



**LAKE GEUGA COMPUTER ASSOCIATION  
STATE REGION - ISA, LAKE COUNTY**

**SAS - 70**

**JULY 29, 2006 THROUGH JUNE 29, 2007**



**Mary Taylor, CPA**  
Auditor of State



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# Mary Taylor, CPA

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## INDEPENDENT ACCOUNTANT'S REPORT

Board of Directors  
Lake Geauga Computer Association (LGCA)  
8221 Auburn Road  
Concord Township, OH 44077

To Members of the Board:

We have examined the accompanying description of controls of the Lake Geauga Computer Association (LGCA) applicable to the processing of transactions for users of the Uniform School Accounting System (USAS), Uniform Staff Payroll System (USPS), School Asset Accounting System/Equipment Inventory Subsystem (SAAS/EIS), and Education Management Information System (EMIS). Our examination included procedures to obtain reasonable assurance about whether (1) the accompanying description presents fairly, in all material respects, the aspects of the LGCA's controls that may be relevant to a user organization's internal control as it relates to an audit of financial statements; (2) the controls included in the description were suitably designed to achieve the control objectives specified in the description, if those controls were complied with satisfactorily and user organizations applied the internal controls contemplated in the design of the LGCA's controls; and (3) such controls had been placed in operation as of June 29, 2007. The LGCA uses the services of the Northwest Ohio Computer Association (NWOCA) for systems development and maintenance of the USAS, USPS, SAAS/EIS and EMIS. The accompanying description includes only those controls and related control objectives of the LGCA, and does not include controls and related control objectives of NWOCA. Our examination did not extend to controls of NWOCA. The control objectives were specified by the LGCA management for the processing of USAS, USPS, SAAS/EIS, and EMIS with the assistance of the Ohio Department of Education. Our examination was performed in accordance with standards established by the American Institute of Certified Public Accountants and included those procedures we considered necessary in the circumstances to obtain a reasonable basis for rendering our opinion.

In our opinion, the accompanying description of the aforementioned controls presents fairly, in all material respects, the relevant aspects of the LGCA's controls that had been placed in operation as of June 29, 2007. Also, in our opinion, the controls, as described, are suitably designed to provide reasonable assurance the specified control objectives would be achieved if the described controls were complied with satisfactorily and user organizations applied the controls contemplated in the design of the LGCA's controls.

In addition to the procedures we considered necessary to render our opinion as expressed in the previous paragraph, we applied tests to specific controls, listed in Section III, to obtain evidence about their effectiveness in meeting the control objectives, described in Section III, during the period from July 29, 2006 to June 29, 2007. The specific controls and the nature, timing, extent, and results of the tests are listed in Section III. This information has been provided to user organizations of the LGCA and to their auditors to be taken into consideration along with information about the internal control at user organizations, when making assessments of control risk for user organizations. In our opinion, the controls that were tested, as described in Section III, were operating with sufficient effectiveness to provide reasonable, but not absolute, assurance the control objectives specified in Section III were achieved during the period from July 29, 2006 to June 29, 2007.

The relative effectiveness and significance of specific controls at the LGCA and their effect on assessments of control risk at user organizations are dependent on their interaction with the controls and other factors present at individual user organizations. We have performed no procedures to evaluate the effectiveness of controls at individual user organizations.

The information in Section IV describing the information technology center is presented by the LGCA to provide additional information and is not part of the LGCA's description of controls that may be relevant to a user organization's internal control. Such information has not been subjected to the procedures applied in the examination of the description of the controls applicable to the processing of transactions for user organizations and, accordingly, we express no opinion on it.

The description of controls at the LGCA is as of June 29, 2007, and information about tests of the operating effectiveness of specified controls covers the period from July 29, 2006 to June 29, 2007. Any projection of such information to the future is subject to the risk that, because of change, the description may no longer portray the controls in existence. The potential effectiveness of specific controls at the LGCA is subject to inherent limitations and, accordingly, errors or fraud may occur and not be detected. Furthermore, the projection of any conclusions, based on our findings, to future periods is subject to the risk that (1) changes made to the system or controls, (2) changes in processing requirements, or (3) changes required because of the passage of time may alter the validity of such conclusions.

This report is intended solely for use by the management of the LGCA, its user organizations, and the independent auditors of its user organizations.

A handwritten signature in black ink that reads "Mary Taylor". The signature is written in a cursive, flowing style.

Mary Taylor, CPA  
Auditor of State

June 29, 2007

## **SECTION II - ORGANIZATION'S DESCRIPTION OF CONTROLS**

### **CONTROL OBJECTIVES AND RELATED CONTROLS**

The LGCA's control objectives and related controls are included in section III of this report, "Information Provided by the Service Auditor," to eliminate the redundancy that would result from listing them here in section II and repeating them in section III. Although the control objectives and related controls are included in section III, they are, nevertheless, an integral part of the LGCA's description of controls.

### **OVERVIEW OF OPERATIONS**

The LGCA is one of 23 not-for-profit computer service organizations serving more than 890 educational entities and 1.4 million students in the state of Ohio. These service organizations, known as Information Technology Centers (ITCs), and their users make up the Ohio Education Computer Network (OECN) authorized pursuant to Section 3301.075 of the Revised Code. Such sites, in conjunction with the Ohio Department of Education (ODE), comprise a statewide delivery system to provide comprehensive, cost-efficient accounting and other administrative and instructional computer services for participating Ohio entities. Funding for this network and for the LGCA is derived from the state of Ohio and from user fees.

ITCs provide information technology services to school districts, community (charter) schools, JVS/career & technical, educational service centers (ESCs) and parochial schools; however, not all entities subscribe to the same services. Throughout the remainder of the report, the term "user organization" will be used to describe an entity which uses one or more of the following applications:

- Uniform School Accounting System (USAS).
- Uniform Staff Payroll System (USPS).
- School Asset Accounting System/Equipment Inventory Subsystem (SAAS/EIS).
- Education Management Information System (EMIS).
- Community School Average Daily Membership (CSADM).

