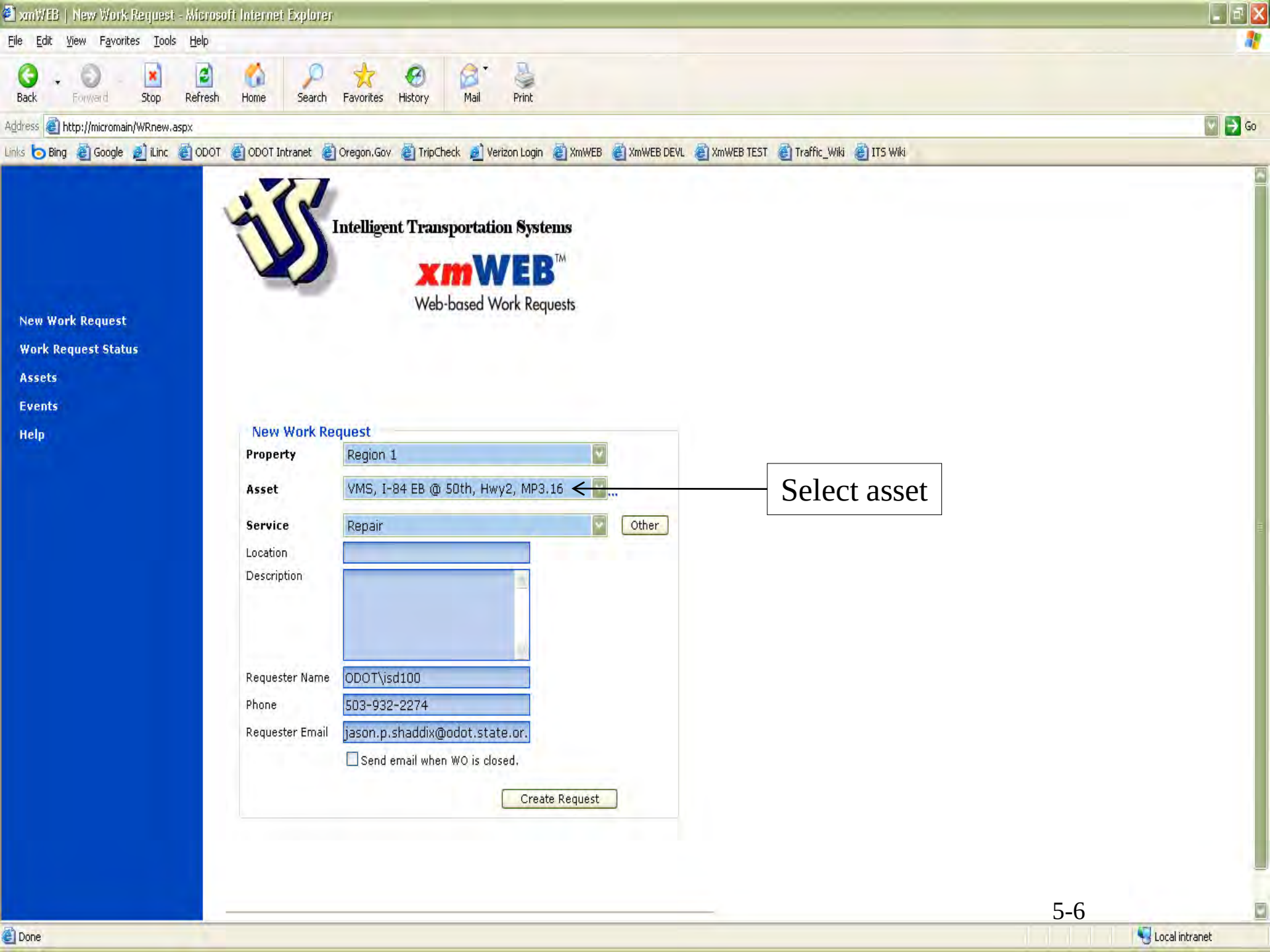
Easy to find: http://micromain

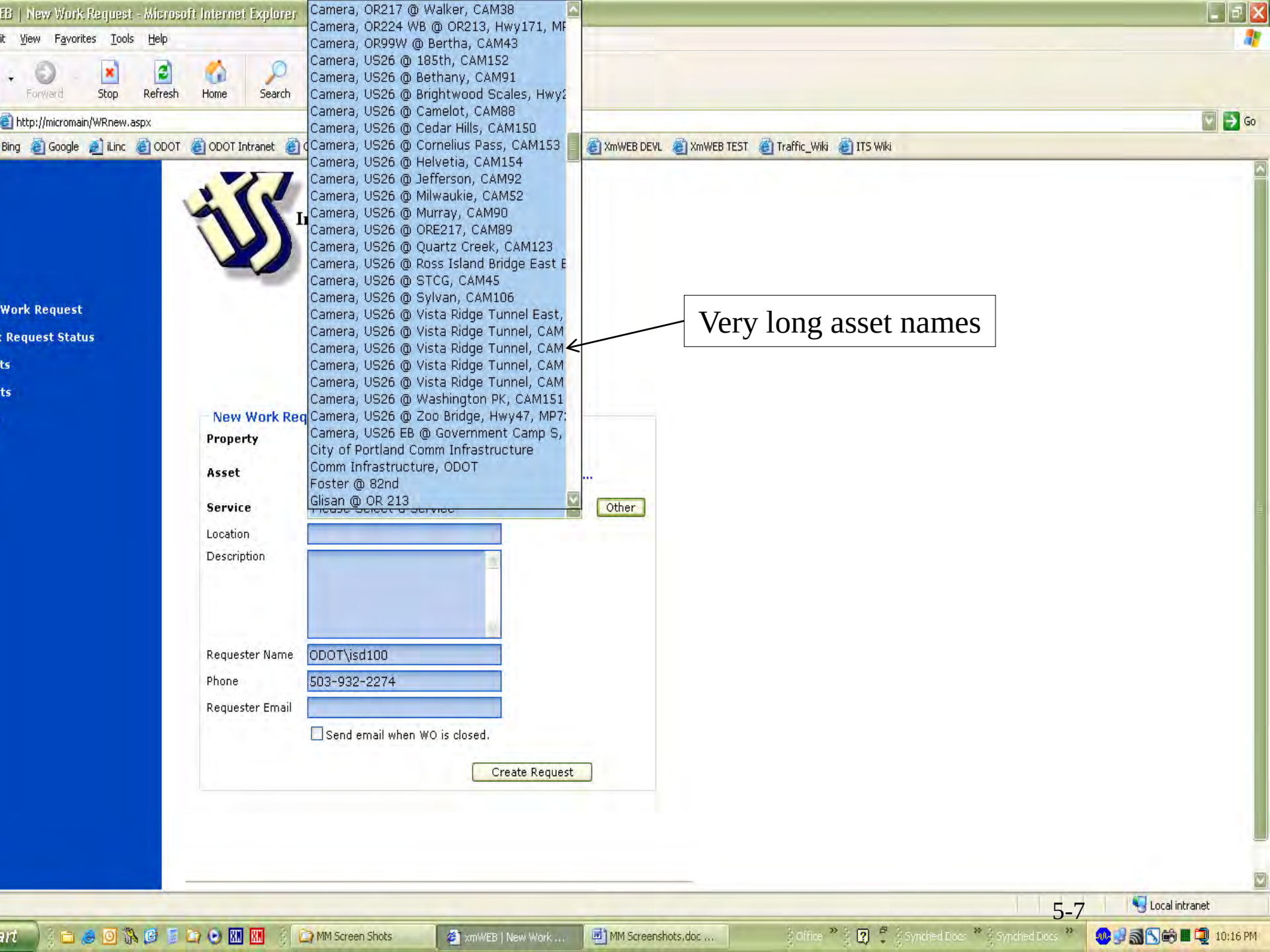
System login auto populates

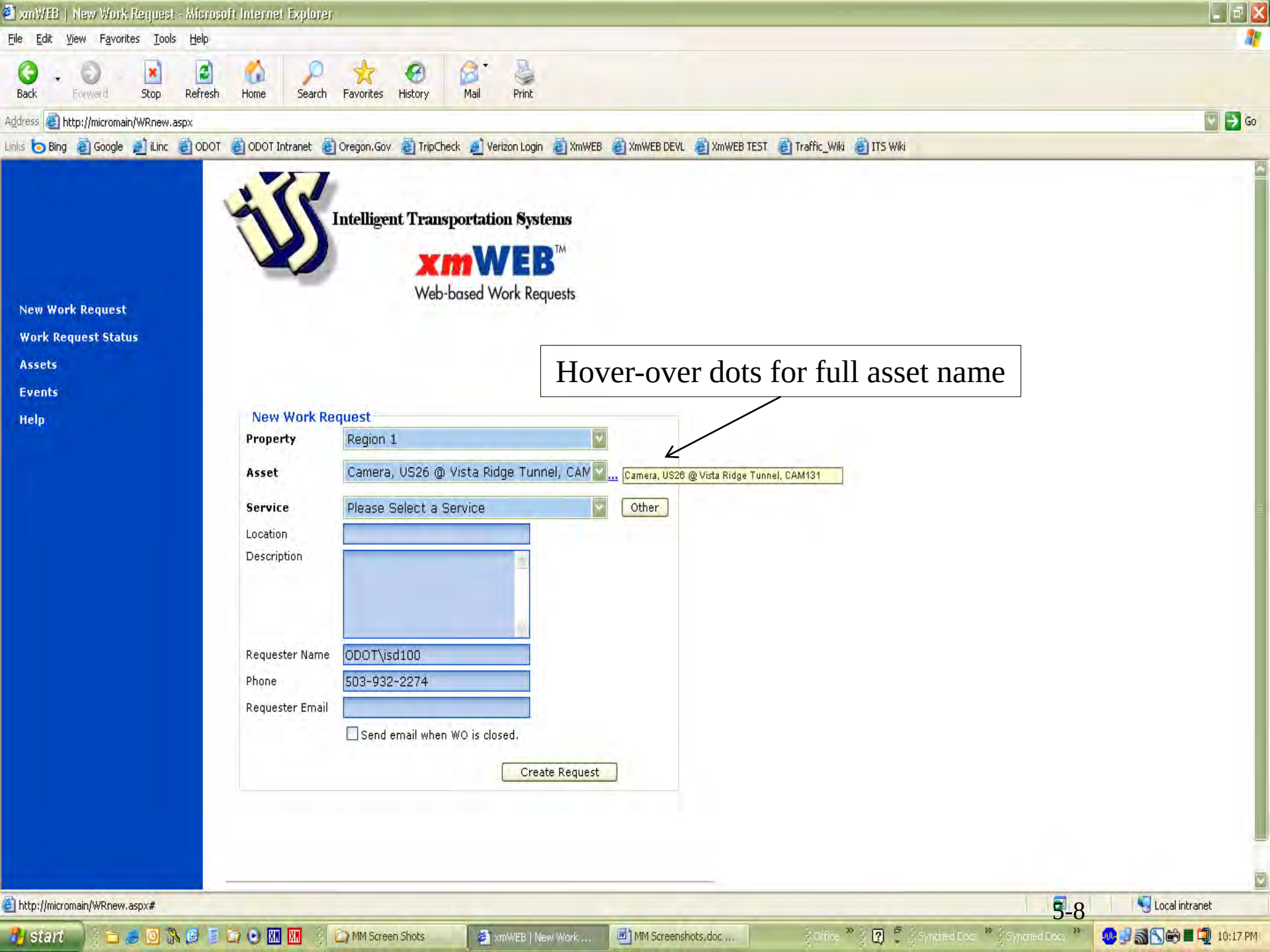
Cookies

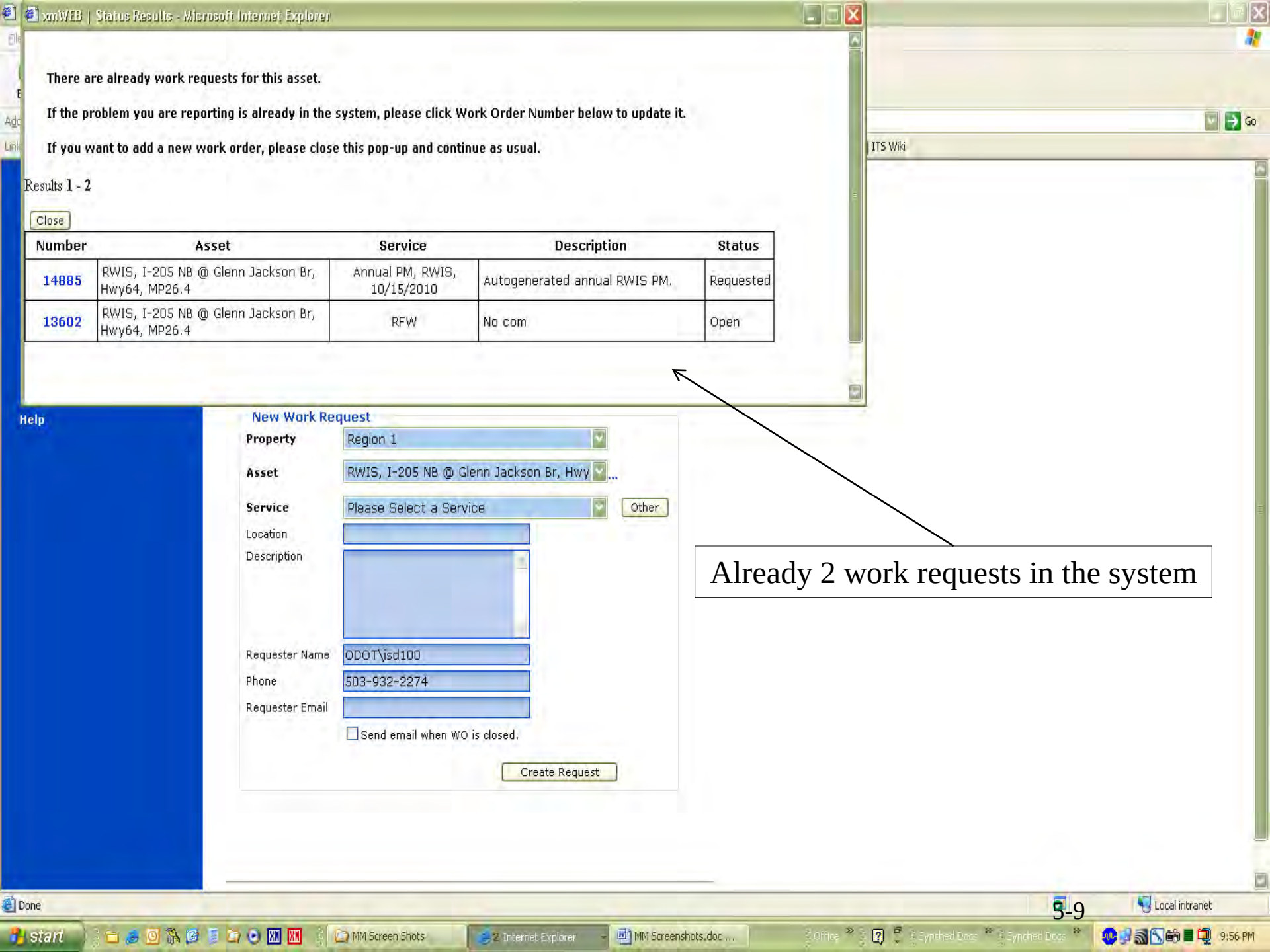
Check to get an email when the work request is completed

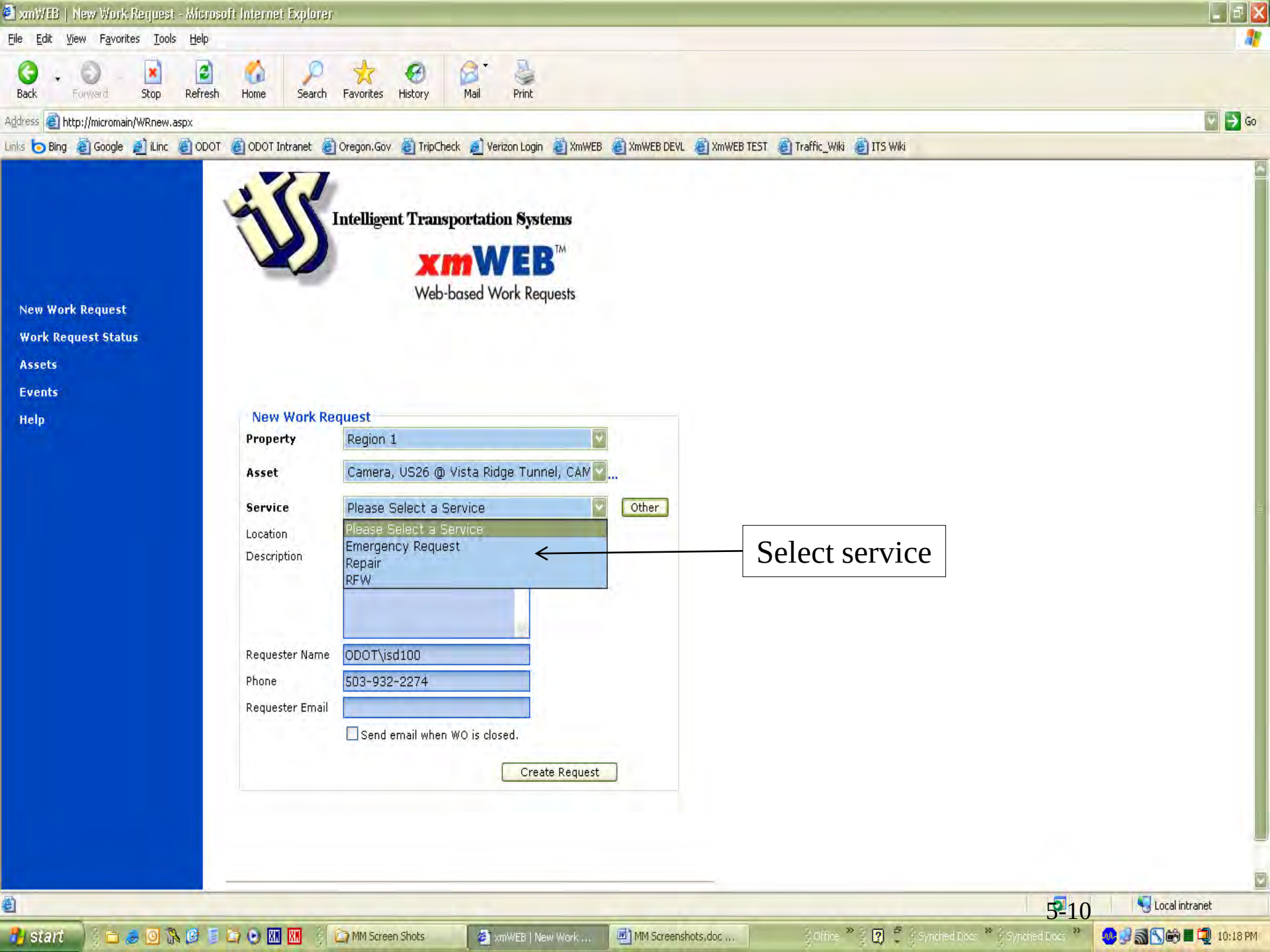

xmWEB | New Work Request - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRnew.aspx
Go
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
New Work Request
Property
Unknown
Asset
Service
Location
Description
Requester Name
Phone
Requester Email
Unknown
Administration
Central Systems
Current Construction Projects
ITS Servers
Region 1
Region 2
Region 3
Region 4
Region 5
Traffic Signals Region 1
Traffic Signals Region 2
Traffic Signals Region 3
Traffic Signals Region 4
Traffic Signals Region 5
Other
Send email when WO is closed.
Create Request
Select property
Done
Local intranet

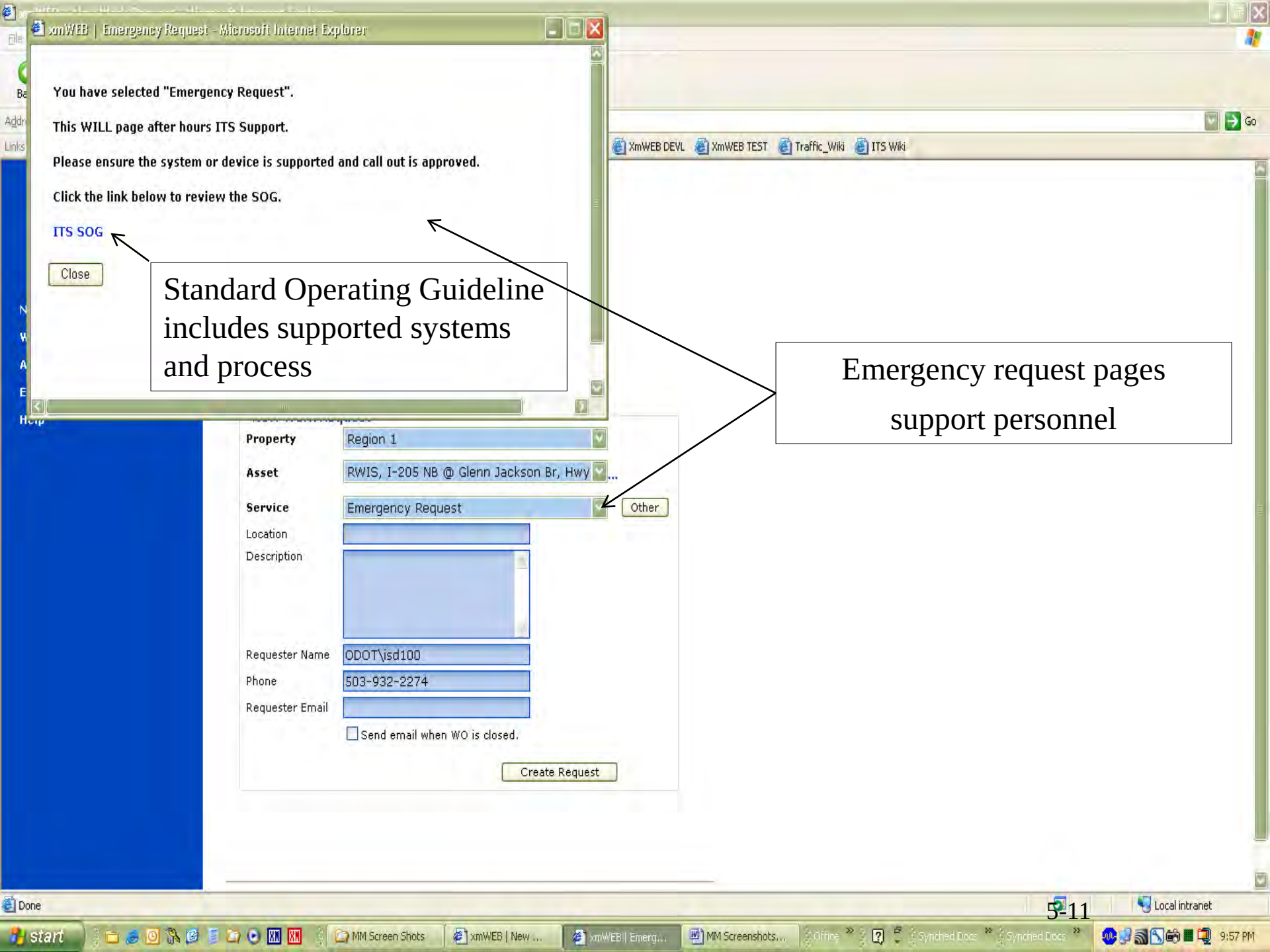

xmWEB | New Work Request - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRnew.aspx
Go
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
New Work Request
Property
Region 1
Asset
VMS, I-84 EB @ 50th, Hwy2, MP3.16
Service
Repair
Other
Location
Description
Requester Name
ODOT\isd100
Phone
503-932-2274
Requester Email
jason.p.shaddix@odot.state.or.
Send email when WO is closed.
Create Request
Select asset
5-6
Done
Local intranet

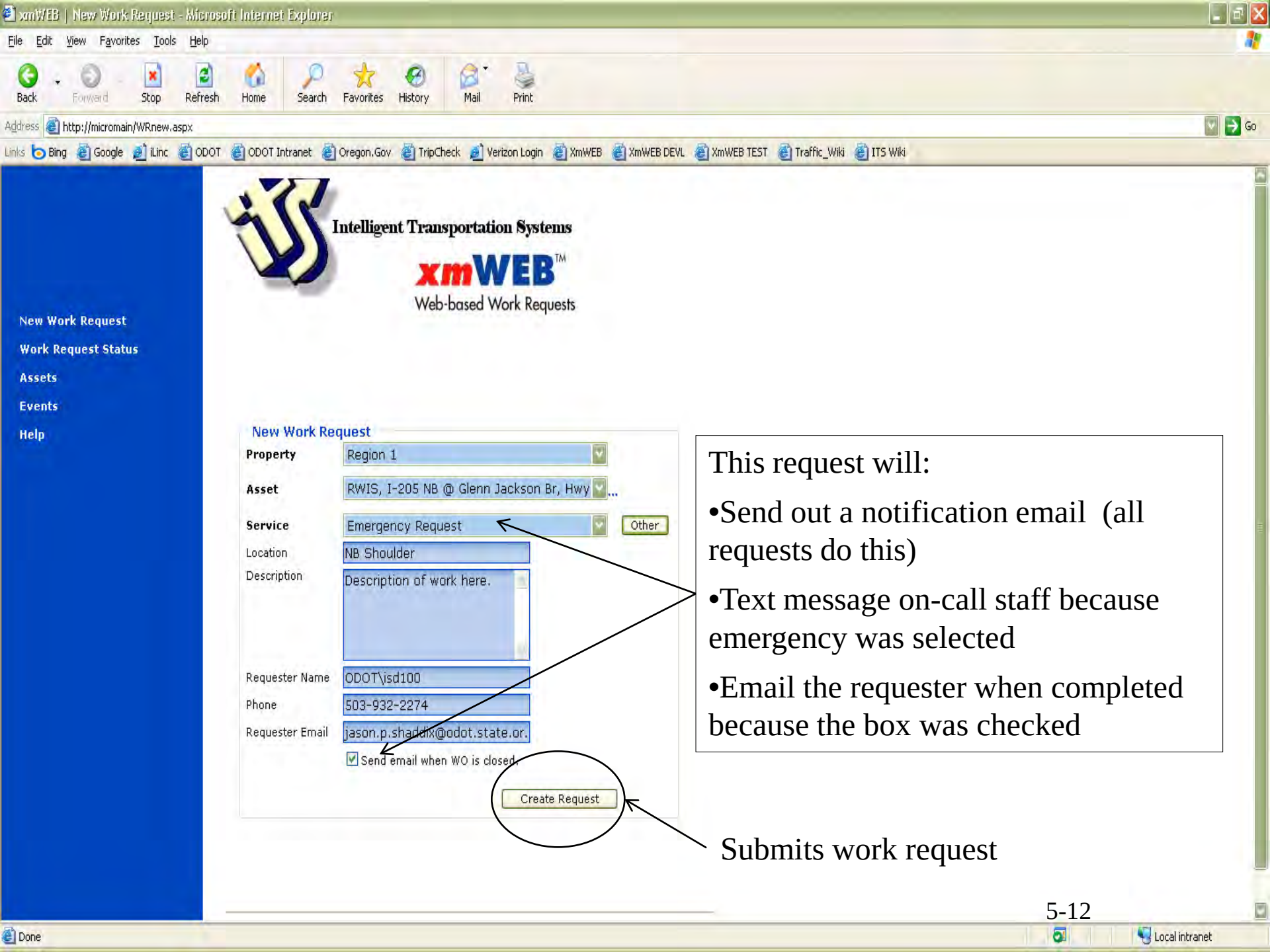

Camera, OR217 @ Walker, CAM38
Camera, OR224 WB @ OR213, Hwy171, MP
Camera, OR99W @ Bertha, CAM43
Camera, US26 @ 185th, CAM152
Camera, US26 @ Bethany, CAM91
Camera, US26 @ Brightwood Scales, Hwy2
Camera, US26 @ Camelot, CAM88
Camera, US26 @ Cedar Hills, CAM150
Camera, US26 @ Cornelius Pass, CAM153
Camera, US26 @ Helvetia, CAM154
Camera, US26 @ Jefferson, CAM92
Camera, US26 @ Milwaukie, CAM52
Camera, US26 @ Murray, CAM90
Camera, US26 @ ORE217, CAM89
Camera, US26 @ Quartz Creek, CAM123
Camera, US26 @ Ross Island Bridge East E
Camera, US26 @ STCG, CAM45
Camera, US26 @ Sylvan, CAM106
Camera, US26 @ Vista Ridge Tunnel East,
Camera, US26 @ Vista Ridge Tunnel, CAM
Camera, US26 @ Vista Ridge Tunnel, CAM
Camera, US26 @ Vista Ridge Tunnel, CAM
Camera, US26 @ Vista Ridge Tunnel, CAM
Camera, US26 @ Washington PK, CAM151
Camera, US26 @ Zoo Bridge, Hwy47, MP7
Camera, US26 EB @ Government Camp S,
City of Portland Comm Infrastructure
Comm Infrastructure, ODOT
Foster @ 82nd
Glisan @ OR 213
Very long asset names
New Work Req
Property
Asset
Service
Other
Location
Description
Requester Name
ODOT\isd100
Phone
503-932-2274
Requester Email
Send email when WO is closed.
Create Request
5-7

