



Consent and Consent Directives in Healthcare

for WHISTL

André M. Carrington

Agenda

- Context
- Consent
- Why?
- Exceptions
- Challenges
- How it works
- What it looks like

A patient encounters the health system



at many different points of service

**Family Dr
(EMR)**

**Hospital
(HIS, CIS, EPR)**

**Pharmacy
(DIS)**

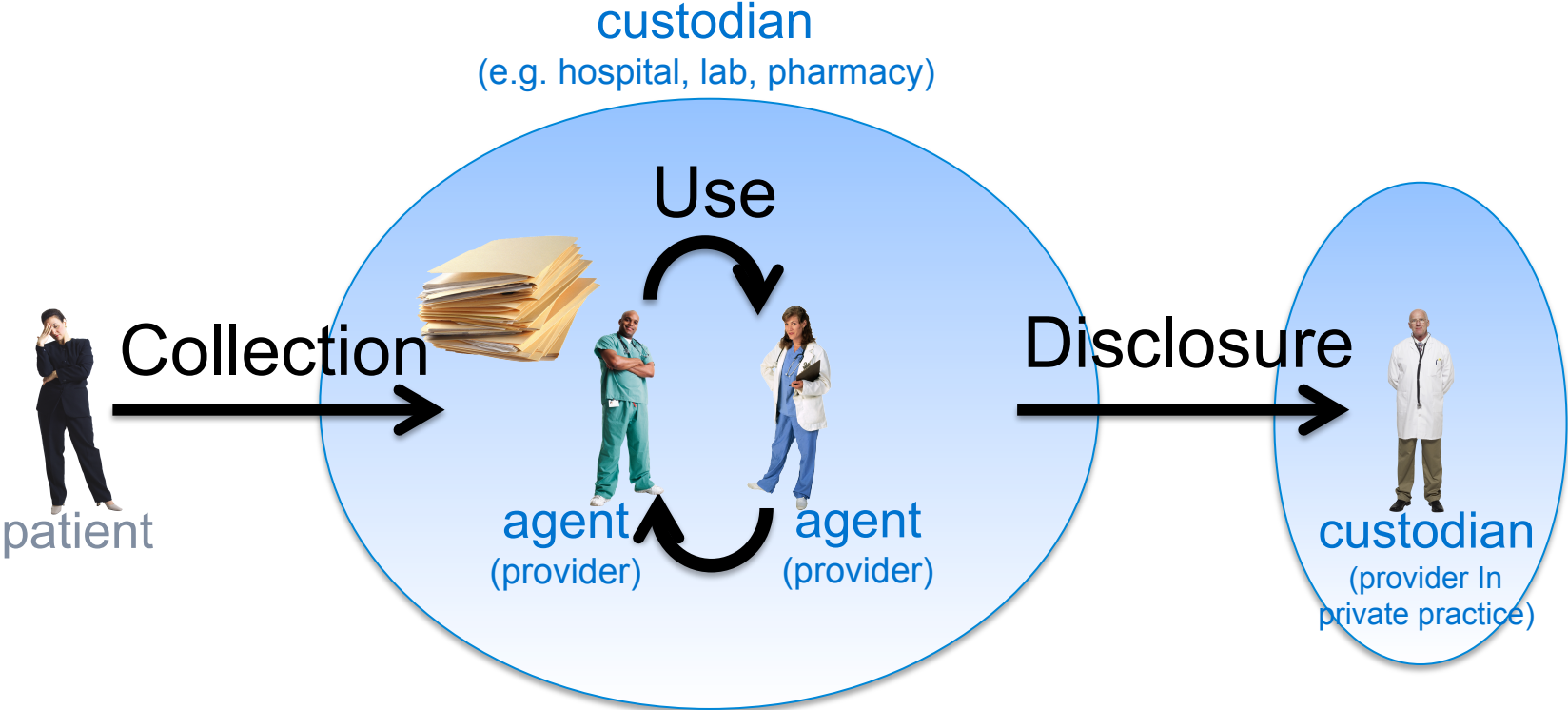
**Laboratory
(LIS)**

**Radiology
(RIS)**

**Home
(Telehomecare)**



Information flows in each encounter



Information flow is governed by privacy law

- A custodian needs to obtain an individual's consent to collect, use & disclose (CUD) personal health information, except where the law permits otherwise.

