

Collaborative Solutions for Active Living Inc. (PIP3)

Personal Information Privacy and Protection Policy (“PIP3”)

1 Preamble - Version v1.1.1 (June 2017)

This document defines the Collaborative Solutions for Active Living Inc. (“CS4”) operating policy with respect to maintaining Personal Information Privacy and Protection. CS4 owns and operates the WhoKnozMe applications software products which provide patient-centric health information Services (the “Health Information Service”). This Policy is fully implemented and integrated within all WhoKnozMe internet Portal Applications and within all WhoKnozMe databases. WhoKnozMe Application Portals contain all Users’ access to their own Personal Information as well as CS4’s access to those Users’ data elements needed to operate the Health Information Service. The Policy further outlines some of the various strategies and tactics used to protect personal information as stored within the Health Information Service data bases.

Unless otherwise indicated, or the context otherwise requires, references in this document to “Collaborative Solutions”, “CS4”, the “Company”, “we”, “us” or “our” refer to Collaborative Solutions for Active Living Inc. and its subsidiaries.

WhoKnozMe® is the technology platform name of our Health Information Service operating division.

This Policy Document is the property of Collaborative Solutions for Active Living Inc. It is provided to the Reader as a corporate information document and as our statement of our dedication and commitment to maintain the privacy and security of your personal information.

1.1 **Reference Materials**

Reference Materials used in the derivation of this policy document are contained within the attached Appendices. They include glossaries of technical terms and acronyms and external documents referenced by CS4 staff in the derivation of this document. Where possible, source website directions are provided to assist readers in accessing relevant reference materials.

1.2 **Nota Bene**

This Policy Document is still a “work-in-progress” and is not yet complete (2017-06-06). CS4 staff work on it as time and available information permits. It is long and complicated because the subject (essentially the Privacy Policy for the CS4 “patient centric” health information system) is, in and of itself, long and complicated. We are striving to create a truly modern and effective personal health information system with all the Privacy aspects designed in from the beginning along with most of the internal Data Security aspects.

Collaborative Solutions for Active Living Inc. (PIP3)

Our overall data model incorporates new as well as traditional approaches for managing access to personal data.

We have made use of the extensive work (external to us) that has gone into the Health Level 7 language facility over the last twenty-odd years. The development of HL7 and particularly the latest work (“FHIR”) has moved this language from a primary messaging facility to an overall medical and health interoperability model.

The CS4 data model has been greatly evolved from an Electronic Data Interchange data model (a la ANSI ASC X12) so as to properly manage digital personal health and medical information including the inter-personal and inter-organizational relationships (i.e. providers to patients and vice versa, companies to individuals and vice versa, regulatory authorities to providers, etc.). In doing so, we have also committed to providing these services to our clients in a manner that deliberately and intelligently follows the letter and the intentions of the appropriate privacy and security legislation.

Please do not hesitate to contact us if you have difficulty or disagreement of any sort with the elements of this policy document. We welcome feedback and commentary.

1.3 *Revision History*

Revisions	By	Issue Date	Comments
Prepared	pfd, jrd	2016-01-29	Based on Patients Know Best.
Reviewed	Initial Board Review	2017-01-11	pfd, jrd, jrm-l, iah
Updates & Additions	pfd, jml	2017-06-06	Updates and developments w.r.t. Alberta Health RFP 17-1353

Collaborative Solutions for Active Living Inc. (PIP3)

Table of Contents

1	Preamble - Version v1.1.1 (June 2017)	0
1.1	Reference Materials.....	0
1.2	Nota Bene	0
1.3	Revision History.....	1
2	Introduction	4
2.1	Our Commitment	4
2.2	Our Approach to Privacy and Security	5
2.3	Historical Basis for Protection of Personal Data.....	6
2.4	Applicable Canadian Legislation	6
2.5	Other Legislation	6
2.6	Data Storage	7
3	Characteristics of WhoKnozMe Privacy and Security	8
3.1	Privacy Classifications of Data.....	9
3.2	Minimum User PRIVILEGED Personal Data.....	10
3.3	Minimum User PRIVILEGED Personal Relationship Data.....	10
3.4	Minimum Company PRIVILEGED Data	10
3.5	Duties of Notification.....	11
4	Fundamental Concepts	13
4.1	Primary Data Elements.....	13
4.2	Data Storage Model.....	13
5	Patients	15
5.1	Patient's Personal Information	15
5.2	Patient's Personal Health Information	16
5.3	Users	17
5.4	Representatives for Children	17
5.5	Representatives for Underage (or Adolescent) Users	18
5.6	Representatives for Incapable Users	18
6	Medical and Health Service Providers	19
6.1	Medical Practitioners	19
6.2	Medical Assistants and Medical Office Assistants.....	20
6.3	Personalized Care Providers and Workers	20
6.4	Caregiver	20
6.5	Care Team(s)	20

Collaborative Solutions for Active Living Inc. (PIP3)

7 Relationships	21
7.1 Trusted Relationships	21
8 Registrars and Registries	22
9 System Facilitators	22
9.1 Corporate Board Members	22
9.2 Corporate Officers	23
10 Personal Information Privacy and Protection Policy (“PIP3”) Overview	23
10.1 Privacy Protection and Data Security.....	24
10.2 CS4 Rights, Interest & Access.....	24
10.3 Access to Directories (Registrar and Users)	24
10.4 Access to and Protection of Your Confidential Information.....	24
11 Sharing Your Personal Health Information	25
12 How We Use Your Personal Information	26
13 How We Use Aggregate Information	26
14 Account Access and Controls	27
15 Record Access and Controls	27
16 Sharing Records with Other Users through the Health Information Service	27
17 Deleting Elemental Items in a Personal Health Record	27
18 Deleting Personal Health Records	28
19 Security of your personal information	28
20 Changes to this Policy	29
21 Contact Information	29
22 Appendix A: OECD Recommendations for Protection of Personal Data	30
23 Appendix B: Definitions	31
24 Appendix C: Acronyms	33
26 Appendix D: Applicable Canadian Legislation and Guidelines	34
27 Appendix E: “Privacy by Design”	36
28 Appendix F: “Security Risk Assessment”	37
29 Appendix G: “Privacy and Security of Electronic Health Information”	37

Collaborative Solutions for Active Living Inc. (PIP3)

2 Introduction

Collaborative Solutions for Active Living Inc. (“CS4”, “Collaborative Solutions”) provides WhoKnozMe, a patient-centric personal health and medical information service, along with other associated service tools collectively called the “Health Information Service”.

Privacy and security in any health information system today must balance two competing social benefits:

- the need to appropriately access and share information to enhance care quality and safety as well as to provide continuity of care; and
- the need to implement reasonable safeguards to maintain the privacy of personal health information.