ITCs are organized as either consortia under ORC 3313.92 or Council of Governments (COG) under ORC 167. ORC 3313.92 allows for school districts to create a partnership (a consortia) to resolve mutual needs. One of the members of the consortia is designated as fiscal agent. The fiscal agent provides all accounting, purchasing, and personnel services for the consortia. A "COG" under ORC chapter 167 allows for one or more governmental entities to join together to form a new legal entity. A COG can have its own treasurer, make its own purchases, hire staff, and have debt obligations. The Geauga County Educational Service Center serves as the fiscal agent for LGCA and performs certain functions that might otherwise be performed by the LGCA.

### **RELEVANT ASPECTS OF THE CONTROL ENVIRONMENT, RISK ASSESSMENT AND MONITORING**

#### ***Control Environment***

Operations are under the control of the director and the executive committee. The superintendent and treasurer of each member organization are members of the legislative body of the LGCA, known as the assembly. Each user organization has one vote, cast by the superintendent or his

designee. The assembly meets at least twice per year to estimate program costs, approve annual appropriations, select officers and other members of the executive committee, and approve other matters as determined to require the approval of the assembly.

The executive committee is the governing body of the LGCA and consists of six superintendents of member organizations and five treasurers and two "at large" members from the member user groups. The executive committee is required to meet at least quarterly. The executive committee has also established several advisory committees to assist in the operation of the LGCA and its programs. Standing committees include a planning/policy committee, a finance committee and a personnel committee.

The LGCA has prepared a continuous improvement plan as required by the Ohio Department of Education.

The LGCA employs a staff of 13 individuals and is supported by the following functional areas:

- *Operational Support:* Facilitates the implementation and operation of all supported software, and provides user training and support.
- *Systems Support:* Designs and supports the LGCA computer systems and its networked communications systems and provides user training and support.

The managers of each of the functional areas report to the director.

The LGCA is generally limited to recording user organization transactions and processing the related data. Users are responsible for authorization and initiation of all transactions. Management reinforces this segregation of duties as a part of its orientation process for new employees, through on the job training, and by restricting employee access to user data. Changes to user data are infrequent. Only experienced LGCA employees may alter user data and only at the request of the user organization. Documentation supporting the change is kept on file at LGCA; however LGCA has not received requests for changes to user data in recent years.

The LGCA follows the same personnel policies and procedures as their fiscal agent, the Geauga County Educational Service Center. Detailed job descriptions exist for all positions. The LGCA is constantly re-evaluating its need for personnel to provide for the increasing range of services provided. The reporting structure and job descriptions are periodically updated to create a more effective organization.

The LGCA's hiring practices place an emphasis on the hiring and development of skilled information technology professionals. Most positions within the organization require some type of college degree in a computer-related field.

The Management Council of the Ohio Education Network (MCOECN) has established the format for the staff development program including the requirements for continuing education units and the procedures for the regional staff development committees in each of the five regions of the MCOECN. Thus, LCGA staff members are required to attend professional development and other training as a condition of continued employment. Each staff member must attend at least 15 hours of approved professional development training annually, and at least 80 hours of approved training every four years. Formal employee evaluations are not conducted. Annual feedback is provided during the process of creating the continuous improvement plan (CIP). The executive director and the staff review organizational progress toward addressing CIP goals, and modify these goals to reflect current needs and resources. Individual feedback is provided throughout the year in one-on-one meetings. The meetings are informal and occur several times a month or as needed to address management concerns.

### ***Risk Assessment***

The LGCA does not have a formal risk management process; however, the executive committee actively participates in the oversight of the organization. As a regular part of its activity, the executive committee addresses:

- New technology.
- Realignment of the LGCA organization to provide better service.
- Personnel issues, including hiring and terminations.
- Additional services provided to user organizations and other entities.
- Changes in the operating environment as a result of ODE requirements, Auditor of State (AOS) and other accounting pronouncements, and legislative issues.

In addition, the LGCA has identified operational risks resulting from the nature of the services provided to the user organizations. These risks are primarily associated with computerized information systems. These risks are monitored as described under "Monitoring" below and in additional detail throughout the "General EDP Control" section of this report.

### ***Monitoring***

The LGCA organization is structured so that department managers report directly to the director. Key management employees have worked here for many years and are experienced with the systems and controls at the LGCA. The LGCA director and supervisory personnel monitor the quality of internal control performance as a routine part of their activities.

Hardware, software, network, database integrity, Internet usage, computer security and user help desk reports are monitored on an ongoing basis by departmental management. Some of these reports are automatically run through a scheduler program and are sent to management via e-mail. Exceptions to normal processing related to hardware, software or procedural problems are logged and resolved daily.

## **INFORMATION AND COMMUNICATION**

The aspects of the information and communication component of internal control as they affect the services provided to user organizations are discussed within the General EDP control section.

## GENERAL EDP CONTROLS

### *Development and Implementation of New Applications and Systems*

The LGCA staff does not perform system development activities. Instead, the LGCA uses the software developed and supplied by the State Software Development Team (SSDT), located at the Northwest Ohio Computer Association (NWOCA), another ITC of the OECN. The ODE determines the scope of software development for state-supported systems. Tactical means of accomplishing software development priorities are determined by the Software Advisory Committee (SAC), which consists of members from the Management Council of the OECN (MCOECN), the Ohio Association of School Business Officials (OASBO), the ODE and the SSDT. The SAC meets four times per year to discuss the status of proposed and ongoing projects.

### *Changes to Existing Applications or Hardware Systems*

End-users participate in the program development/change process via the Software Performance Report/Request (SPR) tracking procedure, which is maintained by the SSDT. The SPR system uses SiteScape Forum, which is used for electronic conferencing, to accept and discuss proposed software enhancements in a public forum. Each major software package (USAS, USPS, SAAS/EIS, EMIS) has its own public and ITC forum which is monitored by the SSDT system analysts. All OECN ITCs and a majority of user organizations have access to forum conferences, providing end-user participation in the program development/change process.