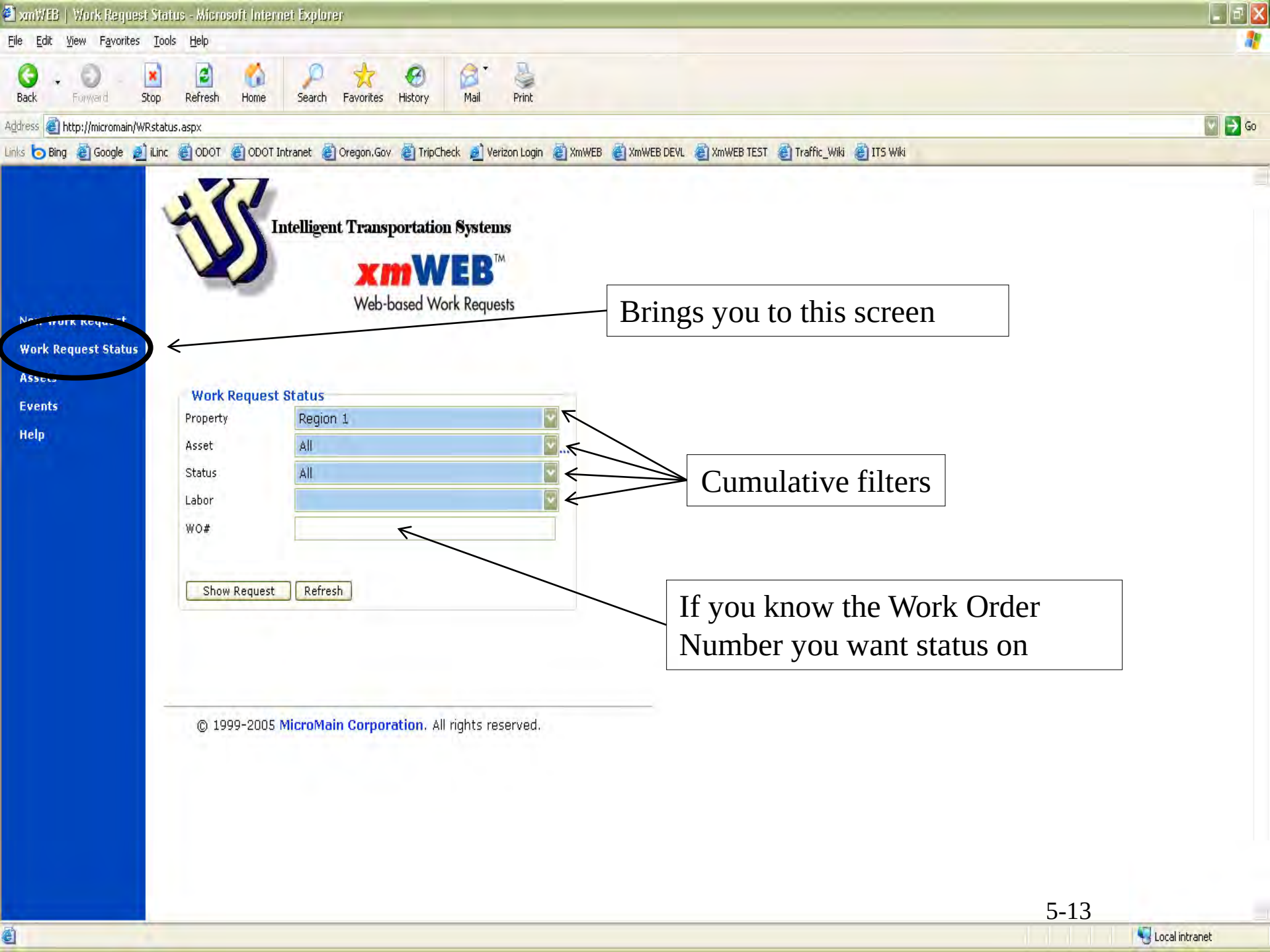

xmWEB | New Work Request - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRnew.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Hover-over dots for full asset name
New Work Request
Property
Region 1
Asset
Camera, US26 @ Vista Ridge Tunnel, CAM
Camera, US26 @ Vista Ridge Tunnel, CAM131
Service
Please Select a Service
Other
Location
Description
Requester Name
ODOT\jsd100
Phone
503-932-2274
Requester Email
Send email when WO is closed.
Create Request
http://micromain/WRnew.aspx#
Local intranet
start
MM Screen Shots
xmWEB | New Work ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:17 PM


xmWEB | Status Results - Microsoft Internet Explorer
There are already work requests for this asset.
If the problem you are reporting is already in the system, please click Work Order Number below to update it.
If you want to add a new work order, please close this pop-up and continue as usual.
Results 1 - 2
Close
Number
Asset
Service
Description
Status
14885
RWIS, I-205 NB @ Glenn Jackson Br, Hwy64, MP26.4
Annual PM, RWIS, 10/15/2010
Autogenerated annual RWIS PM.
Requested
13602
RWIS, I-205 NB @ Glenn Jackson Br, Hwy64, MP26.4
RFW
No com
Open
Help
New Work Request
Property
Region 1
Asset
RWIS, I-205 NB @ Glenn Jackson Br, Hwy
Service
Please Select a Service
Other
Location
Description
Requester Name
ODOT\isd100
Phone
503-932-2274
Requester Email
Send email when WO is closed.
Create Request
Already 2 work requests in the system
Done
Local intranet
start
MM Screen Shots
Internet Explorer
MM Screenshots.doc ...
9:56 PM


xmWEB | New Work Request - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRnew.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
New Work Request
Property
Region 1
Asset
Camera, US26 @ Vista Ridge Tunnel, CAM
Service
Please Select a Service
Other
Location
Description
Please Select a Service
Emergency Request
Repair
RFW
Requester Name
ODOT\isd100
Phone
503-932-2274
Requester Email
Send email when WO is closed.
Create Request
Select service
5-10
Local intranet
start
MM Screen Shots
xmWEB | New Work ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:18 PM


xmWEB | Emergency Request - Microsoft Internet Explorer
You have selected "Emergency Request".
This WILL page after hours ITS Support.
Please ensure the system or device is supported and call out is approved.
Click the link below to review the SOG.
ITS SOG
Close
Standard Operating Guideline includes supported systems and process
Emergency request pages support personnel
Property
Region 1
Asset
RWIS, I-205 NB @ Glenn Jackson Br, Hwy
Service
Emergency Request
Other
Location
Description
Requester Name
ODOT\isd100
Phone
503-932-2274
Requester Email
Send email when WO is closed.
Create Request
XmWEB DEVL
XmWEB TEST
Traffic_Wiki
ITS Wiki
Done
Local intranet
start
MM Screen Shots
xmWEB | New ...
xmWEB | Emerg...
MM Screenshots...
Office
Synched Docs
Synched Docs
9:57 PM


xmWEB | New Work Request - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRnew.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
New Work Request
Property Region 1
Asset RWIS, I-205 NB @ Glenn Jackson Br, Hwy
Service Emergency Request
Other
Location NB Shoulder
Description Description of work here.
Requester Name ODOT\isd100
Phone 503-932-2274
Requester Email jason.p.shaddix@odot.state.or.
Send email when WO is closed.
Create Request
This request will:
•Send out a notification email (all requests do this)
•Text message on-call staff because emergency was selected
•Email the requester when completed because the box was checked
Submits work request
5-12
Done
Local intranet


xmWEB | Work Request Status - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRstatus.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
Work Request Status
Events
Help
Brings you to this screen
Work Request Status
Property Region 1
Asset All
Status All
Labor
WO#
Show Request
Refresh
Cumulative filters
If you know the Work Order Number you want status on
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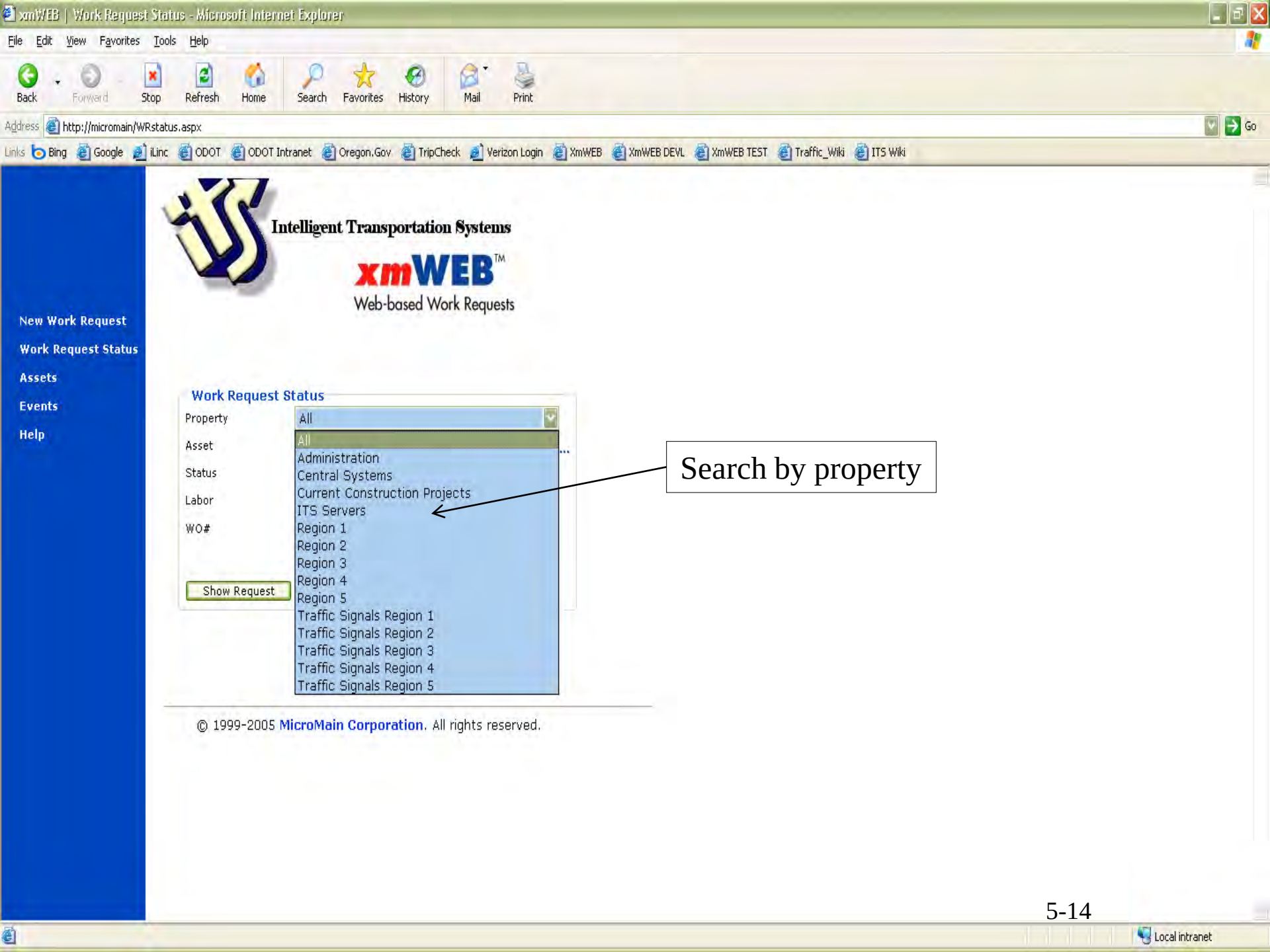
Local intranet


xmWEB | Work Request Status - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRstatus.aspx
Go
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Work Request Status
Property
Asset
Status
Labor
WO#
Show Request
All
All
Administration
Central Systems
Current Construction Projects
ITS Servers
Region 1
Region 2
Region 3
Region 4
Region 5
Traffic Signals Region 1
Traffic Signals Region 2
Traffic Signals Region 3
Traffic Signals Region 4
Traffic Signals Region 5
Search by property
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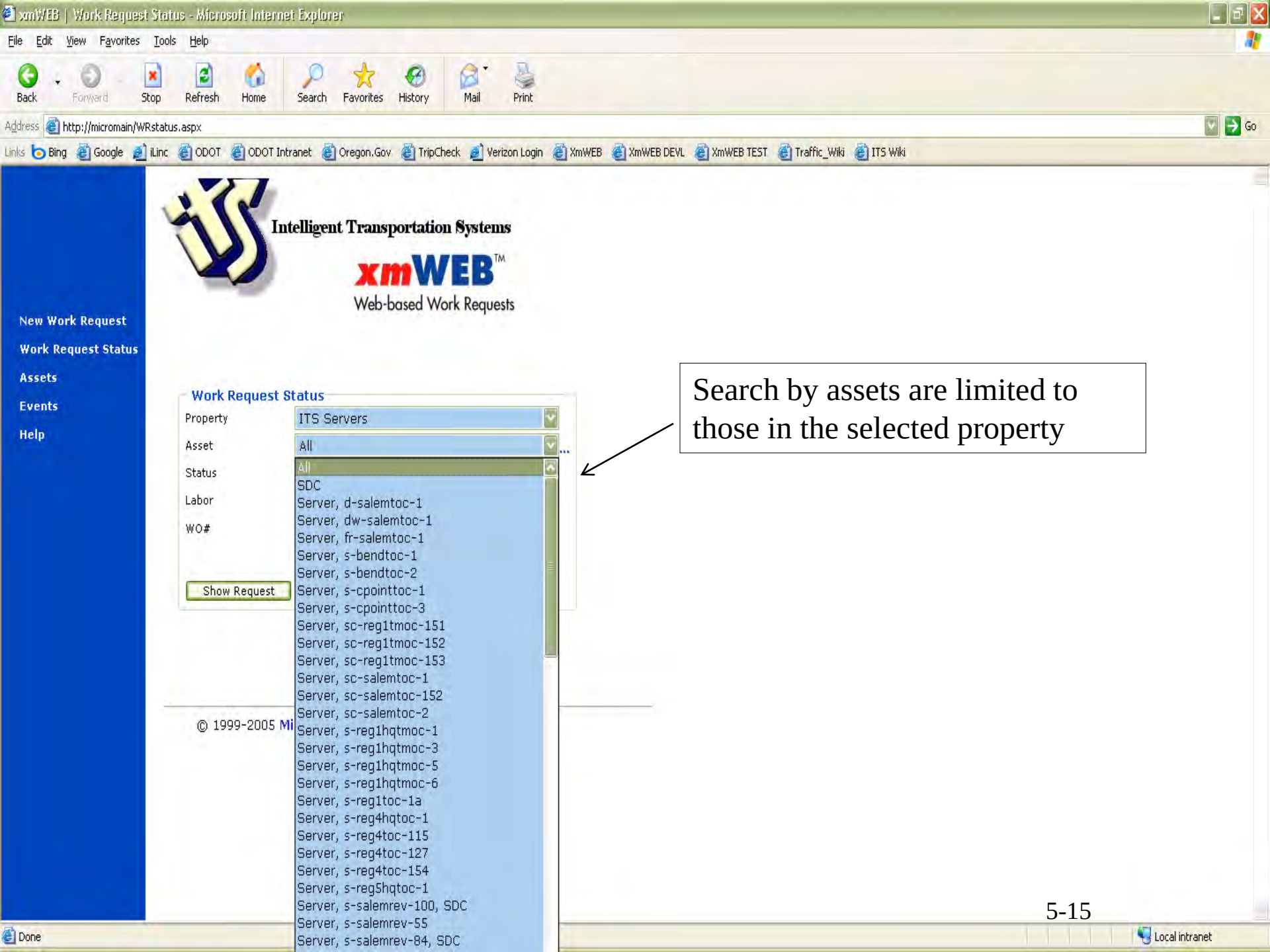
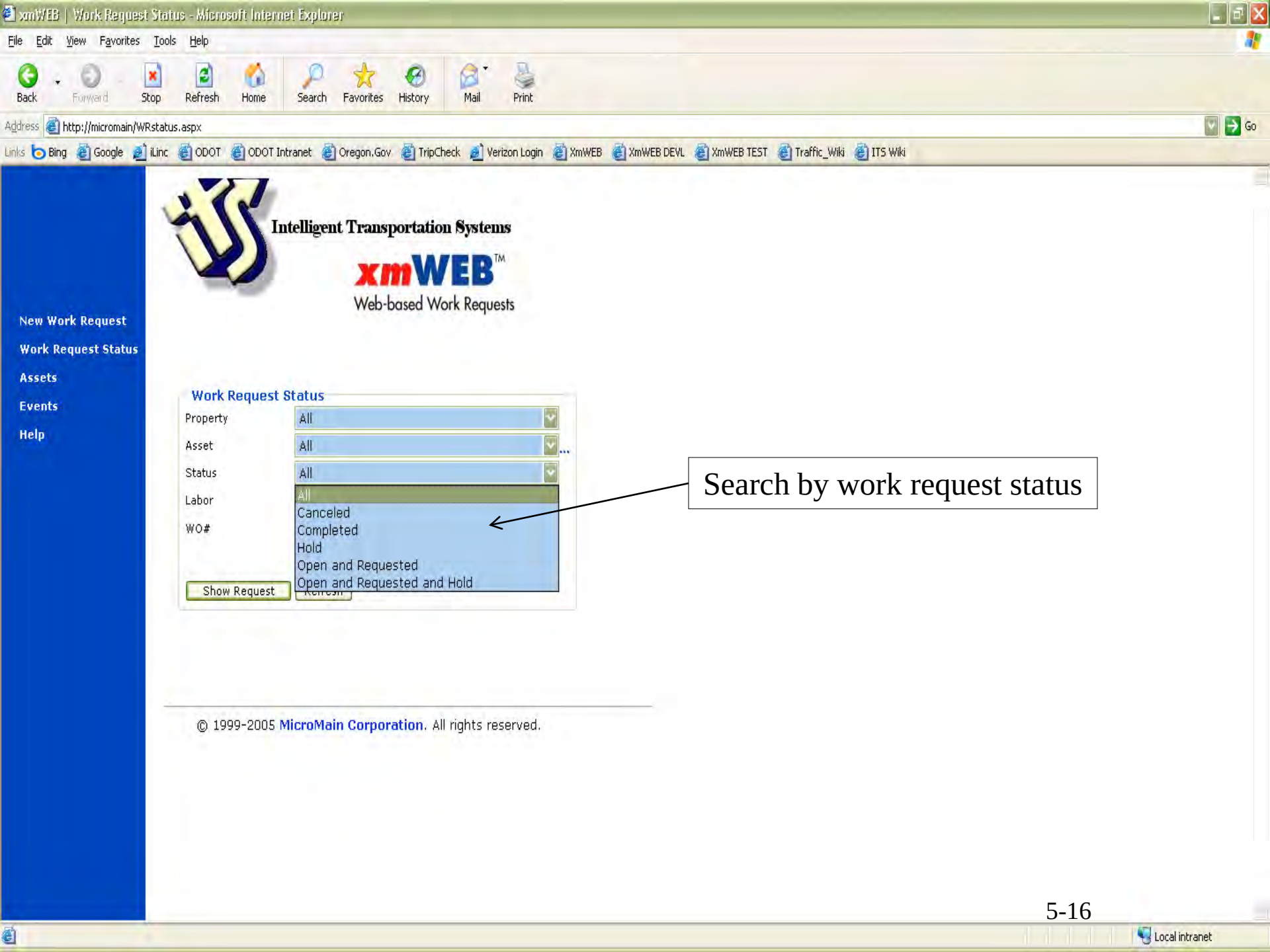
Local intranet



Search by assets are limited to those in the selected property


xmWEB | Work Request Status - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRstatus.aspx
Go
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Work Request Status
Property All
Asset All
Status All
Labor
WO#
All
Canceled
Completed
Hold
Open and Requested
Open and Requested and Hold
Show Request
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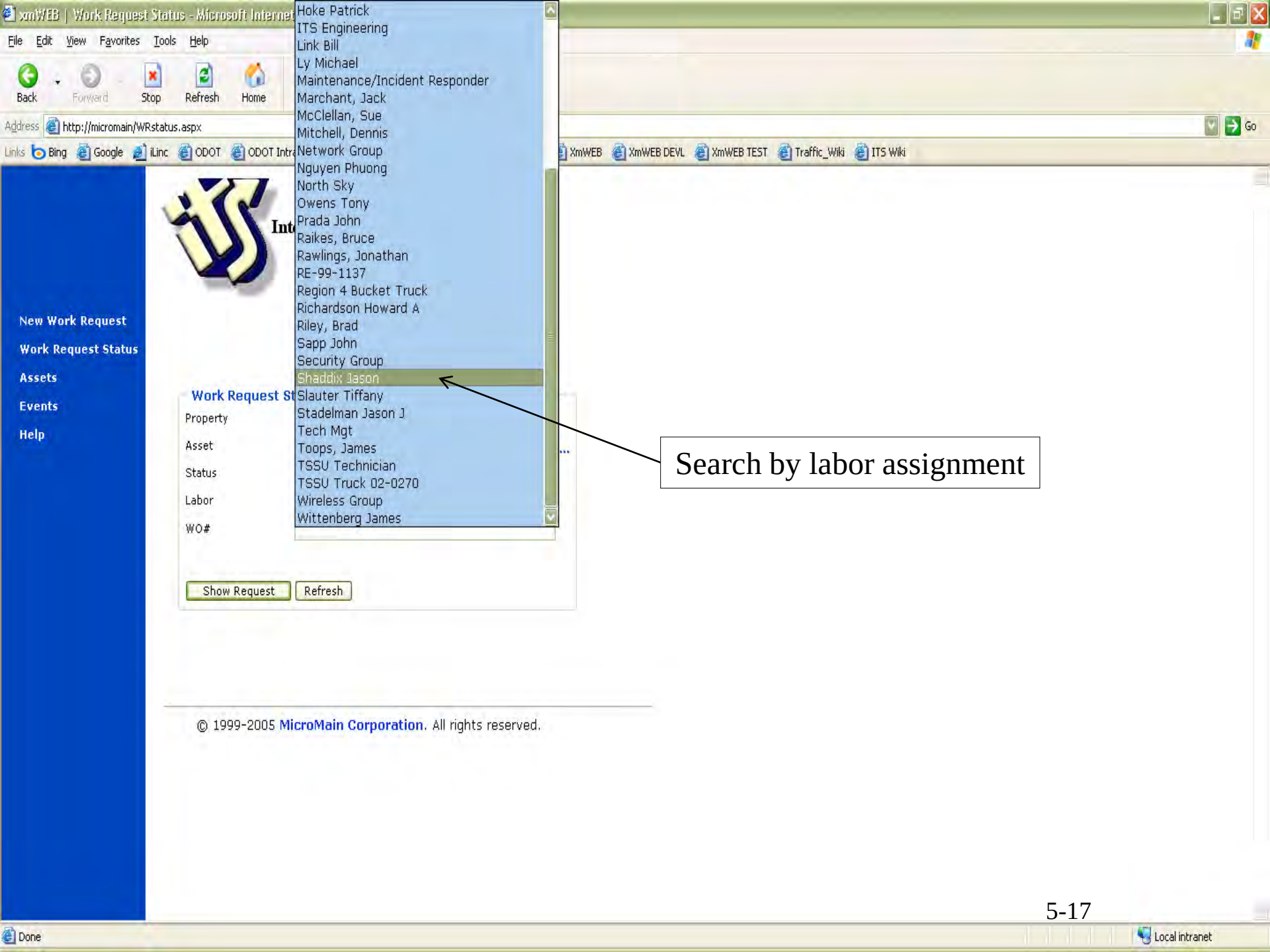
Search by work request status
Local intranet