This Policy Document explains the provisions of CS4’s policy to maintain the privacy of your personal health and medical information and to protect it from unwarranted and/or unauthorized inspection or extraction by others. It also explains why CS4 needs access to a small number of items of your general information in order to provide the Health Information Service.

The WhoKnozMe Health Information Service provides the means by which Users can store, manage and share their own personal medical and health information in a secure and effective manner. They can also, store, manage and share the personal medical and health information of other Individuals they may care for (e.g. dependent children, incapable elders, etc.). The vast majority of this personal health information is descriptive and time sequenced in nature and solely associated with the referenced Individual. This personal information is kept internally and securely within their respective User Account information storage areas.

WhoKnozMe Users are classified in different categories depending on the licensing and subscription arrangements they have entered into with CS4. The provisions of this Policy apply without restriction or limitation to all Users without regard to their class.

2.1 *Our Commitment*

CS4 is committed to maintaining the privacy of your personal information and also to protecting it from other persons or organizations attempting to record, copy, alter, erase or otherwise interfere with your personal information. CS4 provides layered measures and procedures to limit and control access to your personal information stored in our Health Information Service while preserving reasonable access for yourself and your explicitly permitted representatives and/or Health Care Providers.

CS4 is committed to a “hands-off” approach in providing facilities for storing your personal health information. Other than for some necessary (and herein itemized) personal details associated with managing your personal account we have no access to your personal and private health information as stored by the Health Information Service.

CS4 is committed to following all applicable and pertinent Personal Information Protection Acts (PIPA legislation). Additionally CS4 is committed to following “Best Practices” for maintaining the privacy of your personal information as well as “Best Practices” for computer systems security and data security.

CS4 is committed to undertake regular reviews of this Policy. We will continually reassess our compliance with updated legislation, regulations, best practices and new information technology.

Collaborative Solutions for Active Living Inc. (PIP3)

2.2 *Our Approach to Privacy and Security*

CS4 is committed to protecting the privacy of your personal information. The purpose of this Policy statement is to explain to our Users how CS4 executes this commitment by managing their privacy and the protection of their personal information when loaded into the WhoKnozMe Health Information Service. We do this by a number of means, the most important of which is the design process we followed during our initial development of the database definition and the database access techniques. Our database is organized in terms of individual virtual Safety Deposit Boxes which effectively compartmentalize all access to explicitly permitted domains and do not permit searching outside of them or through them.

Our overall processes for providing privacy and security are based around:

- A detailed design for the WhoKnozMe system database and database access routines which incorporate a priori specific stratagems and tactics to restrict and/or deny unwarranted and unauthorized intrusions into your personal information.
- Multiple levels of User-defined security controls (User_IDs, Passwords, Questions and Answers (also known as “QnAs”), etc.) for your direct access to your personal data.
- Multiple levels of User-defined personal information sharing controls including elapsed time limitations and specified termination dates.
- A series of defined software and hardware procedures used to identify and verify that the Users are who they say they are.
- The incorporation and integration of the salient processes published in various Guides and Implementation Guidelines as part of the governing Canadian PIPA legislation.
- The recording of pertinent information about all attempts to access the WhoKnozMe system.
- The building and maintaining of use-restricted Registers of Individuals, Users, Medical Practitioners, Health Care Providers and Companies.
- The timely and appropriate notification of the creation, modification and deletion of relationships between Users, other Individuals, as well as Health Care Providers and Medical Practitioners.
- The appointment of Corporate Officers to manage our Personal Information Protection processes (“The CS4 Privacy Officer”), and our overall Information System Security (“The CS4 Information Security Officer”).
- The appointment of our Registrars (“The CS4 Registrars”) who are in charge of verifying the contents and maintaining the accuracy of our Registries.

CS4 will comply, as a minimum, with all of the statutory requirements of the PIPA Legislation.

This Policy Document will be updated from time-to-time to reflect ongoing changes in legislation, in regulation and in legal understanding as well as to changes in information technology.

Should you need more information about CS4’s Personal Information Privacy and Protection Policy please contact our Privacy Officer at Privacy.Officer@whoknozme.com. Should you need more information about CS4’s Computer System Security and Data Security please contact our Information Security Officer at InformationSecurity.Officer@whoknozme.com.

CS4’s WhoKnozMe Software Products and Health Information Services conform completely to this Policy.

Nota Bene: CS4 neither has nor intends to have access to any personal and confidential information contained in your virtual Safety Deposit Boxes or in the Capsules that may be located therein. The access to your confidential information is completely controlled by you.

Collaborative Solutions for Active Living Inc. (PIP3)

2.3 *Historical Basis for Protection of Personal Data*

The introduction of computer technology into the business world in the 1950s (which included hospitals and other national health services) gave rise to consideration of what fundamental rights should exist for the protection of privacy for the users and subjects behind the data in those early systems. This discussion went on for several decades on distinctly national lines in many countries including but not limited to the United States of America, the United Kingdom, France, Canada and Australia.

The first multi-national discussion on Protection of Personal Data started in Europe following the initial development phases of the European Union (“EU”). In 1980 the Organization for Economic Cooperation and Development (“OECD”) issued their Guidelines covering “The Protection of Privacy and Trans-Border Flows of Personal Data”. A short summary of basic principles behind these guidelines is included in Appendix A attached hereto.

Over time, and almost three decades later, most countries in the developed world had enacted detailed legislation covering the Protection of Personal Data. Interestingly the majority of this national legislation is based on the basic principles stated in the 1980 OECD guidelines. There are many national twists and focuses in the corpus of privacy legislation but essentially they all follow the same basic principles.

2.4 *Applicable Canadian Legislation*

The initial and primary marketplace for the Health Information Service is throughout Canada. The privacy and security of both your personal information and your personal health information is covered in Canada by extensive legislation enacted federally and provincially. CS4 has studied this legislation and has carefully crafted this Policy Document in consideration of the salient features and the specific requirements of the various applicable acts.

A characteristic of Canadian privacy and personal information protection legislation is that there are usually at least two acts per jurisdiction; one for the public sector (government and government institutions) and one for the private sector (commercial organizations). In a number of instances (notably in Ontario and in Alberta) there is yet another set of legislation relating specifically to Personal Health Information. A summary of the pertinent Canadian federal and provincial legislation is attached in Appendix D.

2.5 *Other Legislation*

As stated immediately above, the initial and primary marketplace for the Health Information Service is throughout Canada. Our incorporation of the Internet as the data communications medium permits it to be used from almost any location in the world. This means that usage in countries other than Canada would and could fall under other national legislation.

