

Gatekeeper Systems

Mobile Work Orders System (MWO)

Software Product Description

The screenshot shows a software window titled "Inspections - Midas" with a menu bar (File, Lookup, Inspection, Status, Tools, Help) and a toolbar with icons for Receive, Send, font settings (Tahoma Bold, 10), and various action icons. Below the toolbar is a table titled "My Inspections" with the following columns: Project, Number, Type, Scheduled, and Proj. Location. The table contains 18 rows of inspection data, each with a small icon in the first column. At the bottom of the window, a status bar reads "278 data item(s) successfully read from server".

	Project	Number	Type	Scheduled	Proj. Location
	PALOMAR @ THE PASEOS	209299	ST03R	08/12/2004 07:00 ai	ALTA AND DESERT FOOTHILLS
	SUMMERLIN VILLAGE 19 - DESERT FOOTHILLS DR SE	206838	ST03C	08/12/2004 06:30 ai	DESERT FOOTHILLS DRIVE S/OF CHA
	RED ROCK COUNTRY CLUB UNIT 25	220286	ST03R	08/12/2004 06:00 ai	DESERT FOOTHILLS
✓	RED ROCK COUNTRY CLUB UNIT 20	216500	COFO	07/22/2004 10:25 ai	1911 ALCOVA RIDGE DR
✗	SUMMERLIN VILLAGE 23A DESERT FOOTHILLS DRIVE	216327	FLDCK	07/21/2004 12:30 pi	ALTA AND DESERT FOOTHILLS
✗	BARCELONA UNIT 1 @ THE PASEOS SUMMERLIN VLG	216360	PT	07/21/2004 12:00 pi	ALTA DRIVE AND DESERT FOOTHILLS
✓	CORDOVA @ SUMMERLIN	216407	CL2E	07/21/2004 09:00 ai	CHARLESTON AND DESERT FOOTHILL:
✓	HILLSTONE UNIT 1 @ THE SUMMERLIN VISTAS	216165	FINAL	07/21/2004 09:00 ai	VISTA RUN S/OF ALTA
✗	SUMMERLIN VILLAGE 23A DESERT FOOTHILLS DRIVE	216328	FLDCK	07/21/2004 08:30 ai	ALTA AND DESERT FOOTHILLS
✓	SUMMERLIN VILLAGE 19 PHASE 3 IMPROVEMENTS	216410	UG	07/21/2004 08:00 ai	CHARLESTON AND 215, S/W
✓	ESCALA UNIT 2	216473	ST03R	07/21/2004 06:00 ai	DESERT MOON AND PASEO MIST DRI
✗	HILLSTONE UNIT 1 @ THE SUMMERLIN VISTAS	215556	ST03R	07/15/2004 06:00 ai	VISTA RUN S/OF ALTA
✗	PALMILLA @ THE VISTAS	213798	UG	07/06/2004 09:00 ai	ALTA AND DESERT FOOTHILLS, S/E
✓	WELLS FARGO @ SUMMERLIN CENTRE	214007	ST03C	07/06/2004 06:30 ai	PARK RUN DR
✓	TEMP F/H CASA ROSA @ SUMMERLIN	212303	ST03C	06/24/2004 06:30 ai	CHARLESTON E/OF DESERT FOOTHILL
✓	LOS LOMAS @ THE PASEOS	211421	WS	06/21/2004 06:30 ai	DESERT MOON AND DESERT SUNRISE,
✓	SUMMERLIN VILLAGE 19/23A CHARLESTON BLVD IM	207997	ST03C	06/07/2004 01:00 pi	CHARLESTON AND DESERT FOOTHILL:

Product Summary

The Gatekeeper Mobile Work Orders System (MWO) allows mobile field personnel to take enterprise transactional data such as work orders, inspection orders, and service orders into the field via wireless connections or using a load-and-go approach. MWO can connect to any existing Work Management System (WMS) and uses any commodity wireless TCP/IP connection. MWO displays work orders on a mobile laptop or tablet computer, allows the field personnel to update the data, and then transmits the updated information back to the MWO server for insert into the WMS. The system also integrates closely with several Gatekeeper Systems *NaviGate* modules, including the Dispatch Module.

Product Description

The Gatekeeper Mobile Work Order System (MWO) field-enables legacy operational databases such as work orders, inspections, service orders, and maintenance orders. MWO replaces hand-coded data entry "forms" found in most field data entry systems with powerful and flexible properties sheets. The properties sheet interface is much simpler to use in the field, easier to maintain, and provides powerful data entry tools.