The LGCA personnel do not perform program maintenance activities. Instead, they use the applications supplied to them by the SSDT. The OECN requires the ITC to keep the version of each application current based on the provider's standard for continued support. Procedures are in place to ensure the SSDT developed applications are used as distributed. The SSDT, at NWOCA, copies zipped files containing the quarterly updates to the ITCs' systems. The source code is not distributed with these files. Release notes are contained within these files and explain the changes, enhancements and problems corrected. User and system manager manuals are also distributed with these releases. The SSDT informs the ITCs that they will support only the latest release of the state software beginning 30 days following the software release date.

The LGCA uses a software utility called OECN\_INSTALL to unpack these zipped files and install each individual package into its proper OECN directory. The OECN\_INSTALL utility has two options which will either install the new release on the system or install a patch for a current release. This utility ensures that all required components are installed properly and consistently.

Only vendor supplied changes are made to the operating system or system software documentation. The Northern Buckeye Education Council (NBEC), which acts as the fiscal agent for this and other participating ITCs, has entered into a license under the Campuswide Software License Grant Program (CSLG) through the MCOECN, for acquiring and/or providing software maintenance services for a limited series of HP software packages.

The services acquired and/or provided by the NBEC under the agreement include the following:

- Provide for the acquisition and distribution of software media for the participating ITCs for a limited series of HP software packages as approved by the board of trustees of the MCOECN.

- Provide telephone technical support to the participating ITCs' technical staff for a limited series of HP software packages approved by the board of trustees of the MCOECN.
- Track and maintain an accurate listing of all HP hardware and software covered under the agreement.
- Provide periodic training and update sessions covering the policies and regulations governing this program as well as updating the ITCs' technical staff on the latest releases of HP software packages covered under the agreement.

As a participating member of the program of the MCOECN the participating ITCs agree to the following:

- Read, sign, and comply with the rules and regulations of the CSLG program and the Education Software Library (ESL) program as operated by the NBEC on behalf of the MCOECN.
- Provide unrestricted, privileged access to all computer systems covered under the agreement for the purposes of identifying and/or correcting problems of distributed software.
- Provide HP or MCOECN representatives, upon prior written notice, with physical access to computer facilities at reasonable times during normal business hours to inspect sites and system records for compliance with the terms of the CSLG and ESL programs.
- Make payments to NBEC for services under the agreement within 30 days of the receipt of an invoice for said services.

Before new releases are installed at the LGCA, a backup of the application or operating system affected by the change is prepared to ensure retention of the existing application or operating system in case of an error stemming from the upgrade process.

The NBEC provides documentation and support for new releases of the operating system. New releases include documented changes to the operating system and implementation procedures. The NBEC provides OpenVMS documentation on the OECN web site, for the current version of the operating system, accessible by all ITCs. In addition, the LGCA has purchased its copy of the operating system disks from the NBEC via the MCOECN Value-Added Reseller (VAR) program which offers the operating system software at a reduced rate. Current release documentation is maintained by the LGCA.

### ***IT Security***

The LGCA has a security policy that outlines the responsibilities of user organization personnel, the LGCA personnel, and any individual or group not belonging to the user organization or the LGCA. In addition to the security policy, the LGCA uses a banner screen that is displayed before a user logs into the system. The screen informs the user that unauthorized use of the system is prohibited and individuals using this computer system are subject to having their activities monitored by the LGCA personnel.

The LGCA staff is granted access within the scope of their assigned duties, but only as may be necessary to maintain the data structure, research and correct problems, and provide backup capabilities. Access is established, granted and reviewed by the director.

User organization personnel are granted access upon the completion of an account request form. Access authorization is required from the superintendent or treasurer. A user listing, which indicates user access and privileges granted within the user organization, is sent out annually to the respective superintendents to verify the users on their system are properly authorized.

Security alarm messages are sent to an operator terminal that has been enabled to receive security event messages. Security audit messages are sent to the audit log file; alarms are sent to the operator log file. Access to the operator log and audit log is limited to data processing personnel. Critical events should be reported as both alarms and audits; less critical events can be written to a log file for later examination. The following security alarms and/or security audits have been enabled through OpenVMS to monitor any security violations on the LGCA system:

ACL:	Gives file owners the option to selectively alarm certain files and events. READ, WRITE, EXECUTE, DELETE, or CONTROL modes can be audited.
AUDIT:	Enabled by default to produce a record of when other security alarms were enabled or disabled.
AUTHORIZATION:	Enables monitoring of changes made to the system UAF or network proxy authorization file in addition to changes to the rights database.
BREAK-IN:	Produces a record of break-in attempts. The DIALUP, LOCAL, REMOTE, NETWORK, and DETACHED break-in types can be monitored.
LOGFAILURE:	Provides a record of logon failures. The BATCH, DIALUP, LOCAL, REMOTE, NETWORK, SUBPROCESS and DETACHED logon failure types can be monitored.
FILE ACCESS:	Monitors successful or unsuccessful access to a file or global section. The following access modes can be audited: READ, WRITE, EXECUTE, DELETE, or CONTROL.

A batch processed command procedure executes each night to extract security violations from the audit log and creates detail and summary reports of security events. These security monitor reports are e-mailed to the director and the director of technology and are reviewed daily. If an event is deemed suspicious, further investigation is performed to determine the exact nature of the event and the corrective action needed.

The LGCA uses Sophos Anti-Virus software on the Alpha server to scan all inbound and outbound e-mail. If a virus is found, the e-mail is quarantined and the LGCA user is sent an e-mail message informing them of the virus.

Primary logical access control to the HP computers is provided by security provisions of the OpenVMS operating system. This includes access to data, programs and system utilities. When a user logs in to use OpenVMS interactively, or when a batch or network job starts, OpenVMS creates a process which includes the identity of the user. OpenVMS manages access to the process information using its authorization data and internal security mechanisms.

The LGCA does not use proxy logins. A proxy login enables a user logged in at a remote node to be logged in automatically to a specific account at the local node, without having to supply any access control information. A proxy login differs from an interactive login because an interactive login requires a user to supply a user name and password before the user can perform any interactive operations.

