EST™
Life Safety & Communications

Access Control DataBase Software

ACDB8, ACDB8+, ACDB-SVR, ACDB-CLNT

Overview

The Access Control DataBase (ACDB) program is an intuitive easy to use application used to set the parameters for granting and denying access of people into various areas of your facility. Using familiar Windows-based controls, the program allows you to enter cardholder information for each person. The cardholder access level information allows you to control admittance to any combination of protected doors located at one or multiple locations. With the user definable fields available, additional information on enrolled persons can also be kept and tracked.

The program allows the use of most existing computers, there is no need for a dedicated PC or special wiring. This can reduce the cost of installation through the use of existing infrastructure.

Whether used in small systems with few cardholders or in large access control systems where thousands of individuals must be managed, the ACDB provides tools that allow easy access management. The simple-to-use screens follow a logical progression no matter what the task. Extensive filtering tools provide operators with quick paths to find desired information. The ACDB program takes advantage of the Windows tree view and list views to provide a complete picture of the system. These views help administrators gain a clear view of the system design.

Standard Features

- User friendly, intuitive operation
- Compatible with most card formats
- Popular badging program support
- Supports Edwards card format
- No facility codes required, short lead times for additional cards
- Over 100,000,000 unique card numbers – no fear of duplicates
- Works on most computers with a V.32bis modem
- Dedicated PC not required
- ODBC database compatible
- Multi-tenant applications
- User definable fields, tabs, and reports
- Full filter and search capability
- Encrypted communications
- Task Manager for automating routine functions
- Barrier-free (handicapped) cardholder option
- Supports up to 255 access levels, schedules, and holidays
- Event log
- Multilingual support

DATA SHEET 85010-0098
Not to be used for installation purposes. Issue 6

Application

The ACDB is a multi-threaded 32-bit Windows program that may be run on a 400 MHz or greater PC. Several levels of software are available to fit the needs of any facility. Model ACDB8 is a single workstation application, providing the ability to configure access of one to eight doors. Model ACDB8+ supports a single workstation – allowing configuration of over eight doors. By equipping the access control PC with a V.32bis 14.4Kb capable modem, information can be passed to and from the system's controlled doors using telecom lines. Dedicated wiring is not required. However if a telecom connection is not desired, the ACDB can also be wired directly into the access hardware via an RS-232 connection.

The Access Control Database may reside on LAN or WAN networks that support "Client for Microsoft Networks". This is ideal where multiple operators at multiple workstations are desired. In these cases, the ACDB-SVR software loads on one local or remote PC on the network. This PC holds all the access data base information and orchestrates uploads and downloads to access equipment. The ACDB-SVR computer may also be used as a workstation if needed. Other workstations on the network running the ACDB-CLNT software communicate via the network protocol to the ACDB-SVR workstation, loading new cardholder information into the ACDB-SVR database and retrieving report information from it. All ACDB workstations – single workstation or networked – use Windows 2000 or XP as their operating systems.

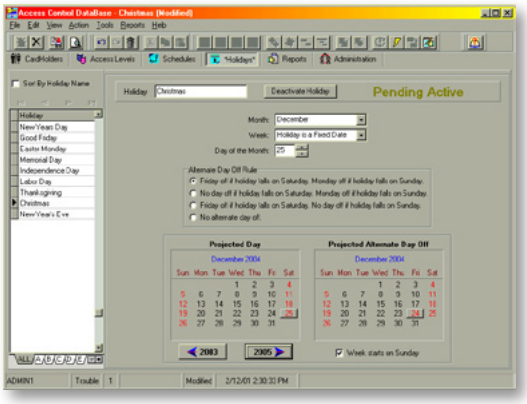
The Access Control Database Administrator user initially sets all operator privileges, creates access levels, schedules, and holidays. Once the system has been defined, operators can quickly create or modify cardholder records under password protection as determined by their assigned privileges.

Operation

Access levels, scheduling and holidays

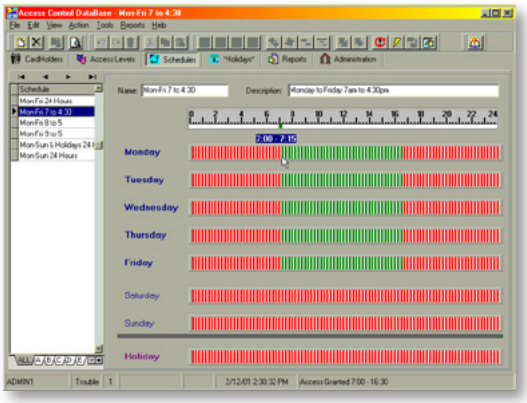
An access level consists of a list of doors and keypads, allowable access times (schedules and holidays), and cardholder privileges (disarm, irregular entry etc.). Each cardholder may be assigned one or two access levels. Each access level is assigned a time period during which it is in effect. The second access level is very useful for allowing a cardholder temporary access to areas outside their normal sphere of movement. For example, when an employee is on temporary assignment, the second access level would be used to gain entry to different areas. The second access level would be timed to expire when the temporary assignment ends.

