# Integrated Knowledge Management (IKM) Appendix

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# Integrated Knowledge Management (IKM) Appendix

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# Part I. Appendix

#### Appendix

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## A. Reference Guide

## A.1. Abbreviation Guide

AAFP	American Academy of Family Physicians
ACE	Angiotensin-converting enzyme
ADA	Americans with Disabilities Act
AHIMA	American Health Information Management Association
AHRQ	Agency for Healthcare Research and Quality
AI	Artificial Intelligence
AIDS	Acquired Immunodeficiency Syndrome
AMIA	American Medical Informatics Association
ANF	Analysis Normal Form
ANF RM	Analysis Normal Form Reference Model
ANSI	American National Standards Institute
AST	Abstract Syntax Tree
AOE	At order entry
AOSP	Android Open-Source Project
APAC	Asia-Pacific region featuring East Asia, South Asia, Southeast Asia, and Oceania
API	Application Programming Interface
аРТТ	Activated Partial Thromboplastin Time
ARIA	Active Risk Identification and Analysis
AST	Asparate aminotransferase
ASTM	American Society for Testing and Materials
ATC	Anatomical Therapeutic Chemical
AWS	Amazon Web Services
BDD	Behavior Driven Development
BDOH	Broad Determinants of Health
Bld	Whole blood
BPMN	Business Process Modeling Notation
C-CDA	Consolidated Clinical Document Architecture
CAP	College of American Pathologists
CD	Continuous Deployment
CDA	Clinical Document Architecture
CDC	Centers for Disease Control and Prevention
CDM	Common Data Model
CDS	Clinical Decision Support
CER	Clinical Effectiveness Research

CI Continuous Integration: or Clinical Improvement CIF Clinical Input Form CIMI Clinical Information Modeling Initiative CLI Clinical Laboratory Improvement CLIA Clinical Laboratory Improvement Amendments CMIO Chief Medical Information Officers CMM Capability Maturity Model CMS Centers for Medicare & Medicaid Services CNN Convolutional Neural Network CMT Convergent Medical Terminology CEBIO Chemical Entities of Biological Interest Ontology COVID Coronavirus disease CP Clinical Practice Guidelines CQL Clinical Practice Guidelines CQL Clinical Quality Language CR Configuration Requirements CRICO Controlled Risk Insurance Company CRN Clinical Research Networks CT Computerized Tomography CTS2 <sup>TM</sup> Common Terminology Services 2 <sup>TM</sup> CUI Concept Unique Identifiers CVX Codes that indicate the product used in a vaccination DAST Dynamic Application Security Testing DCM Detailed Clinical Model DevOps Development and Operation's Collaboration DevSecOps Development, Security, and Operations DI Dependency Inversion DLC Description Logic Classifiers DMG A type of installation when using an MSI installer and MacOs dpGaP Database of Genotypes and Phenotypes DrOn Drug Ontology DSTU Draft Standard for Trial Use DTA Data Transfer Agreement DRY Don't Repeat Yourself ECA Event Condition Cellablity Measure ECG Electronic Health Records	CFTR	Cystic Fibrosis Transmembrane Conductance Regulator
CIMI Clinical Information Modeling Initiative CLI Clinical Laboratory Improvement CLIA Clinical Laboratory Improvement CLIA Clinical Laboratory Improvement CMO Chief Medical Information Officers CMM Capability Maturity Model CMS Centers for Medicare & Medicaid Services CNN Convolutional Neural Network CMT Convergent Medical Terminology CEBIO Chemical Entities of Biological Interest Ontology COVID Coronavirus disease CP Clinical Pathways CPG Clinical Pathways CPG Clinical Practice Guidelines CQL Clinical Quality Language CR Configuration Requirements CRICO Controlled Risk Insurance Company CRN Clinical Research Networks CT Computerized Tomography CTS2 <sup>TM</sup> Common Terminology Services 2 <sup>TM</sup> CUI Concept Unique Identifiers CVX Codes that indicate the product used in a vaccination DAST Dynamic Application Security Testing DCM Detailed Clinical Model DevOps Development, Security, and Operations DI Dependency Inversion DLC Description Logic Classifiers DMG A type of installation when using an MSI installer and MacOs dpGaP Database of Genotypes and Phenotypes DrOn Drug Ontology DSTU Draft Standard for Trial Use DTA Data Transfer Agreement DRY Don't Repeat Yourself ECA Event Condition Action eCQM Electronic Clinical Quality Measure ECG	CI	Continuous Integration; or Clinical Improvement
CLI Clinical Laboratory Improvement CLIA Clinical Laboratory Improvement Amendments  CMIO Chief Medical Information Officers  CMM Capability Maturity Model  CMS Centers for Medicare & Medicaid Services  CNN Convolutional Neural Network  CMT Convergent Medical Terminology  CEBIO Chemical Entities of Biological Interest Ontology  COVID Coronavirus disease  CP Clinical pathways  CPG Clinical Practice Guidelines  CQL Clinical Quality Language  CR Configuration Requirements  CRICO Controlled Risk Insurance Company  CRN Clinical Research Networks  CT Computerized Tomography  CTS2 <sup>TM</sup> Common Terminology Services 2 <sup>TM</sup> CUI Concept Unique Identifiers  CVX Codes that indicate the product used in a vaccination  DAST Dynamic Application Security Testing  DCM Detailed Clinical Model  DevOps Development and Operation's Collaboration  DevSecOps Development, Security, and Operations  DI Dependency Inversion  DLC Description Logic Classifiers  DMG A type of installation when using an MSI installer and MacOs dpGaP Database of Genotypes and Phenotypes  DrOn Drug Ontology  DSTU Draft Standard for Trial Use  DTA Data Transfer Agreement  DRY Don't Repeat Yourself  ECA Event Condition Action  eCQM Electroardiogram	CIF	Clinical Input Form
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ECG Electrocardiogram	ECA	Event Condition Action
	eCQM	Electronic Clinical Quality Measure
EHR Electronic Health Records	ECG	Electrocardiogram
	EHR	Electronic Health Records

