



WinDSX®

Microsoft Access™ and SQL Server™ Editions

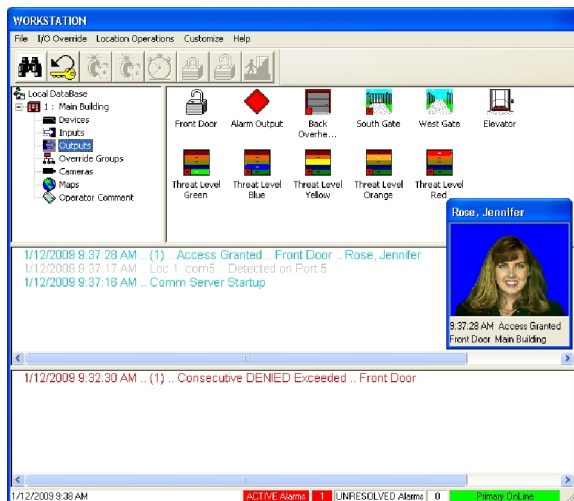
WinDSX is a powerful access control and system monitoring application that harnesses the power of the Windows XP, Vista, and 7 Professional™ operating systems. WinDSX combines point monitoring and access control with Photo ID Badging, Time and Attendance, Alarm Graphics, DVR/NVR Integration, Elevator Control, Alarm Email/Text Message Notification, Threat Level Management, HazMat / Emergency Lockdown, and FIPS/TWIC card compatibility.

WinDSX can support your access control needs from a single PC or multi-user Local Area Network to an enterprise solution with SQL Server as the database engine. The system utilizes TCP/IP network communications to provide user interaction and real time monitoring to the workstation PC's located anywhere on the LAN or WAN. Password protection allows for operator specific capabilities at each workstation.

There are two Editions of Software. WinDSX comes standard with a Microsoft Access database engine. WinDSX SQL is designed to work with Microsoft SQL Server as the database engine. Both editions of WinDSX have similar features and capabilities. Microsoft SQL Server is user supplied.

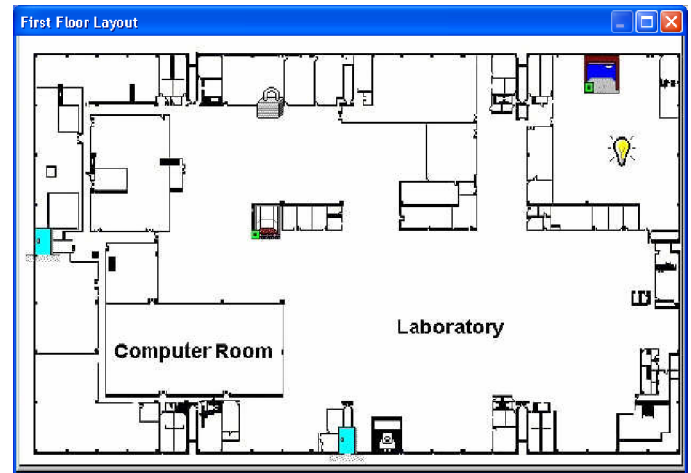
WinDSX implements Point and Click operation with hierarchical tree views and pop up menus for ease of use. I/O monitoring and control is achieved through animated icons that depict the real time status of each input or output. I/O points can also be assigned to an Override Group to allow for multiple inputs and outputs to be monitored and controlled from a single icon.

Scheduled Overrides can be assigned to individual Inputs and Outputs as well as Override Groups. These schedules allow operators to quickly assign time and date sensitive instructions determining the open/secure status of outputs and the armed state of inputs.



Workstation Desktop

Graphic alarm maps can be configured to provide detailed information about any I/O point in the system. The graphic map displays the true real time status of each I/O point and allows the operator to perform manual overrides of the inputs and outputs directly from the map.



Graphic Alarm Maps

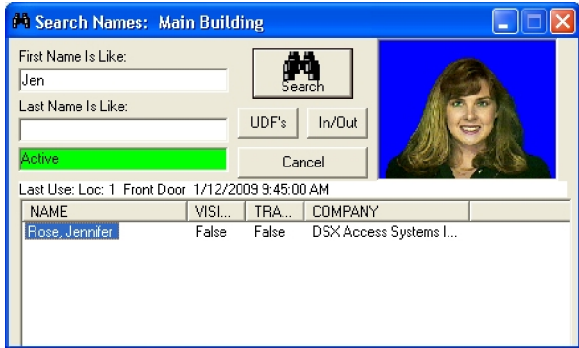
Cameras can be controlled with standard pan/tilt and zoom functions when the system is connected to a matrix type switcher. WinDSX has the ability to integrate with over 20 different DVR and NVR systems. This integration allows stored and live video from the DVR to be accessed within the WinDSX software. All video is transmitted across a network connection.