The ACDB supports up to 255 different access levels, 255 different schedules, and 255 different holidays. A unique feature of the program is its use of rules when setting holidays. For example, when holidays fall on the same date every year, the ACDB may be configured so that a holiday schedule runs automatically on those dates. If any holidays occur on a Saturday, the ACDB may be set up to run the holiday schedule on the Friday instead. A simple program rule accommodates holidays that change date from year to year. These unique operations help ensure that people are not denied access and locked out when they should be allowed access. You can easily advance the calendar to inspect the results of any rule as it applies in future years.



If recurring holidays fall on a weekend, they can be configured for alternate dates – even years in advance.

Setting schedules is simple, thanks to the ACDB's appealing graphical interface and its intuitive editing tools. A single screen provides a week at a glance view and the uncluttered display speeds scheduling and makes it easy for the user to stay on top of any changes that affect access to the facility.



Graphical time charts take the tedium out of scheduling.

All the basics

The Access Control Database, in conjunction with access hardware, provides the ability to offer standard access control in addition to more advanced specialized operations. Specialized operations include mustering, anti-passback (three types – strict, timed and logged), and visitor operations.

It's easy to create visitor cards with the ACDB. Visitors can have free access based on the doors and schedules of the access level they are assigned. A simple mouse-click can require a visitor to have an escort to enter doors. Here the visitor and employee with the correct access privilege must badge into a door for the visitor to be granted access.

Photo badging

Should the facility require photo badging, the ACDB integrates with ImageWare Systems, EPI-Suite products, including *EPI-Suite Lite*, *Classic* and *Pro* versions 6.3.

Task Manager/Reports

The ACDB's Task Manager automates routine activities. These tasks can include uploading and downloading information to card reader controllers (doors), gathering report data, and other activities defined by the operator.

Reports are categorized into three basic types: database related

reports (information on cardholders); access event related reports (who went where, when); and, presence reports (who is there now). The ACDB's Report Wizard provides a fast, efficient way for authorized users to customize each report using the information available in the database. Should information requested not be available in the local database, the ACDB will automatically retrieve the needed data from card reader controllers to ensure an accurate, up-to-the-minute report. The ACDB comes pre-loaded with a selection of commonly requested reports including Event History, Access Level, Cardholder Details, and Projected Holidays.

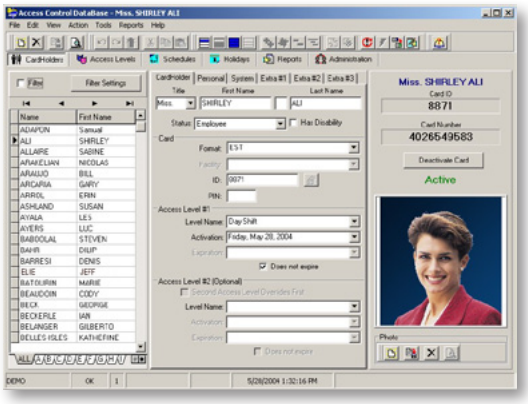
Uploading and downloading data

Cardholder privileges as configured in the ACDB, as well as event history, is stored throughout the facility in individual card reader controllers. Card reader controllers use this information to make all access decisions (see catalog sheet 85001-0528 for a complete description of EST's card reader controller).

Changes to the cardholder database can be quickly downloaded to the card reader controllers over telephone lines via modem. This makes the ACDB ideal for managing access systems at remote locations. To maximize system performance, the ACDB's Task Manager can be scheduled to upload and archive system event history during off-peak times. To maximize security, all data communications are encrypted. If a telephone line connection is not possible or desired, a direct RS-232 connection can be made from the ACDB computer to the control hardware.

Database Information

The cardholder screen provides a convenient tabbed display of personal information. Each operator can be assigned view and/or edit rights for each tab, ensuring that confidential information is not viewed or changed by operators who do not have such rights.



The ACDB puts all cardholder information within reach from a single, well-organized screen.

Each cardholder record includes the assigned access card ID number, assigned access levels, cardholder name and address information, and may include a photograph and PIN number. From the cardholder screen a disabled cardholder option facilitates the use of automatic door openers or other entry assistance devices when the users card is presented. This can help to provide a barrier free environment. With up to 30 operator-definable fields available, custom information like the names of spouses, children, emergency medical information, license plate number(s), hair and eye color, department, date of hire, supervisor etc. may be included under each card holder.

Should a cardholder leave the company, the ACDB allows their cards to be reused and re-issued. This saves the expense of a new card for each new person. Information about the previous cardholder remains in the access database's history, and historical events will be linked to the appropriate cardholder based on the time of the event.

Retrofit systems

The ACDB program is compatible with most existing card formats, and can support multiple formats at one time, making upgrading from an existing system easy and cost-efficient (see the card reader controller catalog sheet 85001-0528 for information on the reuse of existing card readers). The ACDB provides import capabilities for most standard database formats. This can greatly reduce the time needed to populate your ACDB database with basic cardholder information.