eMERGE	Electronic Medical Records and Genomics
ER	Emergency Room
ET	Enterprise Terminology
ETL	Extract, Transform, Load
EL	Existential Logic
ELK	A type of reasoner
FAERS	Food and Drug Administration's Adverse Event Reporting System
FDA	Food and Drug Administration
FDAAA	Food and Drug Administration Amendments Act
FedRAMP	Federal Risk and Authorization Management Program
FHIR	Fast Healthcare Interoperability Resources
FLWOR	For, Let, Where, Order by, Return
FML	FHIR Mapping Language
FSF	Free Software Foundation
GAM	Guidelines and Measures
GDPR	General Data Protection Regulation
GLIP	Guideline Interchange Format
GMDNA	Global Medical Device Nomenclature Agency
GNU GPL	GNU's Not Unix General Public License
GWAS	Genome-wide association studies
HADES	Health Analytics Data-to-Evidence Suite
HDS	Health Data Standards
HHS	Health and Human Services
HIE	Health Information Exchange
HIM	Health Information Management
HIPPA	Health Insurance Portability and Accountability Act
HIT	Health Information Technology
HITECH	Health Information Technology for Economic and Clinical Health
HIV	Human Immunodeficiency Virus
HL7	Health Level 7
HQMF	Home Quality Measure Format
HRO	Highly Reliability Organization
HSC	Health Standards Collaborative
НТА	HL7 Terminology Authority
HTML	Hyper Text Markup Language
ICD-9	International Classification of Diseases, Ninth Revision
ICD-10CM	International Classification of Disease, Tenth Revision Clinical Modification
ICNP	International Classification of Diseases
ICPC	International Classification of Primary Care

