

Security Policies

Security and privacy of information is a top priority of Safety In Schools. Providing a solution that ensures all information providers are always in control of who can access their data is critical to our success, since we are entrusted with the stewardship of highly sensitive, confidential information.

Distributed Architecture

Safety In Schools has deployed its technical infrastructure using a distributed architecture technology. This provides for 99.99% guaranteed scheduled up time, eliminating the pitfalls of Disaster Recovery and Business Continuity (DRBC) processes and plans. With automatic integral failover across multiple servers in separate locations delivery is ensured.

The Safety In Schools servers are installed in two separate, secure data centers. The data centers are located in Calgary, Alberta and Vancouver, British Columbia, Canada. Both centers are connected to the North American Internet backbone using two separate major network providers at both locations.

Each data center houses a minimum of two large capacity physical servers owned by Safety In Schools. Each physical server in each data center is configured to run multiple virtual servers. The database server clusters run on virtual servers, separate from the web application and file system virtual servers. All virtual servers on one physical server are paired with a matching virtual server on the other physical server.

The servers run as a load balanced cluster. The file systems and database clusters are mirrored between all server pairs and between each data center, providing for full redundancy across four hardware platforms distributed across two North American Locations. This configuration assures availability even if one or more servers, or even an entire hosting centre, fails.

Physical Security

The Safety In Schools server platform resides in secure, bunkered data hosting facilities. The facility provides:

- Protection against unauthorized access through the use of two-factor card-key and user password, as well as on-site security personnel and 24 hour video monitoring.
- Redundant multiple connections to the primary Internet backbone to protect against loss of network connectivity.
- Redundant power supplies and independent power generators to ensure continuity in the event of electrical supply problems.
- Fire and flood mitigation and suppression systems.

Network (Electronic Security)

The software, computing and communications hardware that enable the Safety In Schools platform is protected by firewalls and surveillance equipment.

- All internal process communications within the hosting facility and between the primary Safety In Schools platform and all distributed nodes or components are encrypted with 128 or 256-bit encryption algorithms, which is equal to or significantly higher standard than what is deployed and deemed acceptable by major banks.
- Security also applies to the connections between the client's systems and the Safety In Schools platform. Safety In Schools will recommend and deploy the best method for securely exchanging data. Safety In Schools will accommodate a customer's preferred method, only on the condition that such method does not compromise the security or integrity of the Safety In Schools platform, data, or that of our other clients.
- Typically, interaction between a client's system and Safety In Schools Utility is protected by firewalls at both sites and incorporates 128-bit or 256-bit encryption to ensure privacy of the information.

Personnel Security

The importance of correct handling of sensitive information is ingrained in our corporate culture..

- Staff screening, hiring and management practices place emphasis on integrity and accountability and the rules for accessing client data.
- Access to client data is restricted to only those who need it to perform the required service.
- Employees are trained to fulfill their roles as trusted guardians of our client's sensitive data.
- Policies regarding staff turn-over or termination ensure the discontinuation of data access when required.

Security Features of the Safety In Schools web service

The following security features are being incorporated into the Web Service:

- All data is stored in a SQL database that is housed in our secure facility, along with the main system. External ports are closed. Key IT personnel have access to the system and database facility via secure VPN and SSH connections.
- **Secure Socket Layer protocol.** Logon page and services are only accessible via HTTPS 128-bit encryption. This ensures that the bit stream between the servers and client is, at all times, encrypted. This requires a trusted public certificate. Our single-root CA 128/256 SSL certificate ensures us that the authenticity of our certification is recognized by all browsers.
- **Passwords are stored using a standard DES one-way encryption algorithm.** The use of one-way encryption means that no key exists that would enable it to be decrypted. In order to logon successfully, a user's password must encrypt to the identical pattern as the stored reference, but there is no way to otherwise know what that password is. This means that even Safety In Schools staff have no means of determining a user's password and can only perform a reset.
- **CAPTCHA feature for performing Logon and Agreement.** CAPTCHA stands for "Completely Automated Public Turing test to Tell Computers and Humans Apart". Essentially, it is a test that humans can easily answer, but is extremely difficult (nothing's impossible) for a software program to handle. This feature works by generating an image representation of a random number. An automated software program, attempting to break in, would need to employ sophisticated optical character recognition to attempt to get the number. This technique is growing in popularity, but is still found on only the more sophisticated web applications.
- **Multi-level entitlement/authorization system.** Every page or feature in the application can be set to work for a specific level of authorization and can enable feature subsets based on specific service options associated with the specific user or their member account. Both the top and left menus will display only those features that the user is allowed. Any attempt to bypass the menu and target the browser directly to a page that the user is not authorized to access will force a logon scenario.
- **Code is guarded against "SQL Insertion" attacks.** Some secure web service developers are unaware of the techniques that can be used to override seemingly safe user inputs in order to take control of the database. This application will thwart any such attempt.
- **Activity logging.** The application will log significant activities, such as Member or User profile Adds/changes/deletions. These logs will be viewable by Safety In Schools staff and administrators. Important activities or requests will be queued up for staff/admin to take action such as invoicing or audit.
- **Error/Exception reporting.** The system automatically sends comprehensive error reports to the development group in the event of a software error or unhandled exception. This enables us to provide rapid response to any customer-affecting problem, and enhances our continuous improvement efforts.
- **Archives/Backups.** Deleted database records will be sent to an archive (a mirror of the main database structure), so that data is recoverable in the event of an accidental deletion. Full data backups are securely transferred to a secure offsite location, either by physical or electronic means, to provide business continuity in case of unforeseen catastrophe affecting the primary site.
- **Integration.** Any data exchange between the Safety In Schools platform and client or third party (WCBoards, Insurance providers, etc) is required to meet the Safety In Schools security standards. Safety In Schools has developed Safety In SchoolsX client integration component which is used to perform controlled data import and export functions using secure SOAP/SSL communication protocols. This solution provides secure exchange of information without requiring alterations to the client's existing firewalls and security measures.

Privacy Policies

Safety In Schools Privacy Guidelines incorporate the provisions of Part 1 of the Personal Information and Electronic Documents Act (PIPEDA - Government of Canada), the principals of the Personal Information Protection Act (PIPA - Government of Alberta) and the ten principles of the Canadian Standards Association (CSA) Model Code for the Protection of Personal Information.

Application of Privacy Principles:

1. RESPONSIBILITY:

Safety In Schools has appointed a Privacy Officer who is responsible for ensuring compliance with Safety In Schools Privacy Policy and Guidelines. Responsibility rests with the Privacy Officer even though other individuals within Safety In Schools may be responsible for the day-to-day collection and processing of personal information. The privacy officer for Safety In Schools is the manager of customer service.

Safety In Schools is responsible for all personal information in its possession or control, including information that has been transferred to a third party for processing.

Safety In Schools will use contracts or other means to provide an appropriate level of protection when a third party processes information on behalf of the company. Safety In Schools will, from time to time, establish procedures to implement its commitment to privacy, including:

- Procedures to protect personal information.
- Procedures to receive and respond to complaints and inquiries.
- Communications and training programs to provide information to Safety In Schools staff about privacy policies and practices.

2. IDENTIFYING PURPOSES:

Collection of students' personal information will be done by the school only. Personal student information - specifically first and last names - will only be used for inclusion on the certificates of completion for each course.

Users' e-mail addresses will be used as identification for personal login to the Safety in Schools system. Otherwise, personal user information will only be used for communications directly related to the Safety in Schools program.

Teachers who have been authorized and set up with a Safety in Schools login and password have access to their students' personal information in order to make updates as necessary.

3. CONSENT:

Safety In Schools uses reasonable efforts to ensure that individuals understand how their personal information will be used. Safety In Schools obtains consent as required for the collection, use and disclosure of personal information, except where inappropriate.

When determining the form of consent, Safety In Schools considers the sensitivity of the information and the reasonable expectations of the individual. Express consent will be obtained when the information is likely to be considered sensitive; implied consent may be appropriate when information is less sensitive. Consent may also be given through an individual's authorized representative (such as a legal guardian or a person having power of attorney).