= Informational Consent

≠ Consent for treatment

Consent is implied when we seek care

- “Implied consent”
 - ...permits a...custodian to infer from the surrounding circumstances that an individual would reasonably agree to the collection, use or disclosure...”
- “Express consent”
 - ...is explicit and direct. It may be given verbally, in writing or by electronic means”; opt-in

* the vast majority of consent is implied

But consent may be withheld or withdrawn

- The patient may withhold or withdraw consent for collection, use and disclosure of personal health information. A mechanism to enforce that is required by law.
- Consent directives are an electronic mechanism to enforce that.
 - in whole or in part; opt-out

What personal health information (PHI) are patients concerned about? Why?

- home address, postal code, phone #, real name
 - why: stalking of victim/witness/prosecuter/vip
- mental illness, communicable disease, disability, abortion, sexual dysfunction, infertility, substance abuse, sexual abuse, physical abuse
 - why: snooping, equitable treatment, embarrassment
- any PHI - why: snooping (by co-workers in health)

Providers can use PHI without consent re

- Significant risk of serious bodily harm to individual or group
- What is “required by law, professional or institutional practice”
- Quality of care
- Research (w specific requirements and conditions)
- etc.

Providers can use PHI without consent re

- Significant risk of serious bodily harm to individual or group
- What is “required by law, professional or institutional practice”
- Quality of care
- Research (w specific requirements and conditions)
- Risk and error management
- Education (of agents)
- Service planning and delivery
- Claims and payment, etc.

And disclose without consent re

- Significant risk of serious bodily harm to individual or group
- Reasonable health care in a timely manner;
Contacting a relative
- Health system management and monitoring
- Research (w specific requirements and conditions)
- etc.

And disclose without consent re

- Significant risk of serious bodily harm to individual or group
- Reasonable health care in a timely manner;
Contacting a relative
- Health system management and monitoring
- Research (w specific requirements and conditions)
- **Public health surveillance**
- **Disease registries of prescribed entities**
- **Contacting a relative**
- **Per legal proceedings; statutory functions, etc.**

But one hospital has over 200 applications.

Is a Canadian
HL7v2 & v3 consent
standard available?

Do products and
vendors support
it?



Have products
been upgraded
where possible?

Can hospitals
afford the
upgrades?

these services may exist in a single hospital

**Family Dr
(EMR)**

**Hospital
(HIS, CIS, EPR)**

**Pharmacy
(DIS)**

**Laboratory
(LIS)**

**Radiology
(RIS)**

**Home
(Telehomecare)**

What does a consent directive look like?

Policies that deny (or permit) access to

- whole record
- domain (e.g. drugs, lab)
- service location (e.g. workplace)
- user, group or role
- specific data / encounter / time-period

Lab opt-out (xml message structure)

- ! RCMR_IN017003ON "urn:hl7-org:v3" – Note: This is an example
 - realmCode "ON"
 - id "0ABF6A2E-CA3A-8905-E918-D3520D6B3EF9"
 - creationTime "20100829203408.828-0700"
 - responseModeCode "I"
 - versionCode "V3-2008-N"
 - interactionId "2.16.840.1.113883.1.18"
 - profileId "BUS"
 - processingCode "D"
 - processingModeCode "T"
 - acceptAckCode "NE"
 - ▶ ● receiver "RCV"
 - ▶ ● sender "SND"
 - controlActEvent "CACT"
 - id "BUS"
 - code "2.16.840.1.113883.1.18"
 - statusCode "completed"
 - ▶ ● effectiveTime
 - ▶ ● languageCode "en"
 - ▼ ● recordTarget "RCT"
 - ▼ ● patient1 "PAT"
 - id "true"
 - ▶ ● author "AUT"
 - ▶ ● location "LOC"
 - ▼ ● subject "false"
 - ▼ ● consentOrPolicy "CONS"
 - id "BUS"
 - code "IDSCCL"
 - negationInd "true"
 - statusCode "completed"
 - ▶ ● effectiveTime
 - ▶ ● author1 "OP"
 - ▼ ● component "true"
 - ▼ ● permissionToInform "INFRM"
 - ▼ ● subject "false"
 - ▼ ● recordType "ACT"
 - code "ACLAB"

IDSCCL information disclosure
Consent to have collected healthcare information disclosed.

opt-out

ACLAB: lab test result access
Provide consent to collect, use, disclose, or access lab test result information for a patient.

lab

HL7 ActConsentType

ICOL	information collection
IDSCCL	information disclosure
INFA	information access
INFAO	access only
INFASO	access and save only
IRDSCCL	information redisclosure
RESEARCH	research information access
RSIDID	de-identified information access
RSREID	re-identifiable information access

Definition: Consent to have healthcare information collected in an electronic health record. This entails that the information may be used in analysis, modified, updated.