xmWEB | Work Request Status - Microsoft Internet
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home
Address http://micromain/WRstatus.aspx
Links Bing Google iLinc ODOT ODOT Intra
XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
New Work Request
Work Request Status
Assets
Events
Help
Work Request St
Property
Asset
Status
Labor
WO#
Show Request
Refresh
Hoke Patrick
ITS Engineering
Link Bill
Ly Michael
Maintenance/Incident Responder
Marchant, Jack
McClellan, Sue
Mitchell, Dennis
Network Group
Nguyen Phuong
North Sky
Owens Tony
Prada John
Raikes, Bruce
Rawlings, Jonathan
RE-99-1137
Region 4 Bucket Truck
Richardson Howard A
Riley, Brad
Sapp John
Security Group
Shaddix Jason
Slauter Tiffany
Stadelman Jason J
Tech Mgt
Toops, James
TSSU Technician
TSSU Truck 02-0270
Wireless Group
Wittenberg James
Search by labor assignment
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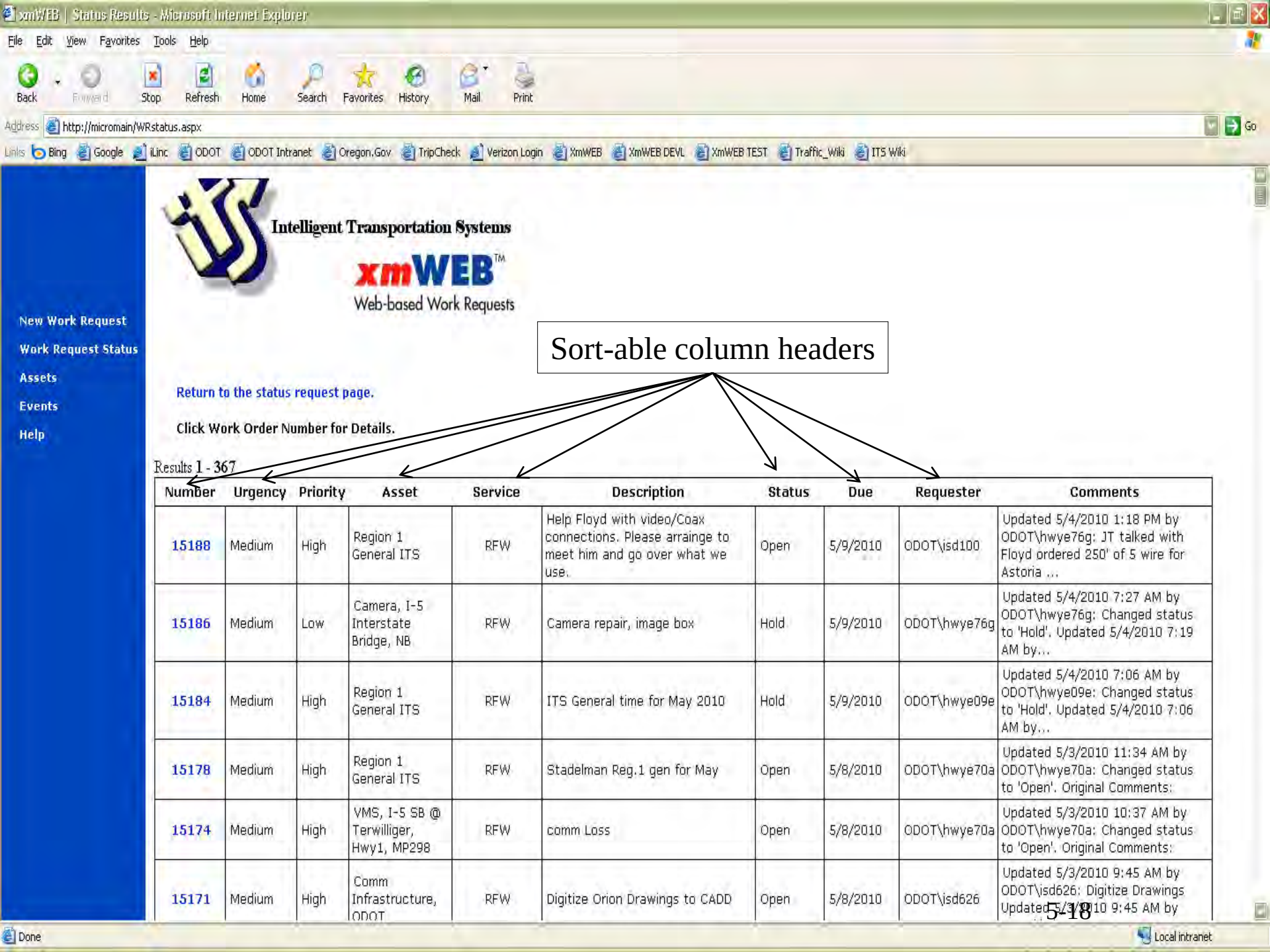
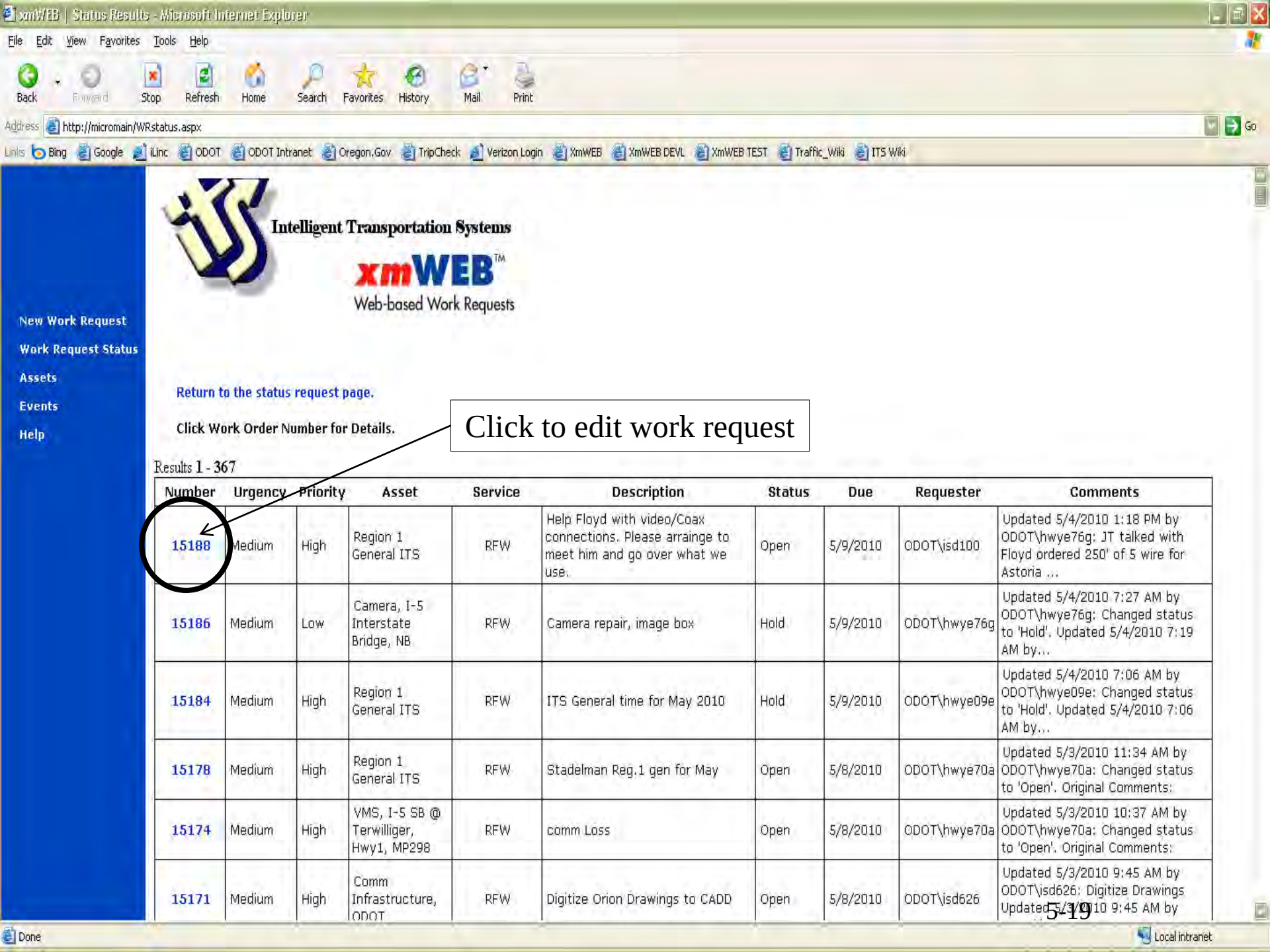
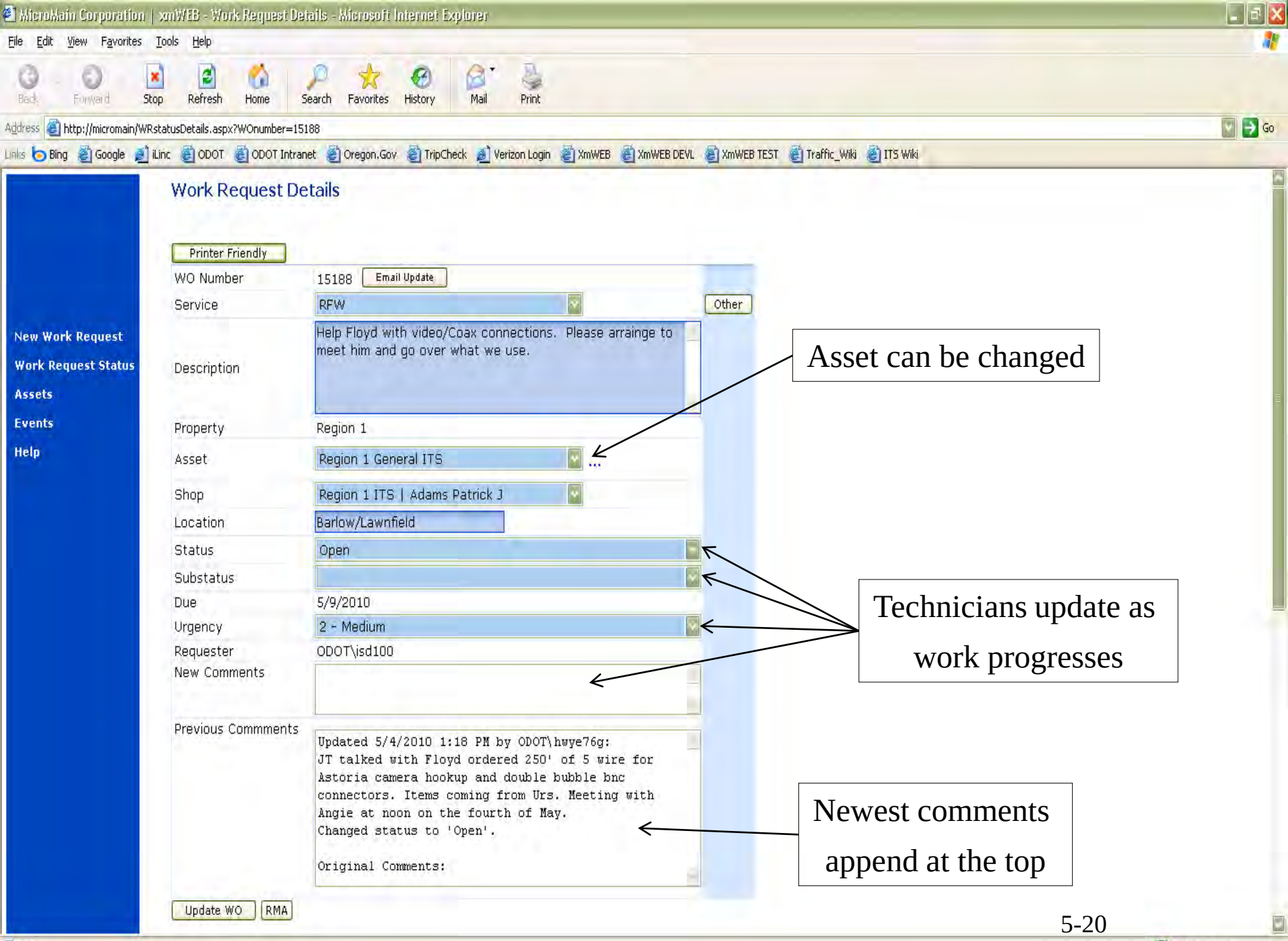
Done
Local intranet


xmWEB | Status Results - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRstatus.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Sort-able column headers
Return to the status request page.
Click Work Order Number for Details.
Results 1 - 367
Number Urgency Priority Asset Service Description Status Due Requester Comments
15188 Medium High Region 1 General ITS RFW Help Floyd with video/Coax connections. Please arrainge to meet him and go over what we use. Open 5/9/2010 ODOT\jsd100 Updated 5/4/2010 1:18 PM by ODOT\hwye76g: JT talked with Floyd ordered 250' of 5 wire for Astoria ...
15186 Medium Low Camera, I-5 Interstate Bridge, NB RFW Camera repair, image box Hold 5/9/2010 ODOT\hwye76g Updated 5/4/2010 7:27 AM by ODOT\hwye76g: Changed status to 'Hold'. Updated 5/4/2010 7:19 AM by...
15184 Medium High Region 1 General ITS RFW ITS General time for May 2010 Hold 5/9/2010 ODOT\hwye09e Updated 5/4/2010 7:06 AM by ODOT\hwye09e: Changed status to 'Hold'. Updated 5/4/2010 7:06 AM by...
15178 Medium High Region 1 General ITS RFW Stadelman Reg.1 gen for May Open 5/8/2010 ODOT\hwye70a Updated 5/3/2010 11:34 AM by ODOT\hwye70a: Changed status to 'Open'. Original Comments:
15174 Medium High VMS, I-5 SB @ Terwilliger, Hwy1, MP298 RFW comm Loss Open 5/8/2010 ODOT\hwye70a Updated 5/3/2010 10:37 AM by ODOT\hwye70a: Changed status to 'Open'. Original Comments:
15171 Medium High Comm Infrastructure, ODOT RFW Digitize Orion Drawings to CADD Open 5/8/2010 ODOT\jsd626 Updated 5/3/2010 9:45 AM by ODOT\jsd626: Digitize Drawings Updated 5/3/2010 9:45 AM by
Done
Local intranet

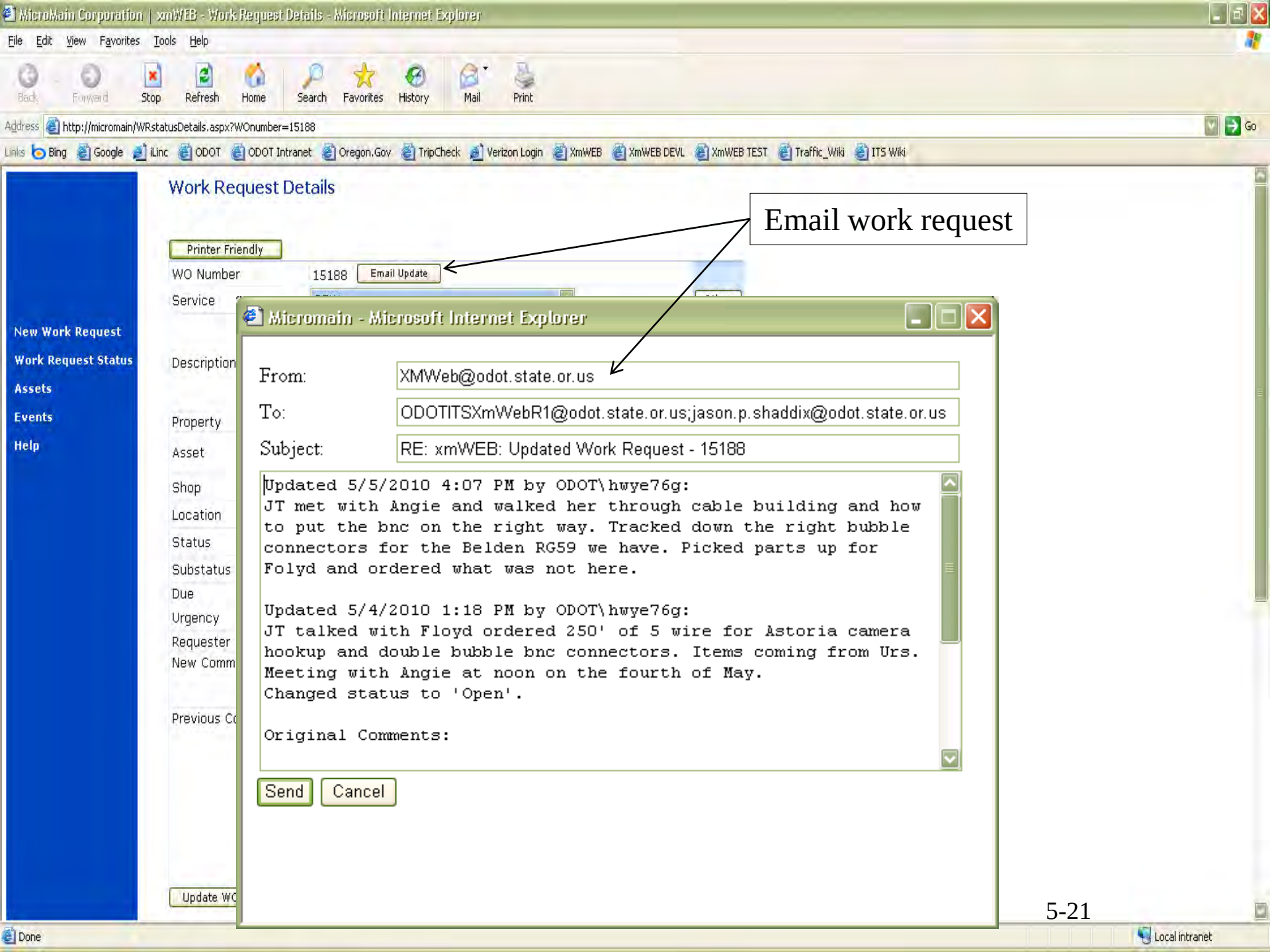

xmWEB | Status Results - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRstatus.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Return to the status request page.
Click Work Order Number for Details.
Click to edit work request
Results 1 - 367
Number Urgency Priority Asset Service Description Status Due Requester Comments
15188 Medium High Region 1 General ITS RFW Help Floyd with video/Coax connections. Please arrainge to meet him and go over what we use. Open 5/9/2010 ODOT\jsd100 Updated 5/4/2010 1:18 PM by ODOT\hwye76g: JT talked with Floyd ordered 250' of 5 wire for Astoria ...
15186 Medium Low Camera, I-5 Interstate Bridge, NB RFW Camera repair, image box Hold 5/9/2010 ODOT\hwye76g Updated 5/4/2010 7:27 AM by ODOT\hwye76g: Changed status to 'Hold'. Updated 5/4/2010 7:19 AM by...
15184 Medium High Region 1 General ITS RFW ITS General time for May 2010 Hold 5/9/2010 ODOT\hwye09e Updated 5/4/2010 7:06 AM by ODOT\hwye09e: Changed status to 'Hold'. Updated 5/4/2010 7:06 AM by...
15178 Medium High Region 1 General ITS RFW Stadelman Reg.1 gen for May Open 5/8/2010 ODOT\hwye70a Updated 5/3/2010 11:34 AM by ODOT\hwye70a: Changed status to 'Open'. Original Comments:
15174 Medium High VMS, I-5 SB @ Terwilliger, Hwy1, MP298 RFW comm Loss Open 5/8/2010 ODOT\hwye70a Updated 5/3/2010 10:37 AM by ODOT\hwye70a: Changed status to 'Open'. Original Comments:
15171 Medium High Comm Infrastructure, ODOT RFW Digitize Orion Drawings to CADD Open 5/8/2010 ODOT\jsd626 Updated 5/3/2010 9:45 AM by ODOT\jsd626: Digitize Drawings Updated 5/3/2010 9:45 AM by
Done
Local intranet

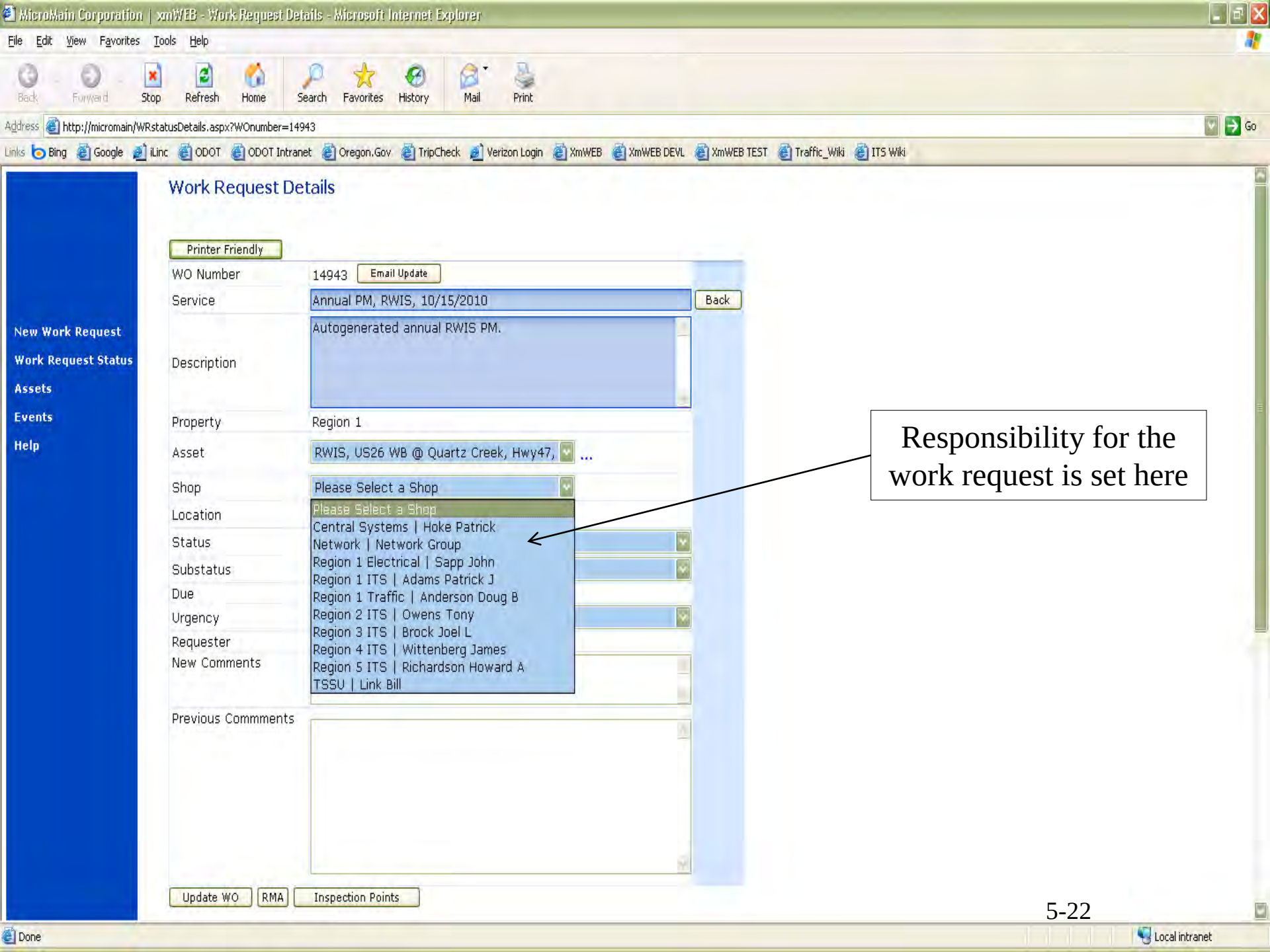


Asset can be changed

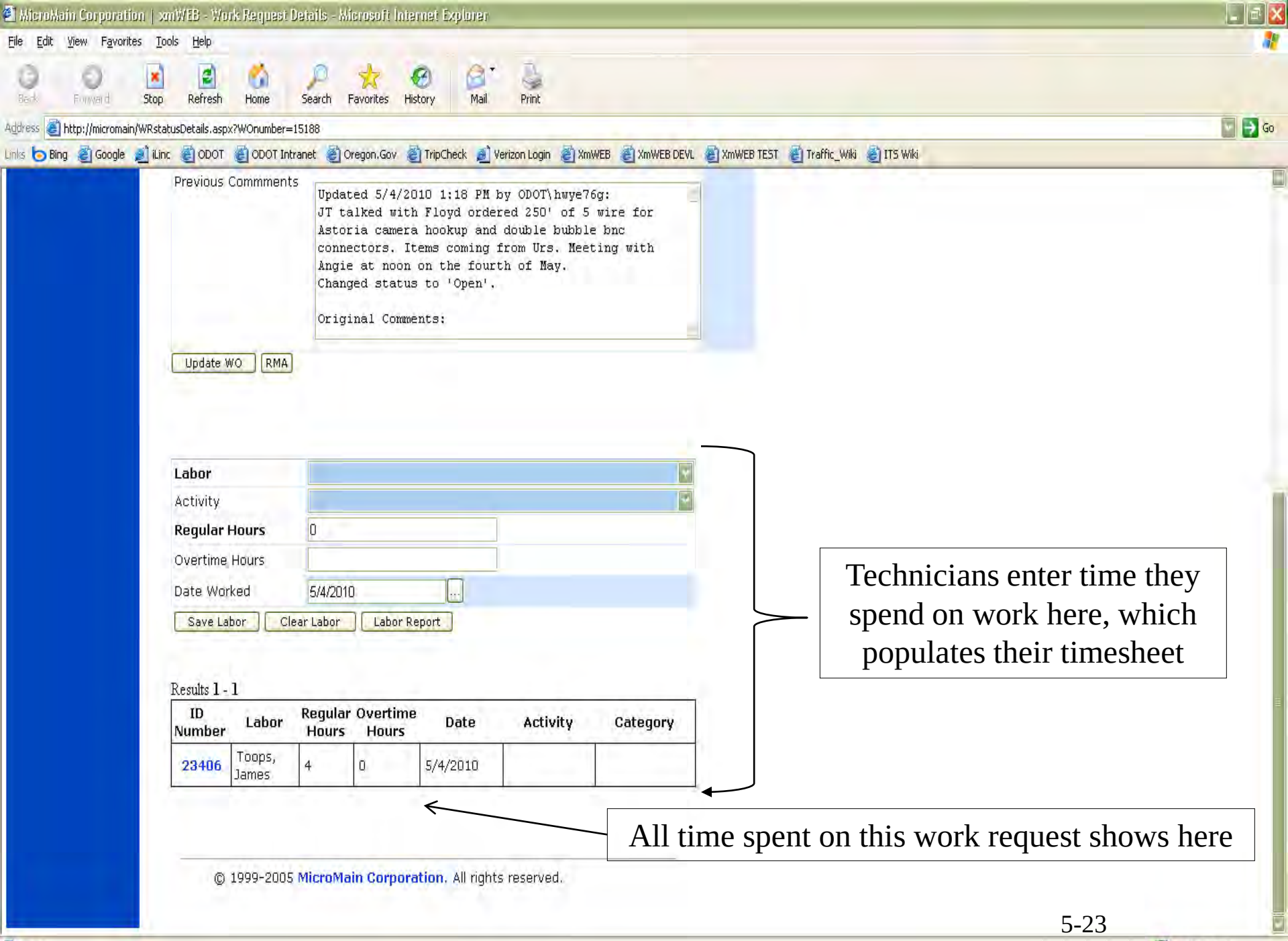
Technicians update as work progresses

Newest comments append at the top


MicroMain Corporation | xmWEB - Work Request Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRstatusDetails.aspx?WOnumber=15188
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Work Request Details
Email work request
Printer Friendly
WO Number 15188 Email Update
Service
Description
Property
Asset
Shop
Location
Status
Substatus
Due
Urgency
Requester
New Comm
Previous Co
Update WO
New Work Request
Work Request Status
Assets
Events
Help
Micromain - Microsoft Internet Explorer
From: XMWeb@odot.state.or.us
To: ODOTITSXmWebR1@odot.state.or.us;jason.p.shaddix@odot.state.or.us
Subject: RE: xmWEB: Updated Work Request - 15188
Updated 5/5/2010 4:07 PM by ODOT\hwye76g:
JT met with Angie and walked her through cable building and how to put the bnc on the right way. Tracked down the right bubble connectors for the Belden RG59 we have. Picked parts up for Folyd and ordered what was not here.
Updated 5/4/2010 1:18 PM by ODOT\hwye76g:
JT talked with Floyd ordered 250' of 5 wire for Astoria camera hookup and double bubble bnc connectors. Items coming from Urs. Meeting with Angie at noon on the fourth of May.
Changed status to 'Open'.
Original Comments:
Send Cancel
Done
Local intranet