IEEE Institute of Electrical and Electronics Engineers IICC IVD Industry Connectivity Consortium IHTSDO International Health Terminology Standards Development Organization IKM Integrated Knowledge Management INR International Normalized Ratio ISO International Normalized Ratio ISO International Organization for Standardization (i.e. ISO languages and codes) ISP Integrated Environal Organization of Standardization (i.e. ISO languages and codes) ISP Integrated Segregation Principle IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association ISON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management Platform KNART Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBx Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Interoperability Data Repository LIMS Laboratory Information Management System LIS Laboratory Information Management System LIS Laboratory Information Management System LIS Laboratory Information System LIS Laboratory Information System LIS Laboratory Information Management System LIDR Logical Observation Identifiers LOINC® Logical Observation Identifiers LOINC® Logical Observation Identifiers LOINC® Model Driven Message Interoperability M	IDE	Integrated Development Environment
IHTSDO International Health Terminology Standards Development Organization IKM Integrated Knowledge Management INR International Normalized Ratio ISO International Organization for Standardization (i.e. ISO languages and codes) ISP Interface Segregation Principle IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association ISON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management Platform KNART Knowledge artifacts Komet Knowledge artifacts Komet Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBBA Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Information Management System LIS Laboratory Information Management System LIS Laboratory Information System LIS Laboratory Information System LIVD Loine®-to-IVD LM Logical Model LOI Logical Observation Identifiers LOINC® Logical Observation Identifiers LOINC® Liskov Substitution Principle MDMI Model Driven Message Interoperability MED-RT Medication - Reference Terminology MERS Middle East Respiratory Syndrome MeSH Medical Subject Headings ML	IEEE	Institute of Electrical and Electronics Engineers
IKM Integrated Knowledge Management INR International Normalized Ratio ISO International Organization for Standardization (i.e. ISO languages and codes) ISP Interface Segregation Principle IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association JSON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management KMP Knowledge Management Environment KNART Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBB Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Information Management System LIS Lopical Model LOI Logical Observation Identifiers LOINC® Logical Observation Identifiers LOINC® Logical Observation Identifiers Names and Codes® LSP Liskov Substitution Principle MDMI Model Driven Message Interoperability MED-RT Medication - Reference Terminology MERS Middle East Respiratory Syndrome MeSH Medical Subject Headings MIL Machine Learning	IICC	IVD Industry Connectivity Consortium
INR International Normalized Ratio ISO International Organization for Standardization (i.e. ISO languages and codes) ISP Interface Segregation Principle IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association JSON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management Platform KNART Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBx Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Information Management System LIS Laboratory Information Management System LIS Laboratory Information Management System LIVD Loinc®-to-IVD LM Logical Model LOI Logical Observation Identifiers LLONC® Logical Observation Identifiers Names and Codes® LSP Liskov Substitution Principle MDMI Model Driven Message Interoperability MED-RT Medication - Reference Terminology MERS Middle East Respiratory Syndrome MeSH Medical Subject Headings ML Machine Learning	IHTSDO	International Health Terminology Standards Development Organization
ISO International Organization for Standardization (i.e. ISO languages and codes) ISP Interface Segregation Principle IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association JSON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management Platform KNART Knowledge artifacts Komet Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBx Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Information Management System LIS Laboratory Information Management System LIS Laboratory Information System LIS Laboratory Information System LIVD Loinc®-to-IVD LM Logical Model LOI Logical Observation Identifiers LOINC® Logical Observation Identifiers LISP Liskov Substitution Principle MDMI Model Driven Message Interoperability MED-RT Medication - Reference Terminology MERS Middle East Respiratory Syndrome MeSH Medical Subject Headings MIL Machine Learning	IKM	Integrated Knowledge Management
ISP Interface Segregation Principle IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association JSON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management Platform KNART Knowledge artifacts Komet Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBX Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Interoperability Data Repository LIMS Laboratory Information Management System LIVD Loinc@-to-IVD LM Logical Model LOI Logical Observation Identifiers LOINC® Logical Observation Identifiers LISP Liskov Substitution Principle MDMI Model Driven Message Interoperability MED-RT Medication Subject Headings MIL Machine Learning	INR	International Normalized Ratio
IT Information Technology IV&V Independent Validation and Verification IVD In vitro Diagnostics GUI Graphical User Interface ISAAC To be known JAMA Journal of the American Medical Association JSON JavaScript Object Notation KM Knowledge Management KMP Knowledge Management Platform KNART Knowledge artifacts Komet Knowledge Management Environment KPI Kep Performance Indicators KRSS Knowledge Representation System Specification LAW Laboratory Analytical Workflow LBX Liquid Biopsy LHBA Linkage Honest Broker Agreement LIDR Laboratory Information Management System LIS Laboratory Information System LIS Laboratory Information System LIVD Loinc@-to-IVD LM Logical Model LOI Logical Observation Identifiers LOINC® Logical Observation Identifiers LISP Liskov Substitution Principle MDMI Model Driven Message Interoperability MED-RT Medication - Reference Terminology MERS Middle East Respiratory Syndrome MeSH Medical Subject Headings ML	ISO	International Organization for Standardization (i.e. ISO languages and codes)
IV&V       Independent Validation and Verification         IVD       In vitro Diagnostics         GUI       Graphical User Interface         ISAAC       To be known         JAMA       Journal of the American Medical Association         JSON       JavaScript Object Notation         KM       Knowledge Management         KMP       Knowledge Management Platform         KNART       Knowledge Amagement Environment         KPI       Kep Performance Indicators         KRSS       Knowledge Representation System Specification         LAW       Laboratory Analytical Workflow         LBX       Liquid Biopsy         LHBA       Linkage Honest Broker Agreement         LIDR       Laboratory Interoperability Data Repository         LIMS       Laboratory Information Management System         LIS       Laboratory Information System         LIVD       Loinc@-to-IVD         LM       Logical Model         LOI       Logical Observation Identifiers         LOINC@       Logical Observation Identifiers Names and Codes@         LSP       Liskov Substitution Principle         MDMI       Model Driven Message Interoperability         MED-RT       Medicat Subject Headings         ML	ISP	Interface Segregation Principle
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MeSH Medical Subject Headings ML Machine Learning	MED-RT	Medication - Reference Terminology
ML Machine Learning	MERS	Middle East Respiratory Syndrome
	MeSH	Medical Subject Headings
	ML	Machine Learning
MRC Minimally Required Content	MRC	Minimally Required Content
MU Meaningful Use	MU	Meaningful Use