Definition: Consent to have collected healthcare information disclosed.

Definition: Consent to access healthcare information.

Definition: Consent to view or "read" only, which entails that the information is not to be copied, printed, emailed, stored, re-disclosed or otherwise used for that data which is masked or to which access is restricted and then emailed or screen captured for any purpose.

Definition: Consent to access healthcare information which entails that access to the information is restricted to research purposes without the patient's consent.













Definition: Consent to access healthcare information in an electronic health record accessed for research purposes.

Definition: Consent to have de-identified healthcare information in an electronic health record that is accessed for research purposes, but without consent to re-identify the information under any circumstance.

Definition: Consent to have de-identified healthcare information in an electronic health record that is accessed for research purposes re-identified under specific circumstances outlined in the consent. Example:: Where there is a need to inform the subject of potential health issues.



HL7 ActInformationAccessCode

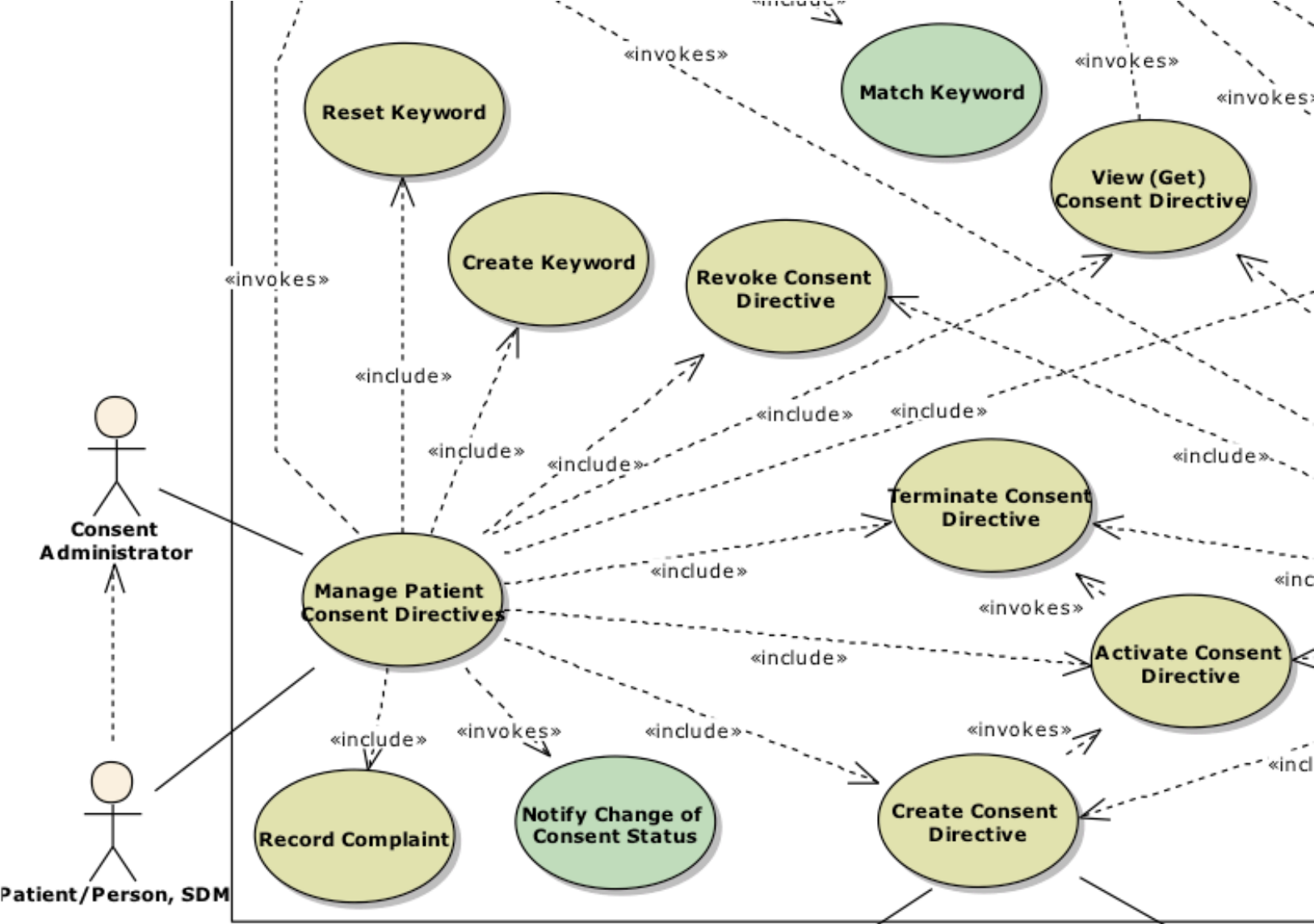
ACADR	 adverse drug reaction access	Description: Provide consent to collect, use, disclose, or access adverse drug reaction information for a patient.
ACALL	 all access	Description: Provide consent to collect, use, disclose, or access all information for a patient.
ACALLG	 allergy access	Description: Provide consent to collect, use, disclose, or access allergy information for a patient.
ACCONS	 informational consent access	Description: Provide consent to collect, use, disclose, or access informational information for a patient.
ACDEMO	 demographics access	Description: Provide consent to collect, use, disclose, or access demographics information for a patient.
ACDI	 diagnostic imaging access	Description: Provide consent to collect, use, disclose, or access diagnostic information for a patient.
ACIMMUN	 immunization access	Description: Provide consent to collect, use, disclose, or access immunization information for a patient.
ACLAB	 lab test result access	Description: Provide consent to collect, use, disclose, or access lab test result information for a patient.
ACMED	 medication access	Description: Provide consent to collect, use, disclose, or access medical condition information for a patient.
ACMEDC	 medical condition access	Definition: Provide consent to view or access medical condition information for a patient.
ACMEN	 mental health access	Description: Provide consent to collect, use, disclose, or access mental health information for a patient.
ACOBS	 common observations access	Description: Provide consent to collect, use, disclose, or access common observation information for a patient.