MWO provides the following specific functionality.

Synchronize Data Wirelessly or Disconnected

- MWO efficiently synchronizes the field computer via a wireless connection. Special incremental load technologies and efficient compression allow the user to keep a laptop synchronized with a large and dynamic WMS database.
- The system continues to function even when poor cellular communications prevents access to the central MWO server. Users can continue to input data and look up locally-stored information, even without access to the server.
- You can also use MWO in a load-and-go configuration. Field crews can synchronize at the beginning of a shift from the office, a district maintenance yard, or from home over their home Internet connection. Data can be uploaded at the end of the day in the same way.
- Previously entered data or previously retrieved data is cached on the local machine and is instantly available for review at a later date. Data on the central server, but not yet cached on the mobile computer, is available for download via an extremely simple "Find More" user interface. Users can look for historical information locally (it's often already in the laptop's cache), and then "Find More" if the data has not yet been downloaded from the server.
- A very easy-to-use query interface lets mobile users get the information they need without becoming database experts.

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Name	Value
Inspection Type	ST03R - 3 MONTH STATUS PLR INSPECTION
Inspection Scheduled By	
Requestor Name	LVVWD
Quad	137-26-SE
Inspection Conducted By	
Back Office Comments	
Supervisor Post Inspection Comments	
Inspection Comments	
Date/Time Inspection Started (F5)	08/20/2004
Date/Time Completed (F5)	
Location Of Inspection	

Buttons: Save, Reset, OK, Validate, Copy, Project, History

Easy-to-Use Field Data Entry

- Data entry fields can include database-driven “dropdowns”, calendars, text entry boxes (including spell checking), or constrained numeric entry.
- MWO supports master records, detail records, and sub-detail records. Users can add one or more detail or sub-detail records, with the number and type of detail records controlled by the application configuration. The relationship between record types is configured on the server by the System Administrator.
- At any time during the data entry process, the user can validate input data against system-defined data validation rules. Validation rules can check for input ranges, required data fields, conditionally required data fields, and internal consistency between multiple fields. Validation can also be used to compute new input values from already-entered values.
- The main work order interface displays clearly the assigned work orders, and allows the field user to sort and filter the work as necessary.
- Application fonts and font sizes are easily adjusted to provide improved readability under a variety of viewing conditions. Workers can make fonts smaller when viewing large lists, or larger when viewing conditions are impaired by bright sunlight.
- All application features can be accessed using Hot Keys and Tabs, thus avoiding the laptop’s mouse or pointer (which can be hard to use in the field).

View, Create and Manage New Work Assignments

- Field users can view and download their own work assignments, or those of other users or crews. New work that is assigned to the mobile user will automatically download the next time they synchronize with the server. The mobile user can also use powerful tools to “look for” specific work orders or tasks based on customizable criteria such as address, type of work, date, customer, and so on.
- New work orders are easily created in the field and synchronized back to the server (if allowed by business practices and the WMS software). Work orders can be created “empty” and then filled in, or a similar work order may be duplicated using the Copy button, and then changed to reflect new conditions. MWO can be configured to copy all of the fields in a template work order, or just some of them.
- The Project button provides one-button access to the master Project, Customer, or Asset. The History button provides one-button access to all previous work orders on this object.

Work Cooperatively

- Users can “transfer” work from one crew to another, or this function can be reserved for a dispatch or supervisor.
- Users can share work on a single work order. One user can perform some of the data entry, synchronize the data to the server, and another can access that data wirelessly to complete the work order.

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Spatial Assignment

- MWO can automatically assign work orders based on the spatial location of the work, using *NaviGate* mapping data.

Display Work Orders on *NaviGate* Maps

- MWO provides single-button access to a *Field NaviGate* system. Select a work order in MWO and click on the Map button, and MWO will invoke *NaviGate* to display the detailed location and facilities maps for that work order.
- As MWO crews complete work, a map status display in the office *NaviGate* system will dynamically update with work order status.

Display Work Status in *NaviGate* Dispatch Module

- As work orders are created, assigned, worked, and completed, the dynamic status can be displayed in the *NaviGate Dispatch Module*. Dispatchers can use this module to move work between field crews, create and assign new work, automatically assign incoming work to the appropriate crew, and schedule new work.