User Identification Codes (UIC) are individually assigned to all data processing personnel employed at the LGCA and to all personnel at the user organizations which use the LGCA system. UICs are assigned at the user organization's request. UIC based protection controls access to objects such as files, directories, and volumes.

Certain limited-access accounts require a less restrictive environment than captive accounts. Accounts under which network objects run, for example, require temporary access to DCL. Such accounts are set up as restricted accounts, not captive accounts. User accounts are set with the RESTRICTED flag instead of the CAPTIVE flag if they need to use network applications like MAIL or network proxy accounts. The RESTRICTED and CAPTIVE flags are typically not used for LGCA staff accounts because access to the DCL prompt is necessary for them to perform their job functions. All other user organization personnel, such as treasurers, staff, teachers and students, are assigned the RESTRICTED and CAPTIVE flags. The RESTRICTED flag allows access to MAIL, but because the CAPTIVE flag is also assigned, the use of the SPAWN command to gain access to the DCL prompt is prohibited.

The system forces users, who use the various software packages, to periodically change their passwords. The DEFAULT account password lifetime and password length fields have been set according to the standards established by LGCA. Passwords are set to expire when a new user identification code is issued or when a user has forgotten his password. This parameter requires the user to change his password during the first logon procedure.

The operating system has system parameters called SYSGEN parameters, which, when set appropriately, control and monitor sign-on attempts. There are parameters in place to control certain aspects of the sign-on procedure, which include the following:

- The terminal name is part of the association string for the terminal mode of break-in detection.
- The user is restricted on the length of time they have to correctly enter a password on a terminal on which the system password is in effect.
- The number of times a user can try to log in over a phone line or network connection. Once the specified number of attempts has been made without success, the user loses the carrier.
- The length of time allowed between login retry attempts after each login failure.
- The length of time a user terminal, or node, is permitted to attempt a logon before the system assumes that a break-in attempt is occurring and evasive action is taken.
- The period for which evasive action is taken is variable and will grow as further logon failures are detected from the suspect source.
- The number of retry attempts allowed for users attempting to logon before evasive action consists of refusing to allow any logons during a designated period of time.

System parameter standards have been established through the use of HP established defaults. Any changes are logged and reviewed by the director.

A timeout program, HITMAN, is used to monitor terminal inactivity and log off inactive users after a predetermined period of time of non-use. The use of this program helps to reduce the risk of an unattended terminal being used to enter unauthorized transactions. Also, timeout programs aid in efficient use of system resources by maintaining connectivity with only active system users.

Associated with each object recognized by OpenVMS may be an access control list (ACL). When an access request is made to an object, ACLs are always checked first. An ACL may either grant or deny access to the user requesting the object. When an ACL fails to specifically grant access, the system then defaults to UIC-based protection.

The system directory contains security files that control the security parameters for the system. When a user attempts to gain access to an object, such as a file or directory, the system compares the user's UIC to the owner's UIC for that object. In UIC-based protection, the relationship between the user's UIC and the object's UIC determines whether access is granted. Owner relationships are divided into four categories:

- SYSTEM: Any of the following: (1) Users with a UIC group number between 1 and the SYSGEN parameter for MAXSYSGROUP (2) Users with system privileges (SYSPRV). (3) Users with group privileges (GRPPRV) whose UIC group number matches the UIC group number on the object. (4) Users whose UIC matches the owner UIC of the volume on which the file is located.
- OWNER: Users with the same UIC as the object's owner.
- GROUP: Users with the same UIC group number as the object's owner.
- WORLD: All users, including those in SYSTEM, OWNER, and GROUP.

Through the protection code, each category of users can be allowed or denied READ, WRITE, EXECUTE, and DELETE access. The default file protection is for (1) SYSTEM having READ, WRITE, EXECUTE, and DELETE capabilities; (2) OWNER having READ, WRITE, EXECUTE and DELETE capabilities; (3) GROUP having READ and EXECUTE capabilities; and (4) WORLD having no access capabilities.

Certain privileges can override all UIC-based and ACL protection. OpenVMS analyzes privileges included in the user's UAF record and places the user in one of seven categories depending on which privileges have been granted to the user. Default privileges are those authorized privileges that are automatically granted at login. If an authorized privilege is not a default privilege, it will not automatically be effective at login, and must be enabled or disabled by the user. All users, at the user organization, have NORMAL privileges.

The write and delete access capabilities are not activated for WORLD access to the files in the system directories. The UIC associated with each of these files is within the MAXSYSGROUP number. To limit access to security files, the LGCA has limited the WORLD access for the authorization file, which contains account information to identify which users are allowed access to accounts on the system; the proxy file, which contains proxy account information to identify which remote users are allowed access to proxy accounts on the system; and the rights file, which contains names of the reserved system identifiers and identifiers for each user.

Access to the OECN software packages is controlled at the ITC level by a security mechanism called the OECN Security Authorization (OSA) utility. Access to specific packages is provided by granting the appropriate OpenVMS identifiers to authorized users. Each application package

has a set of unique identifiers that permit access to programs. In addition to the standard identifiers for each package, a pass through identifier can be used to further customize access. OSA is used in conjunction with the OECN menu processor utility thus allowing the users to see only the items they are authorized to execute. UIC-based protection prevents WORLD write or delete access to the USAS, USPS, SAAS/EIS and EMIS application data files.

The LGCA uses a Cisco PIX (Private Internet Exchange) firewall to control traffic to and from the Internet. User organizations have been set up with sub-networks which have addresses not recognizable to the Internet. This is called a private internal network. Some of the user organizations and LGCA mail and web servers are set up with public addresses. These addresses are specifically identified in the PIX firewall configuration. In addition, access to the production server is restricted to specific IP addresses.

The computer room is located within an enclosed area of the LGCA offices. Both the LGCA offices and the computer room are secured at all times with an electronic key system. The only individuals with electronic keys to the computer room are the LGCA staff. There is a motion sensor that is activated outside the computer room after the close of business for the day.