Lab
Medication
Demographics
Mental Health
etc.

How does it work?

- Lock-box. Access contents with
 - the patient's keyword
 - an (emergency) override
- Centralized. Interoperable.
- Policies must: follow constraints, be consistent.

Use Cases



How upgrade and integrate?

- 200 HL7v3 interfaces. Where is that v3 broker?
- 200 (one-time?) changes to
 - access control logic
 - user interface
 - transient data model / store (ODS)
 - possibly the production data store (PDS) & logic
- Bigger risk and low-hanging fruit: EHR



THE END

Questions?

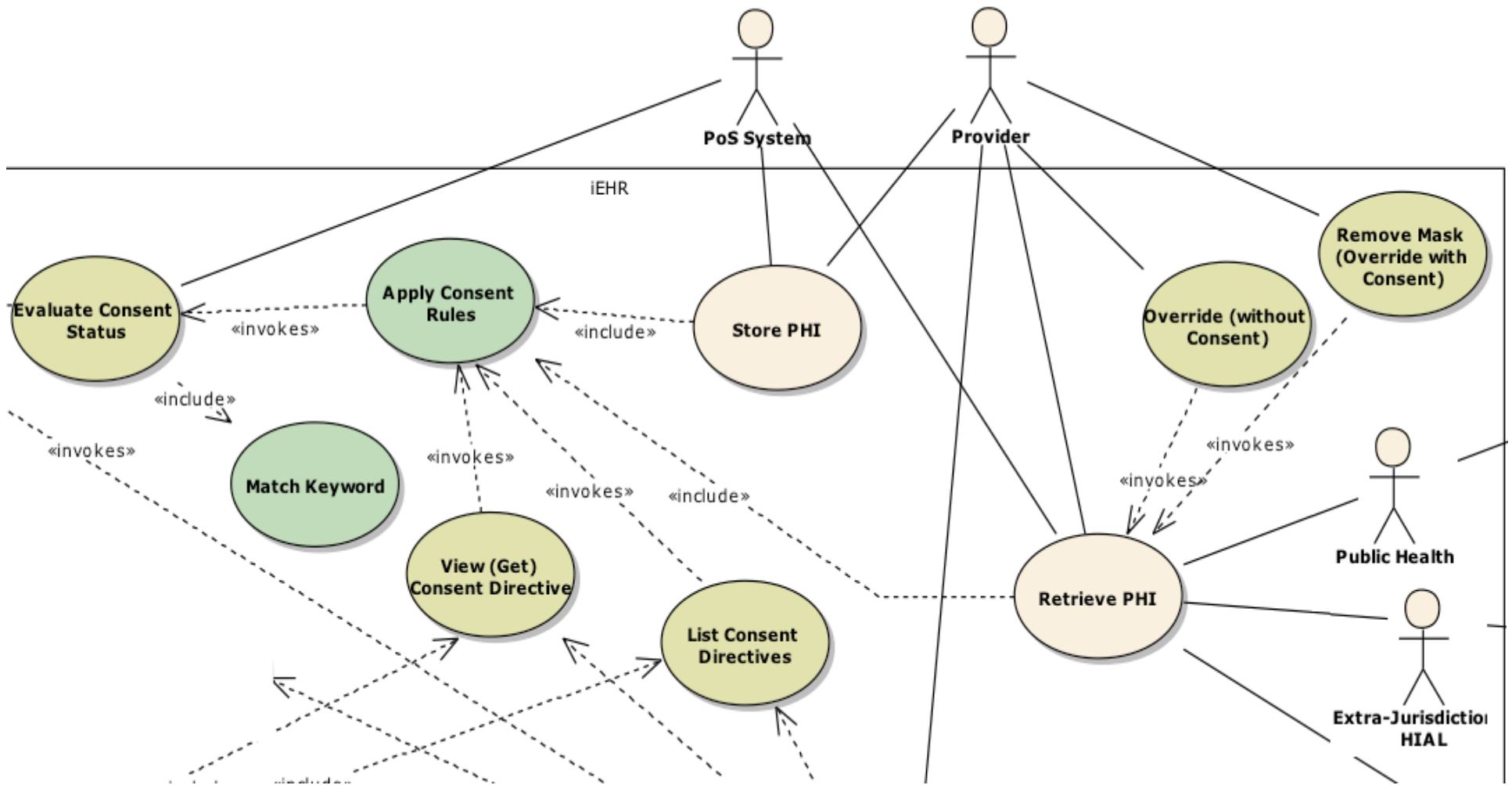
amcarrin@uwaterloo.ca

Implications of consent directives

- Providers that obtain information must be alerted if something is excluded
- Risk to quality of care & decision-making
- Service can be delayed or refused

Ontario Consent Directives

Use Case	Scenario(s) Involved	Trigger Event	Interaction Identifier
Manage Consent Directives by Client or Client Service Representative	Create Consent Directive	Create Consent Directive	RCMR_IN011003ON
	Delete Consent Directive	Delete Consent Directive	RCMR_IN012003ON
	Activate Consent Directive	Activate Consent Directive or Override Request	RCMR_IN017003ON
	Deactivate Consent Directive	Deactivate Consent Directive	RCMR_IN013003ON
	Modify Consent Directive	Modify Consent Directive	RCMR_IN014003ON
	Reinstate Consent Directives	Reinstate Consent Directives	RCMR_IN015003ON
	Consent Directive Request Accepted	Record consent or override request accepted	RCMR_IN010001ON