In the European Union (“EU”) personal data protection is currently regulated by the Data Protection Directive 95/46/EC and after April 2018 by the General Data Protection Regulation. In part the Data Protection Directive states “The EU data protection rules are applicable not only when the controller is established within the EU, but whenever the controller uses equipment situated within the EU in order to process data. Controllers from outside the EU, processing data in the EU, will have to follow data protection regulation. In

Collaborative Solutions for Active Living Inc. (PIP3)

principle, any online business trading with EU residents would process some personal data and would be using equipment in the EU to process the data (i.e. the customer's computer). As a consequence, the website operator would have to comply with the European data protection rules." What is clear to CS4 is that when the Health Information Service is used from within the EU that the EU Data Protection Directive applies.

This above directive was written before the breakthrough of the Internet, and to date there is little jurisprudence on this subject.

In the United States of America ("USA") there is a variety of federal and state enacted legislation that covers the privacy of personal information. In the general sense, this is referred to as Personally Identifiable Information ("PII") and as Sensitive Personal Information ("SPI"). The Privacy Act of 1974 established a Code of Fair Information Practice that governs the collection, use and dissemination of PII about individuals that is maintained in U.S. federal systems. The primary focus of the Health Insurance Portability and Accountability Act of 1996 ("HIPAA") is to protect a patient's Protected Health Information ("PHI") which is equivalent to PII and SPI. The HIPAA legislation is a massive omnibus act which covers all aspects of the Health Information Services industry. It prescribes, inter alia, how the protection of personal health information must be managed as well as how the security strategies and tactics must be implemented and maintained. A review of HIPAA requirements lies beyond the scope of this document. What is clear to CS4 is that when the Health Information Service is used from within the USA then the HIPAA requirements apply.

Many other countries in the world have enacted similar legislation to those of Canada, the European Union and the United States of America. While CS4 cannot guarantee that we explicitly comply with all of this legislation, it is our intention and our practice to conform as best we can. For the moment, we conform to the overall requirements of the extant Canadian legislation.

2.6 **Data Storage**

CS4's data centres are located in Canada and are currently mirrored between Kamloops, British Columbia and Calgary, Alberta. Additional data centres will be added as and when necessary.

Collaborative Solutions for Active Living Inc. (PIP3)

3 Characteristics of WhoKnozMe Privacy and Security

The design of the WhoKnozMe Health Information Services system is based on a fundamental CS4 requirement to maintain secure functioning of our software products at multiple operating levels.

- **Privacy is built-in by Design, not bolted-on.**
- **Security is initially built-in by Design, but later developments can be bolted-on.**

A User Account, Username and Password(s) as well as other advanced security features are critical to protecting the integrity of the WhoKnozMe database containing your confidential information. It is also important that the data model sitting on and applications accessing the database collectively enables CS4 and you to secure protection of your data.

The WhoKnozMe Health Information Services are provided via an Internet portal function which accesses a proprietary Object Relational database system known as RelBuilder 2.x. This Object-Relational database system currently relies on a standard Structured Query Language (“SQL”) database system known as MySQL as its primary engine. CS4 uses built-in security controls at the programming-level of the primary CS4 business objects for fundamental security. It also uses the standard SQL security functions of MySQL for initial overall database security.

The overall design controls access to individual data records based on ownership and owner-defined permissions. In other words, access to your records is under your control, and, you control who may be permitted to view, extract, modify or add to your individual data records. You may revoke these permissions as you see fit. You, as the User, may access any and all of your records but you cannot access anyone else’s records unless you have their explicit permission to do so.

You may share access to some or all of your records with others, such as your spouse or partner or your various doctors or other health care givers. You may also share the records of individuals for whom you have been granted representation status (such as for a dependent child or a dependent parent).

Key components of the Health Information Service are the various relationships that the User will have with other individuals and/or organisations. Thus, an Individual (the User) will have a relationship with their own doctor (commonly a GP or General Practitioner) for regular checkups and straightforward treatments. The Individual may also have a Specialist Doctor, who their GP has made a referral to for treatment of a specific disorder, for instance to an Endocrinologist for treatment of advanced diabetic conditions. Both of these relationships would be defined for the Individual and would be known to others but not the specific details of any conditions or treatments. The information about the conditions and treatments would be stored securely within the User’s vSDBox and within the GP’s and the Specialist’s filing systems. The Relationships are not completely private but they are also not public. The Doctors themselves are public items because of their position in society and because they must be members of a college which publishes their names and practice addresses. The relationships between a patient (WhoKnozMe User) and the doctors are thus semi-private and should not be disclosed to uninvolved third parties. Other relationships such as those of legal representation (particularly for health purposes) are also semi-private because the person who is acting as the representative for a patient has to disclose the representation agreement to various other persons, such as doctors, nurses, pharmacists, etc. in order to effect the representation.

Collaborative Solutions for Active Living Inc. (PIP3)

CS4 does not own any of our Users' Personal Information. CS4 does own some information about our Users but only that information necessary for CS4 to operate the overall Health Information Service (the "Minimum User Personal Data" and "Minimum User Personal Relationship Data"). On acceptance of the Terms of Usage Users agree that CS4 may use their data defined herein as "Minimum User Personal Data" and "Minimum Personal Relationship Data" for the operation of the overall Health Information Service, without restriction. CS4 agrees not to distribute or provide said "Minimum User Personal Data" and "Minimum Personal Relationship Data" in simple or aggregate form to any Third Party unless ordered to do so by Court Order or Government Statute.

CS4 agrees not to use the "Minimum User Personal Data" and "Minimum Personal Relationship Data" in its marketing or selling efforts. CS4, however, maintains its rights and duties to communicate directly with third parties specifically referenced by Users in their own relationship definitions for notification, validation and verification purposes.

CS4 has no ability to enter any User's vSDBox and access any of their Personal Information stored there.

3.1 *Privacy Classifications of Data*

All data stored within the WhoKnozMe Health Information Service is classified as follows:

- PERSONALLY PRIVATE
- PRIVATE
- PRIVILEGED
- PUBLIC

PERSONALLY PRIVATE data is all health, medical, and other distinctly personal data about you. It includes your entire PHI ("Personal Health Information") defined earlier in this document. This is our highest level of privacy classification.

PRIVATE data is personal data about you that you have agreed to share with others. Largely this is data that defines the various relationships you are in with others and information that is associated or attached to said relationships.

PRIVILEGED data is information about you that CS4 needs to know in order to manage the Health Information Service. This includes your name, your e-mail addresses, your postal code, etc. and is further defined in the Minimum User Personal Data, Minimum User Relationship Data and Minimum Company Data.

PUBLIC data is information about you and others that exists in the public domain. An example is a list of Medical Practitioners with their names, their licensed specialties and their practice addresses that are published by their professional organization (usually called a College). Another example of PUBLIC data is your name, your telephone number, and your address as published in a telephone book or in an on-line digital directory.