NDC Na NDF-RT Na NGC Na NHGRI Na NLP Na N3C Na NCAT Na NDC Na	ational Council for Prescription Drug Program ational Drug Code ational Drug File – Reference Terminology ational Guideline Clearinghouse ational Human Genome Research Institute atural Language Processing ational COVID Cohort Collaborative ational Center for Advancing Translational Sciences ational Drug Code
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NDC Na	
	ational Drug Code
NDF Na	
	ational Drug File
NLM Na	ational Library of Medicine
NQMC Na	ational Quality Measures Clearinghouse
	bservation/Result Segment; OBR refer to many report headers; OBX to refer to any separate observation segments
OHDSI Ob	bservational Health Data Sciences and Informatics
OMG Ob	bject Management Group
OMOP Ob	bservational Medical Outcomes Partnership
ONC Of	ffice of the National Coordinator for Health Information Technology
OO Ob	bject-oriented
ORDO Or	rphanet ontology of rare diseases
OS Or	rder Sets
OSL Op	pen-Source Licensing
OSS Op	pen-Source Software
OTC Ov	ver-the-counter
	rocedural Knowledge, Assertional Knowledge, Statement Model, Terminology nowledge, and Foundational Architecture
PCORI Par	atient-Centered Outcomes Research Institute
PCORnet Th	he National Patient-Centered Clinical Research Network
PCP Pri	rimary Care Physician
PCR Po	olymerase Chain Reaction
PDF Po	ortable Document Format
PHAMIS Pu	ublic Health Automated Medical Information System
PHL Pu	ublic Health Lab
PHQ Pa	atient Health Questionnaire
PII Per	ersonally Identifiable Information
PMD A	source code analyzer
POC Po	oint of Care
PPRL Pri	rivacy Preserving Record Linkage