Login and Security

- The system uses the local login capability of the laptop computer. The login username is used to control access to mobile data.
- Transmission to and from the field is over HTTP or HTTPS. Secure VPN communication is also supported.
- All user interactions with the MWO server are logged in a server-side transaction log. The log includes the user login name, performance statistics (e.g., transmission times and bytes transferred), IP addresses, software versions, and other information needed for auditing.

Application Configuration Can Be Updated Live

- The MWO System Administrator can change the configuration of the user interface by updating a configuration database. These changes are automatically propagated to field users as they synchronize their mobile system for data updates.
- Each screen of field data input maps to a data table in the server-side database. The Administrator can deploy an additional screen simply by configuring MWO to use a new database table.
- Configuration items available to the Administrator include: data tables, data items in a table, field sizes or data types, required fields, lookup and translation tables, multi-field constraints, and calculations. The administrator can change lookup and translation values simply by editing the source data table; updated translations are then transmitted to the field together with the regular transactional data.

Server-Side Usage and Performance Reporting

- A complete logging system records all system activity.
- A database table logs all user communication activity, including transmission time, number of objects sent, IP address, bytes sent/received, username, and so on.
- MWO communicates with the WMS database either via exchange tables or by direct database writes and reads.

Data Requirements

MWO can be configured as part of any standard *NaviGate* application and shares data with the standard application. MWO requires that the data to be displayed be accessible in a standard relational database such as Oracle.

Installation and Configuration

The purchase price of MWO includes professional installation of the software by a Gatekeeper Systems technician, and integration of the system into your existing *NaviGate* application, and assistance with configuration of your field computers and wireless network. Contact Gatekeeper Systems for more information.

Hardware and Network Requirements

The MWO field interface works with any Windows Laptop or Tablet computer. MWO installs using a standard Windows installation program from a small installation kit. Only very modest field hardware is required. The MWO Server may be almost any modest Windows or Unix server with connectivity to the legacy WMS database. MWO can use any commodity wireless TCP/IP connection, including inexpensive offerings from carriers such as Sprint, Verizon, AT&T, Cingular, T-Mobile, and NexTel.

Software Prerequisites

MWO uses the functions and features of the standard *NaviGate* application framework.

Support Options

Standard Support is available for this product, providing support via email, the Internet and telephone during normal Gatekeeper Systems business hours. Standard Support also provides product updates as new versions of this module are released.

Pricing

Refer to the *NaviGate* Price List for current pricing. Volume and package discounts are also available. Contact a Gatekeeper Systems representative for more information.

Licensing

This option is licensed using the standard Gatekeeper Systems license agreement. The license agreement grants access to the software source code for the licensed option. A copy of the standard agreement is available upon request.

Ordering

MWO may be ordered by contacting Gatekeeper Systems. Please specify the *NaviGate* version with which you will be using this module.

Delivery

In most cases, the Mobile Work Orders System can be installed in four to eight weeks. Contact Gatekeeper Systems for currently available delivery times.

GKS Part Number: 5318-MW1-1

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Mobile Data Entry and Display

You can use the Mobile Work Orders System to take operational data into the field and keep that data synchronized with a server-side database. MWO includes powerful tools to efficiently synchronize from the central database into mobile computers, provide for data update in the field, and then move the updated data back to the central database.

MWO functions in a wireless network configuration (with slow-speed and unreliable network connections) or it can be used in a "load and go" manner with synchronization at the beginning and end of a trip into the field.

MWO can be used in the field in a stand-alone mode, or used in conjunction with the field version of the NaviGate System.

Office users can use NaviGate to view the location and status of mobile work orders. The NaviGate Dispatch Module (shown at right) can be used to manage the workload of MWO users.