Collaborative Solutions for Active Living Inc. (PIP3)

3.2 *Minimum User PRIVILEGED Personal Data*

CS4 requires the following minimum personal data from each User:

- Full Name,
- Postal Addresses, (for Billings and Deliveries)
- Personal e-mail Address(es),
- Birth Date,
- Death Date,
- Contact Telephone Numbers,
- Fax Number,
- Provincial Health Number (“PHN”) or Driver’s License Number (“DLN”) or Identity Document Number (Validation), and
- Account Identification (actually generated by CS4).

This information is essential for CS4 communications directly with the User and for other CS4 administration purposes. In particular, CS4 will need to verify and be able to verify that the User is actually a person and, furthermore, test that the individual person acting as a User is actually that identified person or their permitted representative.

All of the above information is stored within the WhoKnozMe Person Registry (which contains minimum Identity and Validation information for each User) with the exception of the Birth and Death Dates. The User’s Birth and Death Dates are recoverable, as and when needed by the Registrar, via a standard business transaction.

3.3 *Minimum User PRIVILEGED Personal Relationship Data*

CS4 requires the following minimum relationship data from each relationship an Individual has with any other third parties:

1. Full Name of the Third Party,
2. Type of Relationship,
3. Position of Individual in Relationship (Object::Subject::Reference),
4. Date and Time Relationship Initiated, and
5. Date and Time Relationship Terminated as well as
6. Certification of the Relationship (if needed)

3.4 *Minimum Company PRIVILEGED Data*

CS4 requires the following Minimum Company Data:

1. Full Name,
2. Short Name,
3. Postal Address,
4. Delivery Address,
5. E-mail address(es),
6. Contact Telephone Numbers
7. Contact FAX Numbers
8. Contact Person(s)
9. Account Identification (actually generated by CS4).

Collaborative Solutions for Active Living Inc. (PIP3)

CS4 requires minimum Company information for a number of reasons. First, a Company is treated in law as being notionally and legally equivalent to a “person”. Second, some companies are the corporate embodiments of a person. Commonly, in the WhoKnozMe sense, a “Medical Practitioner” runs their practice as a “Professional Corporation”. The individual doctor is still a person (who could also be a User of WhoKnozMe) but the Relationship that another Individual might have with the doctor would be termed “p2c” (or “person to company”). Third, a group of doctors may incorporate their professional services into a clinic. Fourth, CS4 has a Duty of Notification to a Company registered with us when other Individuals or Companies incorporate that Company into a Personal Relationship.

3.5 *Duties of Notification*

As the provider of the WhoKnozMe personal Health Information Service CS4 has an explicit “Duty of Notification” to you with respect to the maintenance of the privacy of your personal information and another explicit “Duty of Notification” to other persons (including Companies) who are in specified relationships with you.

Each time you or a person you have authorized tries to access your personal information we record the date and time of the access request as well as the identifier for that person. Each time a change is made to your personal information we record the date and time of the access as well as the overall nature of the change and the identifier for the person making the change. Normally, CS4 does not provide a notification to you of this change. CS4 can, via a request to the Registrar, provide you with a summary list of all such permitted accesses and changes.

When you create a new relationship with a Third Party (whether a User, Medical Practitioner, Care Giver, Family Member, etc. or Company) CS4 has a Duty to Notify the Third Party on your behalf that you have created this relationship. We normally try to do this with an e-mail to the Third Party but we can send faxes and failing both an e-mail address and a fax number we will even send a regular letter to them. The Third Party can then:

1. Accept the Notification by responding positively to CS4 (in which case the Relationship will continue to be confirmed by CS4), or
2. Reject the Notification by responding (within a reasonable period of time) negatively to CS4 (in which case the Relationship will be nullified by CS4), or
3. Do nothing which will result in CS4 continuing to allow the Relationship.

When you modify an existing relationship the Third Party will be notified by CS4 of such modification.

When you terminate an existing relationship the Third Party will be notified by CS4 of such termination.

Should a Third Party attempt to access your data without your permission then we would immediately notify you of this attempt.

WhoKnozMe allows Individuals to gather, record, edit, store and share all or some of their personal health information in a secure electronic format. This promotes their ability to take an active, and when necessary, assertive role in their health management. It allows the individuals to share their information in a secure manner with family members, health representatives and health professionals. It also allows a person to store and access information in separate records for others, such as a children, parents or friends. Users can also add data to their own health records using electronic devices (e.g. blood pressure and blood glucose meters).

Collaborative Solutions for Active Living Inc. (PIP3)

CS4 is committed to protecting your privacy and personal and confidential information of which your personal health record is one type.

This Personal Information Privacy and Protection Policy (“PIP3 or Policy”) applies only to the personal information collected with WhoKnozMe software. The Policy and its protections do not extend to your other online or offline sites, products, or services for fitness, health or dietary or social media sites.

Note: A fundamental aspect of the CS4 - User Management Services is the set of tools available for password resetting, relationship notifications from Users and Practitioners as well as Message notifications all of which normally use standard e-mail as the medium.

All Users are advised to maintain a “secure” eMail service with a strong password updated frequently.

All Users are further advised to only permit “trusted” individuals to have separate access to their data.

Collaborative Solutions for Active Living Inc. (PIP3)

4 Fundamental Concepts

The WhoKnozMe Health Information System is a “Patient-Centric System”. What this term means is that the Patient is always at the centre or core of the incumbent data structures and data pathways. Alternative (and more traditional) health information systems have the institution (i.e. a health authority or a hospital) or a doctor or clinic as the centre or core of the system and the patients are simply elements inside the processes.

In a Patient-Centric System we still have all the same primary elements (patients, doctors, nurses, diagnoses, treatments, test results, etc., etc.) as in a traditional health information system but the etymology, order, organization and interconnections are managed in slightly to significantly different manners. In this section we define how data is ordered, organized and stored in the WhoKnozMe system.