	Consent Directive Request Refused	Record consent or override request refused	RCMR_IN010002ON
Manage Policies	Create Privacy Policy	Create Privacy Policy	RCMR_IN011004ON
	Delete Privacy Policy	Delete Privacy Policy	RCMR_IN012004ON
	Activate Privacy Policy	Activate Privacy Policy	RCMR_IN016004ON
	Deactivate Privacy Policy	Deactivate Privacy Policy	RCMR_IN013004ON
	Modify Privacy Policy	Modify Privacy Policy	RCMR_IN014004ON
	Reinstate Privacy Policy	Reinstate Privacy Policy	RCMR_IN015004ON
	Privacy Policy Request Accepted	Record consent or override request accepted	RCMR_IN010001CA
	Privacy Policy Request Refused	Record consent or override request refused	RCMR_IN010002CA
View Consent Directives/Policies	List (Get) Consent Directives/Policies	Consent Directives Query Request	RCMR_IN010009ON
		Consent Directives Query Response	RCMR_IN010008ON
Manage Keywords	Update keyword request accepted	Update keyword request accepted	RCMR_IN010004CA
	Update keyword request refused	Update keyword request refused	RCMR_IN010005CA
	Update keyword request	Update keyword request	RCMR_IN010006CA



Related terms/concepts I did not discuss

- Implications of consent directives
- Substitute decision makers, minors, mature minors
- Masking, taboo flags, disclosure directives
- CeRx/HL7 ConfidentialityCode, HL7 Data Consent CMET, IHE BPPC, QC DSQ Consent Messages
- HL7 Consent DAM, HL7 Composite Privacy Data Consent, XACML