The following items assist in controlling the computer room to protect it from adverse environmental conditions:

- Fire extinguishers.
- HFC 277ea extinguishing system.
- Temperature control device.
- Motion sensors.
- An uninterruptible power supply and a diesel powered backup generator.

### ***IT Operations***

Traditional computer operations procedures are minimal because users at the user organizations initiate all application jobs and are primarily responsible for ensuring the timeliness and completeness of processing. All LGCA employees have access to operational procedures to provide direction and guidance for most of the operational functions performed. They also have access to the operations procedure manuals for the Alpha system. In addition, all users, except students, have access to SiteScape Forum, which is a bulletin board that allows the LGCA employees to communicate with users across the state. Users can post questions and/or comments to the LGCA staff.

Occasionally, software problems may occur which require intervention by the ITC staff. Support staff members are instructed not to make data changes unless requested in writing. LGCA did not make any changes to user data during 2007. The user organizations have the option of printing an AUDIT report that shows activity changes to their data files.

Certain routine jobs are initiated for system maintenance. LGCA is responsible for operational maintenance tasks, such as system backups, log reports, and other maintenance directed at the whole system. They use an automated program called DECScheduler which schedules and performs these tasks. DECScheduler is a program which continually submits jobs on the Alpha system.

The director of technology monitors for disk drive failures daily. For technical and software support, problems are logged through the Computer Associates (CA) Unicenter ServicePlus Service Desk (help desk) software. The help desk is a statewide application. The LGCA staff log the reason for the call, the user organization reporting the problem, priority, severity, impact, root cause, the staff member assigned, the date and time, and the state of the call (in-progress, first alert, closed). The resolution of the problem must be logged before the call can be closed.

LGCA has a maintenance agreement with HP for the computer equipment used at the data center.

Network and Internet traffic is monitored on a regular basis. The tools used to monitor traffic on the router and firewalls are typically used for trouble shooting purposes only. WhatsUp Gold is used to monitor physical connections to the network. This tool provides information regarding problems with physical network connections. In addition, the director of technology uses Multi Router Traffic Grapher (MRTG) software to monitor network traffic. This tool reports information regarding network traffic, link speed and port errors.

The LGCA performs backups of both system data and programs. A full backup for the Alpha server is completed daily on super digital linear tapes (DLT). These tapes are stored in a fire-resistant safe off-site at the Auburn Career Center, located across the street from the LGCA.

Daily backup tapes are kept in a one month rotation and year-end tapes dating back to 1981 are kept at LGCA in the Auburn Career Center fire resistant safe. A backup tape log is maintained by the technical support specialist. A short version of a printout of the backup completion status is reviewed by the technical support specialist. If a problem with the backup has occurred, a full backup log is reviewed to identify the exact point of failure. The status of the prior night's backup process is e-mailed to the director of technology.

In addition, all data processing equipment is covered under an insurance policy.

### **SECTION III - INFORMATION PROVIDED BY THE SERVICE AUDITOR**

*This section is intended to provide interested parties with information sufficient to obtain an understanding of those aspects of the LGCA's internal control that may be relevant to user organization's internal control, and reduce the assessed level of control risk below the maximum for certain financial statement assertions.*

*The broad objectives of data processing controls should be achieved by a combination of the procedures that are employed in various segments of the transaction processing system, for example procedures performed at the LGCA and procedures performed at user organizations that utilize the LGCA.*

*For each of the control objectives listed below, only those controls which contribute to the attainment of the related control objective are described and were tested.*

## GENERAL EDP CONTROLS PLACED IN OPERATION AND TESTS OF OPERATING EFFECTIVENESS

### Changes to Existing Applications or Hardware Systems

<b>Changes to Existing Applications or Hardware Systems - Control Objective:</b> <b>Change Requests</b> - Management should be involved in monitoring changes/upgrades to existing applications or systems to ensure they operate as intended.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
In order to maintain continued support of the application software provided by the SSDT, ITCs are required to install new releases within 30 days of the software release date.	A cyclical redundancy check (CRC) of the USAS, USPS, SAAS/EIS, and EMIS object files at LGCA was compared to the CRCs of the object files at NWOCA.	No relevant exceptions noted.
The SSDT distributes release notes explaining the changes, enhancements and problems corrected. Updated user and system manuals for the applications are also made available.	Inspected the release notes and updated manuals for the most recent releases.	No exceptions noted.
The LGCA participates in the CSLG/ESL program which provides operating system support, software upgrades and software related documentation.	Inspected a checklist maintained by the NWOCA to track receipt and payment of the CSLG/ESL agreements for each ITC.	No exceptions noted.
The SSDT provides all ITCs with documentation for the current version of the operating system.	Observed the online manuals at the OECN web site.	No exceptions noted.

### IT Security

<b>IT Security - Control Objective:</b> <b>Security Management</b> - Management should ensure the implementation of access control policies, which are based on the level of risk arising from access to programs and data.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
The LGCA has established a data system security policy that outlines user responsibilities regarding computer security and access.	Inspected the data system security policy to confirm user responsibilities are documented.	Control operating as described.

<b>IT Security - Control Objective:</b> <b>Security Management</b> - Management should ensure the implementation of access control policies, which are based on the level of risk arising from access to programs and data.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
An account request form is used to document requests for access to the financial applications. Authorization from the treasurer or superintendent of the user organization is required before user accounts are created.	Using a security analysis tool, selected 60 user accounts with identifiers for USAS, USPS, SAAS/EIS, or EMIS from a population of 528 active accounts.  Inspected the account application forms to confirm the required signatures were present.	Access authorization documentation was not on file for a new LGCA employee.  No other exceptions noted.
User access is confirmed annually with organization management through a positive confirmation process. User organizations are asked to confirm the accounts when they sign and return their service agreement with LGCA.	Inspected the signed account confirmations to confirm responses were received from all user organizations.	No relevant exceptions noted.
A banner screen is displayed before a user logs on to the system warning against unauthorized access and use of the system. The banner screen text is included in the startup process for the system.	Inspected the banner screen displayed during the login process.  Inspected the startup file to confirm the banner screen is part of the startup process.	Control operating as described.
Detection control alarms are enabled through OpenVMS to track security related events, such as break-in attempts and excessive login failures. The events are logged to audit journals for monitoring of potential security violations.	Inspected the enabled security alarms and audits.	No exceptions noted.
A command procedure executes each night to extract security violations from the audit log and create summary and detail reports called the security monitor report.  The security monitor report is generated daily and is e-mailed to the executive director and director of technology.	Inspected the following information relating to the security monitor report to confirm these reports are produced and available for review daily:  <ul style="list-style-type: none"> <li>• Command procedure used to generate the report.</li> <li>• An example security monitor report.</li> </ul>	Controls operating as described.