My Inspections

Project	Number	Type	Scheduled	Proj. Location
PALOMAR @ THE PASEOS	216400	ST03R	08/12/2004 07:00 ai	ALTA AND DESERT FOOTHILLS
SUMMERLIN VILLAGE 19/23A CHARLESTON AND DESERT FOOTHILLS DRIVE S/OF CHA		D3C	08/12/2004 06:30 ai	DESERT FOOTHILLS DRIVE S/OF CHA
RED ROCK CO		D3R	08/12/2004 06:00 ai	DESERT FOOTHILLS
RED ROCK CO		FD	07/22/2004 10:25 ai	1911 ALCOVA RIDGE DR
SUMMERLIN VILLAGE 19/23A CHARLESTON AND DESERT FOOTHILLS DRIVE S/OF CHA		DCK	07/21/2004 12:30 pi	ALTA AND DESERT FOOTHILLS
BARCELONA UNIT 2 @ THE PASEOS		PT	07/21/2004 12:00 pi	ALTA DRIVE AND DESERT FOOTHILLS
CORDOVA @ SUMMERLIN	216407	CL2E	07/21/2004 09:00 ai	CHARLESTON AND DESERT FOOTHILLS
HILLSTONE UNIT 1 @ THE SUMMERLIN VISTAS	216165	FINAL	07/21/2004 09:00 ai	VISTA RUN S/OF ALTA
SUMMERLIN VILLAGE 23A DESERT FOOTHILLS DRIVE S/OF CHA	216328	FLDCK	07/21/2004 08:30 ai	ALTA AND DESERT FOOTHILLS
SUMMERLIN VILLAGE 19 PHASE 3 IMPROVEMENTS	216410	UG	07/21/2004 08:00 ai	CHARLESTON AND 215, S/W
ESCALA UNIT 2 @ THE PASEOS	216473	ST03R	07/21/2004 06:00 ai	DESERT MOON AND PASEO MIST DR
HILLSTONE UNIT 1 @ THE SUMMERLIN VISTAS				VISTA RUN S/OF ALTA
PALMILLA @ THE VISTAS				ALTA AND DESERT FOOTHILLS, S/E
WELLS FARGO @ SUMMERLIN CENTRE				ARK RUN DR
TEMP F/H CASA ROSA @ SUMMERLIN				CHARLESTON E/OF DESERT FOOTHILL
LOS LOMAS @ THE PASEOS				DESERT MOON AND DESERT SUNRISE
SUMMERLIN VILLAGE 19/23A CHARLESTON AND DESERT FOOTHILLS DRIVE S/OF CHA				CHARLESTON AND DESERT FOOTHILLS

Dispatch - 2004-08-20

Fmp. No.	Name	XGr	Status	S
6771	SCHWENKLER, MI...	13:47		
4452	ORME, PHILLIP	14:53		
1401	MARGETTS, JACK	14:31		
6753	BOYCE, MARK	14:00		
4234	ANDERSON, DAVIS	14:27		
6752	NEWMAN, WILLIAM	13:50		
6503	LITTLEFIELD, KODDY	15:01		
6749	LYNN, SCOTT	14:31		
5192	LYONS, JOHN	16:43		
5961	MILLS, PHILIP	15:19		
1730	FORTUNE, VICKY	14:17		
6751	GHADERY, JASON	13:35		

Map Data:
 Insp. No.: 221490
 Type: FLDMT
 Completed: 08/20 07:50
 By: BOYCE, MARK

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Convenient Field Data Entry

The MWO System provides easy-to-use "property sheet" style user input. Input data can be organized into multiple "forms", analogous to the multiple paper forms that used to be required to document a field operation. Typically, the forms consist of a master form that describes the work order, plus one or more detail forms for each unique activity or data capture action.

Inspection Detail - Midas

HILLSTONE UNIT 1 @ THE SUMMERLIN VISTAS

Inspection Record Details

Inspection: Final Inspection

Detail Type: Final Backflow Assemblies

Print [COMPLETED]

Record Data

Name	Value
GPS of Project Completed	FAIL
Rcvd GPS Redline DWG	FAIL
Rvwd GPS Redline DWG	FAIL
PZ BFILL Material Per Table G	PASS
TZ BFILL Material Per Table G	PASS
Density Tests Taken	PASS
Valve Operational/Positioned	PASS
FAC Accessible/Operational	PASS
Fire Hydrants Flowed	PASS
Inspection Comments	

Inspection Comments: TODAY PROJECT WAS WALKED AND ALL VALVES WERE OPERATED AND LEFT IN PROPER POSITIONS, THIS PROJECT MEETS ALL STANDARDS AND SPECIFICATIONS AS PER LVVWD, RECOMMEND FINAL ACCEPTANCE.

Buttons: OK, Validate, Copy, Project, History

Multi-Detail Support

An MWO Work Order can support multiple sub-parts, called Details. A master work order (shown here is an Inspection work order) can contain many Detail forms, each associated with a different record from the MWO database. The user can add additional details in the field, subject to application-specific rules configured into the MWO configuration system.

The system also supports "sub-details", or forms that depend on detail forms.

Inspection Detail - Midas

SUMMERLIN VILLAGE 20 BELTWAY I

Inspection Record Details

Inspection: Residential Punchlist Insp.