PT Prothrombin Time PTSD Post Traumatic Stress Disorder QA Quality Assurance QC Quality Control QDM Quality Data Model QL Query Logic QUICK Quality Improvement and Clinical Knowledge Model QVT Query/View/Transformation RA Rheumatoid Arthritis RA-ILD Rheumatoid Arthritis related Interstitial lung disease RBAC Role Based Access Controls RCT Randomized Clinical Trial RD Related Dementia RDFS RDF Schema Specification RECOVER Initiative RECOVER Initiative RECOVER Initiative RELMA® Regenstrief LOINC® Mapping Assistant RF2 Release Format 2 RFID Radio-frequency Identification RIM Reference Information Model RL Rules Logic RT Reference Terminology RxCUI (Prescription) Concept Unique Identifiers RNN Recurrent Neural Network RRF Rich Release Format RWD Real World Data RWE Real World Data RWE Real World Data RWE Real World Evidence SaaS Software as a Service SARS1 Severe Acute Respiratory Syndrome Coronavirus 1 SARS-CoV-2 Severe acute Respiratory Syndrome Coronavirus 2 SCA Software Composition Analysis (SCA) SCDM Sentinel Common Data Model SDO Standards Development Organization SDOH Social Determinants of Health	PPP	Platelet-Poor Plasma
PT Prothrombin Time PTSD Post Traumatic Stress Disorder QA Quality Assurance QC Quality Control QDM Quality Data Model QL Query Logic QUICK Quality Improvement and Clinical Knowledge Model QUICK Quality Improvement and Clinical Knowledge Model QVT Query/View/Transformation RA Rheumatoid Arthritis RA-ILD Rheumatoid Arthritis related Interstitial lung disease RBAC Role Based Access Controls RCT Randomized Clinical Trial RD Related Dementia RDFS RDF Schema Specification RECOVER Initiative RECOVER Initiative RELMA® Regenstrief LOINC® Mapping Assistant RF2 Release Format 2 RFID Radio-frequency Identification RIM Reference Information Model RL Rules Logic RT Reference Terminology RxCUI (Prescription) Concept Unique Identifiers RNN Recurrent Neural Network RRF Rich Release Format RWD Real World Data RWE Real World Data RWE Real World Evidence SaaS Software as a Service SARS1 Severe Acute Respiratory Syndrome Coronavirus 1 SARS-CoV-2 Severe acute Respiratory Syndrome Coronavirus 2 SCC Please look up SoC in this Abbreviation Guide. SCA Software Composition Analysis (SCA) SCDM Sentinel Common Data Model SDO Standards Development Organization SDOH	PPV	Positive Predictive Value
PTSD Post Traumatic Stress Disorder QA Quality Assurance QC Quality Control QDM Quality Data Model QL Query Logic QUICK Quality Improvement and Clinical Knowledge Model QVT Query/View/Transformation RA Rheumatoid Arthritis RA-ILD Rheumatoid Arthritis related Interstitial lung disease RBAC Role Based Access Controls RCT Randomized Clinical Trial RD Related Dementia RDFS RDF Schema Specification RECOVER Initiative RESEARCH Researching COVID to Enhance Recovery Initiative RELMA® Regenstrief LOINC® Mapping Assistant RF2 Release Format 2 RFID Radio-frequency Identification RIM Reference Information Model RL Rules Logic RT Reference Terminology RxCUI (Prescription) Concept Unique Identifiers RNN Recurrent Neural Network RRF Rich Release Format RWD Real World Data RWE Real World Evidence SaaS Software as a Service SARS1 Severe Acute Respiratory Syndrome Coronavirus 1 SARS-COV-2 Severe acute Respiratory Syndrome Coronavirus 2 SAST Static Analysis Security Testing SC Please Iook up SoC in this Abbreviation Guide. SCA Software Composition Analysis (SCA) SCDM Sentinel Common Data Model SDO Standards Development Organization SDOH	PRS	Polygenic Risk Scores
QA Quality Assurance QC Quality Control QDM Quality Data Model QL Query Logic QUICK Quality Improvement and Clinical Knowledge Model QVT Query/View/Transformation RA Rheumatoid Arthritis RA-ILD Rheumatoid Arthritis related Interstitial lung disease RBAC Role Based Access Controls RCT Randomized Clinical Trial RD Related Dementia RDFS RDF Schema Specification RECOVER Initiative RELMA® Regenstrief LOINC® Mapping Assistant RF2 Release Format 2 RFID Radio-frequency Identification RIM Reference Information Model RL Rules Logic RT Reference Terminology RxCUI (Prescription) Concept Unique Identifiers RNN Recurrent Neural Network RRF Rich Release Format RWD Real World Data RWE Real World Evidence SaaS Software as a Service SARS1 Severe Acute Respiratory Syndrome Coronavirus 2 SARS-COV-2 Severe acute Respiratory Syndrome Coronavirus 2 SCA Software Composition Analysis (SCA) SCDM Sentinel Common Data Model SDO Standards Development Organization SDOH Social Determinants of Health	PT	Prothrombin Time