4.1 *Primary Data Elements*

The WhoKnozMe® Health Information System organizes and maintains the following primary data elements

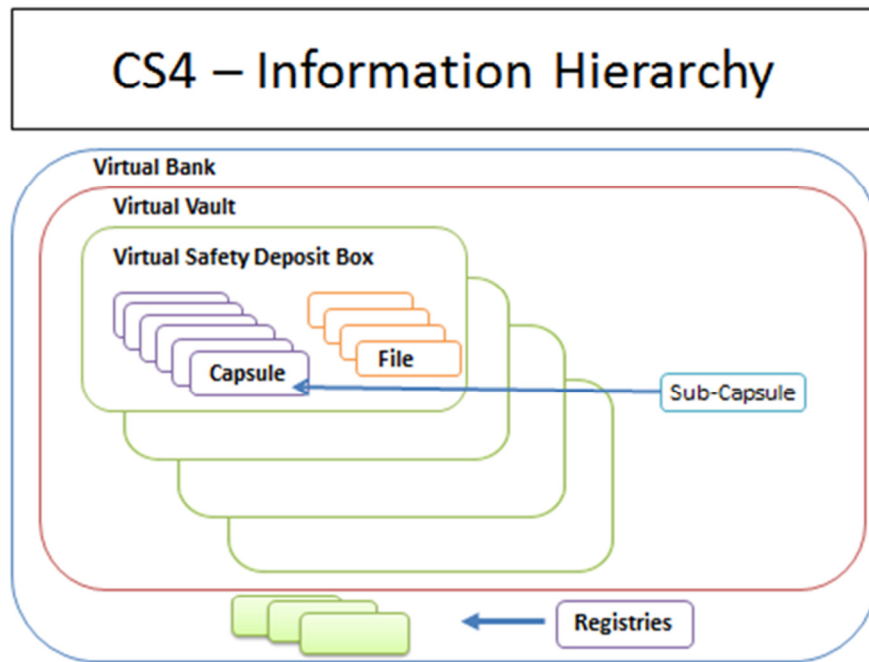
- ❖ Patients
 - Users
 - Personal Information
 - Personal Health Information
 - Health Representatives
 - Emergency Contacts
- ❖ Medical and Health Service Providers
 - Medical Practitioners
 - Health Service Providers
 - Care Service Providers
 - Care Teams
- ❖ Relationships
 - “Trusted” Relationships
- ❖ Registrars
 - Registries
- ❖ System Facilitators
 - Administrators
 - Customer Relations and Support Personnel
 -

All of the above primary data elements are more fully described in the following sections.

4.2 *Data Storage Model*

It is important for Privacy considerations to give the reader an outline of the WhoKnozMe information storage model. In essence, the following diagram outlines the hierarchy of our information (or data storage) model.

Collaborative Solutions for Active Living Inc. (PIP3)



The all-inclusive “Virtual Bank” is an “Enterprise Level” collection of data objects which relate more to the overall data management that CS4 has to do to manage the whole system than to individual Patients. The banking analogy here is to a physical national bank. The physical security here is to control the entry of Individuals through the front door of the bank building itself. A series of Registries (containing inter alia the names of account holders) are stored at this level to facilitate the operations of the bank.

The “Virtual Vault” is the encompassing element for an application zone. In the WhoKnozMe case it is the overall bounds of the health information system. It may have millions of patients’ accounts stored within it. The banking analogy here is to the vault which would contain the working cash and banking instruments as well as customers’ safety deposit boxes. The physical security element here is the direct identification and validation of the Individual with a valid User-Account code (at the very least) before permitting entry into the vault. Only validated users can have access to the vault. A non-banking CS4 security feature is that the validated User can only “see” the Virtual Safety Deposit Boxes they own or are directly responsible for.

There are actually a number of “Virtual Vaults” for the Health Information System. The main “Virtual Vaults” of interest to those using the Health Information System are:

1. The “Patients” Virtual Vault which holds all the data owned by the Patients and their Representatives; and
2. The “Practitioners” Virtual Vault which holds all the data owned by Medical Practitioners, Health Practitioners, Health Care Providers and related individuals.

An Individual who is a Medical Doctor, for example, could be defined both as the owner of a “Practitioner’s Account” in the “Practitioners Virtual Vault” and as the owner of a “Patient’s Account” in the “Patients Virtual Vault”. The purposes, content and organization of the two accounts are distinctly different and separate.

The “Virtual Safety Deposit Boxes” (also known as “vSDBoxes”) are assigned to individual owners (or Users). The banking analogy is to individual safety deposit boxes within the bank vault. The physical

Collaborative Solutions for Active Living Inc. (PIP3)

security here is (1) the User has previously been identified as a valid user and (2) the User has to provide (at the very least) the correct password to enter into any Virtual Safety Deposit Box they can see. The majority of an Individual's person information and personal health information is stored at this level.

Within each vSDBox there will be a series of virtual Capsules which have no direct banking analogy. They are used to store other essential information such as "information sharing" instructions, notifications, messages, emergency contacts, the Owner's ePHRecord, relationships, accounts and identities and new information. Each virtual Capsule has (at the very least) another unique password which the Individual has to provide before being allowed to explore the capsule.

In addition, there may also be a series of sub-capsules within a Virtual Capsule. These sub-Capsules are used largely to contain details of personally private data that can be shared with other Users of the Health Information System.

5 Patients

In a Patient-Centric Health Information System the subject is always the **Patient**. A Patient is always a natural person and is the **Owner** of their own health information. The patient/owner may be a **User** of the system but only if they are considered to be capable. In the cases of an infant or a child below the age of majority or a dependent adult then a **Representative** will need to be appointed as the User.

In Canadian Law a person owns a copy of their own personal health information. Other persons and institutions may also own a copy of all or part of a patient's health information. These other persons and institutions may be doctors, nurse practitioners, medical clinics, laboratories, hospitals, etc.

A patient's ownership of their copy of their personal health information is an absolute right regardless of their age or capability. On the death of a patient the ownership of their personal health information would pass to their estate. What happens after the estate is wound-up is not as yet clear (2017).

The patient's ownership rights extend to the maintenance of privacy of their personal health data. Should they have paper transcripts of any of their personal health data then they are themselves responsible for the maintenance of the privacy of the paper transcripts. In a household situation this could mean that the transcripts are stored in a locked filing cabinet.

5.1 *Patient's Personal Information*

A Patient's Personal Information includes all of the information personal to them. This includes, for example:

- their full name
- their gender
- their birth date (and thus their age)
- their citizenship(s)
- their current home address
- their Social Insurance Number ("SIN")
- their education
- their marital status
- etc.
- and ALL of their Personal Health Information

Collaborative Solutions for Active Living Inc. (PIP3)

There could easily be thousands and thousands of personal data items extant for any individual. Not all of the listed items are necessarily defined as “Private” information because, at the very least, access to the information itself will depend upon some form of identifier such as a ‘full name’.

As described earlier, a substantial body of legislation exists that covers the protection of privacy and security of this personal data.

5.2 *Patient’s Personal Health Information*

A Patient’s Personal Health Information comes from a wide variety of sources and, furthermore, consists of a wide variety of data types. Not all of a Patient’s Personal Health Information is maintained in provincial government health information databases.