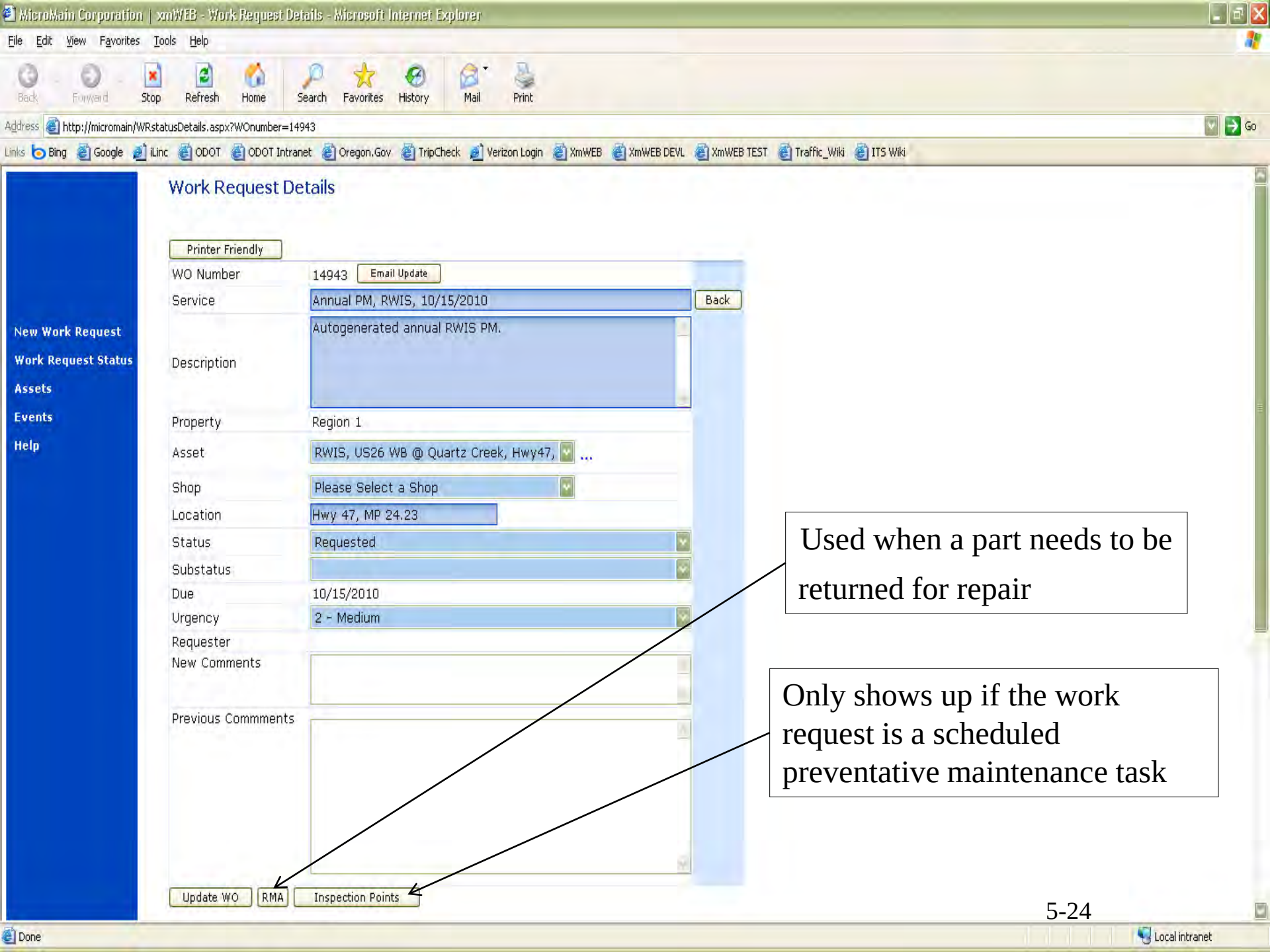


Responsibility for the work request is set here



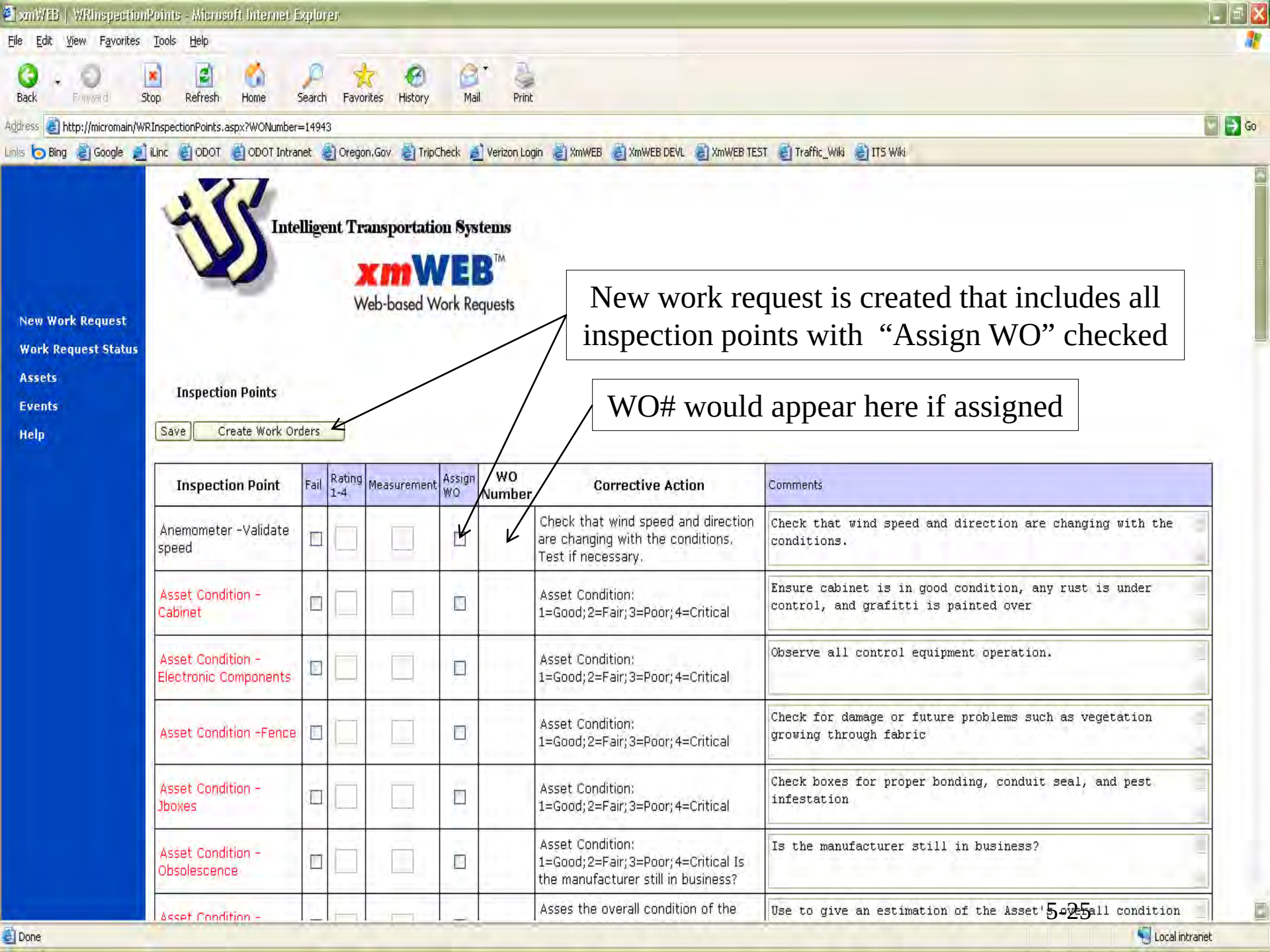
Technicians enter time they spend on work here, which populates their timesheet

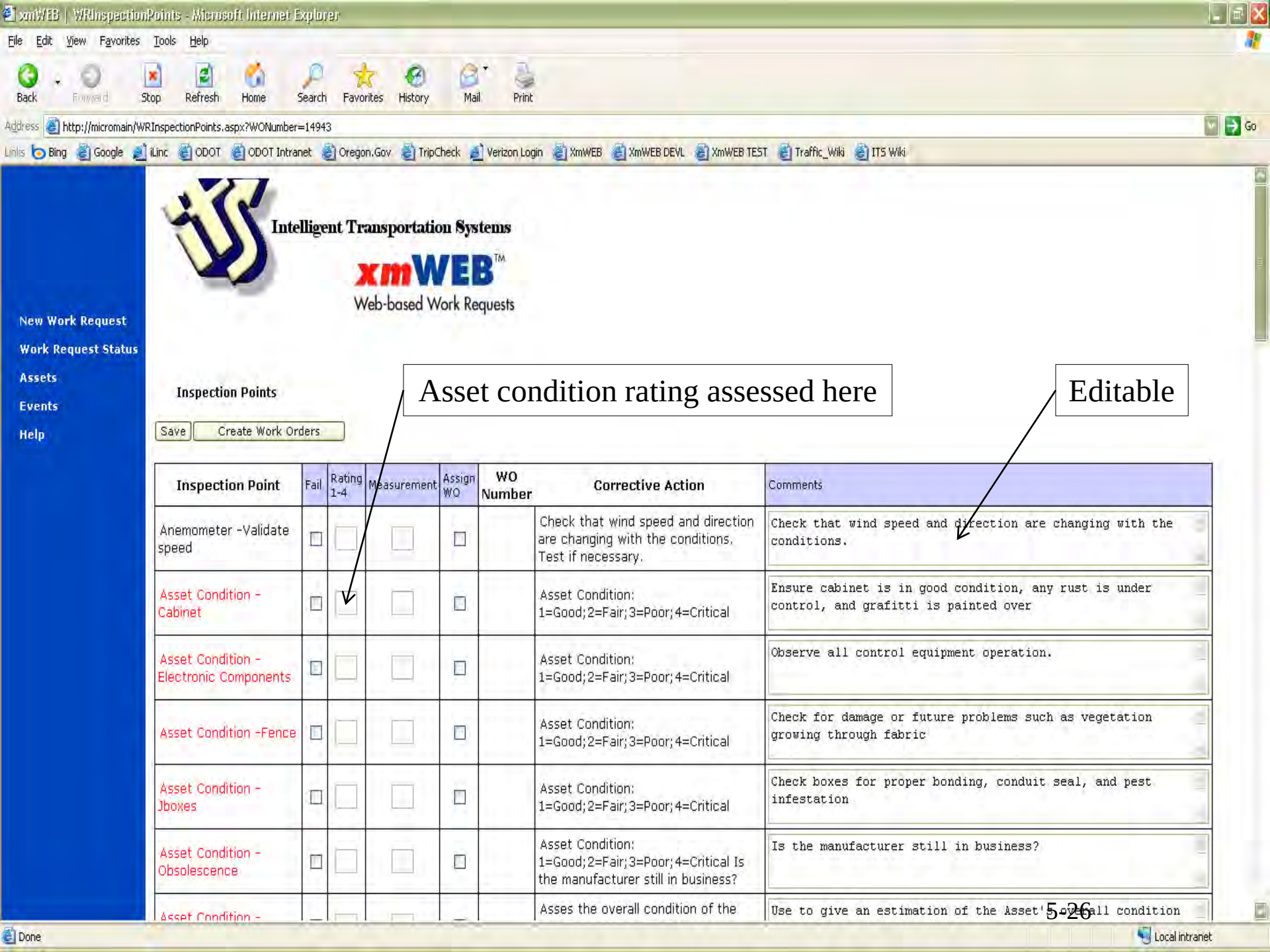
All time spent on this work request shows here

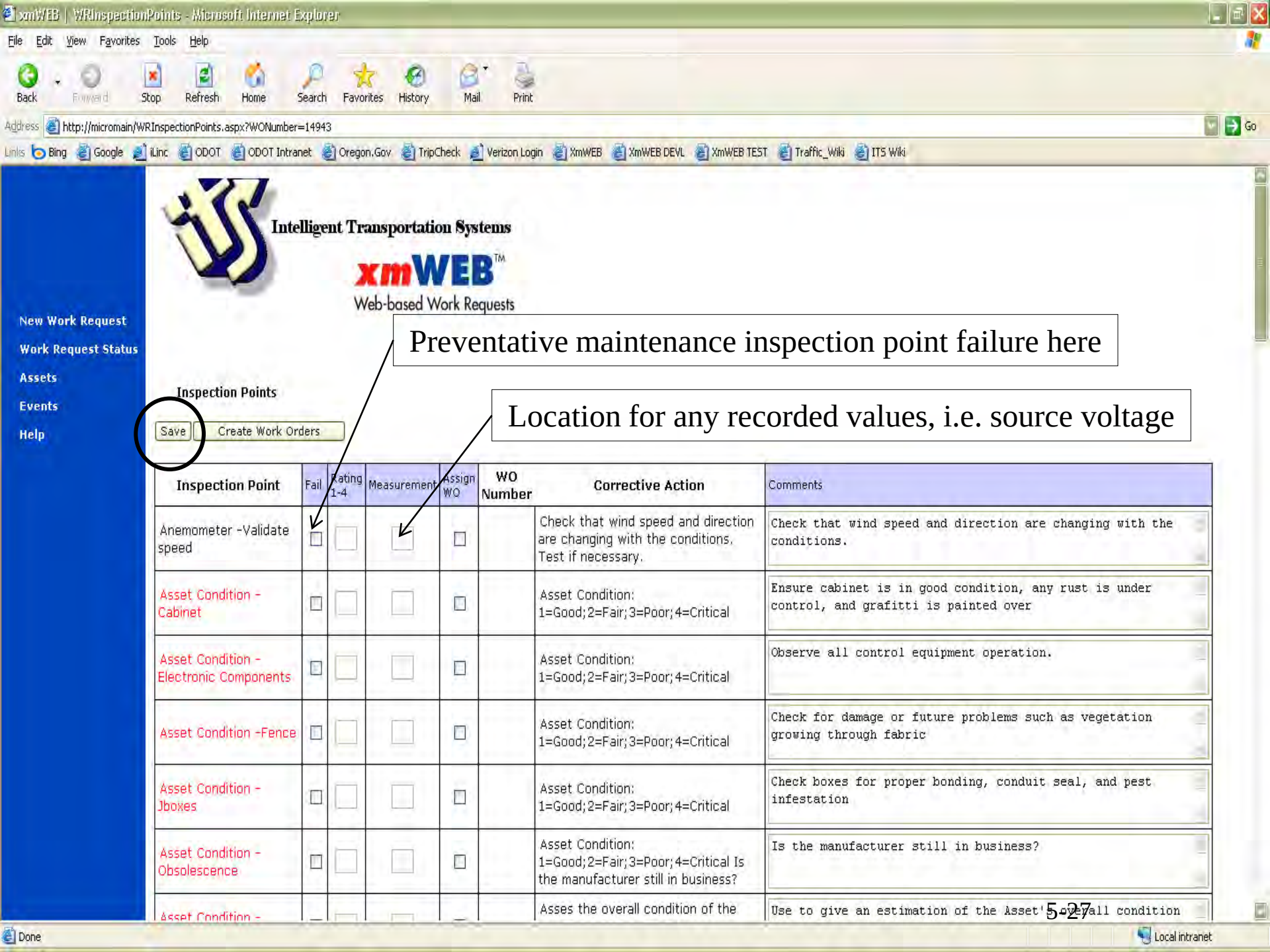


Used when a part needs to be returned for repair

Only shows up if the work request is a scheduled preventative maintenance task


xmWEB | WRInspectionPoints - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRInspectionPoints.aspx?WONumber=14943
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Inspection Points
Save
Create Work Orders
New work request is created that includes all inspection points with "Assign WO" checked
WO# would appear here if assigned
Inspection Point
Fail
Rating 1-4
Measurement
Assign WO
WO Number
Corrective Action
Comments
Anemometer -Validate speed
Check that wind speed and direction are changing with the conditions. Test if necessary.
Check that wind speed and direction are changing with the conditions.
Asset Condition - Cabinet
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Ensure cabinet is in good condition, any rust is under control, and grafitti is painted over
Asset Condition - Electronic Components
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Observe all control equipment operation.
Asset Condition -Fence
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Check for damage or future problems such as vegetation growing through fabric
Asset Condition - Jboxes
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Check boxes for proper bonding, conduit seal, and pest infestation
Asset Condition - Obsolescence
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical Is the manufacturer still in business?
Is the manufacturer still in business?
Asset Condition -
Asses the overall condition of the
Use to give an estimation of the Asset's overall condition
Done
Local intranet

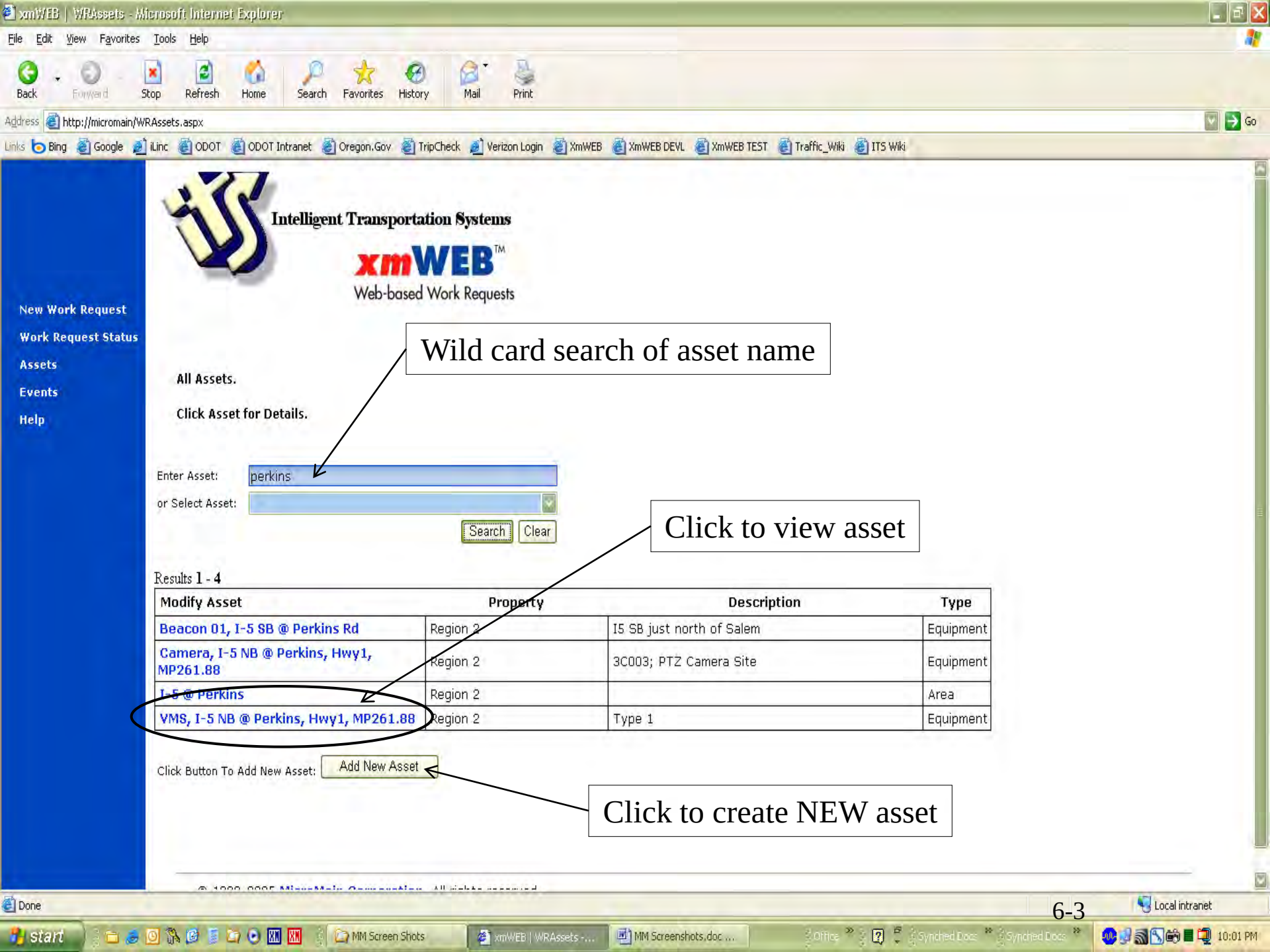

xmWEB | WRInspectionPoints - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRInspectionPoints.aspx?WONumber=14943
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset condition rating assessed here
Editable
Inspection Points
Save
Create Work Orders
Inspection Point
Fail
Rating 1-4
Measurement
Assign WO
WO Number
Corrective Action
Comments
Anemometer -Validate speed
Check that wind speed and direction are changing with the conditions. Test if necessary.
Check that wind speed and direction are changing with the conditions.
Asset Condition - Cabinet
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Ensure cabinet is in good condition, any rust is under control, and grafitti is painted over
Asset Condition - Electronic Components
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Observe all control equipment operation.
Asset Condition -Fence
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Check for damage or future problems such as vegetation growing through fabric
Asset Condition - Jboxes
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Check boxes for proper bonding, conduit seal, and pest infestation
Asset Condition - Obsolescence
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical Is the manufacturer still in business?
Is the manufacturer still in business?
Asset Condition -
Asses the overall condition of the
Use to give an estimation of the Asset's overall condition
Done
Local intranet

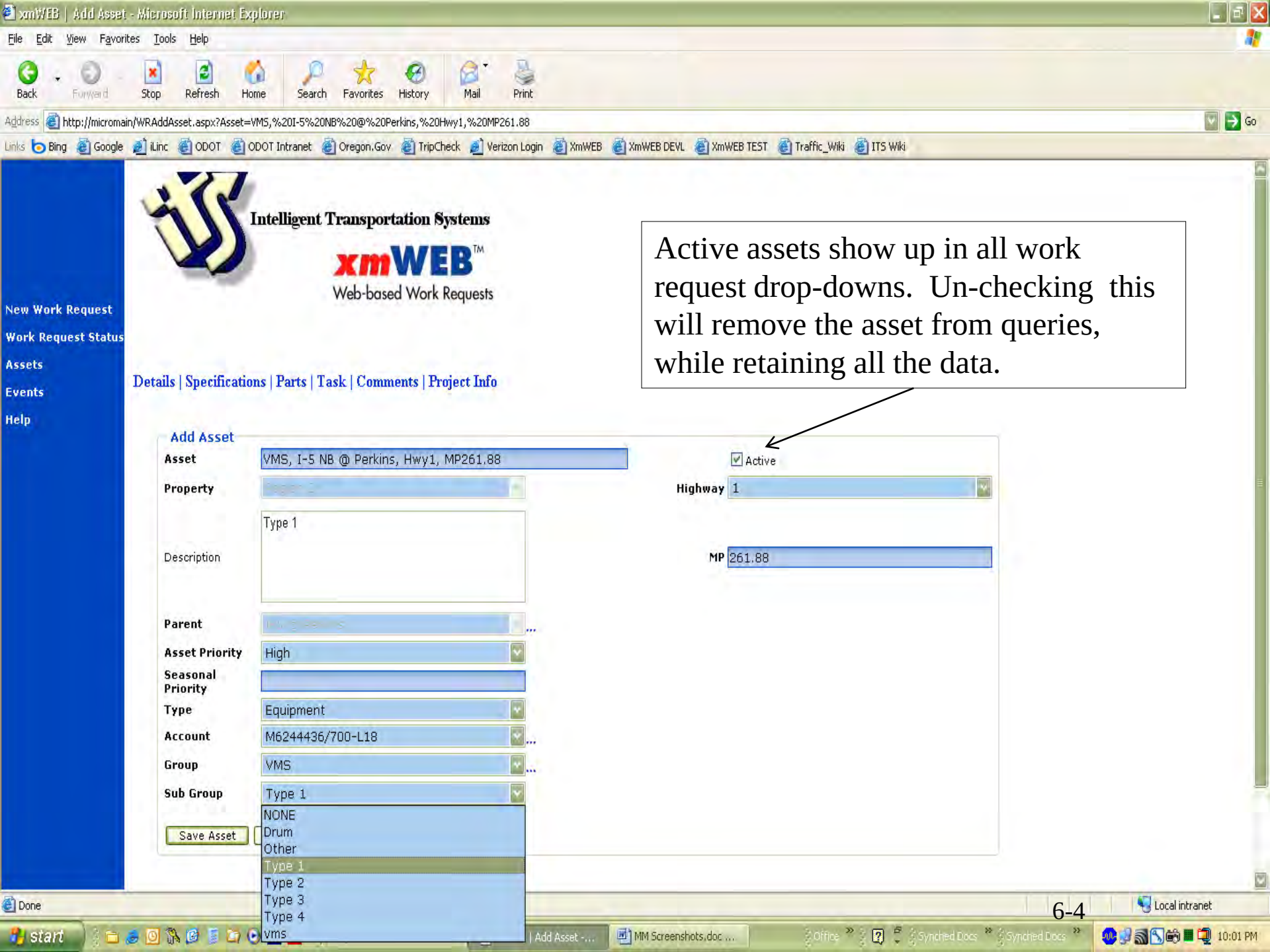

xmWEB | WRInspectionPoints - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRInspectionPoints.aspx?WONumber=14943
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Preventative maintenance inspection point failure here
Location for any recorded values, i.e. source voltage
Inspection Points
Save
Create Work Orders
Inspection Point
Fail
Rating 1-4
Measurement
Assign WO
WO Number
Corrective Action
Comments
Anemometer -Validate speed
Check that wind speed and direction are changing with the conditions. Test if necessary.
Check that wind speed and direction are changing with the conditions.
Asset Condition - Cabinet
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Ensure cabinet is in good condition, any rust is under control, and grafitti is painted over
Asset Condition - Electronic Components
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Observe all control equipment operation.
Asset Condition -Fence
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Check for damage or future problems such as vegetation growing through fabric
Asset Condition - Jboxes
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical
Check boxes for proper bonding, conduit seal, and pest infestation
Asset Condition - Obsolescence
Asset Condition: 1=Good;2=Fair;3=Poor;4=Critical Is the manufacturer still in business?
Is the manufacturer still in business?
Asset Condition -
Asses the overall condition of the
Use to give an estimation of the Asset's overall condition
Done
Local intranet

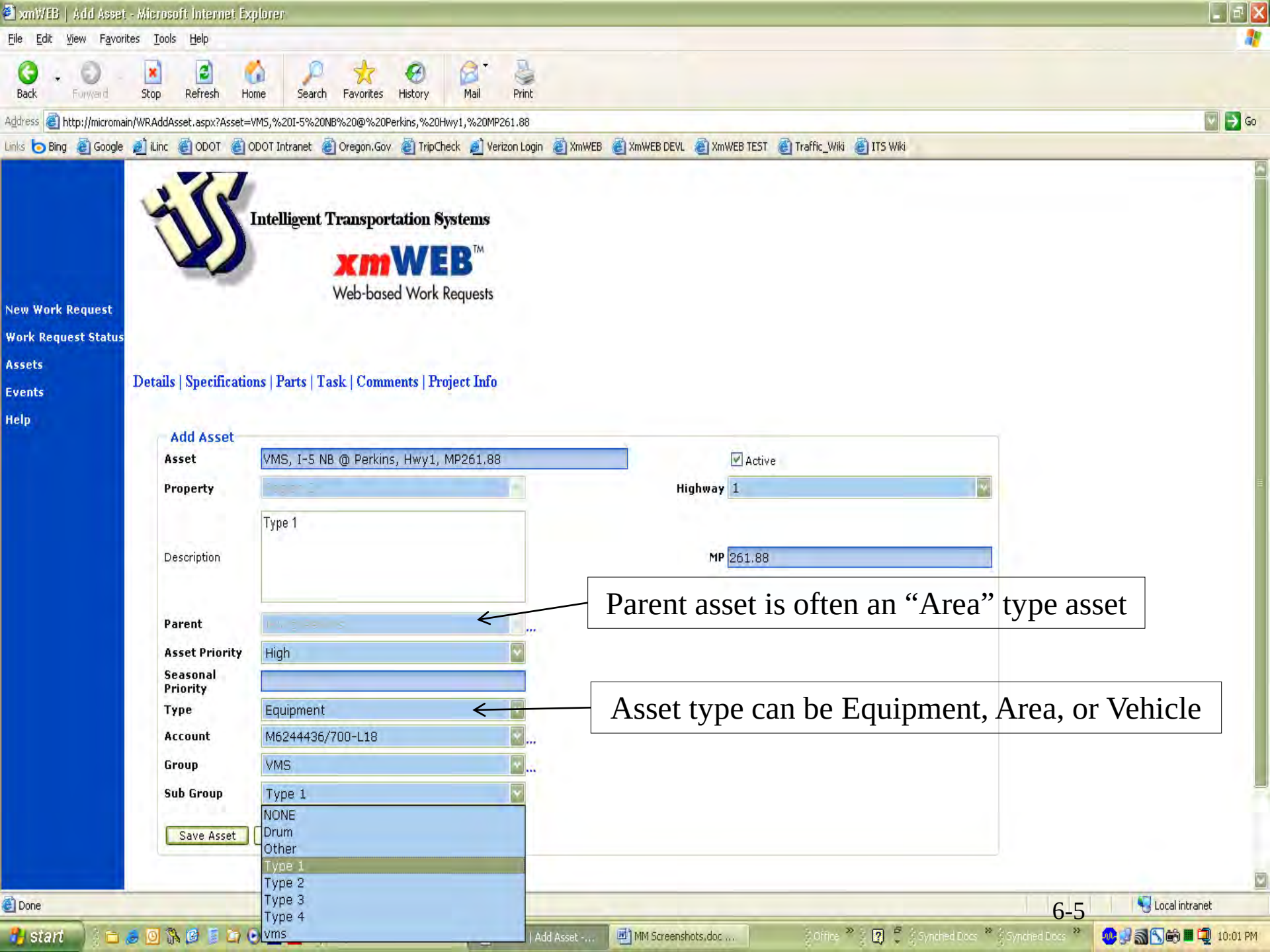
XmWeb Asset Management

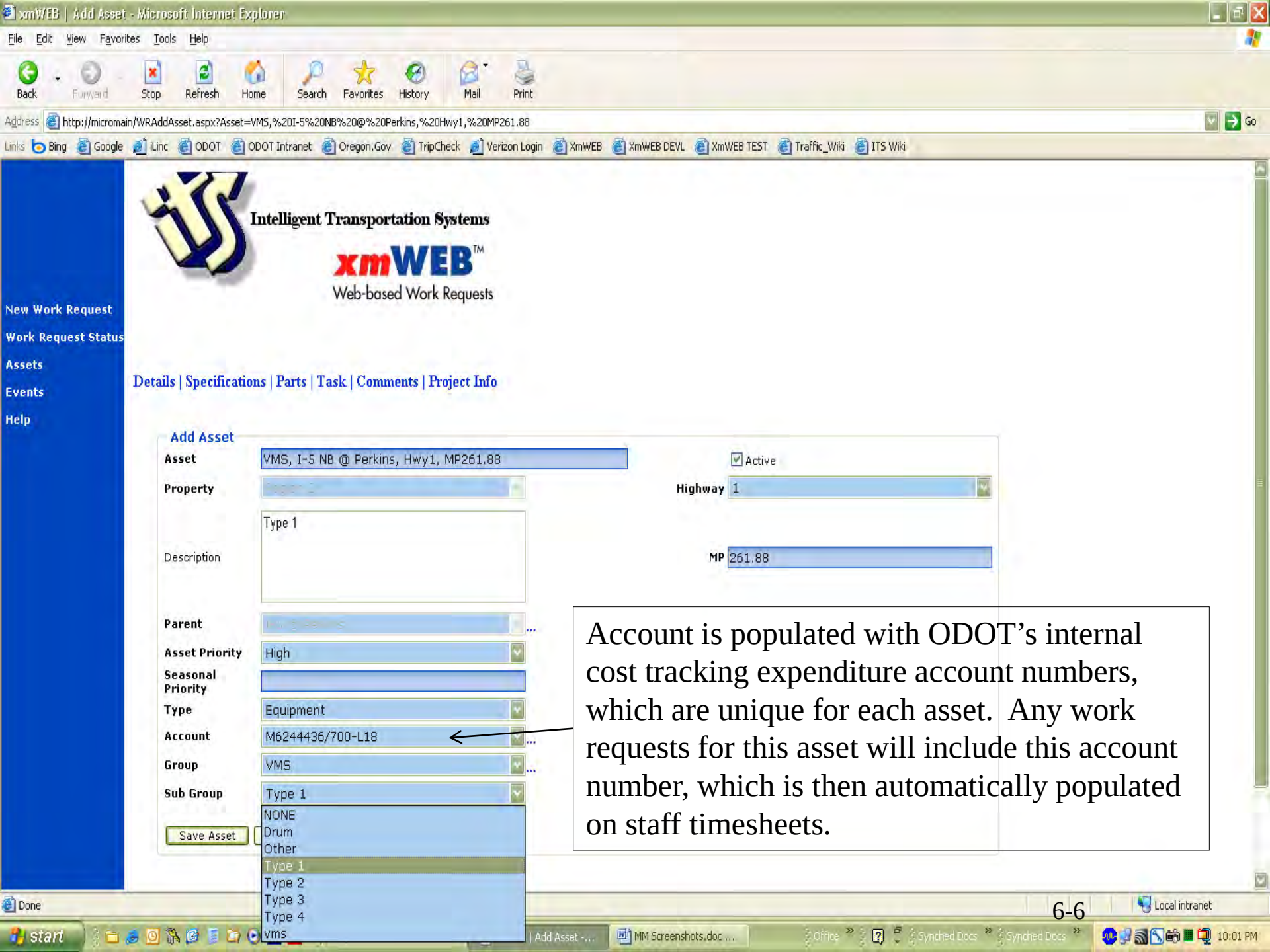
- Create New Assets
- Edit Assets
- Searching for Assets
- Asset Parts
- Asset Specifications