WinDSX flexible linking capabilities allow for any card, input or output in a location to link (interlock) with any other input or output in that location. Complicated applications such as mantraps are simply a matter of programming and require no additional equipment. This allows for custom solutions such as floor select elevator control and automatic handicap doors.

Custom History reports can be defined choosing any combination of locations, doors, events, and cardholders providing as general or specific a report as needed. The reports can be previewed before printing and can be sent to a local printer or any printer on the LAN. Report configurations can be saved and run at any time. History reports can be preconfigured and automatically run up to twice a day each day of the week and even Emailed from the workstation they were created on.

With the new Global Access Level Manager an unlimited number of temporary and permanent access levels can be assigned to card holders. These Access Levels now span across grouped locations. Temporary Access Levels are date controlled.

The Card Holder Name Search window is available by clicking on the Binocular Icon button in the top left corner of the Workstation Program. It can be used to Search for a Card Holder by Name, or a more in depth search can be made. Full or partial spelling can be used in the search. The results of the Name Search are displayed here along with their current In/Out Status, location of last card use, and other information.



Card Holder Name Search

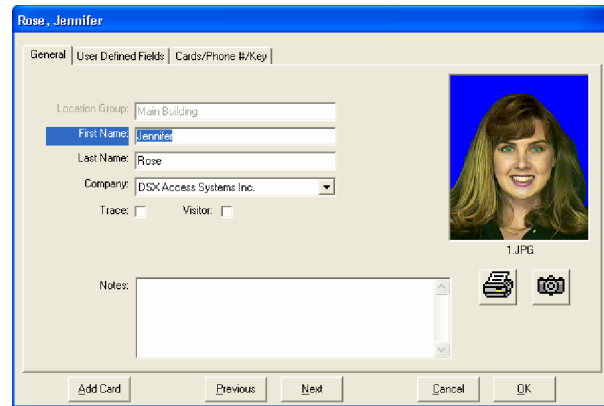
By clicking on the Search button without entering a name, a list of all cardholders is returned which can be scrolled through viewing UDFs and status of each card holder. If the In/Out button is selected the In/Out Status screen is displayed. The blue status bar at the top displays the door, date and time of the highlighted cardholder's last card use. Green indicates the card holder is "In" and Red indicates the cardholder is "Out". All Cardholders that are "In" (green) are alphabetically sorted to the top. All Cardholders that are "Out" are alphabetically sorted to the bottom. This In/Out display is updated once a minute. Left click one time on any cardholders name to refresh that person's information.



In / Out Status Screen

WinDSX is the one stop solution for Video Imaging/Photo ID Badging and Access Control applications. The WinDSX system can produce photo ID badges for employees and visitors. The system allows the user to create badge backgrounds (templates) on which digital images and card holder data is imposed when the card is printed. Video Imaging is a standard feature of the WinDSX system that is provided at no extra charge. Images can be captured with a digital camera and imported into the WinDSX system without any additional hardware or expense. If live video display and capture is desired a camera with a live TWAIN interface can be used or with the use of a DSX Features Key a DSX digital camera can be used to capture still shots from a high resolution camera and flash connected to the Customer supplied PC.

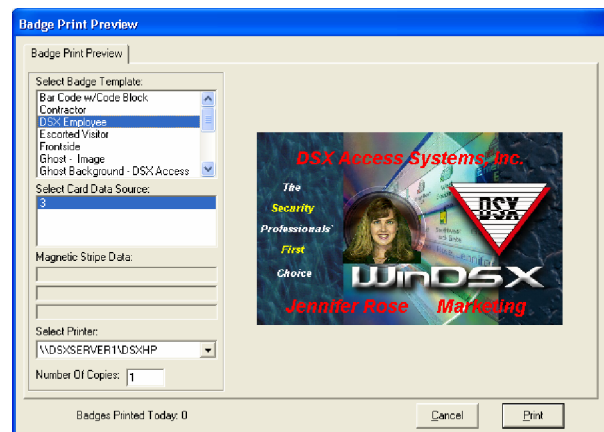
The following picture is the Card Holder data entry screen. This is where the card holder data is entered, images are imported or captured, and badge printing takes place.