There are currently (January 2017) 19 major classifications of personal health information defined in WhoKnozMe:

1. Participant Identification
2. Demographics
3. Emergency & Care Team Contacts
4. Medical and Other Insurance Accounts
5. Present Health Concerns
6. Medicinal Products
 - a. Prescriptions
 - b. OTC (Over-the-Counter)
 - c. Ethical (Opiates and other Restricted Analgesics)
 - d. Immunizing Materials
 - e. Natural Products
7. Immunization and Travel History
8. Personal Medical History
9. Family Medical History
10. Medical (Diagnostic) History
11. Injury & Poisoning & External Causes
12. Surgical and Other Procedure History
13. Other Treatments
14. Adverse Effects (Allergies, Reactions or Treatment)
15. Lab Results
16. Medical Imaging Files
17. Medical Documents
18. Patient Medical Summaries
 - a. Emergency (“Emergency Medical Summary”)
 - b. Logbook (“Specialist Medical Summary”)
 - c. Intake Form (“Patient Medical Summary”)
19. Health Directives

The above classifications will be augmented with successive releases of WhoKnozMe to cover conditions and treatments under Psychiatry, Dentistry, Optometry, Audiology, Chiropractic, Naturopathy, etc.

All of the above personal health information is considered to be and will be treated as Personally Private.

Collaborative Solutions for Active Living Inc. (PIP3)

5.3 *Users*

Users are Individuals who operate the WhoKnozMe Health Information Service on behalf of the Patient.

There are only two types of Users, viz.:

1. An **Owner-User**, simply referred to as an **Owner**, and
2. An **Owner's Representative User** simply referred to as a **Representative**.

An Owner-User must always be a natural person because they are actually the Patient. A Representative may be either a natural person or a corporation. Most Representatives will be natural persons. All Users must be known to CS4 (i.e. they were registered at some point prior to their definition as a User in the WhoKnozMe system). (In Ontario, the Representative is also known as the "**Substitute Decision Maker**").

There are many types of Representative Users depending on the form of Representation involved. For example:

- Infants and minor children with parents will normally be represented by one or more Parent(s)
- Orphaned children would be represented by Guardian(s)
- Adopted children would be represented by their Adoptive Parent(s)
- Dependent or incapable adults would be represented by person holding a Power-of-Attorney or a Health Representation Agreement
- Deceased patients would be represented by an Executor or an Administrator
- Married patients may be represented by their Spouse

In general, Representatives would have the same administrative and executive powers as an Owner. The Owner should seriously assess the personal characteristics of any Individual they would like to appoint as their Representative to assure themselves that this person would act in their best interest.

5.4 *Representatives for Children*

As described earlier a Representative for a child (i.e. a person under the age of majority – commonly 18 or 19 in Canada) at least one of the Parents or one or more Guardians. A Child's Representative is then their Substitute Decision Maker for personal health issues. A Child's Representative(s) can also be appointed by a Court of Law if necessary.

A Child's Representative has all the powers over the medical treatment of a Child Patient, including access to their Personal Health Information. When a Child is born or a Child is initially registered with CS4 the Parent(s) or Guardian(s) will inform the Registrar of Individuals of the event and, furthermore, provide a copy of the Child's Birth Certificate. The Registrar shall validate the certificate and register the Child and the relevant Representative Relationships (i.e. Parent or Guardian). The Registrar will then ensure that the Child's account User definition status is that of Owner's Representative once the Individual(s) identified as Parent(s) or Guardian(s) is (are) known to the Health Information System. The Registrar will then assist the Child's Representative in setting the password and other security controls to the Child's User account. The Child's Representative shall ensure that they and they alone know the precise values for the security controls.

If there is more than one Child's Representative nominated then the Registrar will ascertain if the Representatives are to act jointly or severally and so note on their respective Relationships. In any event,

Collaborative Solutions for Active Living Inc. (PIP3)

the Representatives shall have equal but separate access to the Child Patient's Health Information. CS4 will not be involved in any other way in the administration of the Child Patient's Health Information including participating in disputes or discussions with the Child's Representatives.

Should a Child's Representative be barred from serving as a Child's Representative, often by conditions imposed by a Court such as a Divorce Order or a Separation Order, or by reason of their own incapability then the Registrar shall be presented with a copy of the Order and asked to cancel the barred Representative's Relationship and substitute that with a newly nominated Child's Representative. The Registrar will assist the newly nominated Child's Representative in resetting the account password and other security controls.

5.5 ***Representatives for Underage (or Adolescent) Users***

An underage (i.e. an Individual who is younger than the age of majority (either 18 or 19 years)) may wish to become the Owner-User of their own account and limit access to some or all internal details of the medical information in their account to their Parent(s) or Guardian(s). There are various provisions in applicable laws and regulations which make this overall process a matter of discretion and careful consideration for all parties involved.

CS4 has no immediate response or solution to this particular issue. We are currently reviewing it and believe that further discussions must involve individual provincial Privacy Commissioners.

5.6 ***Representatives for Incapable Users***

As described earlier a Representative is often an Individual (or a number of Individuals) who the Patient (or Owner) has specifically nominated as their Substitute Decision Maker for personal health issues in the event of their becoming permanently or temporarily incapable. Representatives can also be appointed by a Court of Law if necessary.

A Representative has all the powers over the medical treatment of a Patient, including access to their Personal Health Information that the Patient would have had if they were capable. When a Patient becomes or is declared incapable the nominated Representative will inform the Registrar of Relationships that the Patient is incapable and provide this Registrar with proper copies of the necessary certificates such as a Power-of-Attorney or a Health Representation Agreement. The Registrar shall validate the certificate(s) and register the Representative Relationship. The Registrar will then change the User definition status from Owner to Owner's Representative once the Individual nominated as the Representative is known to the Health Information System. Following this the Registrar will assist the Representative in resetting the Password in the User Account and all other security controls in the vSDBox and enclosed Capsules and Sub-Capsules. The Representative shall ensure that they and they alone know the precise values for the security controls.

If there is more than one Representative nominated then the Registrar will ascertain if the Representatives are to act jointly or severally and so note on their respective Relationships. In any event, the Representatives shall have equal but separate access to the Patient's Health Information. CS4 will not be involved in any other way in the administration of the Patient's Health Information including participating in disputes or discussions with the Representatives.

Collaborative Solutions for Active Living Inc. (PIP3)

6 Medical and Health Service Providers

Medical and Health Service Providers include the following categories.

6.1 *Medical Practitioners*

Practitioners are trained and licensed medical professionals who are or have been practicing members of professional colleges for:

- Acupuncturists
- Audiologists
- Chiropractors
- Dental Hygienists
- Dental Technicians
- Dentists
- Denturists
- Dietitians
- Hearing Instrument Practitioners
- Massage Therapists
- Massage Practitioners
- Medical Practitioners
- Midwives
- Naturopaths
- Naturopathic Doctors
- Osteopaths
- Osteopathic Practitioners
- Physicians
- Surgeons
- Specialist Doctors
- Psychiatrists
- Psychologists
- Nurse Practitioners
- Opticians and Optometrists
- Periodontists
- Pharmacists
- Podiatrists
- Registered Nurses (“RNs”)
- Licensed Practical Nurses (“LPNs”)

In general, Medical Practitioners provide various levels and categories of professional medical services to Patients. They are all authorized to bill their clients for services and materials provided and most are likely to be authorized to bill insurance providers (including provincial agencies) directly for their insurance-entitled clients.