Safety In Schools obtains consent for the collection, use or disclosure of information through various means, including verbal, written (e.g. signed forms) or electronic processes.

Safety In Schools generally seeks to obtain consent at the same time personal information is collected. Safety In Schools may, however, seek consent to use and disclose personal information after it has been collected, but before it is used or disclosed for a new purpose (e.g. before disclosing board member information to a funding organization if this purpose was not previously contemplated).

Consent may be withdrawn at any time, subject to legal or contractual restrictions and reasonable notice. Safety In Schools and/or the Privacy Officer informs individuals of the implications for withdrawing consent.

4. LIMITING COLLECTION:

Safety In Schools limits the amount and type of personal information collected to that which is necessary for the identified purpose.

Safety In Schools collects information by fair and lawful means.

Safety In Schools may collect the following information from users:

- personal student information - specifically first and last names.
- personal contact information – specifically, email address.

5. LIMITING USE, DISCLOSURE AND RETENTION

Safety In Schools does not use or disclose personal information for purposes other than those for which it was collected, except with the consent of the individual or as required by law.

Notwithstanding the above, Safety In Schools may disclose personal information without consent:

- to a lawyer representing Safety In Schools.
- to a company or individual employed by Safety In Schools to perform functions on its behalf (e.g. outsourced information processing function, administration of health services plan).
- to comply with a subpoena, warrant, or court order, as required or authorized by law (e.g. Employment Standards

Legislation).

- when the information is publicly available (e.g. telephone directory information), to a public authority in the event of imminent danger to any individual.

Safety In Schools obtains consent for all other disclosures of personal information for purposes other than those for which the information was initially collected (e.g. to provide references regarding current or former employees.

Only Safety In Schools employees, contractors or volunteers with a business need-to-know, or whose duties so require, are granted access to personal information.

Safety In Schools has developed guidelines and implemented procedures with respect to the retention of personal information. Safety In Schools retains personal information only as long as it is necessary for the identified purpose, or as required by law. Where personal information is used to make a decision about an individual, Safety In Schools retains the information, or the rationale for making the decision, long enough to allow the individual access to the information after the decision has been made.

Personal information that is no longer required to fulfill the identified purposes or required by law to be retained is destroyed, erased or made anonymous.

6. ACCURACY

Safety In Schools provides our best efforts to ensure that personal information collected, used and disclosed is as accurate, complete and up-to-date as necessary for the intended purpose.

Personal information is kept sufficiently accurate, complete and up-to-date to minimize the possibility that inappropriate information may be used to make a decision about the subject individual.

Safety In Schools updates personal information as and when necessary to fulfill the identified purpose or upon notification by the individual who is the subject of the information.

7. SAFEGUARDS

Safety In Schools protects personal information against such risks as loss or theft, unauthorized access, disclosure, copying, use, modification or destruction, regardless of the format in which it is held.

Safety In Schools has developed and implemented information security policies and procedures that outline physical, organizational, and technological measures in place to protect personal information as appropriate to the sensitivity of the information. These same measures are employed in the safeguarding and protection of information resources of Safety In Schools users.

Safety In Schools protects personal information disclosed to, or processed by third parties by contractual agreements which address the following as necessary:

- identifying the types of records provided, collected, created, or maintained in order to deliver the service, and specifying any applicable privacy legislation;
- stipulating the confidentiality of the information and the purposes for which it is to be used;
- identifying the organization(s) having custody and control of the records, including the responsibility and process for handling requests for access to information;
- ensuring that third parties and their employees having access to Safety In Schools and information assets are aware of, and understand their responsibility to adhere to Safety In Schools information handling and security policies, including maintaining the confidentiality of personal information;
- ensuring that Safety In Schools has access to information produced, developed, recorded or acquired by third parties as a result of the contract, including timely access in response to requests for information, and specifying that third parties shall not deny access to, or retain custody of, personal information because of late or disputed payment for services;
- requiring third parties to report breaches of confidentiality and privacy to Safety In Schools Privacy Officer within 48 hours of knowing that the breach occurred;
- addressing disaster recovery and backup of any information assets and systems in the custody of the third party;
- addressing the disposition (e.g. destruction or return) of all of Safety In Schools information assets (e.g. records, hardware, system documentation) upon termination of the contract;
- specifying any audit or enforcement measures that Safety In Schools will undertake to ensure that third parties comply with information handling and security provisions outlined in contractual agreements (for example, non-disclosure agreements, audit trails, regular review of third party access requirements, inspection of third party premises).