Card Holder Data Entry Screen

The digital images are permanently stored on the hard disk with other cardholder data. These images can be sized, cropped, edited, and placed anywhere on any badge background. Any number of images can be stored with each cardholder, including front and side views, signatures, finger prints, etc.

Badge templates are created using "What You See Is What You Get" drag and drop tools with new features such as transparent backgrounds, image ghosting, text centering, text shrink to fit, right alignment, bring to front - send to back layering, and rotation to any degree. The ability to create unlimited badge templates allows for all departments and user groups to have unique badges. Single sided or two sided color and monochrome badges can be printed one at a time or in a batch mode.



Badge Print Preview/Edit

A print preview feature displays the assembled badge prior to printing. All images on the print preview can be zoomed in and out and adjusted from left to right for last minute changes.

WinDSX Software Specifications and Features

Microsoft Access or SQL Server Editions
32,000 Locations
128 Doors / Readers per location
50,000 Access Codes per location
32,000 Time Zones with 3 Holiday overrides each
32,000 Access Levels
32,000 Inputs
32,000 Outputs
32,000 Companies
32,000 Holidays
99 User Defined Fields
32,000 System Operators
32,000 Password Profiles
999 Operator Comments
32,000 Graphic Alarm Maps
32,000 Custom Action Messages
Import Graphic Alarm Maps of 21 file types
240 + Card Reader, Keypad format compatibility
FIPS/TWIC Card Compatibility up to 17 digits
32,000 ASCII Output Messages
Time and Attendance
Guard Tour
CCTV & Pager System Interface - ASCII / Relay Output
DVR/NVR Integration
Auto Incremental Downloads (changes only)
Floor Select Elevator Control and Reporting
High Level Elevator Control Interface/Report
After Hours HVAC Zone Control
Global Input/Output Linking
Global Code to Input/Output Linking
4 Zone Global Anti-Passback w/Hard, Soft, and Timed
Integral Database Backup and Restoration System –Access only
Auto-Backup procedure/ Backup to any storage media
Integral Custom Report Generator w/Report Pre-viewing
Schedule Automatic History Reports / Email using SMTP
“Who Is In” One Button Report including Input Activated
Card Holder “Photo Roster” Report
Code Tracing - Reader and User selectable
Regional Time Zones for Workstations and Remote Sites
Fail Safe or Fail Secure Relay Action
Icons for Input Normal/Abnormal states
Icons for Output On/Off states
Direct, Dial-up Modem, and TCP/IP Panel Communications
DSX-LAN(M) Interface w/ Modem Backup Communications
Schedule or defer downloads
Limit Number of Card Uses 1-10,000 / Card Disable Reader
TCP/IP Network Protocol support
Integral Photo ID Badging and Photo Verification w/Image
Auto/Manual Image Recall
Workstation Event Filtering
Operator Audit Trail
Alarm Echo - Offsite Alarm Monitoring / Remote Control
Visitor Management
Multiple De-activate Dates for Cards
Auto Incrementing Badge Number
Threat Level Management

Continued....

Global Access Level Manager
Unlimited Access Levels Per Card Holder
Date Controlled Temporary Access Levels
Card Use It or Lose It automatic deactivation by Company
Precision Start Times and Dates for Card Activation
Precision Stop Times and Dates for Card De-activation
Card Holder Biometric Enrollment Export
Embedded Hot Links in Action Messages
Multiple Dates on Scheduled Overrides
Time Zones controlled with Linking Logic
Hot-Swap Backup Communications Server – SQL only
Hidden & Predefined User Defined Fields
Alarm Email Notification / Text Messaging
Comm Server (CS.exe) runs as a Service
Bulk modification to Card Holder Access Levels
AES Encryption from Comm Server to all Controllers
AES Encryption from Comm Server to all Workstations
Startup Map (always displayed) + Custom Map Sizes
Device Locator- shows which Access Levels contain a Device