Much of the overview information available for Medical Practitioners is public information. The vast bulk of information about their work is classified as Personally Private because it is commonly medical information about their clients. The Medical Professionals must carefully and continuously safeguard this information.

Medical professionals commonly work in hierarchical association with other medical professionals. Medical Professionals are commonly and publicly identified specifically by their Patients.

Collaborative Solutions for Active Living Inc. (PIP3)

6.2 *Medical Assistants and Medical Office Assistants*

Medical Assistants and Medical Office Assistants are trained and certified individuals such as:

- Emergency Medical Technicians (“EMTs”)
- Emergency Medical Assistants (“EMAs”)
- Ambulance Attendants
- Medical Office Assistants (“MOAs”)

6.3 *Personalized Care Providers and Workers*

Personalized Care Providers and Care Service Worker trained and certified individuals such as:

- Personalized Care Providers are often Registered Nurses or Nurse Practitioners
- Personalized Care Workers
 - Certified Care Assistants (“CCAs”)

6.4 *Caregiver*

A friend or family members (Spouses, Parents, Children, Life Partners, Friends, etc.) voluntarily or by statute (parent, ward or guardian) undertakes the care of another individual. The Caregiver will most often **not** be certified or licensed in any manner but may be in a validated Relationship with the “Participant (patient) to Parent”.

6.5 *Care Team(s)*

Care Team is a group of Medical Practitioners, Health Service Providers, Care Service Providers or Caregivers acting in concert to support a Patient. While a Care Team, as a whole, may be granted sharing privileges to access a Patient’s Protected Health Information this may not be a good idea particularly if the non-professional members of the Care Team are not thoroughly versed in the protection of Personal Health Information.

Collaborative Solutions for Active Living Inc. (PIP3)

7 Relationships

Relationships are the mechanisms by which Individuals are linked with other Individuals (“p2p”), Individuals are linked with Companies (“p2c”), Companies are linked with Individuals (“c2p”) and Companies are linked with other Companies (“c2c”) in the Health Information System.

There are quite a number of operating conditions associated with the definition of Relationships:

- ❖ Relationships are Directional. They link a “subject” (Individual or Company) to an “object” (Individual or Company).
 - A “Patient” (=‘subject’) may be linked to a “Medical Practitioner” (=‘object’) which is the equivalent of
 - The Patient has this Doctor, or
 - The Patient presents to this Doctor
- ❖ Relationships may generate implied Inverse Relationships. For example, the Practitioner listed immediately above may be presumed to be linked to the Patient listed above as:
 - The Doctor has this Patient in their List of Patients, or
 - The Doctor treats this Patient
- ❖ Relationships are “owned” by the ‘subject’. In the case of the Patient defining the Relationship this preserves the overall patient-centricity of the Health Information System.
- ❖ Relationships are Contextual. This means that the roles and purpose of the Relationship are defined attributes (as in this Patient (which is one of the roles) attends (which is the purpose) the Doctor (which is the other role)).
- ❖ Relationships are Cumulative. The Patient may attend a General Practitioner and a number of Specialist Doctors (all at the same time).
- ❖ Relationships may be consensual, referential, mandated, etc. or expired.
- ❖ Some Relationships may need to be **certified and then validated by a Registrar**. (For example, the birth of a child would require a Birth Certificate to be provided to a Registrar so that a new account could be opened. The Representative(s) for the child would be presumed, initially, to be the parent(s) listed on the certificate.)

Representation by another Person or Company requires certification and validation and is described in the immediately following sections.

7.1 *Trusted Relationships*

“Trusted Relationships” are a form of Relationship through which a User can share their personal information with other Individuals whom they trust unconditionally. They trust that the other Individuals will use the information in the Owner’s best interest and, furthermore, they trust the other individuals will maintain the confidentiality and integrity of it. (This latter phrase may appear to be a non sequitur but it is fundamental to one of the tenets for only using personal health information in the best interests of the Owner.)

Trusted Relationships will involve the creation of a Virtual Capsule in the Owner’s vSDBox which is visible to the Individuals whom the User wishes to share their personal information with. Trusted Relationships should be created with a great deal of care.

Collaborative Solutions for Active Living Inc. (PIP3)

8 Registrars and Registries

A Registrar is an employee and an operational officer of CS4. Their role is, principally, to act as the “Gatekeeper” for specific types of information entered into the WhoKnozMe database. As the Gatekeeper they need to verify and maintain the accuracy and validity of these specific items of information. The Privacy Classifications of this key data range from Public through Privileged then to Private and ultimately to Personally Private (see Section 3.1 Privacy Classifications of Data) and the Gatekeeper is strictly charged with maintaining, preserving and protecting said items of information.

As a continuing part of their duty the Registrars will maintain three specific Registries, namely:

1. **The Registry of Individuals.** This is a list of all validated Natural Persons who exist in the Health Information System. Natural Persons who have not, as yet, been validated are also stored in the list but are not accessible by any User other than the one who created the entry. The Registrar also has access to the non-validated Individual records. All Patients as well as all Healthcare Providers, all Medical Practitioners and all Representatives (who are Natural Persons) are included in this Registry.
2. **The Registry of Companies.** This is a list of all validated Companies which exist in the Health Information System. Companies which have not, as yet, been validated are also stored but are not accessible by any User other than the one who created the entry. The Registrar also has access to the non-validated Company records. All Companies, Organizations, Societies, Corporations, etc. as well as all incorporated Healthcare Providers and all Representatives (who are Companies) are included in this Registry.
3. **The Registry of Relationships.** This is a list of all validated Relationships which exist in the Health Information System. Relationships which have not, as yet, been validated are also stored in the list but are not accessible by any User other than the one who created the entry. The Registrar also has access to the non-validated Relationship records. All classes of Relationships are included in this Registry.

9 System Facilitators

System facilitators are individuals employed or contracted by CS4 at all levels who users may meet or correspond with. All such individuals will be vitally concerned with maintaining the Privacy and Security of your Personal Information stored within our Health Information System.

Please note – ***NONE of these System Facilitators*** have any ability or authority to directly access any of your Private or Personally Private Data stored within your virtual Safety Deposit Boxes.

9.1 ***Corporate Board Members***

As with all Companies the Shareholders elect a Board of Directors to provide Corporate Governance and Guidance. There are currently four (4) Directors, one of whom serves as the Chair and one of whom serves as the Corporate Secretary. All of the current Directors are Founding Members of the Corporation. Normally the Board meets formally four times per year.