Detail Type: PLR AVAR Pad Details

Description: PLR AVAR Pad Details, PLR Backflow Assembly Details, PLR Backflow Pad Details, PLR Meter Box Collar Details, PLR Valve Details, Residential Punchlist Details

Record Data

Name	Value
Inspection Type	
Inspection Schedule	
Requestor Name	
Quad	
Inspection Conducted	
Back Office Comments	
Supervisor Post Inspection Comments	
Inspection Comments	
Date/Time Inspection Started (F5)	08/20/2004
Date/Time Completed (F5)	
Location Of Inspection	

Buttons: Save, Reset, OK, Validate, Copy, Project, History

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Advanced Input Elements

MWO provides a number of powerful data input tools, including calendars, spell-checked text boxes, dropdowns, time input, and others.

The screenshot shows the 'Inspection Detail - Midas' window. The 'Record Data' section contains a table with the following data:

Name	Value
Requestor Name	Quad 137-26-5E
Inspection Conducted By	
Back Office Comments	
Supervisor Post Inspection Comments	
Inspection Comments	
Date/Time Inspection Started (F5)	08/20/2004
Date/Time Completed (F5)	
Location Of Inspection	
Inspection Status	None

A callout box points to the 'Date/Time Inspection Started (F5)' field, stating: "Date and time inputs can be typed in by the user, or selected from a calendar control." The calendar control shows the month of August 2004, with the 20th selected.

Easily Configured Drop-downs and Constraint Checking

The input forms in MWO do not require "forms editing" to change their behavior. All of the configuration information for an input form is stored in the central MWO database, and can be changed dynamically by the MWO System Administrator, even while the user is in the field!

When an MWO user visits a data field, the user interface automatically re-configures based on the data type and input format of the data item. If the data is to be selected from a list, a dropdown appears. The values in the dropdown are taken directly from the server database, and are automatically updated when the server database is changed.

The screenshot shows the 'Inspection Detail - Midas' window with the 'Field Contractor' dropdown menu open. The dropdown list contains the following items:

Code	Description
4836	A & B CONSTRUCTION CORP.
4842	ACME ELECTRIC
4843	ACME UNDERGROUND INC.
4852	AMERICAN ASPHALT & GRADING
4863	B & H CONSTRUCTION INC.
4871	BADGER CONSTRUCTION
4886	BOULDER CONSTRUCTION INC
4888	BRAVO UNDERGROUND INC

A callout box points to the dropdown menu, stating: "When you place your cursor or tab to an input field, MWO displays the dropdown list of available values." Another callout box points to the 'Validate' button, stating: "The user can validate their input locally, before sending the information to the server. The validation can apply virtually any kind of business rule to the data, or even calculate values for input using other values in the record."

Records in a dropdown list are taken from the database, and are easily updated or extended in the field simply by changing the values in the central database tables

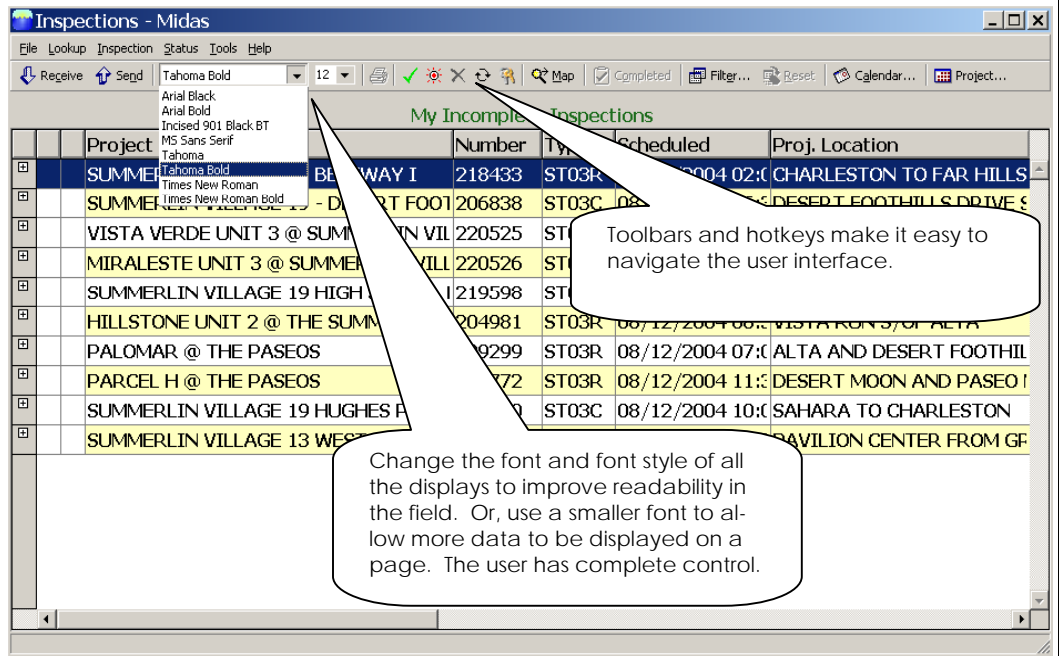
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Interface is Designed for Each Use in the Field