<b>IT Security - Control Objective:</b> <b>Security Management</b> - Management should ensure the implementation of access control policies, which are based on the level of risk arising from access to programs and data.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
<p>Anti-virus software is installed and definitions are automatically updated to help prevent and detect computer viruses.</p> <p>A file within the PMDF, Internet messaging application, searches for the words "virus" and "alert" in e-mail messages from the virus software vendor, Sophos. Upon receipt of the alerts, a command procedure is automatically initiated to download the latest virus identity (IDE) files from Sophos.</p>	<p>Inspected the following to confirm the anti-virus software is maintained to adequately prevent and detect computer viruses:</p> <ul style="list-style-type: none"> <li>• PMDF file used to initiate the anti-virus update command procedure.</li> <li>• Command procedure used to download anti-virus updates.</li> <li>• An example e-mail from Sophos indicating a virus alert.</li> <li>• Printout of the current Sophos product version and latest virus identity (IDE) files.</li> </ul>	<p>No exceptions noted.</p>
<b>User Control Considerations:</b> <p>User organization management should make users aware of the confidential nature of passwords and the precautions necessary to maintain their confidentiality.</p> <p>User organization management should immediately request the ITC to revoke the access privileges of user organization personnel when they leave or are otherwise terminated.</p> <p>User organization personnel should respond to account confirmation requests from their ITC.</p> <p>User organizations should have documented acceptable use policies to define the activities deemed appropriate for use of the Internet. Internet users should be required to accept the terms of the policy before access is provided.</p>		

<b>IT Security - Control Objective:</b> <b>System Level Access Controls</b> - Access to the computer system, programs, and data should be appropriately restricted.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
Individual user profiles are used to grant access rights and privileges for the system. The use of inactive, disabled, or high-privileged profiles is limited.	<p>Using a security analysis tool, extracted information from the user authorization file to identify:</p> <ul style="list-style-type: none"> <li>• User accounts that have never logged into the system.</li> <li>• Inactive user accounts, defined as those accounts that have not been logged into in 180 days.</li> <li>• User accounts that are DISUSERED.</li> <li>• User accounts with ELEVATED privileges, defined as those accounts having more than the minimum privileges to use the system.</li> </ul> <p>Inspected the results of the extracted information and inquired with the director of technology regarding the appropriateness of the accounts.</p>	No relevant exceptions noted.
Password parameters are in place to aid in the authentication of user access to the production system. Passwords used by individual profiles are in agreement with the password policies established by LGCA. The number of user profiles with pre-expired passwords is limited.	<p>Using a security analysis tool, extracted information from the user authorization file to identify:</p> <ul style="list-style-type: none"> <li>• User accounts with a password length less than LGCA's standards.</li> <li>• User accounts with a password lifetime greater than LGCA's standards.</li> <li>• User accounts with pre-expired passwords.</li> </ul> <p>Inspected the above exception reports and inquired with the director of technology to identify relevant exceptions.</p>	No relevant exceptions noted.
The LGCA does not use proxy logins for remote access	Inspected the network proxy listing to confirm there were no proxy logins in existence.	Control operating as described.

<b>IT Security - Control Objective:</b> <b>System Level Access Controls</b> - Access to the computer system, programs, and data should be appropriately restricted.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
Access to the OpenVMS system command line (DCL) is restricted to authorized users of the system.	Using a security analysis tool, extracted user accounts that do not have the AUDIT, CAPTIVE, DISCTYLY, DISUSER or RESTRICTED flags set.  Inspected the results of the extracted information and inquired with the director of technology regarding the appropriateness of these accounts.	No relevant exceptions noted.
Log-in parameters have been set to control and monitor sign-on attempts.	Inspected the log-in parameter settings.	No exceptions noted.
A program, HITMAN, constantly monitors terminal activity and logs off inactive users. The program is part of the startup command ensuring the program is consistently executed at startup.	Inspected the HITMAN parameters (prime and non-prime) to confirm they were set to automatically logoff inactive users.  Inspected the startup file to confirm the HITMAN utility is part of the startup procedures.	No exceptions noted.
Access to production programs and data files is properly restricted.	Using a security analysis tool, identified and inspected production data files with WORLD access and executable files with WORLD write and/or delete access.	No exceptions noted.
A private internal network and firewall are used to control Internet traffic and maintain a logical segregation between user organizations.	Inspected the network diagram to confirm components of the network which control Internet access.  Inspected the router and firewall configurations to confirm Internet traffic is restricted through the firewall. In addition, confirmed the existence of a private internal network.	No exceptions noted.