Collaborative Solutions for Active Living Inc. (PIP3)

Corporate Officers

The Company currently has the following Corporate Officers: Chief Executive Officer (CEO), Chief Financial Officer (CFO), Chief Marketing Officer (CMO), Chief Information Officer (CIO), Chief Legal Officer (CLO), Chief Human Resources Officer (CHRO), and Chief Compliance Officer (CCO).

The Company also has the following Corporate Officers: Chief Operating Officer (COO), Chief Technology Officer (CTO), Chief Security Officer (CSO), Chief Privacy Officer (CPO), and Chief Data Officer (CDO).

10 Personal Information Privacy and Protection Policy (“PIP3”) Overview

This Privacy Policy is intended to describe the types of personal information that we collect, how we use that information, and the choices you have about how we use that information. This Privacy Policy applies to all of our services, including our mobile applications, our website, and our email newsletters.

We collect personal information from you when you use our services, including when you create an account, use our mobile applications, or use our website. We collect personal information from you when you use our services, including when you create an account, use our mobile applications, or use our website. We collect personal information from you when you use our services, including when you create an account, use our mobile applications, or use our website.

This Policy shall apply to all of our services, including the following:

- Collection, ownership and protection of your personal information;
- Protection of your confidential information (such as your Social Security Number, bank account information, and other sensitive information);
- Your responsibility for updates to the data in your user account, password and other information maintained by our services;
- Marketing services as a result of our collection strategy; and
- A statement regarding our privacy practices, protection and our policy regarding the protection of your personal information.

We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters. We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters.

We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters. We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters.

We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters. We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters.

We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters. We may use your personal information to provide you with our services, including to provide you with our mobile applications, our website, and our email newsletters.

Collaborative Solutions for Active Living Inc. (PIP3)

.....

.....

.....

.....

-
-
-
-
-
-

.....

11 Sharing Your Personal Health Information

.....

-
-
-
-

.....

.....

Collaborative Solutions for Active Living Inc. (PIP3)

12 How We Use Your Personal Information

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

13 How We Use Aggregate Information

.....

.....

Collaborative Solutions for Active Living Inc. (PIP3)

14 Account Access and Controls

.....

.....

15 Record Access and Controls

.....

.....

.....

16 Sharing Records with Other Users through the Health Information Service

.....

-
-
-

.....

.....

-
-
-

17 Deleting Elemental Items in a Personal Health Record

.....

Collaborative Solutions for Active Living Inc. (PIP3)

.....

.....

.....

.....

18 Deleting Personal Health Records

.....

.....

19 Security of your personal information

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Collaborative Solutions for Active Living Inc. (PIP3)

22 Appendix A: OECD Recommendations for Protection of Personal Data

.....

.....

- 1. *Accountability* – Data controllers should be held responsible for and able to demonstrate compliance with data protection principles.
- 2. *Lawfulness, Fairness and Transparency* – Data should be processed lawfully, fairly and in a transparent manner in relation to individuals.
- 3. *Purpose Limitation* – Data should be collected for specified, explicit and legitimate purposes and should not be further processed in a manner that is incompatible with those purposes.
- 4. *Minimisation* – Data should be adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed.
- 5. *Accuracy* – Data should be accurate and, where necessary, kept up to date. Inaccurate or incomplete data should be corrected or erased.
- 6. *Storage Limitation* – Data should be kept in a form that permits identification of individuals only for as long as is necessary for the purposes for which the data are processed.
- 7. *Integrity and Confidentiality* – Data should be protected against accidental or unlawful destruction, loss, alteration, disclosure or access.

.....

.....

Collaborative Solutions for Active Living Inc. (PIP3)

23 Appendix B: Definitions

Individual:

User:

User Account:

Username:

Password:

Virtual Safety Deposit Box:

Custodian:

Collaborative Solutions for Active Living Inc. (PIP3)

Information Manager:

Collaborator:

Associate or Business Associate or Representative:

Personalized Care Provider or Provider, Practitioner:

Personalized Care Worker or Worker:

Innovator:

Substitute Decision Maker:

Emancipated Minor

Collaborative Solutions for Active Living Inc. (PIP3)

24 Appendix C: Acronyms

Electronic Health Record (“EHR”):

Electronic Medical Record (“EMR”):

Electronic Protected Health Information (“ePHI” or “EPHI”)

PHR **e PHRecord** .. **ePHR**

Electronic Personal Health Record (“ePHR” or “EPHR

Health Insurance Portability and Accountability Act (“HIPAA”)

Virtual Safety Deposit Box (“vSDB” or “vSDBox”):

Patient Derived Data (“PDD”)

Allied Medical Practitioner Derived Data (“AMPDD”)

Collaborative Solutions for Active Living Inc. (PIP3)

26 Appendix D: Applicable Canadian Legislation and Guidelines

“Fact Sheet – Privacy Legislation in Canada”

Privacy Act

Personal Information Protection and Electronic Documents Act

Digital Privacy Act

Freedom of Information and Protection of Privacy Act

Personal Information and Protection Act

Health Information Act

Personal Information and Protection Act

Freedom of Information and Protection of Privacy Act

E-Health (Personal Health Information Access and Protection of Privacy) Act

Collaborative Solutions for Active Living Inc. (PIP3)

<hr/> <hr/>	Freedom of Information and Protection of Privacy Act
<hr/>	Personal Health Information Protection Act
<hr/> <hr/>	
<hr/> <hr/>	
<hr/>	Digital Privacy Act
<hr/>	
<hr/> <hr/>	
<hr/>	Personal Information and Protection Act
<hr/>	HEALTH INFORMATION – A PERSONAL MATTER A Practical Guide to the Health Information Act
<hr/>	
<hr/> <hr/>	
<hr/>	Personal Information and Protection Act
<hr/>	Freedom of Information and Protection of Privacy Act
<hr/>	
<hr/> <hr/>	
<hr/>	A Guide to the Personal Health Information Protection Act
<hr/>	
<hr/> <hr/>	
<hr/>	A Mini-Guide to the Freedom of Information and Personal Information Protection Act
<hr/>	

Collaborative Solutions for Active Living Inc. (PIP3)

27 Appendix E: “Privacy by Design”

Proactive not reactive – preventative not remedial

Lead with privacy as the default setting.

Embed privacy into design.

Retain full functionality (positive-sum, not zero-sum).

Ensure end-to-end security.

Maintain visibility and transparency – keep it open

Respect user privacy – keep it user centric

“Privacy by Design”

Collaborative Solutions for Active Living Inc. (PIP3)

28 Appendix F: “Security Risk Assessment”

.....
.....
.....

❖
.....

.....
.....
.....

❖
.....

.....

29 Appendix G: “Privacy and Security of Electronic Health Information”

.....

❖
.....