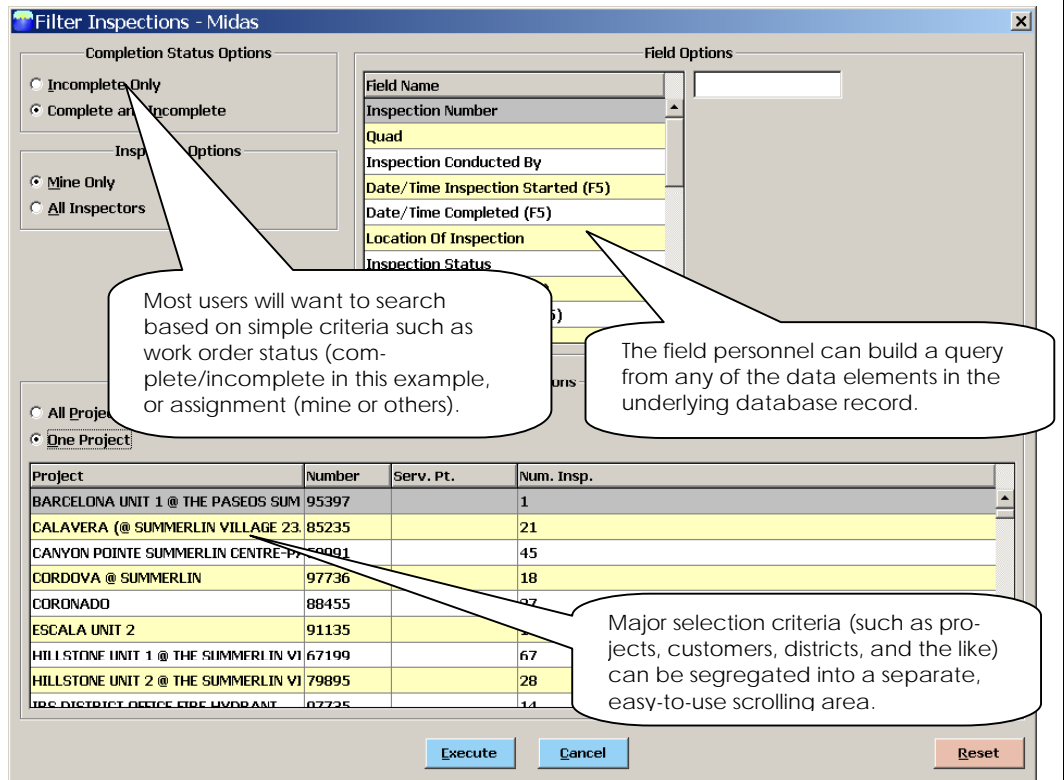
The MWO System has special features to improve usability in the difficult field environment. All of the buttons and fields are accessible using keystrokes and tabs, without resorting to a mouse. Hot keys provide one-stroke access to all commonly used system features, using familiar Windows keystroke semantics.

Most importantly, the user can customize the fonts of all of the displays, making their own personal trade-off between readability and the density of the data display. That allows a field worker to use a bigger font under hard-to-read conditions (such as bright sunlight), while easily switching back to a more compact font when working in a more convenient environment.



Powerful Forms-Based Queries

Using a single query, field users can easily look up data cached either locally or on the central server. The query page is totally configurable by the system administrator, and uses the same data input controls and widgets as the input forms.



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Query Results Available Wirelessly

When an MWO user looks for data, the system first tries to find it on their local laptop. The local machine has a cache of all work recently completed on that machine.

If the local cache doesn't return the desired records, the user can click on the Find More button, and the system will use the wireless connection to query the remote server. From that page, the user can select which records should be retrieved from the server, thus avoiding the time-consuming and expensive transfer of data for records that the user is not interested in.