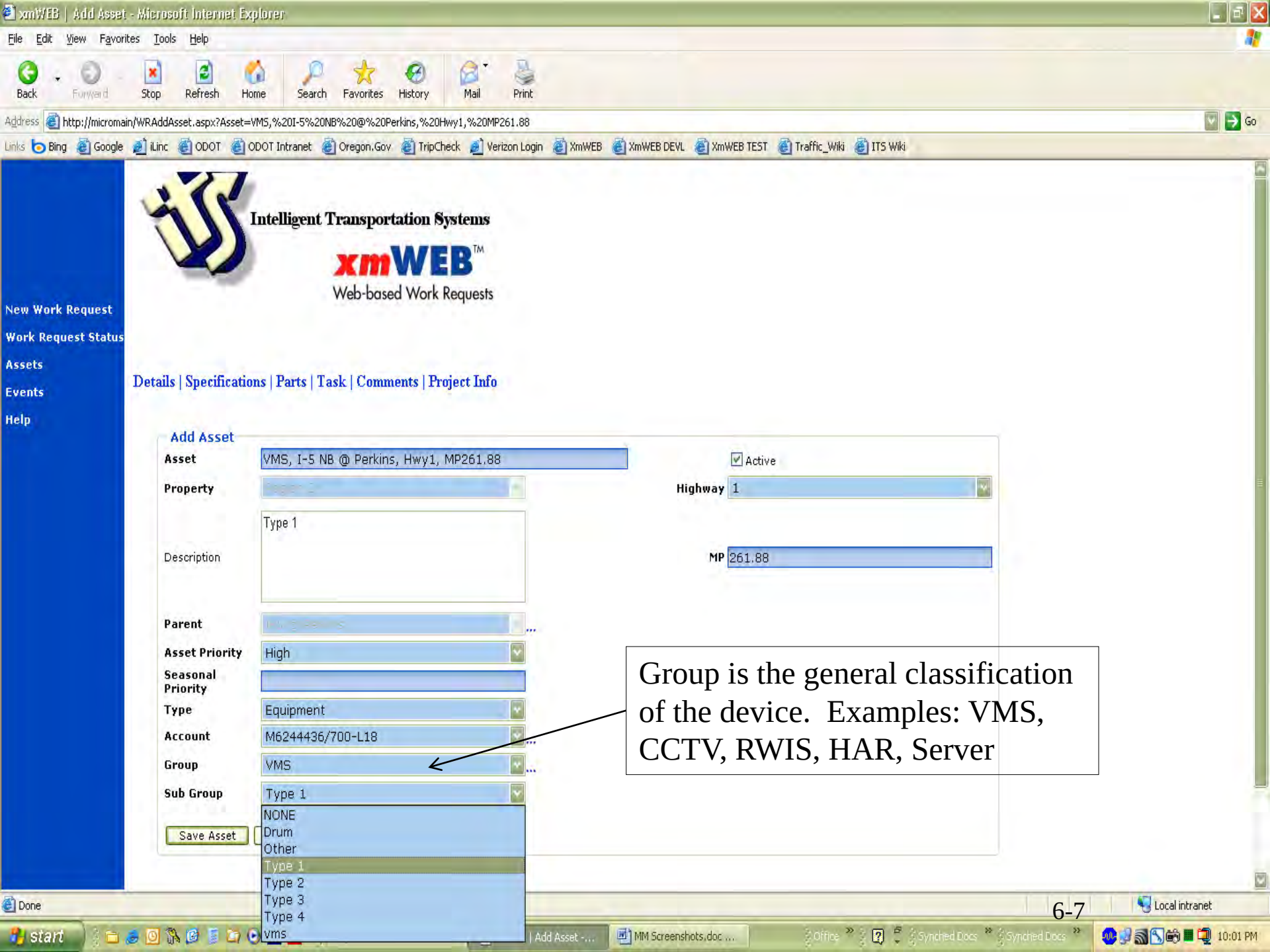
Live Demo XmWeb Assets

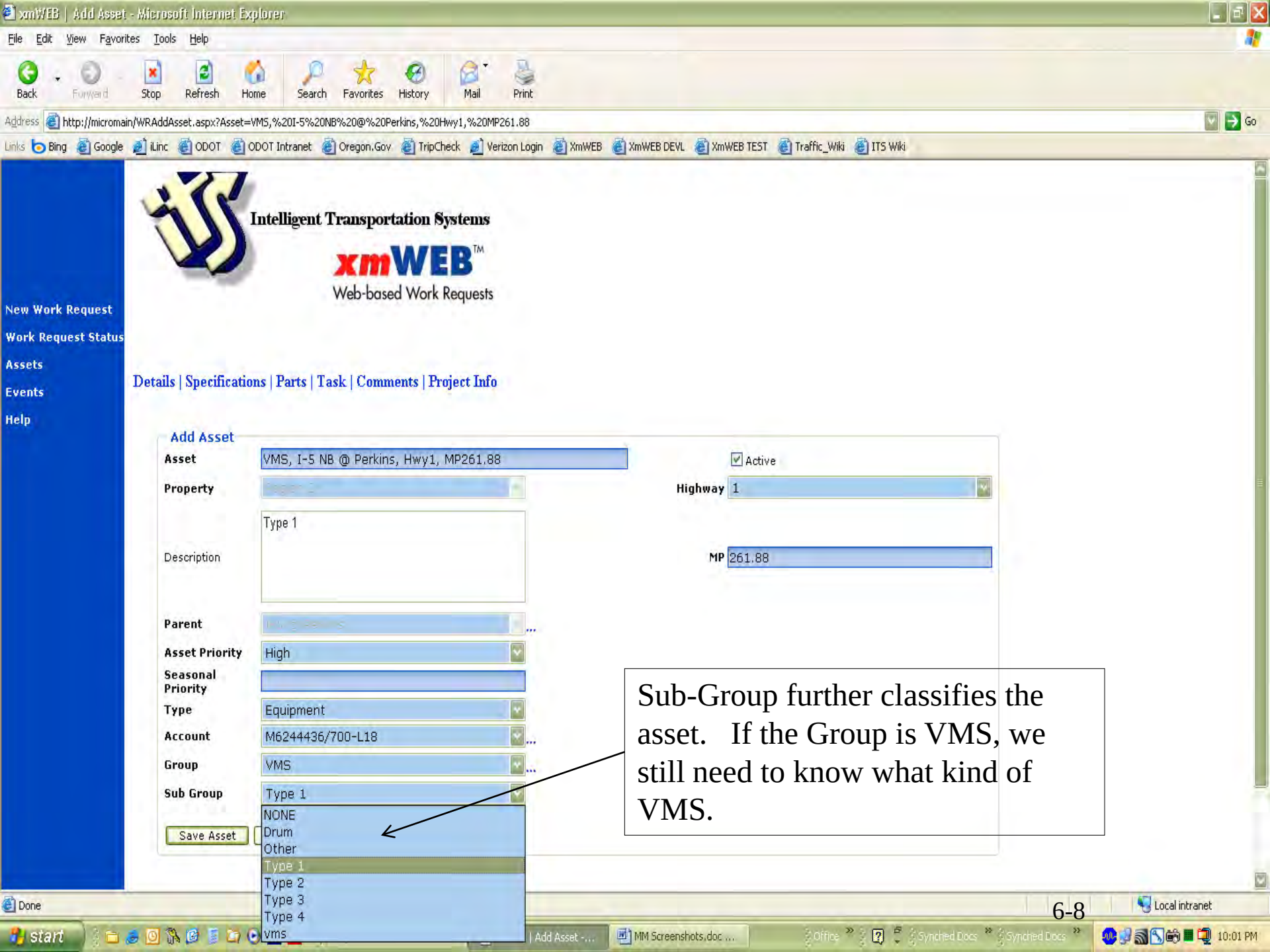

xmWEB | WRAssets - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssets.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Wild card search of asset name
All Assets.
Click Asset for Details.
Enter Asset: perkins
or Select Asset:
Search Clear
Click to view asset
Results 1 - 4
Modify Asset | Property | Description | Type
Beacon 01, I-5 SB @ Perkins Rd | Region 2 | I5 SB just north of Salem | Equipment
Camera, I-5 NB @ Perkins, Hwy1, MP261.88 | Region 2 | 3C003; PTZ Camera Site | Equipment
I-5 @ Perkins | Region 2 | | Area
VMS, I-5 NB @ Perkins, Hwy1, MP261.88 | Region 2 | Type 1 | Equipment
Click Button To Add New Asset: Add New Asset
Click to create NEW asset
Done
Local intranet
start
MM Screen Shots
xmWEB | WRAssets - ...
MM Screenshots.doc ...
10:01 PM

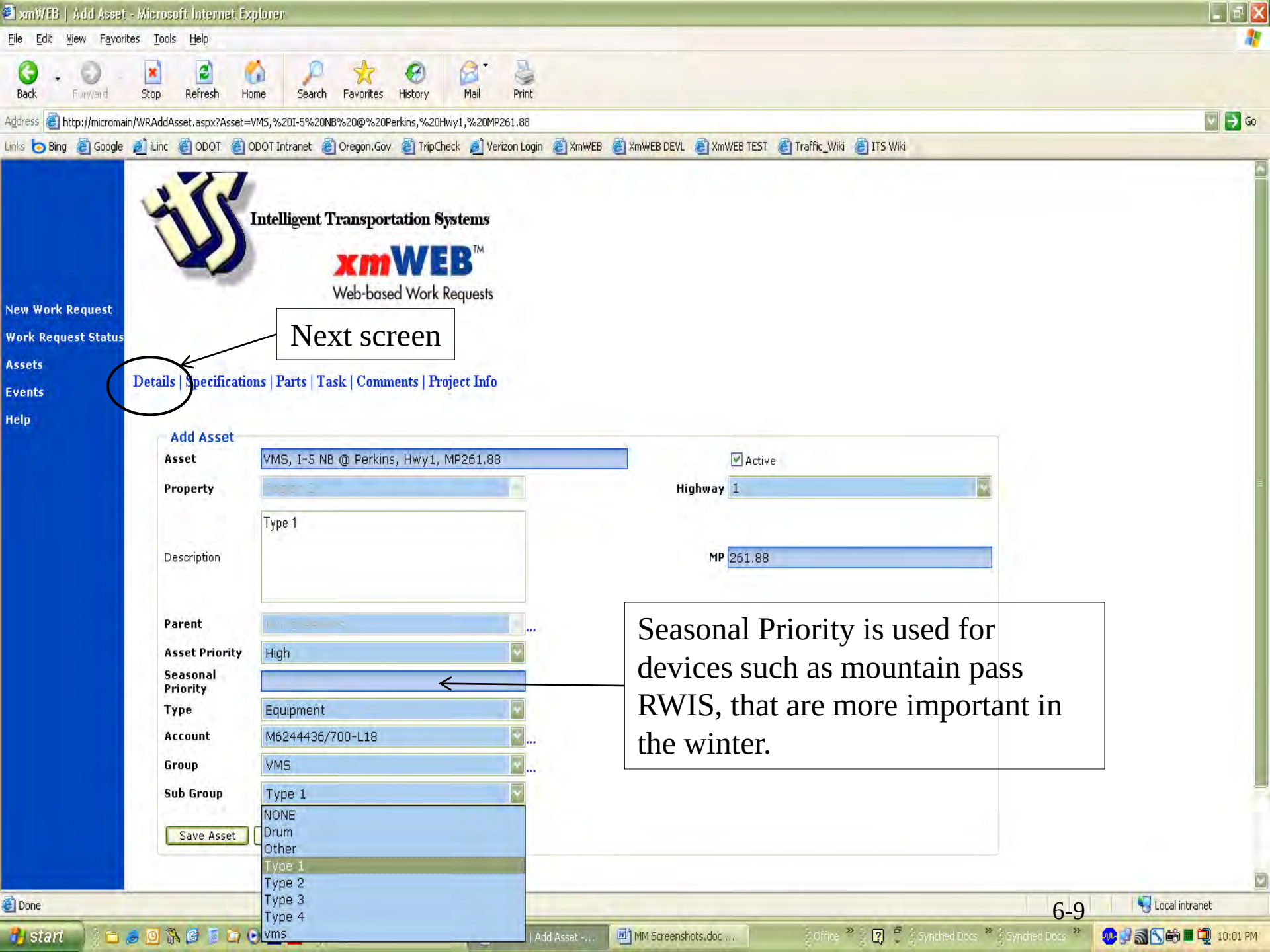

xmWEB | Add Asset - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAddAsset.aspx?Asset=VMS,%20I-5%20NB%20@%20Perkins,%20Hwy1,%20MP261.88
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Details | Specifications | Parts | Task | Comments | Project Info
Active assets show up in all work request drop-downs. Un-checking this will remove the asset from queries, while retaining all the data.
Add Asset
Asset
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Active
Property
Highway
1
Description
Type 1
MP
261.88
Parent
Asset Priority
High
Seasonal Priority
Type
Equipment
Account
M6244436/700-L18
Group
VMS
Sub Group
Type 1
NONE
Drum
Other
Type 1
Type 2
Type 3
Type 4
vms
Save Asset
Done
Local intranet
start
Add Asset -...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:01 PM

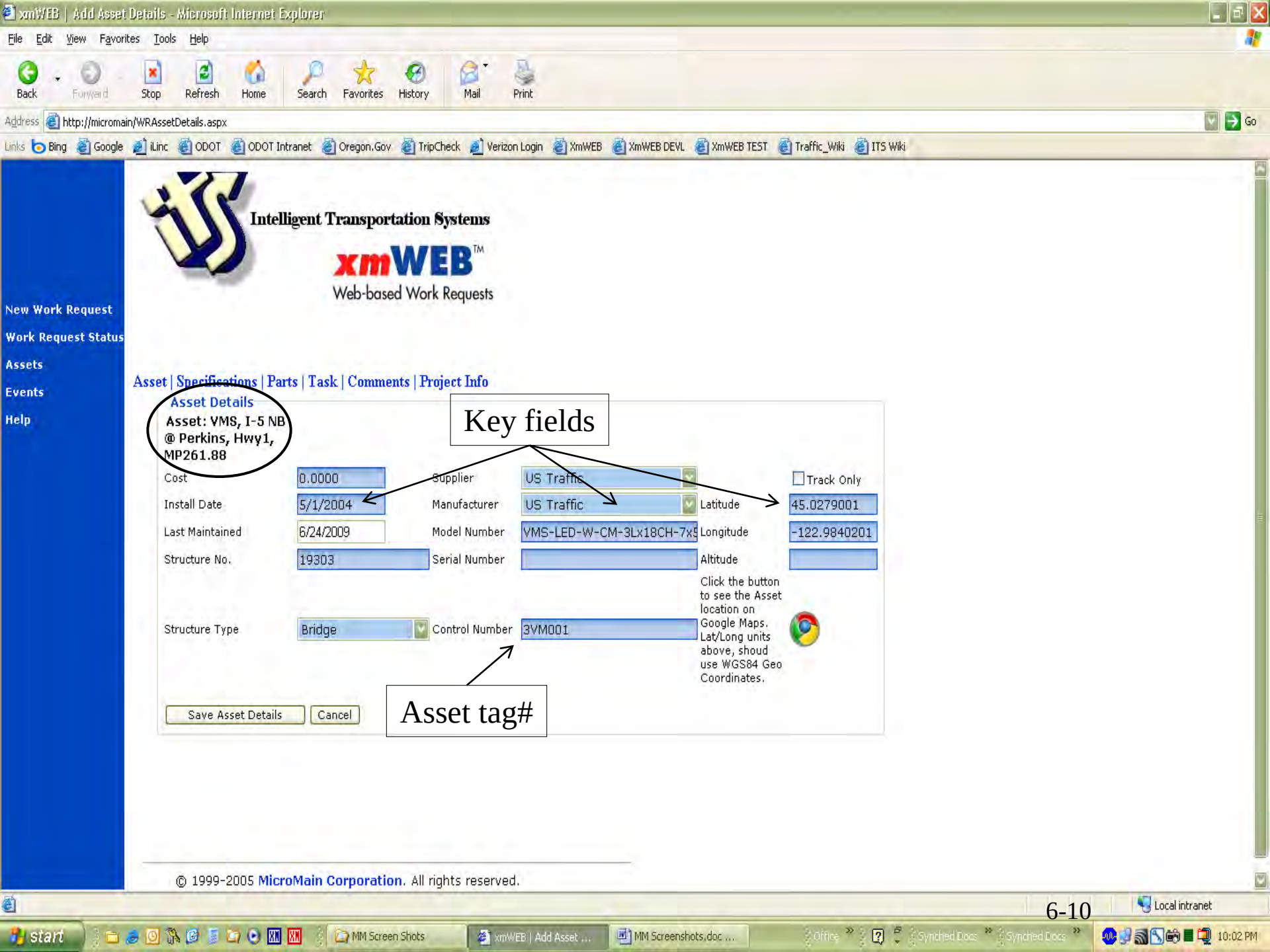

xmWEB | Add Asset - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAddAsset.aspx?Asset=VMS,%20I-5%20NB%20@%20Perkins,%20Hwy1,%20MP261.88
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Details | Specifications | Parts | Task | Comments | Project Info
Add Asset
Asset
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Active
Property
Highway
1
Type 1
Description
MP
261.88
Parent
Asset Priority
High
Seasonal Priority
Type
Equipment
Account
M6244436/700-L18
Group
VMS
Sub Group
Type 1
NONE
Drum
Other
Type 1
Type 2
Type 3
Type 4
vms
Save Asset
Parent asset is often an “Area” type asset
Asset type can be Equipment, Area, or Vehicle
Done
Local intranet
start
Add Asset -...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:01 PM

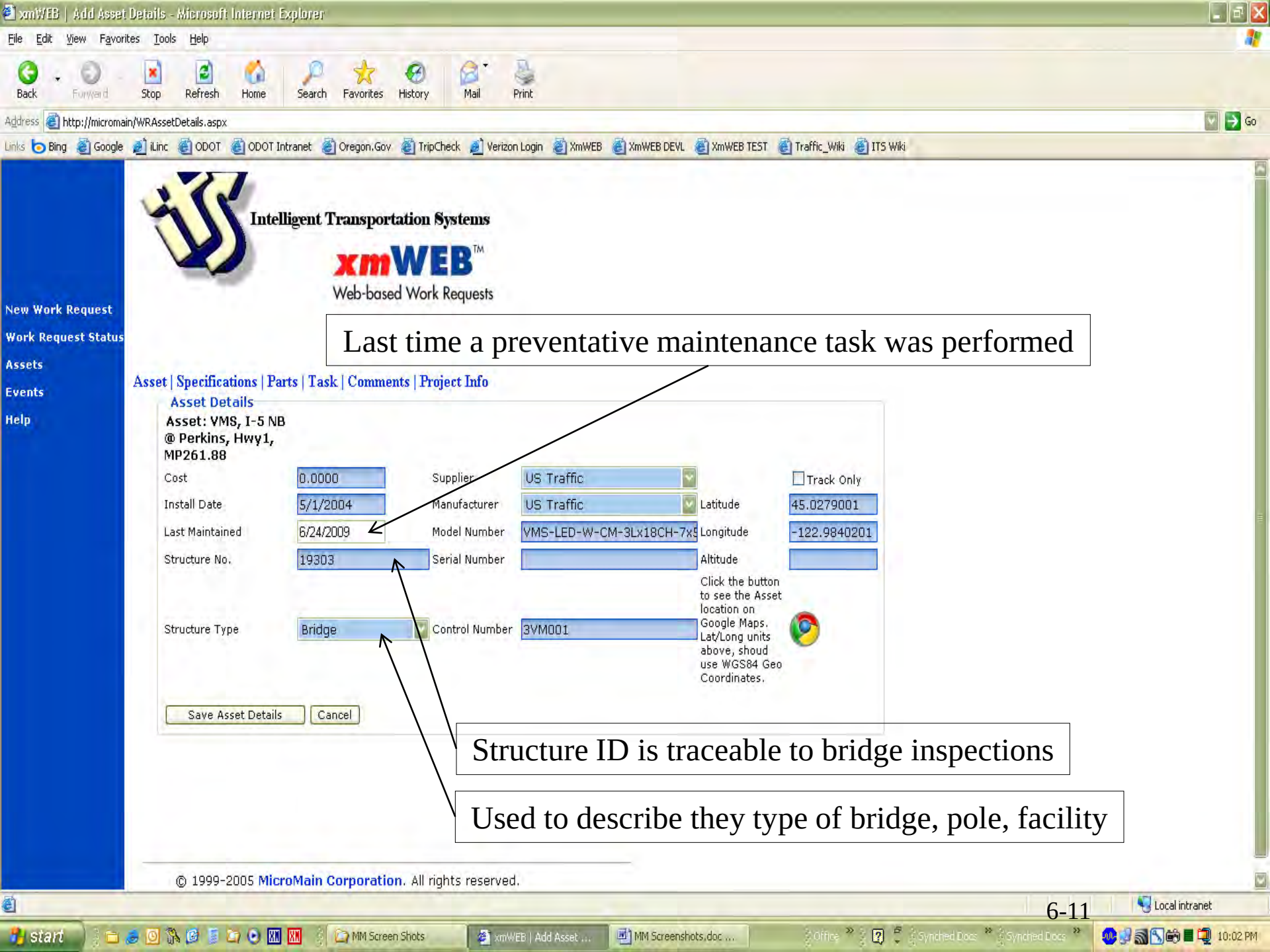

xmWEB | Add Asset - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAddAsset.aspx?Asset=VMS,%20I-5%20NB%20@%20Perkins,%20Hwy1,%20MP261.88
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Details | Specifications | Parts | Task | Comments | Project Info
Add Asset
Asset
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Active
Property
Highway
1
Type 1
Description
MP
261.88
Parent
Asset Priority
High
Seasonal Priority
Type
Equipment
Account
M6244436/700-L18
Group
VMS
Sub Group
Type 1
NONE
Drum
Other
Type 1
Type 2
Type 3
Type 4
vms
Save Asset
Account is populated with ODOT's internal cost tracking expenditure account numbers, which are unique for each asset. Any work requests for this asset will include this account number, which is then automatically populated on staff timesheets.
Done
Local intranet
start
Add Asset -...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:01 PM


xmWEB | Add Asset - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAddAsset.aspx?Asset=VMS,%20I-5%20NB%20@%20Perkins,%20Hwy1,%20MP261.88
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Details | Specifications | Parts | Task | Comments | Project Info
Add Asset
Asset
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Active
Property
Highway
1
Type 1
Description
MP
261.88
Parent
Asset Priority
High
Seasonal Priority
Type
Equipment
Account
M6244436/700-L18
Group
VMS
Sub Group
Type 1
NONE
Drum
Other
Type 1
Type 2
Type 3
Type 4
vms
Save Asset
Group is the general classification of the device. Examples: VMS, CCTV, RWIS, HAR, Server
Done
Local intranet
start
Add Asset -...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:01 PM


xmWEB | Add Asset - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAddAsset.aspx?Asset=VMS,%20I-5%20NB%20@%20Perkins,%20Hwy1,%20MP261.88
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Details | Specifications | Parts | Task | Comments | Project Info
Add Asset
Asset
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Active
Property
Highway
1
Type 1
Description
MP
261.88
Parent
Asset Priority
High
Seasonal Priority
Type
Equipment
Account
M6244436/700-L18
Group
VMS
Sub Group
Type 1
NONE
Drum
Other
Type 1
Type 2
Type 3
Type 4
vms
Save Asset
Sub-Group further classifies the asset. If the Group is VMS, we still need to know what kind of VMS.
Done
Local intranet
start
Add Asset -...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:01 PM


xmWEB | Add Asset - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAddAsset.aspx?Asset=VMS,%20I-5%20NB%20@%20Perkins,%20Hwy1,%20MP261.88
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Next screen
Details | Specifications | Parts | Task | Comments | Project Info
Add Asset
Asset
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Active
Property
Highway
1
Type 1
Description
MP
261.88
Parent
Asset Priority
High
Seasonal Priority
Type
Equipment
Account
M6244436/700-L18
Group
VMS
Sub Group
Type 1
NONE
Drum
Other
Type 1
Type 2
Type 3
Type 4
vms
Save Asset
Seasonal Priority is used for devices such as mountain pass RWIS, that are more important in the winter.
Done
Local intranet
start
Add Asset -...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:01 PM


xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Key fields
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x5
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Asset tag#
Save Asset Details
Cancel
© 1999-2005 MicroMain Corporation. All rights reserved.
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM


xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Last time a preventative maintenance task was performed
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB
@ Perkins, Hwy1,
MP261.88
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Save Asset Details
Cancel
Structure ID is traceable to bridge inspections
Used to describe they type of bridge, pole, facility
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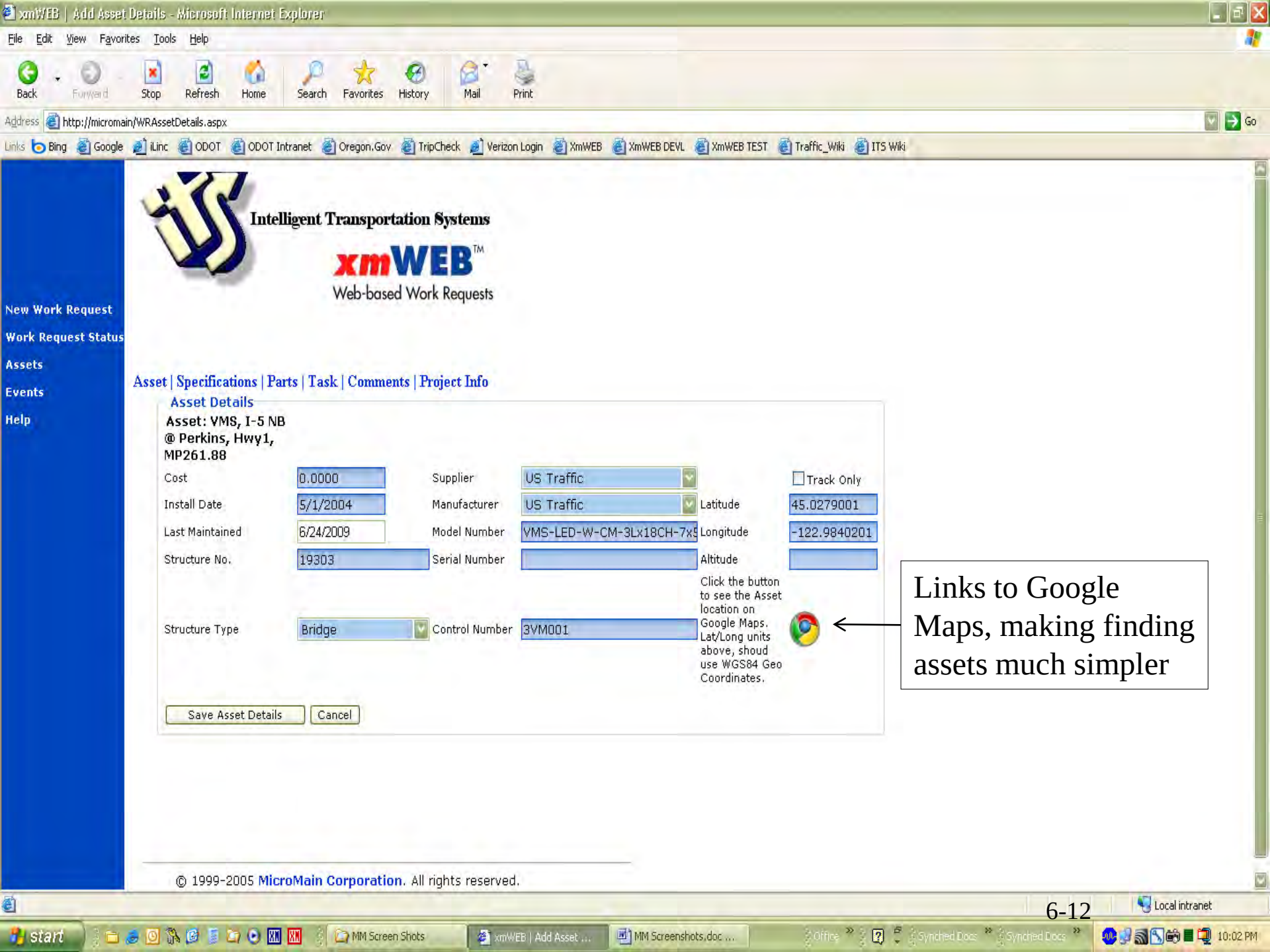
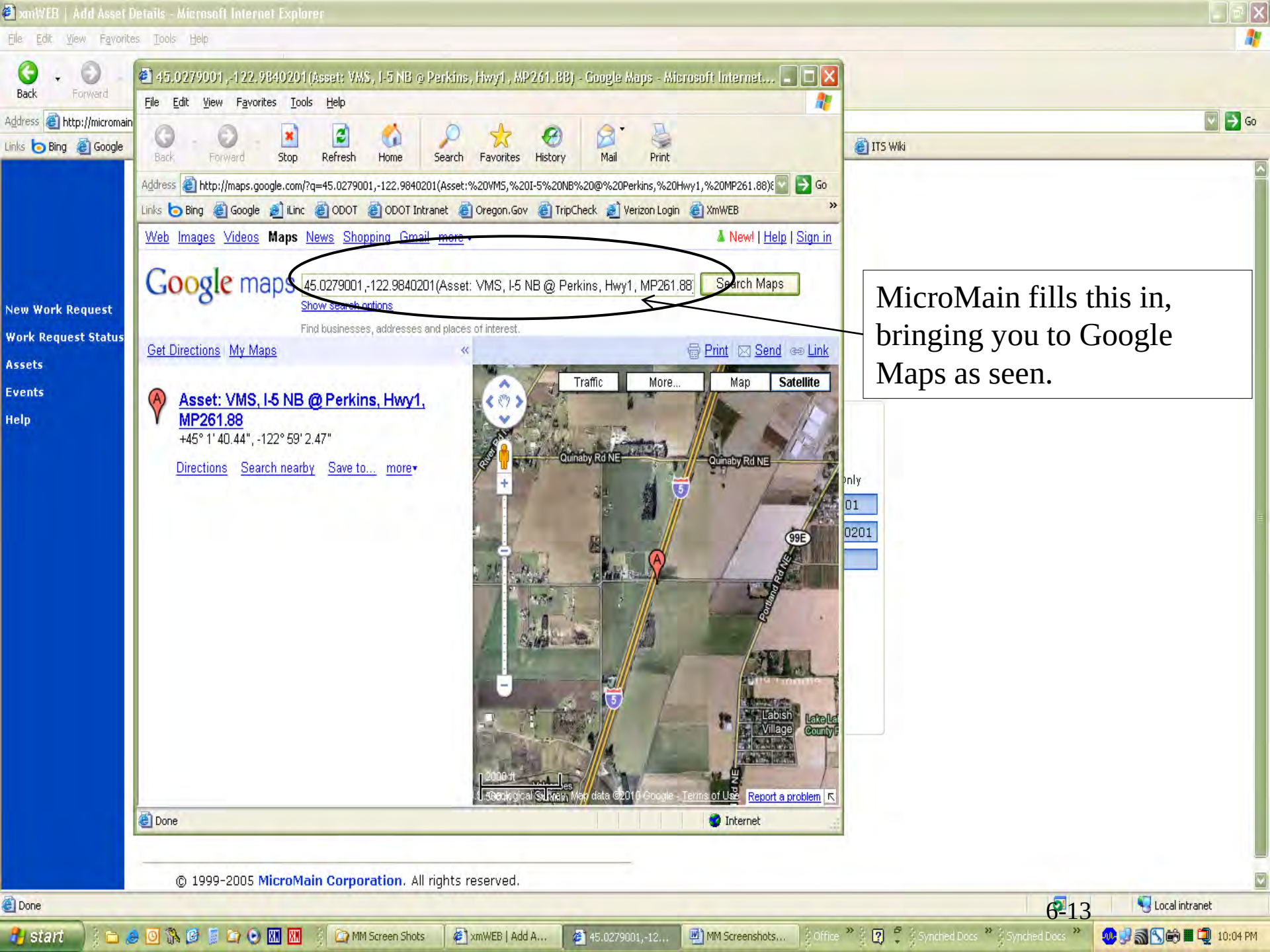
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM


xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB
@ Perkins, Hwy1,
MP261.88
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x5
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Save Asset Details
Cancel
© 1999-2005 MicroMain Corporation. All rights reserved.
Links to Google Maps, making finding assets much simpler
6-12
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM


MicroMain fills this in, bringing you to Google Maps as seen.
New Work Request
Work Request Status
Assets
Events
Help
Google maps
45.0279001,-122.9840201(Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Search Maps
Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88
+45° 1' 40.44", -122° 59' 2.47"
Directions
Search nearby
Save to...
more
Traffic
More...
Map
Satellite
Quinaby Rd NE
99E
Portland Rd NE
Labish Village
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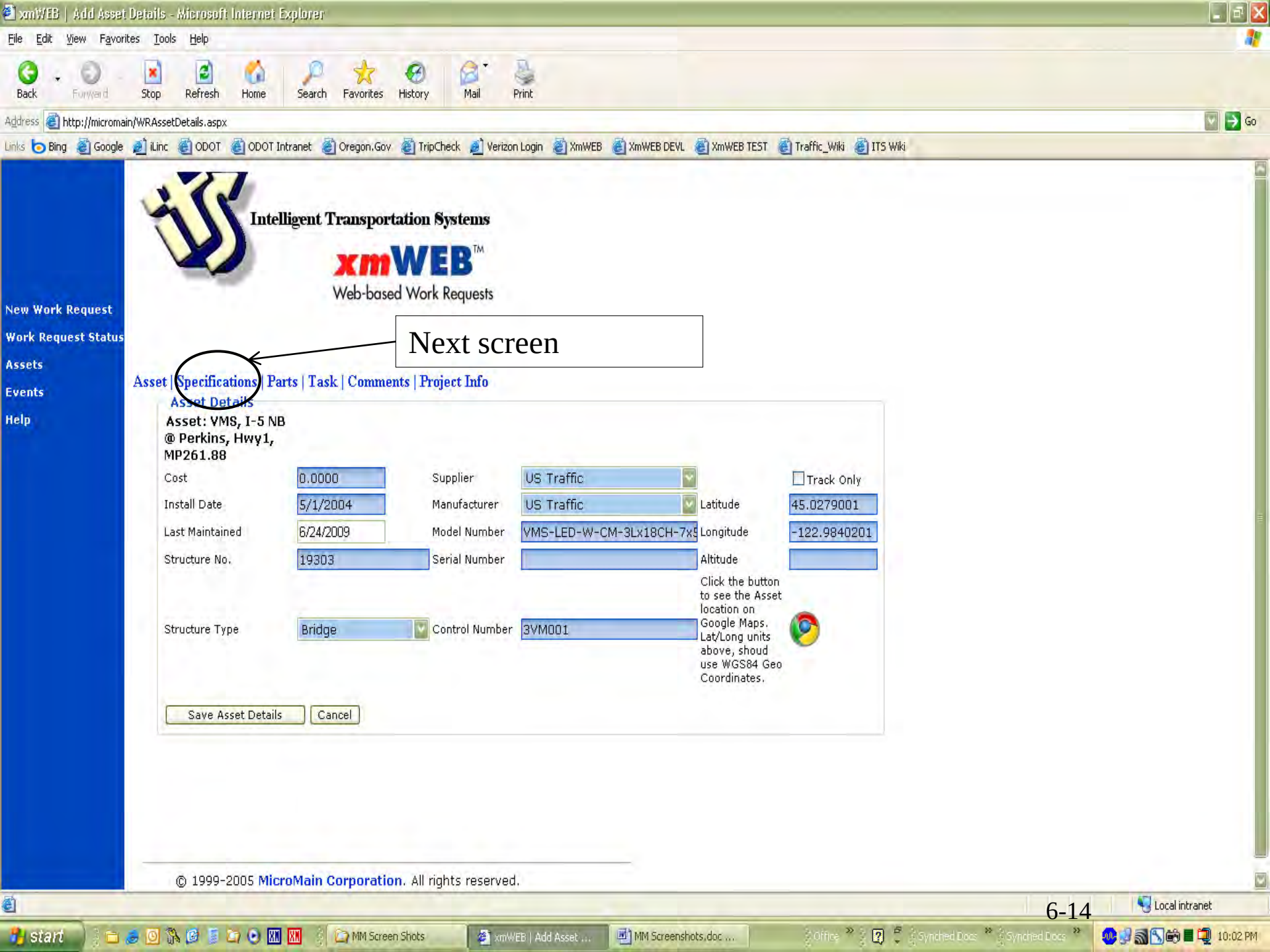
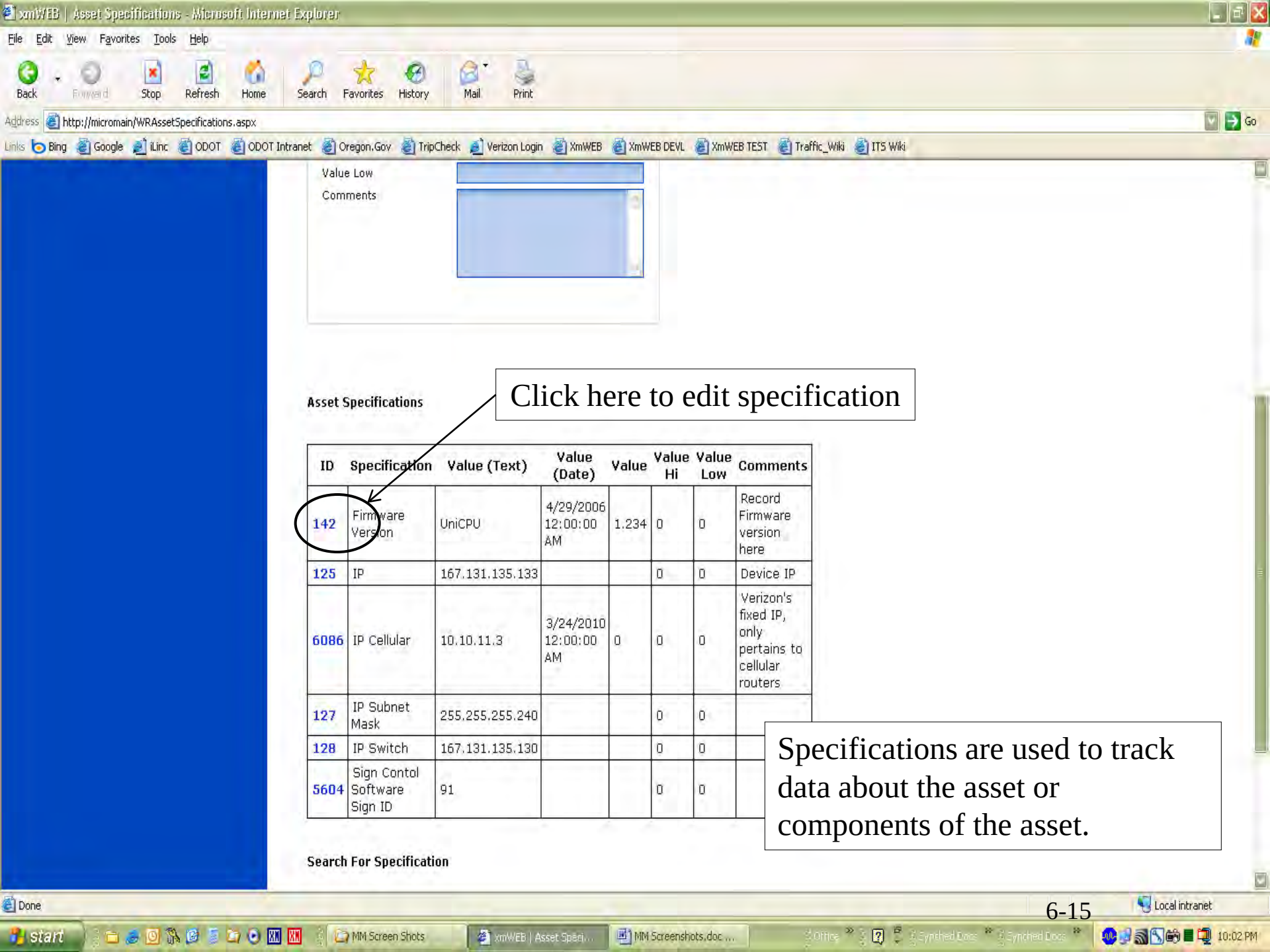
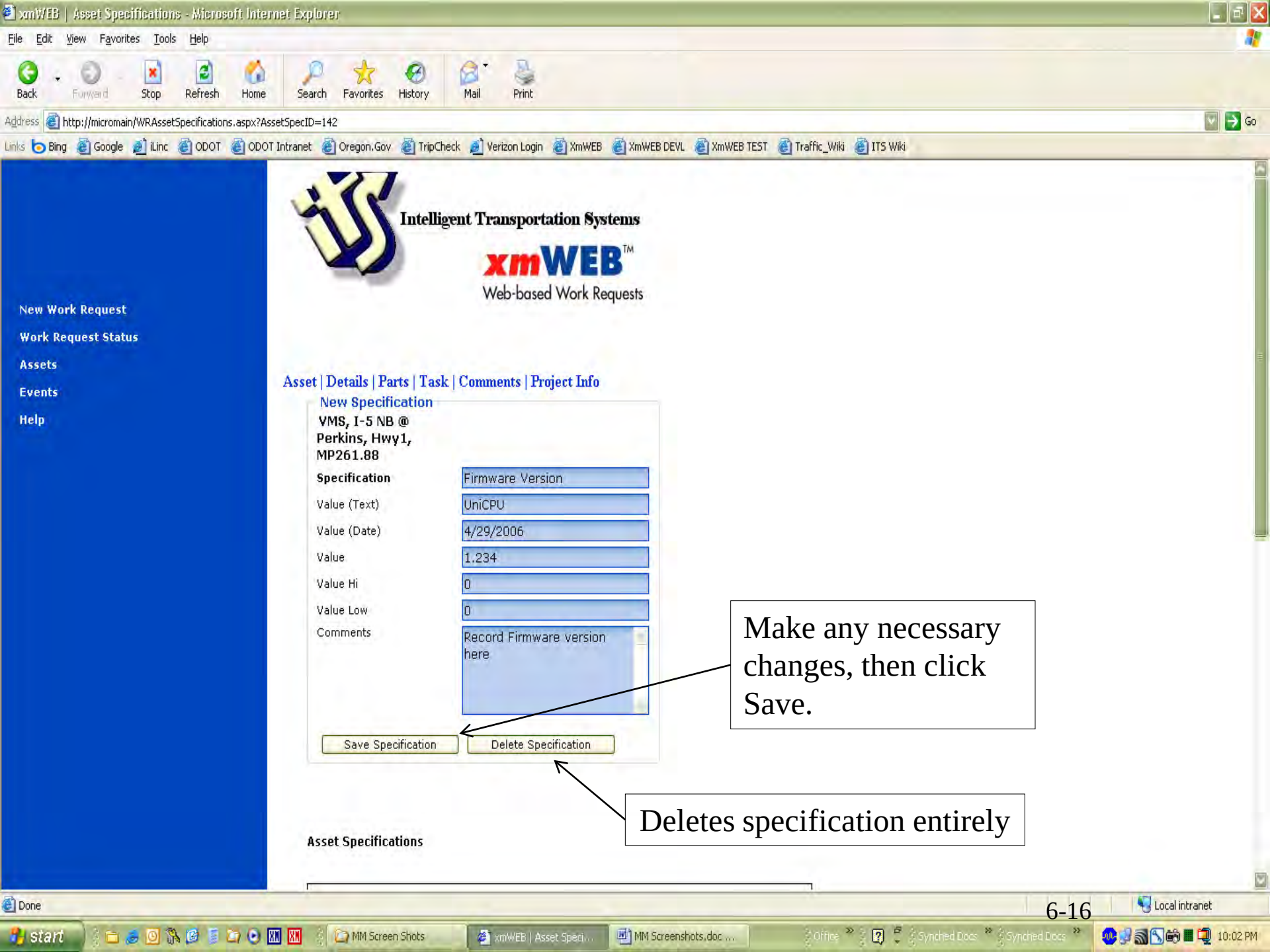
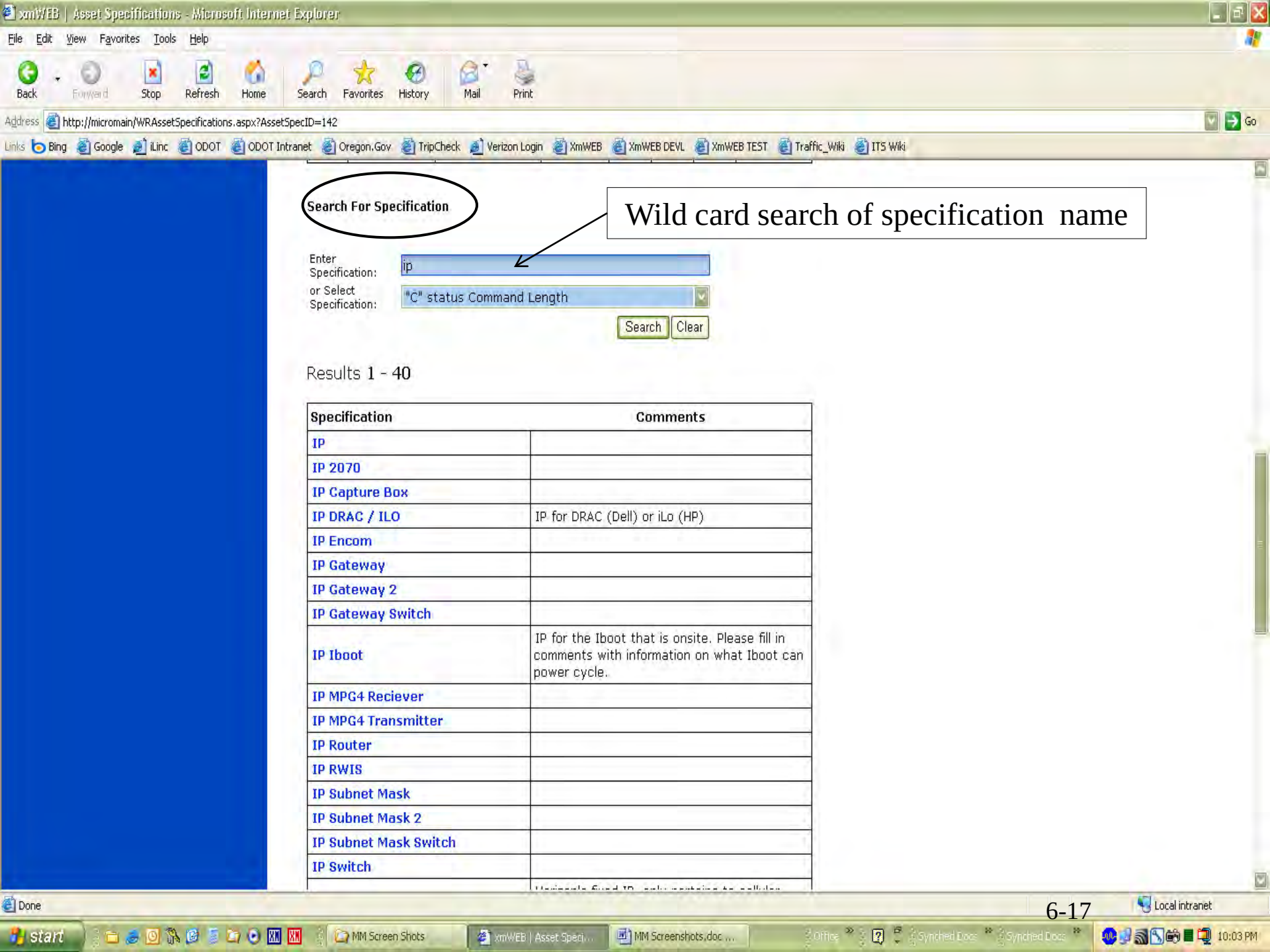
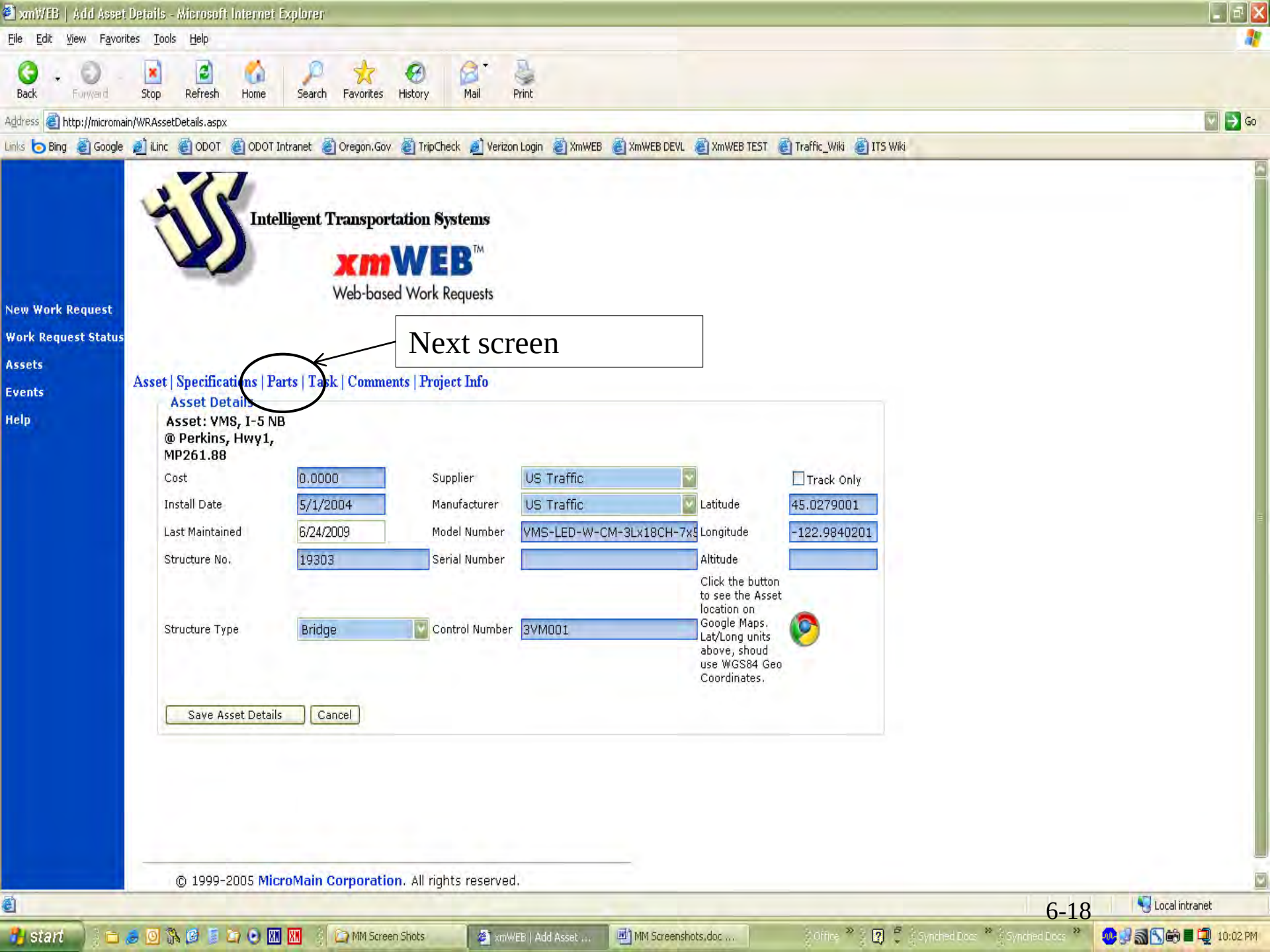
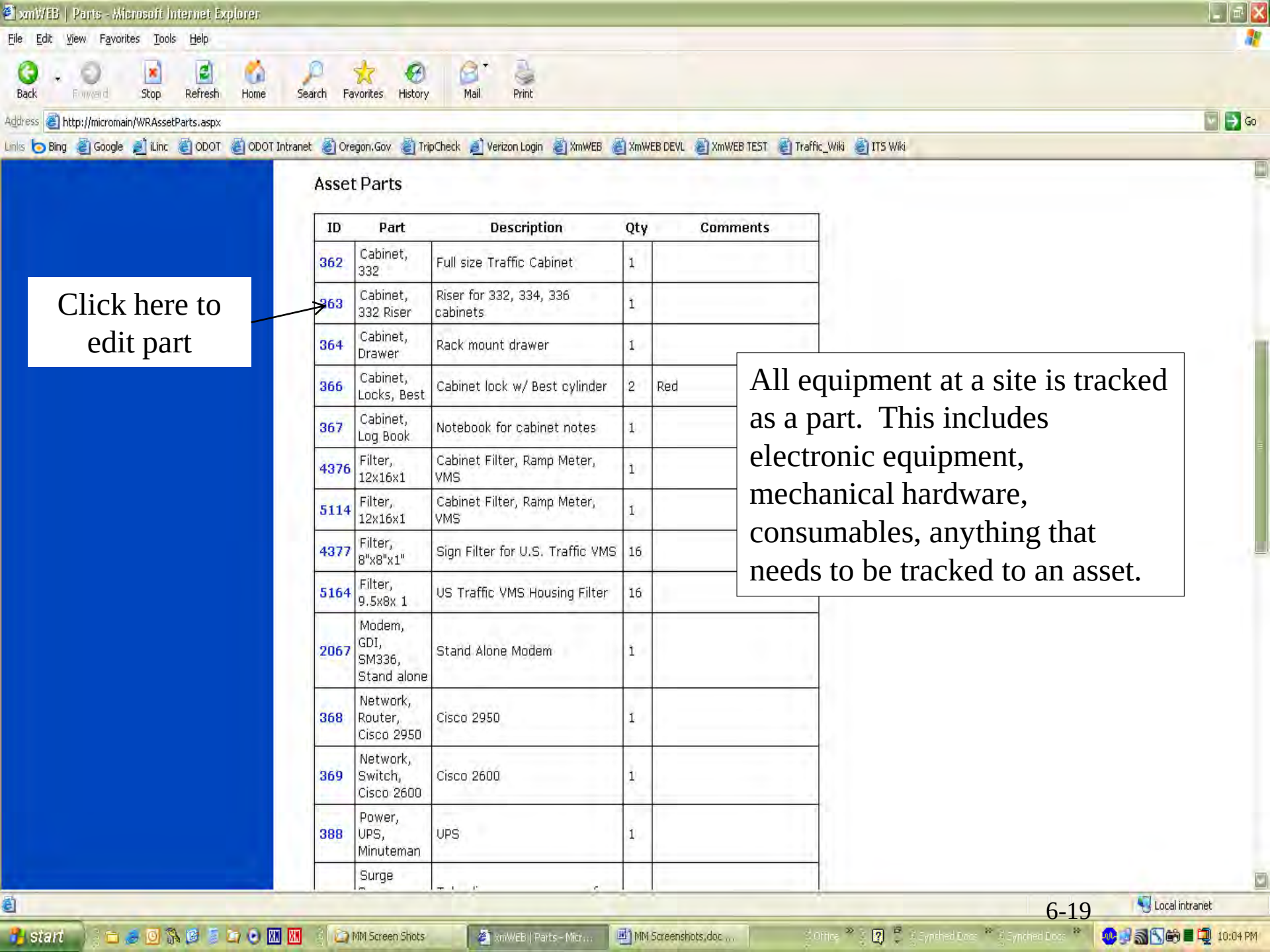

xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Next screen
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB
@ Perkins, Hwy1,
MP261.88
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x9
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Save Asset Details
Cancel
© 1999-2005 MicroMain Corporation. All rights reserved.
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM

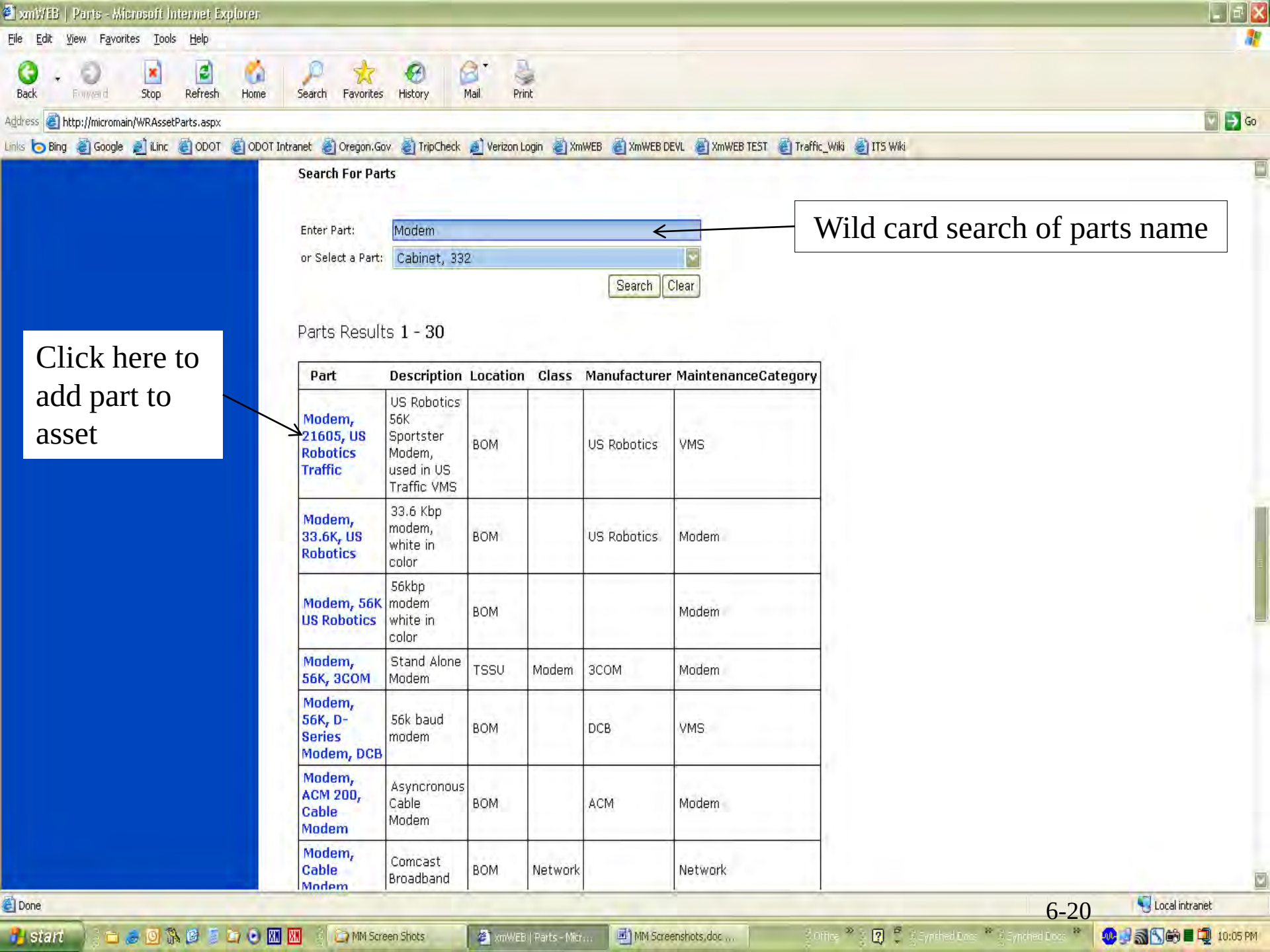

xmWEB | Asset Specifications - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetSpecifications.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Value Low
Comments
Asset Specifications
Click here to edit specification
ID Specification Value (Text) Value (Date) Value Value Hi Value Low Comments
142 Firmware Version UniCPU 4/29/2006 12:00:00 AM 1.234 0 0 Record Firmware version here
125 IP 167.131.135.133 0 0 Device IP
6086 IP Cellular 10.10.11.3 3/24/2010 12:00:00 AM 0 0 0 Verizon's fixed IP, only pertains to cellular routers
127 IP Subnet Mask 255.255.255.240 0 0
128 IP Switch 167.131.135.130 0 0
5604 Sign Contol Software Sign ID 91 0 0
Specifications are used to track data about the asset or components of the asset.
Search For Specification
Done
Local intranet
start
MM Screen Shots
xmWEB | Asset Speci...
MM Screenshots.doc ...
10:02 PM

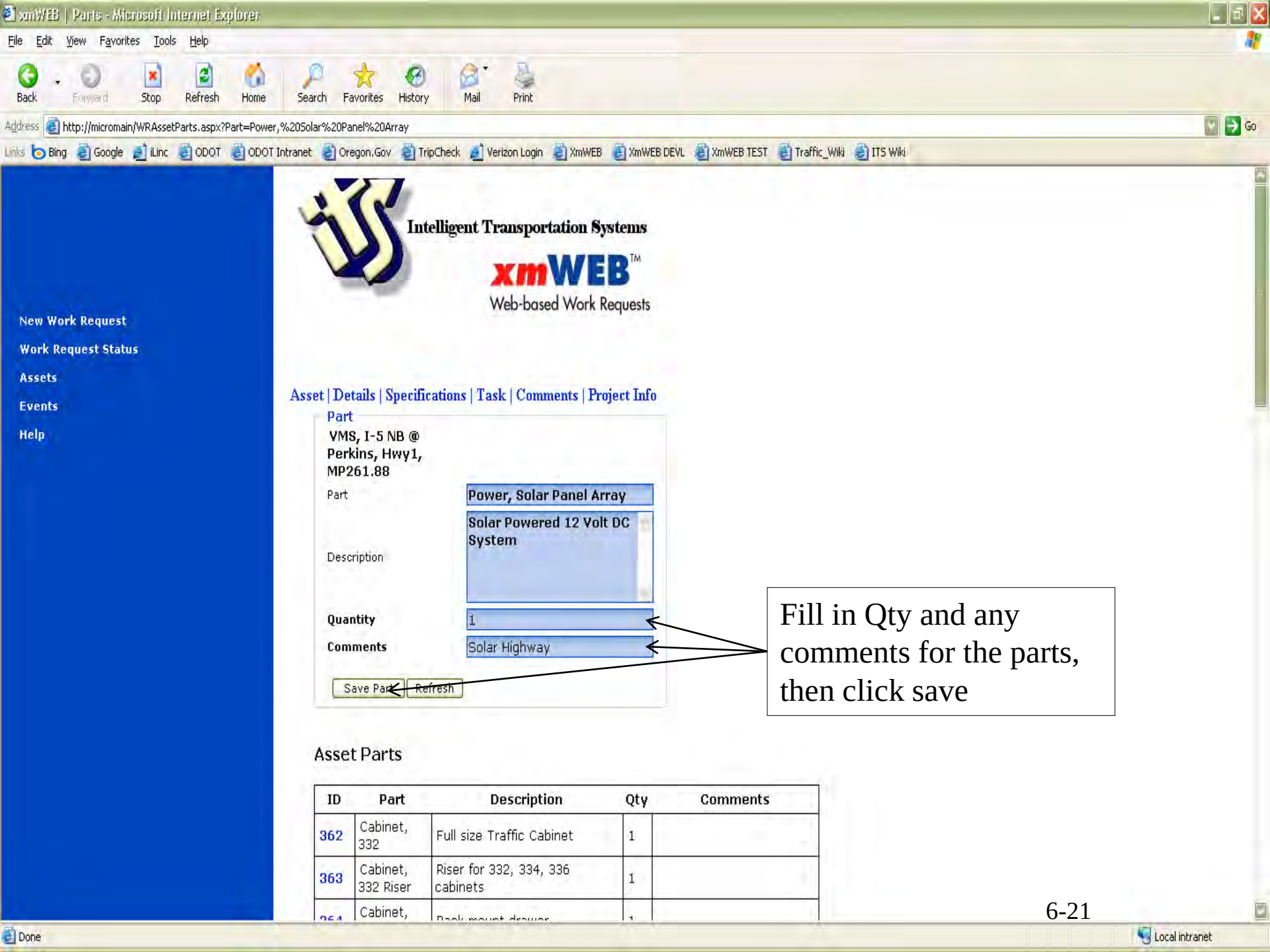

xmWEB | Asset Specifications - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetSpecifications.aspx?AssetSpecID=142
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset | Details | Parts | Task | Comments | Project Info
New Specification
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Specification
Firmware Version
Value (Text)
UniCPU
Value (Date)
4/29/2006
Value
1.234
Value Hi
0
Value Low
0
Comments
Record Firmware version here
Save Specification
Delete Specification
Make any necessary changes, then click Save.
Deletes specification entirely
Asset Specifications
Done
Local intranet
start
MM Screen Shots
xmWEB | Asset Speci...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM

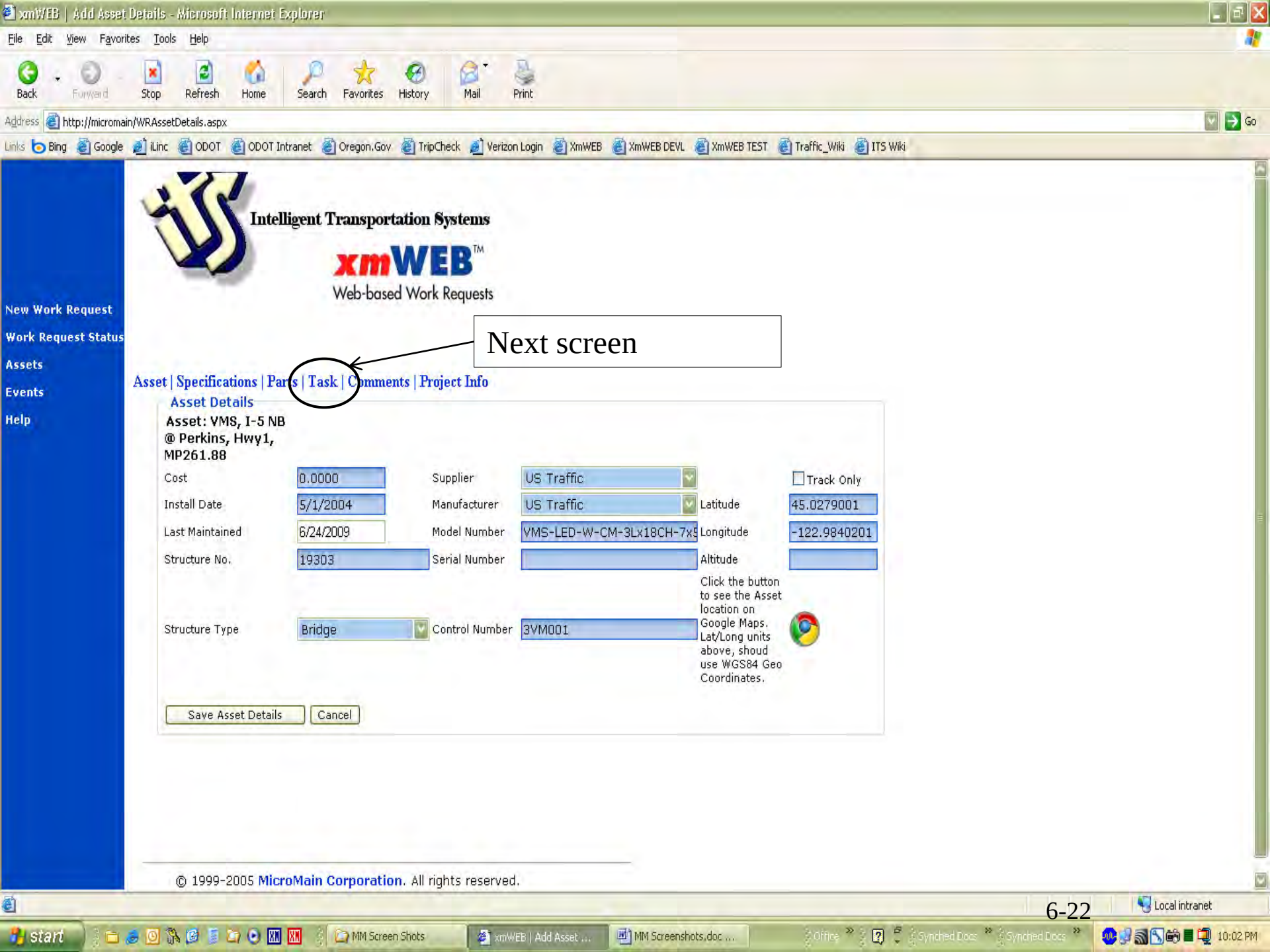

xmWEB | Asset Specifications - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetSpecifications.aspx?AssetSpecID=142
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Search For Specification
Wild card search of specification name
Enter Specification:
ip
or Select Specification:
"C" status Command Length
Search
Clear
Results 1 - 40
Specification
Comments
IP
IP 2070
IP Capture Box
IP DRAC / ILO
IP for DRAC (Dell) or iLo (HP)
IP Encom
IP Gateway
IP Gateway 2
IP Gateway Switch
IP Iboot
IP for the Iboot that is onsite. Please fill in comments with information on what Iboot can power cycle.
IP MPG4 Reciever
IP MPG4 Transmitter
IP Router
IP RWIS
IP Subnet Mask
IP Subnet Mask 2
IP Subnet Mask Switch
IP Switch
Done
Local intranet
start
MM Screen Shots
xmWEB | Asset Speci...
MM Screenshots.doc ...
10:03 PM

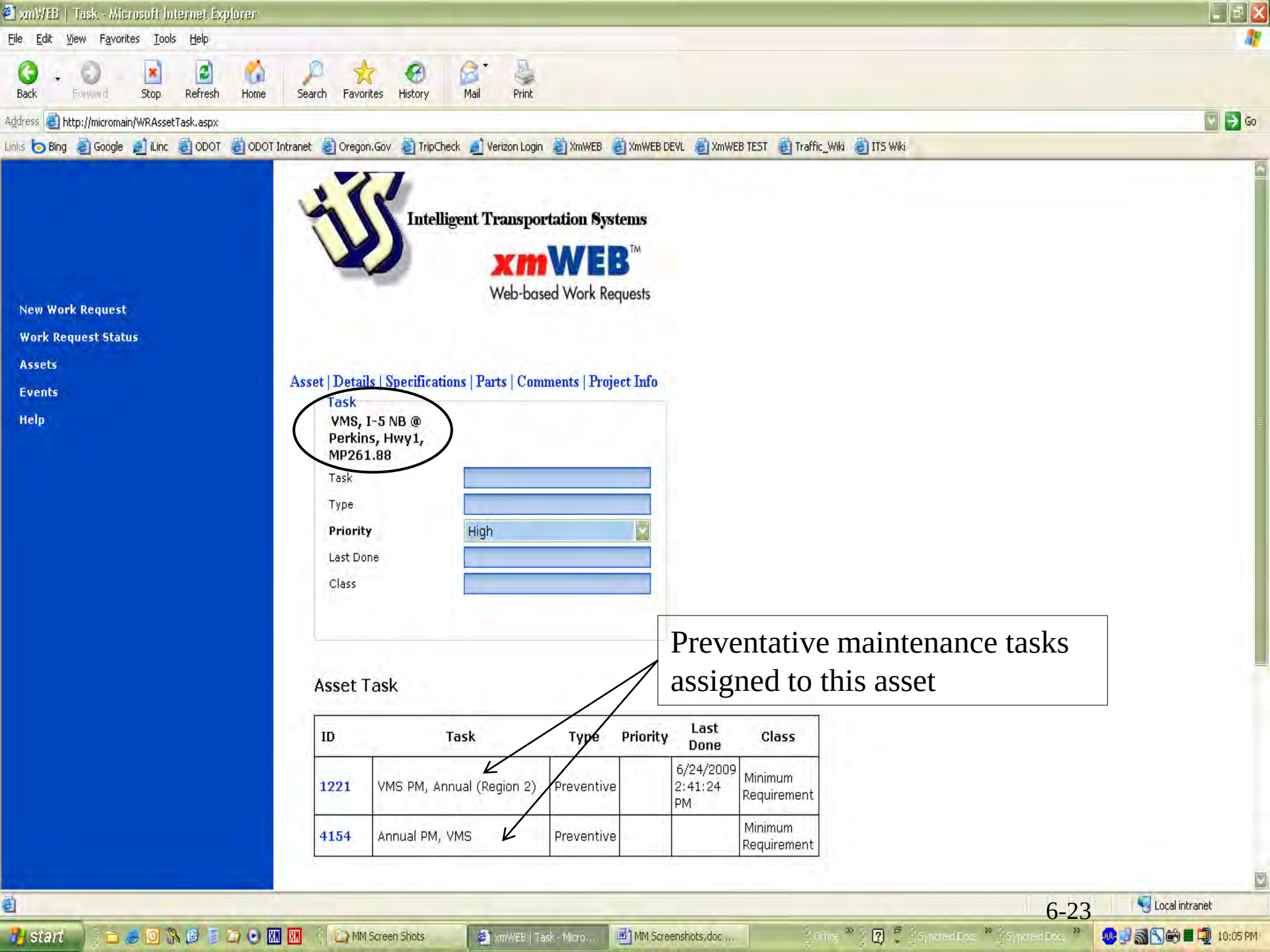

xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Next screen
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x5
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Save Asset Details
Cancel
© 1999-2005 MicroMain Corporation. All rights reserved.
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM

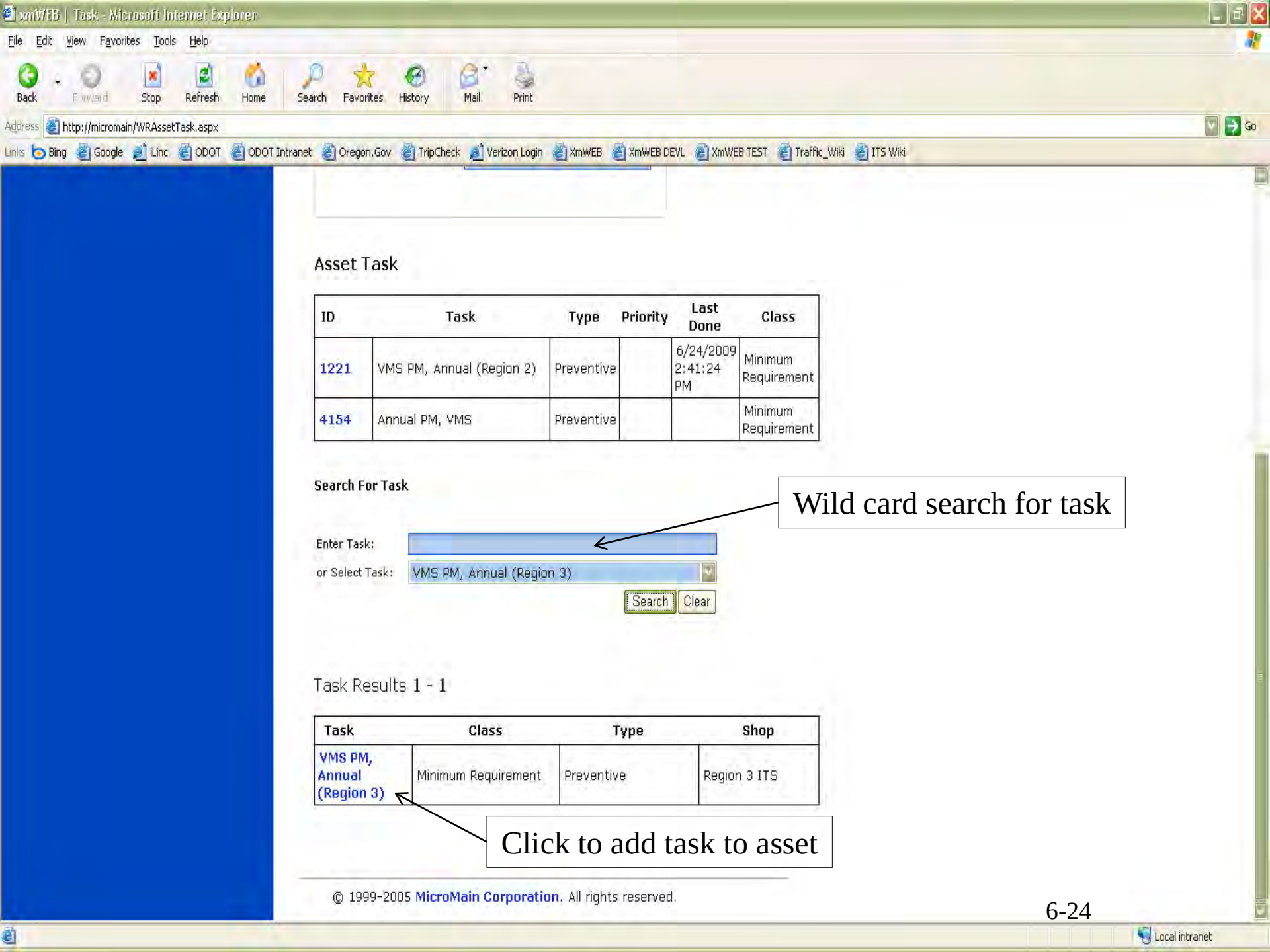

xmWEB | Parts - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetParts.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Asset Parts
ID Part Description Qty Comments
362 Cabinet, 332 Full size Traffic Cabinet 1
363 Cabinet, 332 Riser Riser for 332, 334, 336 cabinets 1
364 Cabinet, Drawer Rack mount drawer 1
366 Cabinet, Locks, Best Cabinet lock w/ Best cylinder 2 Red
367 Cabinet, Log Book Notebook for cabinet notes 1
4376 Filter, 12x16x1 Cabinet Filter, Ramp Meter, VMS 1
5114 Filter, 12x16x1 Cabinet Filter, Ramp Meter, VMS 1
4377 Filter, 8"x8"x1" Sign Filter for U.S. Traffic VMS 16
5164 Filter, 9.5x8x 1 US Traffic VMS Housing Filter 16
2067 Modem, GDI, SM336, Stand alone Stand Alone Modem 1
368 Network, Router, Cisco 2950 Cisco 2950 1
369 Network, Switch, Cisco 2600 Cisco 2600 1
388 Power, UPS, Minuteman UPS 1
Surge
Click here to edit part
All equipment at a site is tracked as a part. This includes electronic equipment, mechanical hardware, consumables, anything that needs to be tracked to an asset.
Local intranet
start
MM Screen Shots
xmWEB | Parts - Micr...
MM Screenshots.doc ...
10:04 PM


xmWEB | Parts - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetParts.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Search For Parts
Enter Part: Modem
or Select a Part: Cabinet, 332
Search Clear
Wild card search of parts name
Click here to add part to asset
Parts Results 1 - 30
Part | Description | Location | Class | Manufacturer | MaintenanceCategory
Modem, 21605, US Robotics Traffic | US Robotics 56K Sportster Modem, used in US Traffic VMS | BOM | | US Robotics | VMS
Modem, 33.6K, US Robotics | 33.6 Kbp modem, white in color | BOM | | US Robotics | Modem
Modem, 56K US Robotics | 56kbp modem white in color | BOM | | | Modem
Modem, 56K, 3COM | Stand Alone Modem | TSSU | Modem | 3COM | Modem
Modem, 56K, D-Series Modem, DCB | 56k baud modem | BOM | | DCB | VMS
Modem, ACM 200, Cable Modem | Asyncronous Cable Modem | BOM | | ACM | Modem
Modem, Cable Modem | Comcast Broadband | BOM | Network | | Network
Done
Local intranet
start
MM Screen Shots
xmWEB | Parts - Micr...
MM Screenshots.doc ...
10:05 PM


xmWEB | Parts - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetParts.aspx?Part=Power,%20Solar%20Panel%20Array
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
New Work Request
Work Request Status
Assets
Events
Help
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
Asset | Details | Specifications | Task | Comments | Project Info
Part
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Part
Power, Solar Panel Array
Description
Solar Powered 12 Volt DC System
Quantity
1
Comments
Solar Highway
Save Part
Refresh
Fill in Qty and any comments for the parts, then click save
Asset Parts
ID
Part
Description
Qty
Comments
362
Cabinet, 332
Full size Traffic Cabinet
1
363
Cabinet, 332 Riser
Riser for 332, 334, 336 cabinets
1
Cabinet,
Done
Local intranet


xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Next screen
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x5
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Save Asset Details
Cancel
© 1999-2005 MicroMain Corporation. All rights reserved.
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM


xmWEB | Task - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetTask.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset | Details | Specifications | Parts | Comments | Project Info
Task
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Task
Type
Priority
High
Last Done
Class
Asset Task
ID
Task
Type
Priority
Last Done
Class
1221
VMS PM, Annual (Region 2)
Preventive
6/24/2009 2:41:24 PM
Minimum Requirement
4154
Annual PM, VMS
Preventive
Minimum Requirement
Preventative maintenance tasks assigned to this asset
6-23
Local intranet
start
MM Screen Shots
xmWEB | Task - Micro...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:05 PM