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QDM Quality Data Model QL Query Logic QUICK Quality Improvement and Clinical Knowledge Model QVT Query/View/Transformation RA Rheumatoid Arthritis RA-ILD Rheumatoid Arthritis related Interstitial lung disease RBAC Role Based Access Controls RCT Randomized Clinical Trial RD Related Dementia RDFS RDF Schema Specification RECOVER Initiative RESCOVER Initiative RESCOVER Initiative RELMA® Regenstrief LOINC® Mapping Assistant RF2 Release Format 2 RFID Radio-frequency Identification RIM Reference Information Model RL Rules Logic RT Reference Terminology RxCUI (Prescription) Concept Unique Identifiers RNN Recurrent Neural Network RRF Rich Release Format RWD Real World Data RWE Real World Evidence SaaS Software as a Service SARS1 Severe Acute Respiratory Syndrome Coronavirus 1 SARS-CoV-2 Severe acute Respiratory Syndrome Coronavirus 2 SAST Static Analysis Security Testing SC Please look up SoC in this Abbreviation Guide. SCOM Sentinel Common Data Model	QA	Quality Assurance
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RBAC Role Based Access Controls  RCT Randomized Clinical Trial  RD Related Dementia  RDFS RDF Schema Specification  RECOVER Initiative Researching COVID to Enhance Recovery Initiative  RELMA® Regenstrief LOINC® Mapping Assistant  RF2 Release Format 2  RFID Radio-frequency Identification  RIM Reference Information Model  RL Rules Logic  RT Reference Terminology  RxCUI (Prescription) Concept Unique Identifiers  RNN Recurrent Neural Network  RRF Rich Release Format  RWD Real World Data  RWE Real World Evidence  SaaS Software as a Service  SARS1 Severe Acute Respiratory Syndrome Coronavirus 1  SARS-CoV-2 Severe acute Respiratory Syndrome Coronavirus 2  SAST Static Analysis Security Testing  SC Please look up SoC in this Abbreviation Guide.  SCA Software Composition Analysis (SCA)  SCDM Sentinel Common Data Model  SDO Standards Development Organization  SDOH	RA	Rheumatoid Arthritis
RCT Related Dementia  RDFS RDF Schema Specification  RECOVER Initiative  RELMA® Researching COVID to Enhance Recovery Initiative  RELMA® Regenstrief LOINC® Mapping Assistant  RF2 Release Format 2  RFID Radio-frequency Identification  RIM Reference Information Model  RL Rules Logic  RT Reference Terminology  RxCUI (Prescription) Concept Unique Identifiers  RNN Recurrent Neural Network  RRF Rich Release Format  RWD Real World Data  RWE Real World Evidence  SaaS Software as a Service  SARS1 Severe Acute Respiratory Syndrome Coronavirus 1  SARS-CoV-2 Severe acute Respiratory Syndrome Coronavirus 2  SAST Static Analysis Security Testing  SC Please look up SoC in this Abbreviation Guide.  SCA Software Composition Analysis (SCA)  SCDM Sentinel Common Data Model  SDO Standards Development Organization  SDOH Social Determinants of Health	RA-ILD	Rheumatoid Arthritis related Interstitial lung disease
RDFS RDF Schema Specification  RECOVER Initiative Researching COVID to Enhance Recovery Initiative  RELMA® Regenstrief LOINC® Mapping Assistant  RF2 Release Format 2  RFID Radio-frequency Identification  RIM Reference Information Model  RL Rules Logic  RT Reference Terminology  RxCUI (Prescription) Concept Unique Identifiers  RNN Recurrent Neural Network  RRF Rich Release Format  RWD Real World Data  RWE Real World Evidence  SaaS Software as a Service  SARS1 Severe Acute Respiratory Syndrome Coronavirus 1  SARS-CoV-2 Severe acute Respiratory Syndrome Coronavirus 2  SAST Static Analysis Security Testing  SC Please look up SoC in this Abbreviation Guide.  SCA Software Composition Analysis (SCA)  SCDM Sentinel Common Data Model  SDO Standards Development Organization  SDOH Social Determinants of Health	RBAC	Role Based Access Controls
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SCDM Sentinel Common Data Model SDO Standards Development Organization SDOH Social Determinants of Health	SC	Please look up SoC in this Abbreviation Guide.
SDO Standards Development Organization SDOH Social Determinants of Health	SCA	Software Composition Analysis (SCA)
SDOH Social Determinants of Health	SCDM	Sentinel Common Data Model
	SDO	Standards Development Organization
SGML Standard generalized markup language	SDOH	Social Determinants of Health
	SGML	Standard generalized markup language