Once records are stored locally, the system automatically keeps the data in them up-to-date when changes are made on the server database.

Result of the Lookup operation is a single record in the mobile computer's cache.

The Find More button tells the system to reach out to the central server for additional data.

This record is already in the local cache.

Once the Find More button is pressed, basic data about each work order is easily retrieved from the central server database. Mobile workers can then mark which records they want, and bring down those records from the server for work on the local machine.

Click the checkbox to retrieve this entire record and all related records.

Project	Type	Completed
PALOMAR @ THE PASEOS	ST03R	

Project	Number	Proj. Location	Type	Completed
PALOMAR @ THE PASEOS	209299	ALTA AND DESE		
<input type="checkbox"/> PALOMAR @ THE PASEOS	2349	ALTA AND P		
<input type="checkbox"/> PALOMAR @ THE PASEOS	21055	ALTA		
<input checked="" type="checkbox"/> PALOMAR @ THE PASEOS	21056	ALTA AND DESE		
<input type="checkbox"/> PALOMAR @ THE PASEOS	24657	ALTA AND DESERT		
<input checked="" type="checkbox"/> PALOMAR @ THE PASEOS	76828	ALTA AND DESERT FOOTHILLS	DEN	08/06/2003 12:36
<input type="checkbox"/> PALOMAR @ THE PASEOS	76828	ALTA AND DESERT FOOTHILLS	DEN	08/06/2003 12:38
<input type="checkbox"/> PALOMAR @ THE PASEOS	76828	ALTA AND DESERT FOOTHILLS	DEN	08/07/2003 09:41
<input checked="" type="checkbox"/> PALOMAR @ THE PASEOS	76828	ALTA AND DESERT FOOTHILLS	DEN	08/15/2003 12:34

40 data item(s) found on server.

Simple Display of Current Activity

MWO provides a simple display of all the current activity. The "My Incomplete Work Orders" page shows the field worker just the data they need. They can click to order any of the columns in the display, or apply filters to exclude or include certain records.

The main MWO page displays just the work the user wants, and the list can be customized with an easy-to-use filter form.

Project	Number	Type	Scheduled	Proj. Location
VISTA VERDE UNIT 1 @ SUMMERLIN VILLAGE 20	221192	ST03R	08/18/2004	15 am PARK VISTA 5/OF ALTA
SOLANO @ THE VISTAS	220954	ST03R	08/17/2004	15 am VISTA RUN 5/OF ALTA
VISTA VERDE UNIT 3 @ SUMMERLIN VILLAGE 20 PARCEL K	220525	ST03R	08/13/2004	30 am PARK VISTA 5/OF ALTA
MIRALESTE UNIT 3 @ SUMMERLIN VILLAGE 20 PARCEL M	220526	ST03R	08/13/2004	00 am VISTA RUN SOUTH OF DESERT SUNRISE
SUMMERLIN VILLAGE 20 BELTWAY	218433	ST03R	08/12/2004	00 pm CHARLESTON TO FAR HILLS AVENUE
SUMMERLIN VILLAGE 19 HIGH SCHOOL DRIVE (18" STUB)	219598	ST03C	08/11/2004	00 pm DESERT FOOTHILLS AND CHARLESTON
RED ROCK COUNTRY CLUB UNIT 26A	206893	ST03R	08/11/2004	00 pm GRASSY SPRINGS PLACE
RED ROCK COUNTRY CLUB DESERT FOOTHILLS IRRIGATION	206892	ST03R	08/11/2004	00 pm DESERT FOOTHILLS DRIVE
PARCEL H @ THE PASEOS	206893	ST03R	08/11/2004	00 am DESERT MOON AND PASEO MIST, 5/E
SOMERSET UNIT 2	206892	ST03R	08/11/2004	00 am LONGHIRST HILL AND PERCY ARMS, 5/W
CORONADO	206892	ST03R	08/11/2004	00 am DESERT SUNRISE AND PASEO FLOWER, 5/E
SUMMERLIN VILLAGE 19 HUGHES PARK DRIVE IM	206892	ST03R	08/11/2004	00 am HARA TO CHARLESTON
RED ROCK COUNTRY CLUB DAILY FEE CLUBHOUSE	206892	ST03R	08/11/2004	00 am GRASSY SPRINGS PLACE
MARIPOSA UNIT 2 @ THE PASEOS	206892	ST03R	08/11/2004	00 am ALTA AND DESERT FOOTHILLS
HILLSTONE UNIT 2 @ THE SUMMERLIN VISTAS	206892	ST03R	08/11/2004	00 am VISTA RUN 5/OF ALTA
SUMMERLIN VILLAGE 13 WEST PAVILION CENTER	206892	ST03R	08/11/2004	00 am PAVILION CENTER FROM GRIFFITH PEAK T
CALAVERA (@ SUMMERLIN VILLAGE 23A PARCEL C)	206892	ST03R	08/12/2004 07:30 am	00 am DESERT SUNRISE AND PASEO FLOWER, 5/W
PALOMAR @ THE PASEOS	209299	ST03R	08/12/2004 07:00 am	00 am ALTA AND DESERT FOOTHILLS
SUMMERLIN VILLAGE 19 - DESERT FOOTHILLS DR SEWER	206838	ST03C	08/12/2004 06:30 am	00 am DESERT FOOTHILLS DRIVE 5/OF CHARLES
RED ROCK COUNTRY CLUB UNIT 25	220286	ST03R	08/12/2004 06:00 am	00 am DESERT FOOTHILLS