WinDSX Badge System Features

Digital Camera Pan and Tilt
Batch Card Printing
Image / Signature Importing
Multiple Video Input Compatibilities
Image Capture
Transparent Backgrounds
Multiple Images for each Person
Image Cropping and Editing
Auto Image Editing
Rotate Text and BarCodes
Encode Magstripe Track 1, 2, 3 with equipped card printer
Prints to any Windows Compatible Card Printer
Manual Image Recall by Clicking on Card Read Event
Auto Image Recall by Device, up to two time zones each
Generates 3 of 9 and interleave 2 of 5 Barcodes
Single Sided or Double Sided Badges
Color and/or Black and White Badges
Text Centering
Shrink to Fit text and data fields
Right Alignment
Font and Text Color selection for each printed field
Text Underlining
WYSIWYG + XY Coordinates
File Import using Digital Camera
Import 18 different Graphic Image file formats
Resize Image and Maintain Aspect Ratio
Shapes with custom colors available
Name field concatenation
Image Ghosting
Bring to Front / Send to Back Layering
Auto Badge Template selection
Auto-Incrementing Badge Number
Card Holder Photo Roster Report
CR-80 to CR-100 Card Sizes
USB WebCam Support – No Features Key Required

Video Imaging Components

DSX Features Key = USB Key for Live Image Capture
DSX CamKit = Digital Camera, Lens, Flash (integral), Tripod, and, Cables.

All components have a 1-year warranty.

Camera Specifications

Model LU176C

Image pickup device 1/2"

No. of effective pixels 1280 x1024

Frame Rate 30fps@640X480

Sensitivity Range High54db

Exposure Auto/Manual

White Balance Auto/Manual

Interface USB1 or2

Lens 48dB

Operating Temperature 0 - +50C

Power supply 9VDC (power supply included)

Power consumption 500ma 2.5Watts

External dimensions 4.5"W x 2.5" H x 1.75"D

Weight 300gm camera only

Camera Features

Captures images instantly

Sharp edges and bright accurate colors

Live video preview

Auto white-balance, auto exposure

Superb sensitivity

High resolution image capture

Synchronized flash included

High speed USB 1.0 and USB 2.0 interface

Video and camera control over a single USB cable

Standard tripod mount Ruggedized aluminum enclosure

Printers

WinDSX prints to any **Windows™** compatible direct card printer.

Print Method Dye-sublimation / Resin Thermal Transfer

Resolution 300 dpi

Colors Up to 16.7 million

Print Speed 30 - 60 seconds per (printer dependant)

CPUs Minimums

Pentium 1.6 GHz Dual Core (or better)

Pentium 1.8GHz Dual Core (or better)

Pentium 2.4GHz (or better)

Memory Minimums

512M

1G+

Drive Minimums

CD/DVD 16x or better

1G Hard Drive Space minimum

LAN Communications

Adapter 10/100Mbit or better

Requires TCP/IP Protocol

Comm Server

LAN Modules

Comm Server to Controller

Comm Server to Workstation

Sound

Windows™ compatible sound card.

Backup Gear

Windows™ compatible

Backup gear.

Modem

DSX External dial-up

Serial Ports

DSX-USB Communications adapter
USB to RS-232 / RS-485.

Client Operating Systems

Windows™ 7 Professional

Windows™ 7 Professional

64 bit

Windows™ Vista Business

Svc Pack 1

Windows™ XP Professional

Svc Pack 2

The Comm Server Program
can run on a Client Operating
System.

Server Operating Systems

Server 2003

Server 2008

Server 2008 R2

Server Operating Systems require the
use of Active Directory.

SQL Server

SQL 2005

Svc Pack 3

SQL 2008

SQL 2008 R2

Application

Host PC for single PC, single location, or LAN workstation for single location system. 512M RAM LAN Comm Server or File Server for single location, or workstation for multi-location system. 1G RAM LAN Comm Server and/or combination File Server for multi-location. 1G RAM - minimum

Application

Basic System, Single PC
Multi-Location Comm Server and Badging

Application

Software Installation
Basic System requires 50M

100M is recommended

MS LoopBack Adapter for no LAN

Static IP Address

Static IP Address

UDP - ports 4000 to 5000

TCP - ports 22223 / 22224

Application

WAV files for input alarms.

Application

WinDSX can send backups to logical drive. WinDSX SQL uses SQL Server for backups.

DSX only supports DSX modems

Direct and Dialup communications
require a serial port.

DSX Version

3.7 / 4.7 and higher

3.7 / 4.7 and higher

Peripherals require 64 bit drivers.

3.7 / 4.7 and higher

3.5 / 4.5 and higher

3.5 / 4.5 and higher

3.7 / 4.7 and higher

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WinDSX SQL requires Microsoft
SQL Server. WinDSX uses
Microsoft Access.

3.7 / 4.7 and higher

3.7 / 4.7 and higher