SHIELD	Systemic Harmonization and Interoperability Enhancement for Laboratory Data
SLA	Service Level Agreement
SNOMED CT®	Systematized Nomenclature of Medicine Clinical Terms®
SNOMED RT	Systematized Nomenclature of Medicine Reference Terminology
SNOP	Systematized Nomenclature of Pathology
SoC	Separation of Concerns
SOLID	Single Responsibility Principle; Open/Closed Principle; Liskov Substitution Principle (LSP); Interface Segregation Principle (ISP); Dependency Inversion (DI)
SOP	Standard Operating Procedures
SPARQL	SPARQL [sparkle] Protocol and RDF Query Language
SPL	Structured Product Labels
ST	Standard Terminology
SWEC	Situation with Explicit Context
STAMP	Status, Time, Author, Module, and Path
STPA	System Theoretic Process Analysis
STU	Standard for Trial Use
TDD	Test Driven Development
ТНО	Terminology.HL7.org
Tinkar	TermINology Knowledge Architecture
TOPX	Terminal Operation System
TP	Treatment Protocols
TMC	Tinkar Model Concepts
TRM	Tinkar Reference Model
XLST	eXtensible Stylesheet Language Transformation
XML	Extensible Markup Language
UCUM	Unified Code for Units of Measure
UI	User Interface
UML	Unified Modeling Language
UMLS	United Medical Language System
URU	Understandable, Reproducible, Useful
USCDI	United States Core Data for Interoperability
UTG	Unified Terminology Governance
U.K.	United Kingdom
U.S.	United States
UML	Unified Modeling Language
UMLS	United Medical Language System
UNMC	University of Nebraska Medical Center
UUID	Universally Unique Identifiers