Safety In Schools ensures that all employees and volunteers are aware of its privacy policies and procedures, and understand the importance of maintaining the confidentiality of personal information. Care shall be taken in the disposal or destruction of personal information to prevent unauthorized parties from obtaining access to the information.

8. OPENNESS

Upon request, Safety In Schools makes available specific information about its policies and practices relating to the management of personal information, including:

- the means of gaining access to personal information held by Safety In Schools; identification of personal information held by Safety In Schools, and a general account of its use;
- Safety In Schools Privacy Policy, Guidelines and related procedures are posted and available on our website; reference to the statement of Safety In Schools Privacy Policy on Safety In Schools website, if applicable.

To make an inquiry or lodge a complaint about Safety In Schools personal information handling policies and procedures, contact:

Safety In Schools Privacy Officer

Suite 200, 4838
Richard Road SW,
Calgary, Alberta
Canada T3E 6L1
info@safetyinschools.ca

9. INDIVIDUAL ACCESS

Upon request, Safety In Schools provide individuals with access to their personal information held by the foundation. Individuals have the right to challenge the accuracy and completeness of their personal information held by Safety In Schools, and to have it amended as appropriate.

All requests by individuals (e.g. customers, employees, volunteers, contractors) to access their personal information held by Safety In Schools, or to correct or amend their personal information, should be directed to the designated Privacy Officer. Such requests should be in writing.

Safety In Schools responds to requests for access to personal information within 30 business days. Responding to an individual's request for information is usually done at no or minimal cost to the individual. However, a fee for reasonable costs incurred may be charged when responding to more complex requests, provided the individual is informed in advance.

In order to safeguard personal information, Safety In Schools may request sufficient information from the individual to verify that person's identity.

Limitations to Individual Access

Safety In Schools provides individuals access to their personal information subject to limited and specific exceptions. Safety In Schools will refuse access to personal information if:

- Safety In Schools has disclosed information to a government institution for law enforcement or national security reasons;
- it would reveal personal information about a third party unless there is consent or a life-threatening situation;
- doing so could reasonably be expected to threaten the life or security of another individual;
- the disclosure would reveal confidential commercial information; or
- the information is protected by solicitor-client privilege.

If access to information is refused, Safety In Schools shall, in writing, inform the individual of the refusal, the reason(s) for therefor, and any recourse the individual may have to challenge Safety In Schools decision.

Correction/Amendment of Personal Information

Safety In Schools corrects or amends personal information as required when an individual successfully demonstrates the inaccuracy or incompleteness of the information. Amendment may involve the correction, deletion, erasure, or addition to any personal information found to be inaccurate or incomplete.

Any unresolved differences as to accuracy or completeness shall be noted in the individual's file. Where appropriate, Safety In Schools shall inform any third parties having access to the personal information in question as to any amendments, or the existence of any unresolved differences between the individual and Safety In Schools.

10. CHALLENGING COMPLIANCE

Safety In Schools investigate all complaints concerning compliance with its Privacy Policy, guidelines and practices, and responds within 30 days of receipt of a complaint. If a complaint is found to be justified, Safety In Schools takes appropriate measures to resolve the complaint including, if necessary, amending its policies and procedures. Individuals shall be informed of the outcome of the investigation regarding their complaint.

Complainants may address inquiries or complaints concerning compliance with these policies or guidelines by contacting Safety In Schools Privacy Officer as set out in these Guidelines under Principle 8 (Openness). A complaint may also be addressed in writing to the Privacy Commissioner of Canada at 112 Kent Street, Ottawa, Ontario, K1A 1H3 -or- to the Office of the Information and Privacy Commissioner of Alberta, #410 - 9925 - 109th Street, Edmonton, AB, T5K 2J8, 780-422-6860, www.oipc.ab.ca.