<b>IT Security - Control Objective:</b> <b>Application Level Access Controls</b> - Access to particular functions within applications (e.g., approving payment of vendors) should be appropriately restricted to ensure the segregation of duties and prevent unauthorized activity.		<b>Control Objective Has Been Met</b>
<b>Control Procedures:</b>	<b>Test Descriptions:</b>	<b>Test Results:</b>
Users are restricted to predefined logical access identifiers that grant varying access privileges based on requests from user management.	Using a security analysis tool, extracted accounts with the OECN identifiers for the USAS, USPS, SAAS/EIS, and EMIS application systems.  Inspected the reports to determine whether identifiers were used to segregate access to the applications.  Inquired with the director of technology regarding the OSA utility and the process used to assign application identifiers.	No exceptions noted.
The OECN_SYSMAN identifier that grants all access privileges for all state developed applications is restricted to authorized ITC personnel.	Using a security analysis tool, extracted accounts from the user authorization file with the OECN_SYSMAN identifier. Inspected the list of accounts.  Inquired with the associate director regarding the appropriateness of the listed accounts.	No exceptions noted.
An account authorization form is used to request access to the USAS, USPS, SAAS/EIS, and EMIS application systems.	Using a security analysis tool, selected 60 user accounts with identifiers for the USAS, USPS, SAAS/EIS, or EMIS applications from a population of 528 active accounts.  Compared the access requested per the account authorization forms to the actual access granted.	The following exceptions were noted: <ul style="list-style-type: none"> <li>• Access authorization documentation was not on file for a new LGCA employee.</li> <li>• One user account was granted full access to the EIS application which was in excess of the read-only access authorized per the account authorization form.</li> </ul>
<b>User Control Consideration:</b> User Identification Codes (UICs), passwords and access privileges should only be issued to authorized users who need access to computer resources to perform their job function.		

<b>IT Security - Control Objective:</b> <b>System Software and Utilities Access Controls</b> - Use of master passwords, powerful utilities, and system manager facilities, should be adequately controlled.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
System level UICs are restricted to authorized personnel. UICs belonging to the system group are determined by the parameter value for MAXSYSGROUP. UICs less than the MAXSYSGROUP value have system level privileges.	Identified the MAXSYSGROUP value.  Using a security analysis tool, extracted accounts from the user authorization file with a UIC less than the MAXSYSGROUP value.  Inspected the listing and inquired with the directory of technology regarding the appropriateness of the listed accounts.	No relevant exceptions noted.
Use of an alternate user authorization file is not permitted.	Inspected the value of the alternate user authorization file parameter to identify if an alternate file is permitted.  Inspected the system directory listings to determine if an alternate user authorization file existed.	No exceptions noted.
WORLD access to "key" system and security files is restricted.	Inspected the system file directory listing for WORLD write or delete access.  Inspected the file protection masks on the security files.	No exceptions noted.
Remote access to the firewall used to control Internet access is restricted through password protection.	Inspected the firewall configuration to confirm passwords were enabled and to confirm that remote access was restricted.  Independently inquired with the director of technology and the communications/network specialist to confirm they are the only individuals with knowledge of the passwords for the firewall.	No exceptions noted.

<b>IT Security - Control Objective:</b> <b>System Software and Utilities Access Controls</b> - Use of master passwords, powerful utilities, and system manager facilities, should be adequately controlled.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
Firewall configuration changes are authorized via help desk requests from user organization technology coordinators to the director of technology or the communications/network specialist.	Selected statements related to the Alpha and inquired with the director of technology regarding the purpose of each statement.  Also, selected five user organization statements in the firewall and inspected the authorization documentation.	No exceptions noted.
Technical coordinators at the user organizations are asked to confirm the network security information on an annual basis.	Inspected the signed network security confirmations to confirm responses were received from all user organizations.	No exceptions noted.

<b>IT Security - Control Objective:</b> <b>Physical Security</b> - Computer facilities and data should have appropriate physical access restrictions and be properly protected from environmental dangers.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
Physical access to the computer room and its contents is restricted to authorized personnel.	Observed the existence of motion sensors and an electronic key entry system.  Inquired with the director of technology about the physical access controls.	No exceptions noted.
Environmental controls are in place to protect against and/or detect fire, changes in temperature, and power fluctuations.	Inspected the computer room and observed the following environmental controls: <ul style="list-style-type: none"> <li>• Fire extinguishers.</li> <li>• HFC 277ea extinguishing system.</li> <li>• Temperature control device.</li> <li>• Uninterruptible power supply.</li> <li>• Backup generator.</li> </ul>	No exceptions noted.

<b>IT Security - Control Objective:</b> <b>Physical Security</b> - Computer facilities and data should have appropriate physical access restrictions and be properly protected from environmental dangers.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
<p><b>User Control Considerations:</b> PCs and terminals should be protected against damage or misuse by having separate areas, either independent rooms or sections of rooms that restrict access to only authorized individuals.</p> <p>Communication lines, junctions and modems should be secured in an area that restricts access to only authorized individuals.</p>		

**IT Operations**

<b>IT Operations - Control Objective:</b> <b>System Administration and Maintenance</b> - Appropriate procedures should be established to ensure the system is properly maintained and monitored.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
The LGCA has an overall operating procedure manual that is available at all times to the LGCA personnel. In addition, current Alpha manuals are maintained on-site and online.	<p>Inspected the content of the LGCA procedure manual.</p> <p>Confirmed the availability of the Alpha manuals both on-site at LGCA and online.</p>	No exceptions noted.
The LGCA performs certain routine jobs for system maintenance through a scheduling program, DECScheduler.	<p>Inspected the DECScheduler listing of jobs.</p> <p>Inspected the OpenVMS system startup file printout to confirm that DECScheduler was initialized during the startup of the system.</p>	No exceptions noted.
Requests for changes to user organization data must be authorized by the user organization via e-mail or help desk request.	Independently inquired with the USAS, USPS, SAAS/EIS, and EMIS user liaisons and the director of technology regarding the procedures for changing user data.	Control operating as described.

<b>IT Operations - Control Objective:</b> <b>System Administration and Maintenance</b> - Appropriate procedures should be established to ensure the system is properly maintained and monitored.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
The LGCA uses a help desk database to track problems.	Inspected the help desk summary report. Inquired with the director of technology and the technical support specialist about the process for documenting technical and software support calls and tracking problem resolution.	No exceptions noted.
Device errors are automatically displayed when the director of technology logs into the system. The director of technology monitors these device errors daily.	Inspected a printout of the device error listing displayed upon login of the director of technology.  Inquired of the director of technology regarding the procedures for monitoring device errors.	No exceptions noted.
A service agreement with HP covers maintenance and failures of the computer hardware.	Inspected the HP hardware service agreement for services covered and period of coverage.	No exceptions noted.
WhatsUp Gold network manager is used to monitor the network for hardware failures. The software displays the physical network connections in a graphical network diagram and highlights problem areas.	Physically observed online the use of WhatsUp Gold by the technical support specialist.	No exceptions noted.
Multi Router Traffic Grapher (MRTG) software is used to monitor network traffic.	Physically observed online the use of MRTG software for traffic analysis with the assistance of the director of technology.	No exceptions noted.
Data center equipment is covered by insurance.	Inspected the insurance policy and payment documentation for evidence of coverage.	No exceptions noted.