xmWEB | Task - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetTask.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Asset Task
ID
Task
Type
Priority
Last Done
Class
1221
VMS PM, Annual (Region 2)
Preventive
6/24/2009 2:41:24 PM
Minimum Requirement
4154
Annual PM, VMS
Preventive
Minimum Requirement
Search For Task
Wild card search for task
Enter Task:
or Select Task:
VMS PM, Annual (Region 3)
Search
Clear
Task Results 1 - 1
Task
Class
Type
Shop
VMS PM, Annual (Region 3)
Minimum Requirement
Preventive
Region 3 ITS
Click to add task to asset
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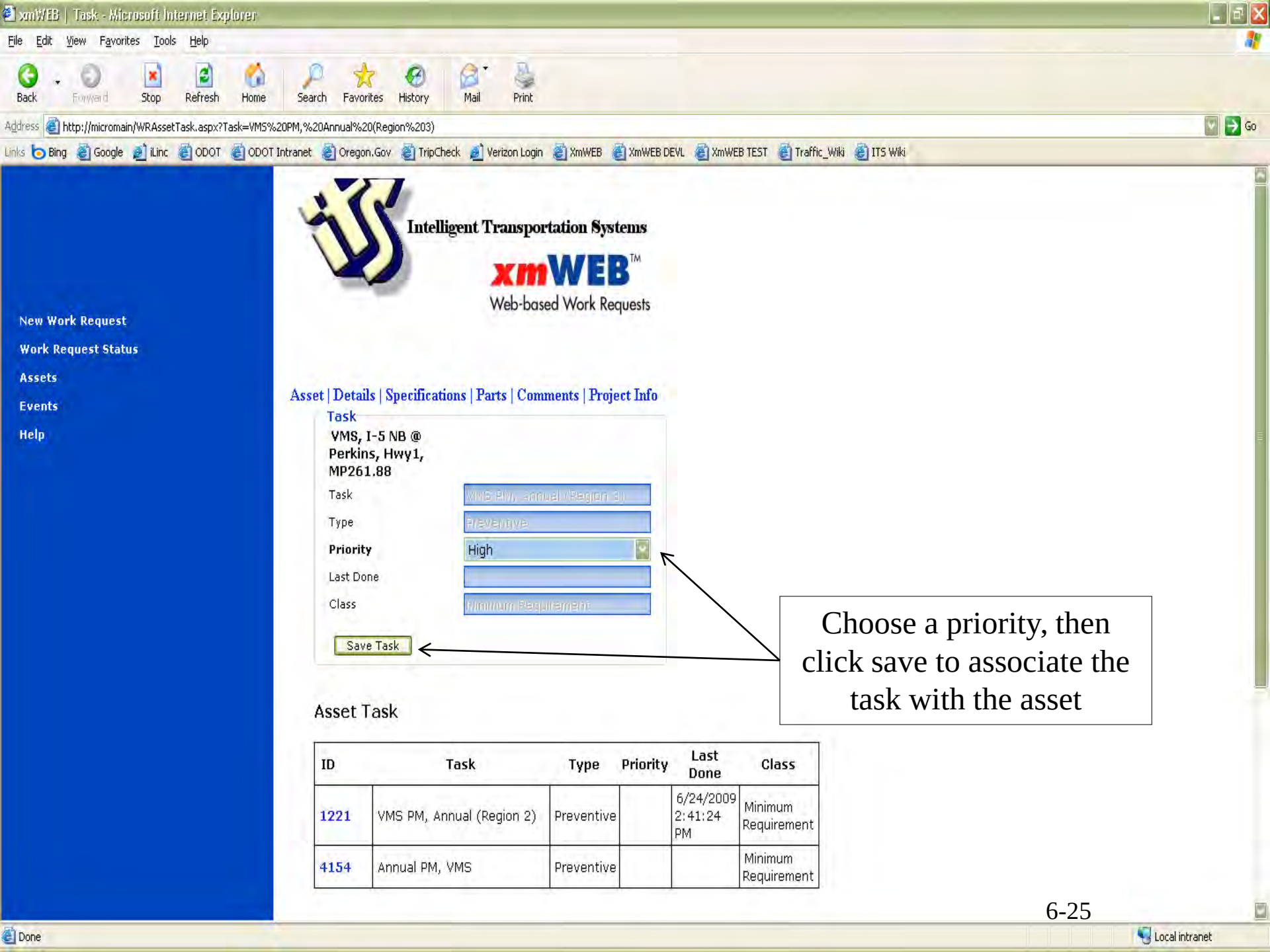
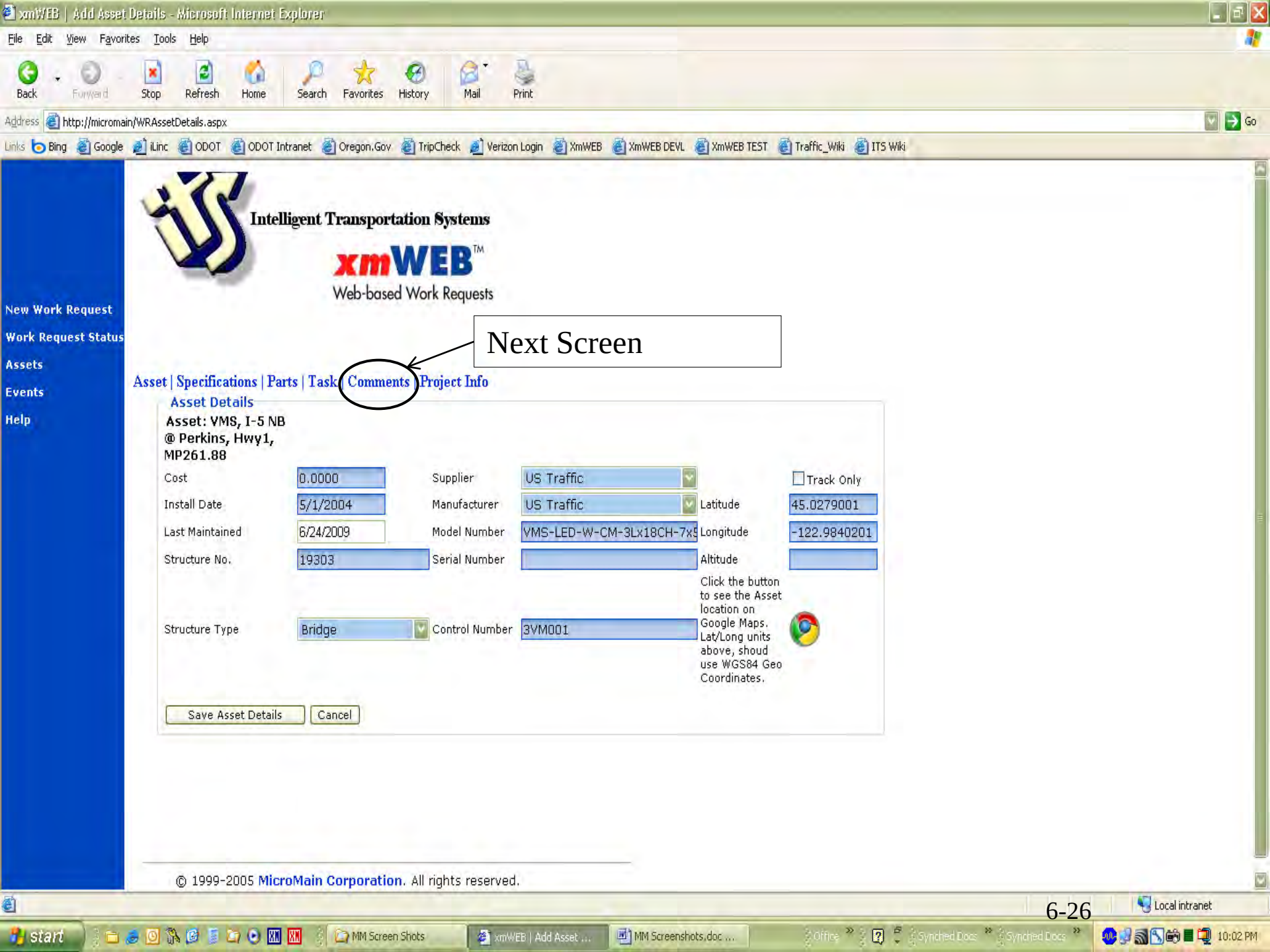
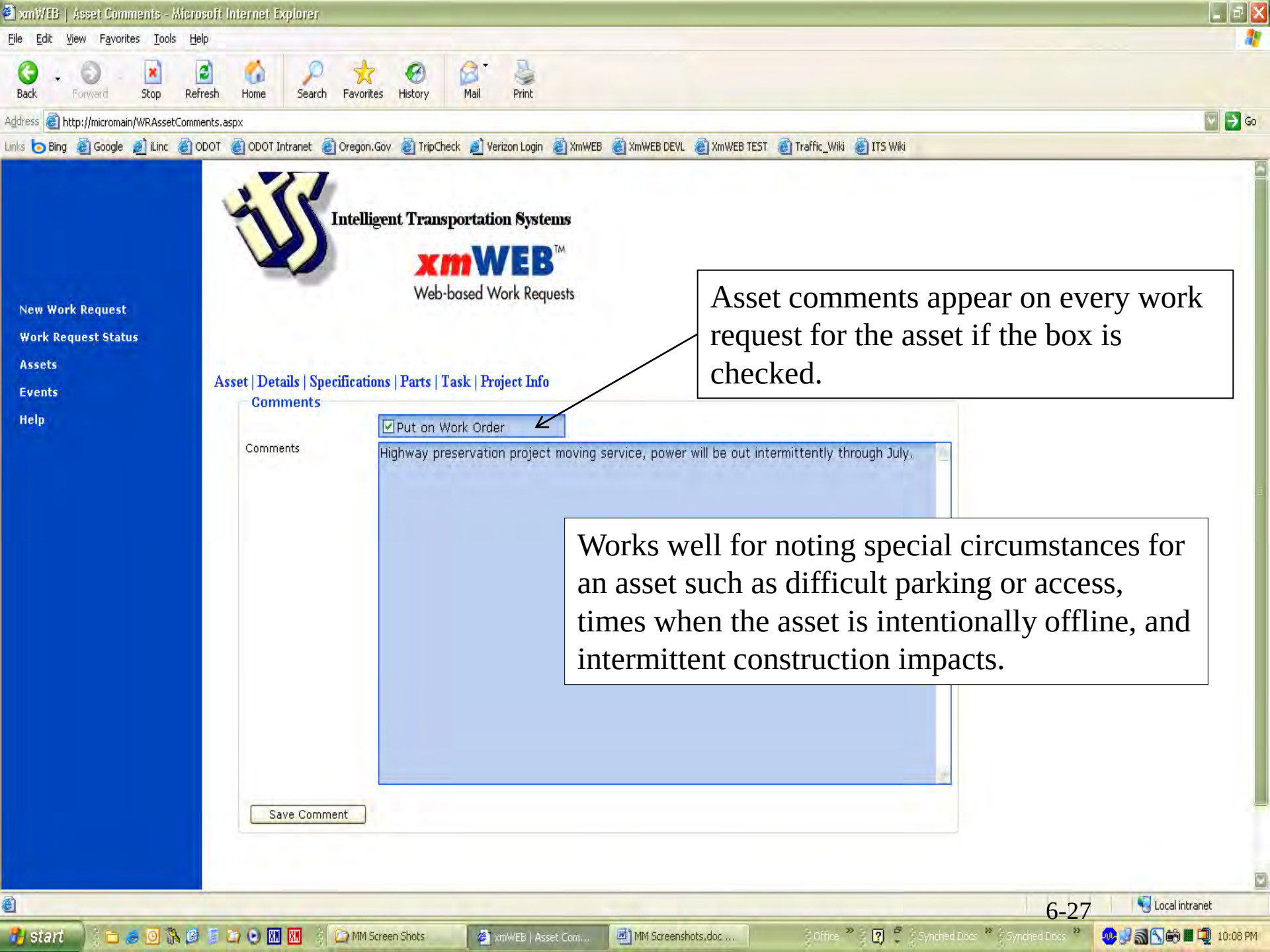
Local intranet


xmWEB | Task - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetTask.aspx?Task=VMS%20PM,%20Annual%20(Region%203)
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
New Work Request
Work Request Status
Assets
Events
Help
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
Asset | Details | Specifications | Parts | Comments | Project Info
Task
VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Task
Type
Preventive
Priority
High
Last Done
Class
Minimum Requirement
Save Task
Choose a priority, then click save to associate the task with the asset
Asset Task
ID
Task
Type
Priority
Last Done
Class
1221
VMS PM, Annual (Region 2)
Preventive
6/24/2009 2:41:24 PM
Minimum Requirement
4154
Annual PM, VMS
Preventive
Minimum Requirement
Done
Local intranet


xmWEB | Add Asset Details - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetDetails.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Next Screen
Asset | Specifications | Parts | Task | Comments | Project Info
Asset Details
Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88
Cost 0.0000
Supplier US Traffic
Track Only
Install Date 5/1/2004
Manufacturer US Traffic
Latitude 45.0279001
Last Maintained 6/24/2009
Model Number VMS-LED-W-CM-3Lx18CH-7x5
Longitude -122.9840201
Structure No. 19303
Serial Number
Altitude
Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.
Structure Type Bridge
Control Number 3VM001
Save Asset Details
Cancel
© 1999-2005 MicroMain Corporation. All rights reserved.
Local intranet
start
MM Screen Shots
xmWEB | Add Asset ...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:02 PM


xmWEB | Asset Comments - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetComments.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset | Details | Specifications | Parts | Task | Project Info
Comments
Put on Work Order
Comments
Highway preservation project moving service, power will be out intermittently through July.
Save Comment
Asset comments appear on every work request for the asset if the box is checked.
Works well for noting special circumstances for an asset such as difficult parking or access, times when the asset is intentionally offline, and intermittent construction impacts.
Local intranet
start
MM Screen Shots
xmWEB | Asset Com...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:08 PM

xmWEB | Add Asset Details - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print

Address http://micromain/WRAssetDetails.aspx Go

Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki

Intelligent Transportation Systems

xmWEB™

Web-based Work Requests

- New Work Request
- Work Request Status
- Assets
- Events
- Help

Next screen

Asset | Specifications | Parts | Task | Comments | Project Info

Asset Details

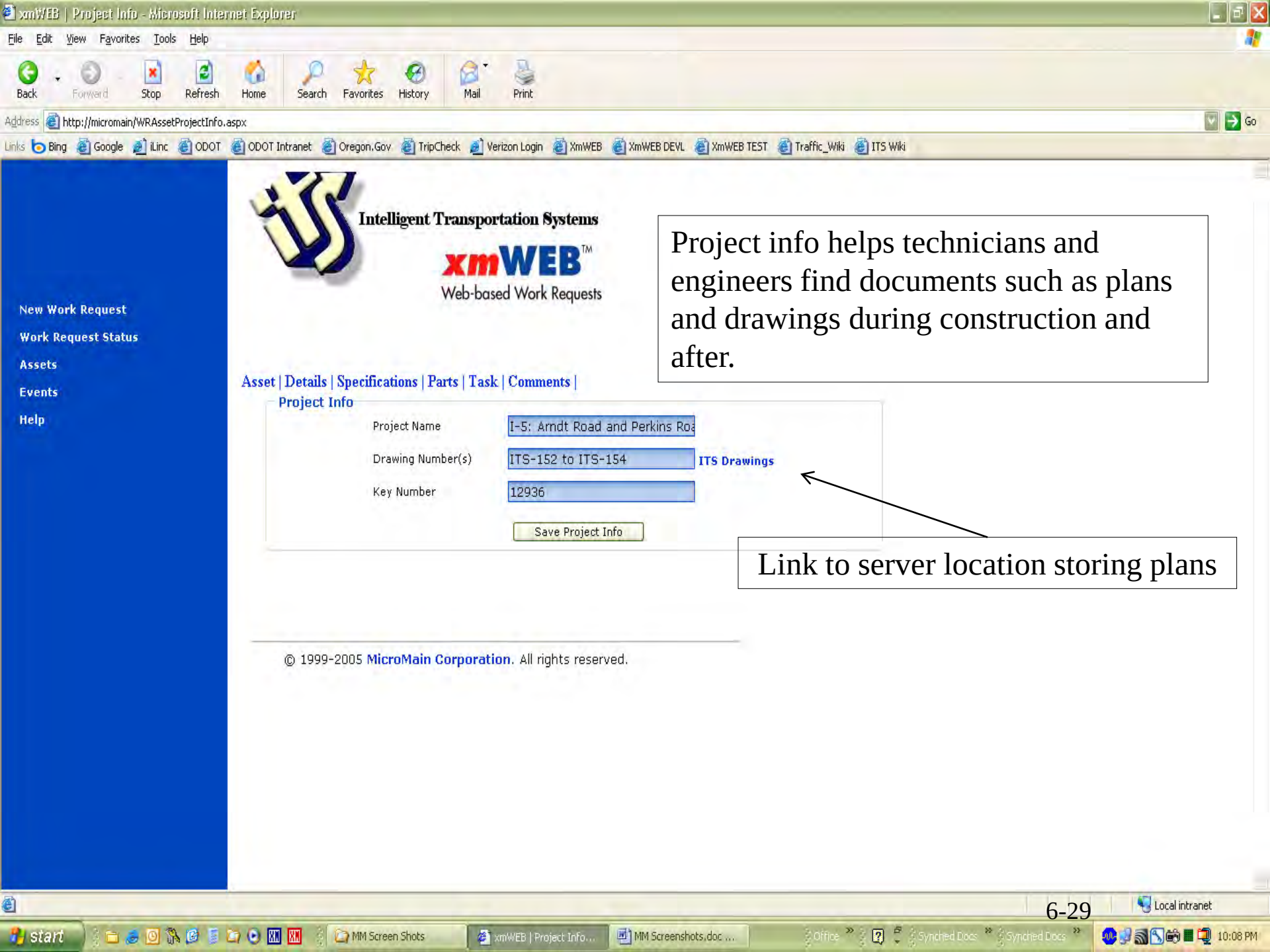
Asset: VMS, I-5 NB @ Perkins, Hwy1, MP261.88

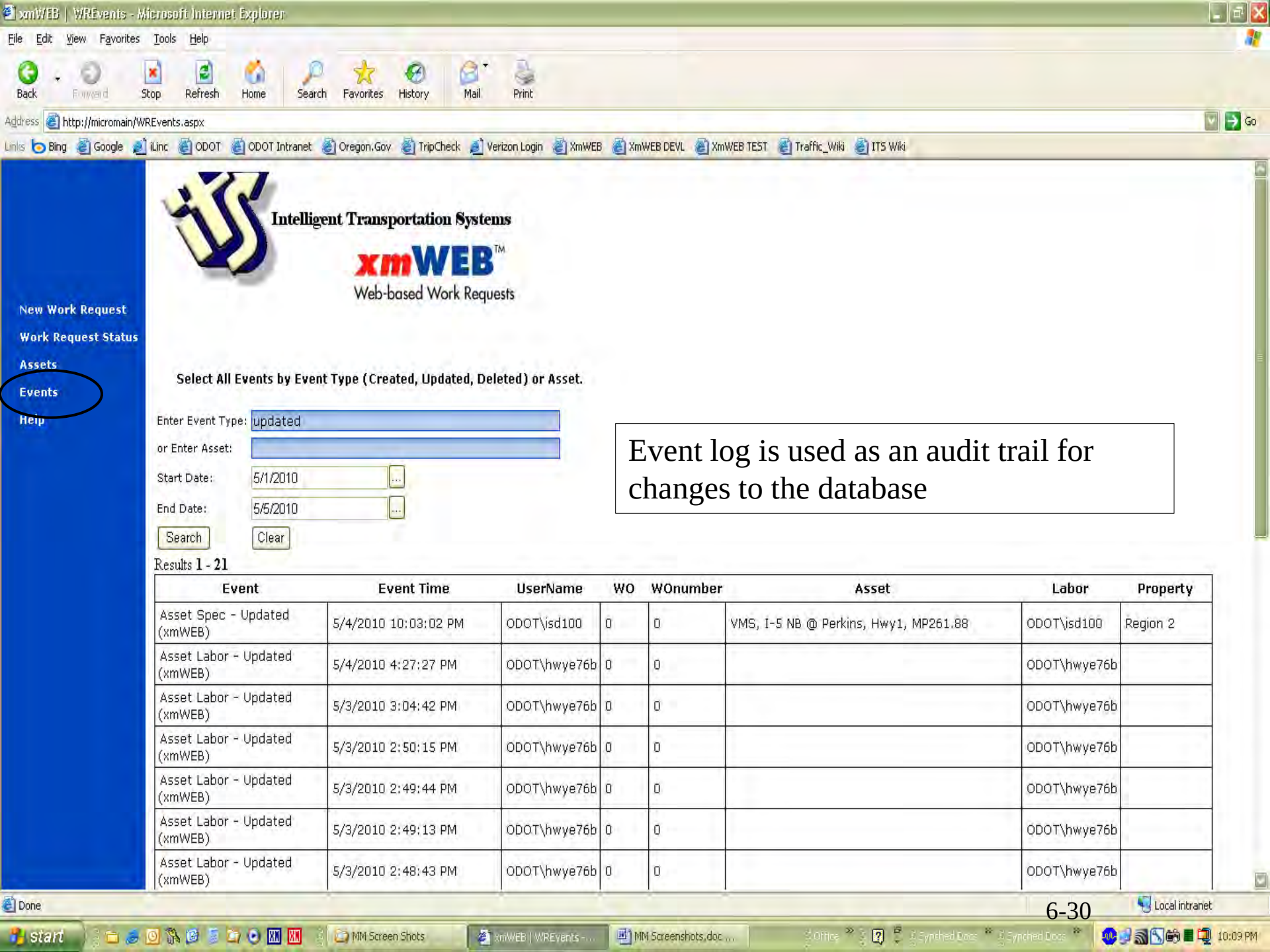
Cost	0.0000	Supplier	US Traffic		Track Only
Install Date	5/1/2004	Manufacturer	US Traffic	Latitude	45.0279001
Last Maintained	6/24/2009	Model Number	VMS-LED-W-CM-3Lx18CH-7x9	Longitude	-122.9840201
Structure No.	19303	Serial Number		Altitude	
Structure Type	Bridge	Control Number	3VM001	Click the button to see the Asset location on Google Maps. Lat/Long units above, shoud use WGS84 Geo Coordinates.	

Save Asset Details Cancel

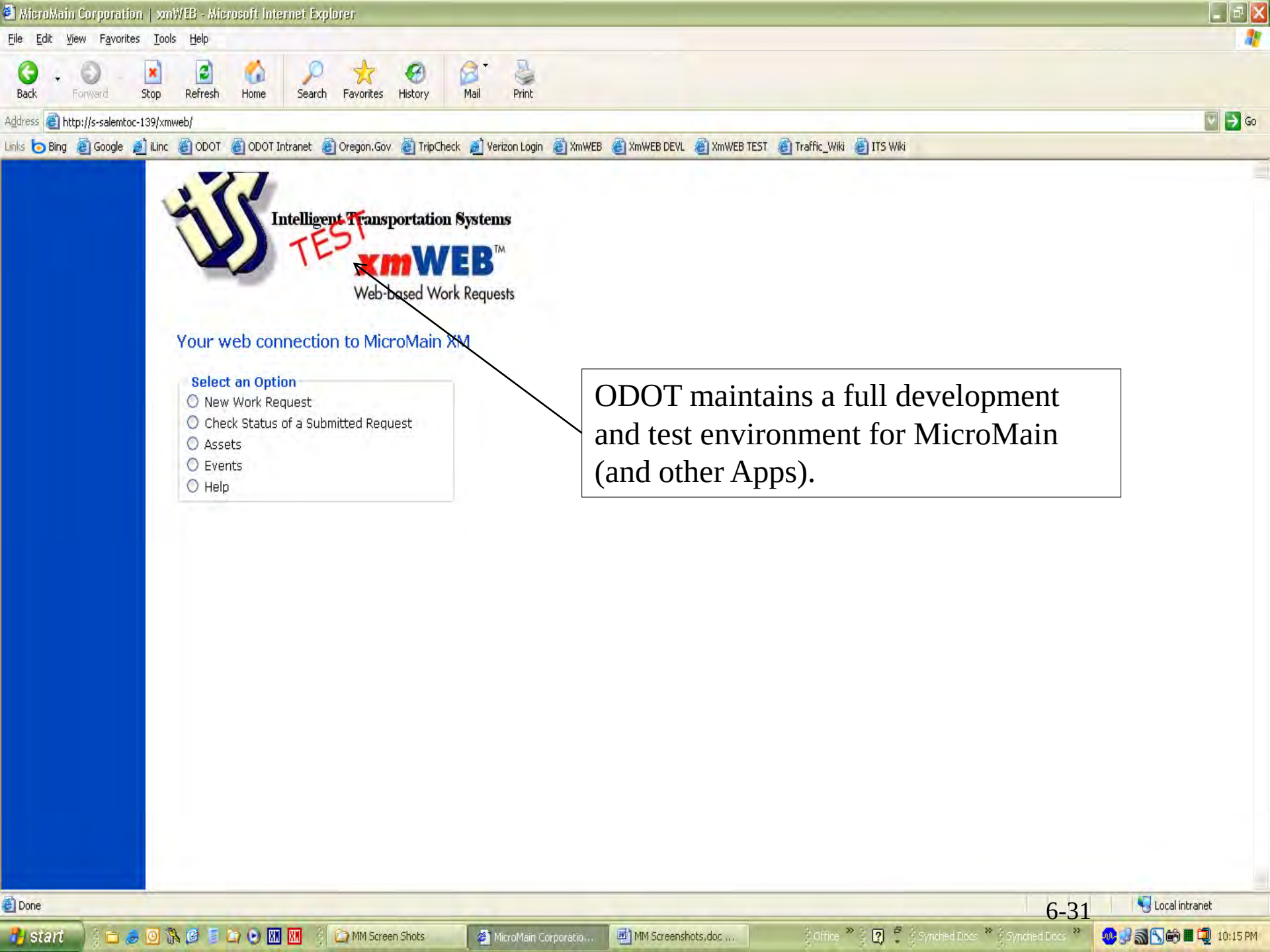
Local intranet

start MM Screen Shots xmWEB | Add Asset ... MM Screenshots.doc ... Office Synched Docs Synched Docs 10:02 PM


xmWEB | Project Info - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
Address http://micromain/WRAssetProjectInfo.aspx
Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
xmWEB™
Web-based Work Requests
New Work Request
Work Request Status
Assets
Events
Help
Asset | Details | Specifications | Parts | Task | Comments |
Project Info
Project Name
I-5: Arndt Road and Perkins Ro
Drawing Number(s)
ITS-152 to ITS-154
ITS Drawings
Key Number
12936
Save Project Info
© 1999-2005 MicroMain Corporation. All rights reserved.
Project info helps technicians and engineers find documents such as plans and drawings during construction and after.
Link to server location storing plans
6-29
Local intranet
start
MM Screen Shots
xmWEB | Project Info...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:08 PM



Event log is used as an audit trail for changes to the database


MicroMain Corporation | xmWEB - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print
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Links Bing Google iLinc ODOT ODOT Intranet Oregon.Gov TripCheck Verizon Login XmWEB XmWEB DEVL XmWEB TEST Traffic_Wiki ITS Wiki
Intelligent Transportation Systems
TEST
xmWEB™
Web-based Work Requests
Your web connection to MicroMain XM
Select an Option
New Work Request
Check Status of a Submitted Request
Assets
Events
Help
ODOT maintains a full development and test environment for MicroMain (and other Apps).
Done
Local intranet
start
MM Screen Shots
MicroMain Corporatio...
MM Screenshots.doc ...
Office
Synched Docs
Synched Docs
10:15 PM

Conclusion

- Challenges Addressed
- Successful Design Decisions
- Areas ODOT Could Improve
- Areas to Avoid
- Lessons Learned

Challenges Addressed

- Work Flow & Request Process
- Communication of Work Request Status and Prioritization
- Coordination of Effort
- Workload Prioritization
- Preventative Maintenance Scheduling and Tracking
- Change Notification
- Micromain (and our adherence to standards) helps make statewide after hours support possible.

Challenges Addressed

- Asset Inventory Management
- Asset Repair History
- Asset Prioritization
- Asset Condition Rating
- Asset Expenditure Account Tracking

Successful CMMS Design Decisions

- Very simple, fast Request For Work form
  - TOC
  - Technicians on the road
- Focusing on benefits to users in requirements phase
  - Timesheets
  - Asset work history
  - Asset info availability
- Naming convention designed for quick selection

Areas of Future Focus / Improvement

- Performance Measures
- Maintenance Cost Tracking
- Asset Inventory Detail
- Database Housekeeping

Areas to Avoid / Pitfalls

- PDA
  - Synchronization
  - PDA Table updates
  - Version conflict with client
- Barcode Reader
  - Printing barcodes
  - Web form much faster
- Spare Parts Management
  - Administration

Lessons Learned

- Use the Application's Business Rules
- Keep Modifications to a Minimum
- Maintain a Separate Test Environment

Naming Convention

MicroMain	Generic ODOT	Specific Example	Template [Required], {Optional}
Site	ODOT	ODOT	[Database Owner]
Property	Region	Region 1	[Logical Divisions]
Asset (Area)	District	District 2B	[Subdivisions]
Asset (Area)	Field Location	I-5 @	[Highway Name] @ [Nearest or Monument]
Asset(Equipment)	Camera	Camera, I-205 @ , Hwy64 MP19.1	[Asset Group], [Hwy Name] [Direction of Traffic Flow] @ [Nearest or Monument], {Hwy #}, {Milepoint}
Asset (Vehicle)	PVMS	PVMS, RE052900, P2-03-02	[Asset Class], [Vehicle ID], [Sign Designation]
Part	Part	RWIS, Flash Card, 6061-4042, 5025 ESP	[Asset Group], [Part Name], {Manufacturer part#}, {Firmware rev}