Optional configuration

Card Reader Controller configuration

The ACDB program allows the setting of various card reader controller (door) parameters. These include timers for anti-passback, delay times, two-man rule, door ajar alarm suppression, and PIN schedules.

Control options

As part of a truly integrated system, a single access control card can be used to perform functions other than just opening a door. The system supports command functions that can automatically disable the security system, turn on the lights, and set the thermostat to the occupied position. Command functions are also used to interface with an elevator controller to limit floor access.

Multiple tenant applications

When many tenants share a common system, each tenant may maintain his own database on his own computer. In this configuration there is no common repository of cardholder data. Each tenant database is totally independent of the other, eliminating the possibility of sensitive information getting into the wrong hands. Each tenant can program access to designated doors in their part of the facility, as well as common doors and elevator controls.

If a common network exists between tenants, the Access Control Database allows for this configuration. Here, a common PC server can hold the database for all tenants. Tenants use a client machine on the network to load cardholder information onto their partitioned section of the database. This type of configuration is ideally suited for landlord-supplied access control systems.

Integration with other database programs

The ACDB program provides import functionality that is designed to remove the need to populate data that may already exist in other databases or files. The ACDB allows the import of information contained in most common database formats into the ACDB. By using industry standard ODBC (Open Database connectivity), the information contained in databases such as Microsoft Access, SQL, and Oracle, can be easily used to populate the ACDB. This greatly reduces the time needed to get cardholder information loaded.

Engineering Specification

The access control database program shall be capable of creating, modifying, and deleting cardholder records. The program shall be fully password protected with assignable operator privileges. The database shall be Open Data Base Connectivity (ODBC) compliant. The program shall provide a minimum of 30 user definable fields for custom cardholder records. The program shall include

the ability to create up to 255 access levels and 255 schedules and 255 holidays. It must be possible to create rules that will have the effect of shifting holiday schedules to alternate days when the holiday falls on a Saturday or Sunday. It must be possible to assign more that one access level to a cardholder.

The program shall support both local and remote sites without the need for a dedicated PC or dedicated wiring, and shall work on any compatible PC equipped with a V.32bis or better compatible modem. The program shall be capable of downloading and uploading data from the system over dial-up telephone lines or may be directly connected. The program shall reside on <a stand-alone workstation> <on a LAN network with multiple operator workstations> <on a WAN network with multiple operator workstations>. The program shall be capable of operating under Windows 2000 or XP operating systems.

The program must provide the ability to adjust door times including but not limited to Unlock Timers, door Open timer, Door Ajar Timer. Where the program is used in a multi-tenant application, it must be possible to assign door resources to each tenant by door. Where multiple tenants share doors it must be possible for these common doors to have timers adjustable by the primary owner of the door only. Non-common doors (doors used by a specific company or tenant) must be able to have their timers adjustable by that company or tenant only.

The Access Control Database program must provide a variety of predefined reports as well as giving the ability to create user definable reports that may be configured to provide information on database fields as well as access event information. It must be possible to filter reports to obtain information based on date and or time of events. Any report data shall be exportable for use in other programs. Where an operator does not have privileges to information provided in a specific report the restricted information must not be displayed to that operator.

Predefined reports shall include but not be limited to:

Cardholder Report – including all fields from the standard and user defined cardholder records; **Card Transaction History Report** – listing of transaction history filtered by cardholder name, access level, start and stop date and time; **Projected Holiday; Operator Level; Resource Usage** – Per door, resource allocation details.

Specifications

Minimum PC requirements	400MHz processor or higher, 64 MB RAM, CD-ROM drive, minimum 650 Mb available hard disk space
Operating System	Windows® 2000, or XP support for “Client for Microsoft Networks” for LAN/WAN operation (see Note)
Modem required	V.32bis 14.4Kb compatible
Hard Disk required	20 Mb free space minimum up to 65 Mb if all required Windows components do not exist
Maximum number of Cardholders	50,000 (cardholders supported may be limited by hard drive space - typical record requires 2 kb plus photo file space
Access levels	255 supported
Holidays	255 supported
Schedules	255 supported
Card Formats Supported	Weigand 26, 32, 34, 38 bit, Edwards format, (other formats supported via Card Format Wizard
Max. Number of doors	30,000 per ACDB program, 4,000 per EST3 project

Windows XP is supported by ACDB Version 1.1 or higher.

Ordering Information

Catalog Number	Description	Shipping Wt. lb (kg)
ACDB8	Access Control Software - eight doors	N/A
ACDB8+	Access Control Software - eight-plus doors	N/A
ACDB-SVR	Access Control Database Server Application Software	N/A
ACDB-CLNT	Access Control Database Client Application Software	N/A
SoftKey	Software Key (order one for each PC running ACDB software). Comes with parallel port software key.	2 (.9)
SoftKeyUSB	Same as SoftKey, but comes with USB software key.	2 (.9)

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