<b>IT Operations - Control Objective:</b> <b>Backup</b> - Up-to-date backups of programs and data should be available in emergencies.		<b>Control Objective Has Been Met</b>
<i>Control Procedures:</i>	<i>Test Descriptions:</i>	<i>Test Results:</i>
Backups of programs and data are performed daily.	Inspected the DECScheduler listing of jobs and the Archive Backup System (ABS) application command file to confirm the backup job was scheduled to run daily.  Inspected an example backup log which is e-mailed to the director of technology and the technical support specialist.	No exceptions noted.
Backup tapes are stored in a secure off-site location.	Inspected the off-site storage facility with the technical support specialist.  Confirmed tapes listed on the backup tape inventory listing on June 18 were stored off-site.	The LGCA's off-site storage facility for backup tapes is located directly across the street. No other relevant exceptions noted.
<b>User Control Considerations:</b> The user organization should retain source documents for an adequate period to ensure data can be re-entered in the event that data files are destroyed prior to being backed up and rotated off-site.  The user organization should establish and enforce a formal data retention schedule with their ITC for the various application data files.		

## SECTION IV - OTHER INFORMATION PROVIDED BY THE SERVICE ORGANIZATION

### INFORMATION TECHNOLOGY CENTER PROFILE OHIO EDUCATION COMPUTER NETWORK

#### SITE DATA

Name: Lake Geauga Computer Association (LGCA)  
Number: 6  
Node Name: LGCA

Chairperson: Matthew Galemmo  
Superintendent  
Geauga County Educational Service Center

Fiscal Agent: Geauga County Educational Service Center

Administrator: James C. Turk  
Executive Director  
LGCA

Address: 8221 Auburn Road  
Concord Township, OH 44077

Telephone: 440-357-9383  
FAX: 440-357-8713

Web site: [www.lgca.org](http://www.lgca.org)

OTHER SITE STAFF

Brian Ruffner	Director of technology
Daniel Salaciak	Technical support
Bob Wurm	Technical support
John Renwick	Technical support
Sue Vinborg	Student liaison
John Klein	Student liaison
Kim Adams	Student liaison
Barb Borris	EMIS liaison
Shirley Erjavec	Fiscal liaison
Kim Rhoads	Fiscal liaison
John Greaves	InfoOhio liaison
Barb Reynolds	InfoOhio liaison

HARDWARE DATA

Central Processors and Peripheral Equipment

**CPU Unit 1**

<u>Model Number:</u>		<u>Installed:</u>		<u>Capacity/Density/Speed:</u>	
CPU:	Compaq Alpha Server 41000 (QUAD 600MHZ CPU)	Lines/Ports:	N/A	Memory Installed:	7 GB
Disk:	FiberChannel	Units:	4	Total Capacity:	2.7 TB
Storage Enclosure:	AP eva3000	Units:	1		
Controller:	Dual HSU100	Units:	1		
Tape Library:	MSL5000	Units:	1		
Tape Drives:	SDUT 160/320	Units:	2	Max Density:	160/320 SDUT
Printer	LG06	Units:	1	Print Speed:	600 LPM

**User Organization Site Data**

<u>IRN</u>	<u>User Organization</u>	<u>COUNTY</u>	<u>USAS</u>	<u>USPS</u>	<u>SAAS</u>	<u>EMIS</u>
043554	Beachwood City SD	Cuyahoga	X	X		X
045286	Chagrin Falls Exempted Village SD	Cuyahoga	X	X	X	X
043950	Euclid City SD	Cuyahoga				X
045005	Warrensville Heights City SD	Cuyahoga	X	X	X	X
041767	Berkshire Local SD	Geauga	X	X	X	X
047175	Cardinal Local SD	Geauga	X	X	X	X
047183	Chardon Local SD	Geauga	X	X	X	X
047159	Geauga County Educational Service Center	Geauga	X	X	X	X
047191	Kenston Local SD	Geauga	X	X	X	X
047209	Ledgemont Local SD	Geauga	X	X		X
047217	Newbury Local SD	Geauga	X	X	X	X
047225	West Geauga Local SD	Geauga	X	X	X	X
051169	Auburn Joint Vocational SD	Lake	X	X	X	X
045369	Fairport Harbor Exempted Village SD	Lake	X	X		X
047878	Kirtland Local SD	Lake	X	X	X	X
047860	Lake County Educational Service Center	Lake	X	X		X
044628	Painesville City Local SD	Lake	X	X	X	X
047886	Madison Local SD	Lake				X
045492	Mentor Exempted Village SD	Lake				X
047894	Painesville Township Local SD	Lake	X	X	X	X
047902	Perry Local SD	Lake	X	X		X
045088	Wickliffe City SD	Lake				X
045104	Willoughby-Eastlake City SD	Lake				X
<b>TOTALS:</b>			<b>18</b>	<b>18</b>	<b>13</b>	<b>23</b>



**Mary Taylor, CPA**  
Auditor of State

**LAKE GEAUGA COMPUTER ASSOCIATION  
(LGCA)**

**LAKE COUNTY**

**CLERK'S CERTIFICATION**

**This is a true and correct copy of the report which is required to be filed in the Office of the Auditor of State pursuant to Section 117.26, Revised Code, and which is filed in Columbus, Ohio.**

*Susan Babbitt*

**CLERK OF THE BUREAU**

**CERTIFIED  
OCTOBER 9, 2007**