UX	User Experience
VCR	Version Control Repository
VHA	Veterans Health Administration
VSAC	Value Set Authority Center
WCAG	Web Content Accessibility Guidelines
WHO	World Health Organization

## **A.2. IKM Terminology Definitions**

Terminology	A set of concept identifiers, descriptors, and relationships used to capture domain information in an information system.
Standard Terminology	A terminology developed and published for use across organizational boundaries.
Enterprise Terminology	The set of terminology assets that are specific to and maintained by a healthcare organization, including, locations and services and their relationships to standard terminologies.
Tinkar	Terminology Knowledge Architecture (Tinkar) is intended to provide an architecture that delivers integrated terminology to the enterprise and its information systems. Tinkar addresses the differences in management and structure across reference terminology, and with local concepts and code lists/value sets.
Logical Model	A model expressed independently of a particular implementation technology.
Tinkar Reference Model	A logical model that describes the standardized model for terminology and change management.
Coordinate	A dimension of context in which a user wishes to view terminology assets.
STAMP	Status, time, author, module, path (STAMP) are the precise version coordinates that govern granular change control for Tinkar assets.
Path	A set of assets under version control that can be managed distinctly from other assets. Paths "branch" from other paths when established, and can be "merged" with other paths as well.
Branch	"Branch" as commonly used in version control, implies a tree structure, where a version configuration is allowed to only have one origin. In many instances, supported version configuration has more than one origin. For example, a mapping configuration may have an origin of T1 on System A, and T2 on System B (based on the release schedules of Systems A and B). A Path, which is more general, allows multiple origins of a version configuration.
Publish	To move a set of assets to a "published" branch and support its export to an interoperable payload technology. Publication implies that the publisher has exercised some editorial judgment and warrants the validity and consistency of the publication.

Export	To serialize a set of content to an interoperable payload technology. Export does not carry the same quality expectations as publication.
Import	To replicate an exported set of content into a repository. This activity implies the implementation of rules and constraints asserted by both native and imported content.
Configuration Requirements	Functionality required to make a Tinkar repository operational.
UML	The Object Management Group (OMG) Unified Modeling Language (UML) specification defines a graphical language for specifying and documenting the artifacts of systems.

Minimally Required Content	The set of minimal content a Tinkar repository must implement to support operations. A Tinkar implementation must be furnished with the following content: (a) One root concept; (b) One module dependency graph; (c) Infrastructure concepts a.k.a Tinkar Model Concepts to support the core patterns listed above; (d) Import rules to support import of standard terminologies.
Tinkar Model Concepts (a.k.a Infrastructure concepts)	Minimally required content that are concepts.
Separation of Concerns	A design principle that allows a complete system to be subdivided into distinct sections or components with well-defined functionality and dependencies. This approach allows individual sections to be reused, as well as worked on and updated independently to address new requirements and use cases.
Foundation Layer of Knowledge Architecture	The Foundation layer provides the common elements of interoperability such as object identity, versioning, modularity, and knowledge representation. It includes the foundation and building blocks of the common model and how the modules of the architecture are tightly version controlled over time.
Terminology Layer of Knowledge Architecture	The Terminology Knowledge Layer provides structured sets of medical terms and codes that define concepts of interest. This includes descriptions, dialects, language, and semantic hierarchy; Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®), Logical Observation Identifiers, Names, and Codes (LOINC®), and RxNorm are part of this layer.
Solor	System of Logical Representation (SOLOR) is a project sponsored by the Department of Veterans Affairs (VA) and Logica Health that represents and brings together terminology standards in a single model that can encompass any customized content. Solor allows informaticists and developers to convert user-supplied terminologies into a single model using opensource software to produce Solor content.
Komet	Knowledge Management Environment (Komet) is an example implementation of the Tinkar model, and shows how terminologies like SNOMED CT®, LOINC®, RxNorm shall be represented. Using the Komet browser users can view and

	search concepts, view concept details, and navigate hierarchies, among many other functions.
UUID	Universally Unique Identifier (UUID) is a 128-bit number used to identify information in computer systems.
FHIR	Fast Healthcare Interoperability Resource (FHIR) is a standard describing data formats and elements and an application programming interface for exchanging electronic health records.
Capability Maturity Model	A development model that can be viewed as a set of structured levels that describe how well the behaviors, practices, and processes of an organization can reliably and sustainably produce required outcomes. There are five levels defined along the continuum of the capability maturity model and the model provides a theoretical continuum along which process maturity can be developed incrementally from one level to the next.