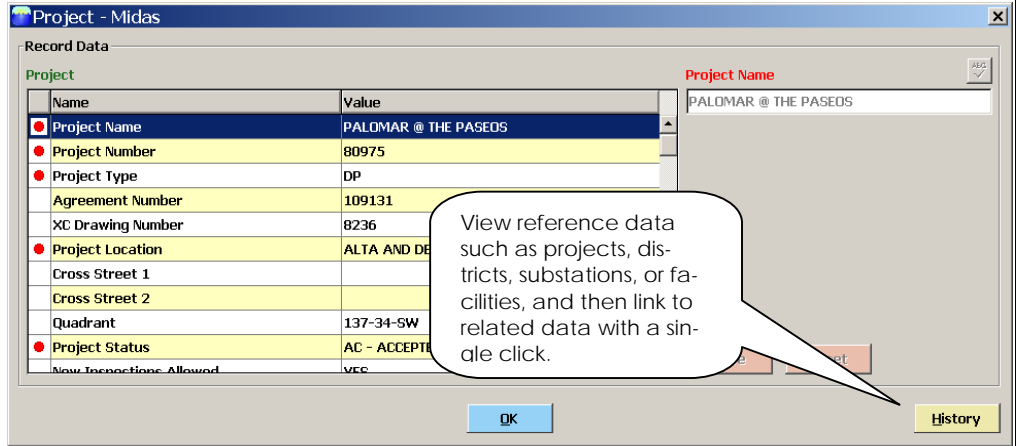
278 data item(s) successfully read from server

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Look Up Reference Data

Using the same powerful query and display tools, users can carry important reference data into the field on their laptop. Data about projects, customers, or facilities can be stored on the laptop for reference, and is automatically kept up-to-date by the MWO synchronization system.




Print Hardcopy Tickets

MWO includes a hardcopy printing feature. The mobile worker can print a copy of a work order for their own records, or to give to a customer or contractor.

Las Vegas Valley Water District

Report Date: September 01, 2004
Inspector: 1640 - PHILIP A HARRIS



Project Number: 98095
Project: ASTORIA @ TOWN CENTER SOUTH OFFSITE M/E'S
Inspection Type: PROJECT FIELD MEET
Inspection Status: Pass

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Inspection	
Inspection Number	194933
Inspection Type	FLDMT - PROJECT FIELD MEET
Inspection Scheduled By	4119
Requestor Name	JONATHAN PICKUS
Quad	125-17-SW
Inspection Conducted By	1648 - THOMPSON, TIMOTHY R
Back Office Comments	
Supervisor Post Inspection Comments	
Date/Time Inspection Started (F5)	
Date/Time Completed (F5)	
Location Of Inspection	AT THE MODS
Inspection Status	Pass
Date/Time Scheduled (F5)	05/11/2004 02:44 pm
Priority	
Inspection Duration (Min.)	30

Project Field Meet Inspection	
Inspector Call #	
Field Contractor	
New Contractor Name	
Field Contact Name	
Field Contact Phone	
Inspection Comments	

1001 S. Valley View Blvd
Las Vegas, Nevada 89153
Visit our website @ www.lvwvd.com

Business Hours 7:00 AM to 4:00 PM
Inspections Scheduling (702) 258-7171
Development Services Associate (702) 258-3227

Next day inspections must be scheduled prior to 2:00 PM

Gatekeeper Systems

Delivering Spatial Data to the People Who Need It