

Open I Scalable I Private I Secure

Introduction





Agenda

- List of available learning resources
- Introduction to the concepts & overview of the platform
 - Complexities & challenges in Digital health
 - Introduction to EHR.Network architecture the DataFirst digital health infrastructure
 - References



List of learning resources

Open access

- 1. EHR.Network architecture included in this
- 2. Services
- 3. Resources & APIs
- 4. Multi-service APIs
- 5. Basic howtos

Limited access

- 6. openEHR clinical modelling
- 7. Code walkthrough
- 8. Build, test & deploy

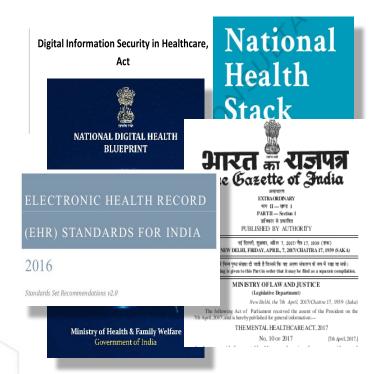


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Complex regulatory & governing standards



- Indian EHR standards, NDHM, PDP, TPG & Consent
- Multiple-fragmented regulatory & governance standards
- Multiple EHR data standards
- Complexity and Sensitivity of healthcare data



India EHR Standards' challenge - key points



ELECTRONIC HEALTH RECORD (EHR) STANDARDS FOR INDIA (2016)

Standards Set Recommendations v2.0

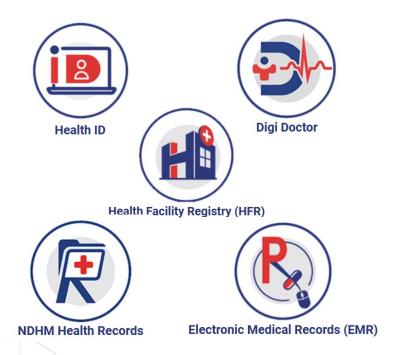
National Resource Centre for EHR Standards(NRCeS)

C-DAC, Pune

- Ownership of Clinical data with patient
- Clinical Data ready for semantic interoperability through Common data models/resources
- Data coding (SNOMED CT / ICD / LOINC)
- Minimum Data Sets for Clinical and Demographic information
- Data sharing through openEHR and HL7 FHIR



ABDM challenge - key points



- Unique HealthID for Patient
- Registries DigiDoctor for Practitioners, Facility Registry for Healthcare Providers
- Patient Consent Management for data sharing
- Secure data exchange
- Health Data Management Policy



Agenda

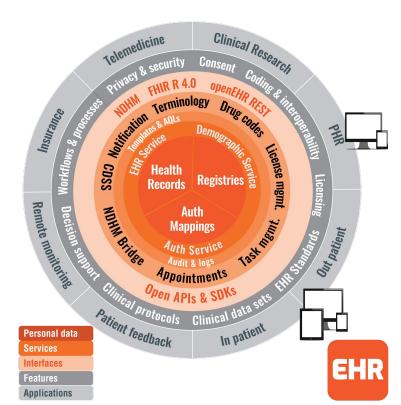
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Data-first digital health infrastructure

...powered by openEHR approach

- Standards compliant API-based digital health data platform
- Independently managed data & application layers
- Deploy Compliance, Standards, Security, Privacy & Consent as services
- Build dynamic application ecosystem





Standards compliance

- Designed to comply with the Indian EHR standards
- openEHR specifications in implementing Clinical Data Repository(CDR)
- Security guidelines are based on the OWASP Top 10 Most Critical Web Application Security Risks
- Computable clinical data coding with SNOMED-CT, LOINC, ICD
 10
- HL7 FHIR standards for interoperability of data
- ABDM compliance for Consent based data sharing



Open platform* principles

- EHR.Network is an open DataFirst digital health platform
- Open standards Built using open & freely available standards
- Shared information models Community curated models from openEHR CKM, Shared custom models
- Vendor neutral supports interoperable applications by independent teams
- Open data Vendor neutral, interoperable & accessible across the life of a person
- Portability beyond just data Schema, queries, workflow artefacts



Ease of application development

- Achieves segregation of data & applications so that both can evolve independently
- Ready to use APIs for quick development & deployment
- Loosely coupled services that give flexibility for developers to pick only the required services
- Flexible data schema openEHR CDR allows developers to implement their clinical models
- Regulations, standards and compliance as managed services

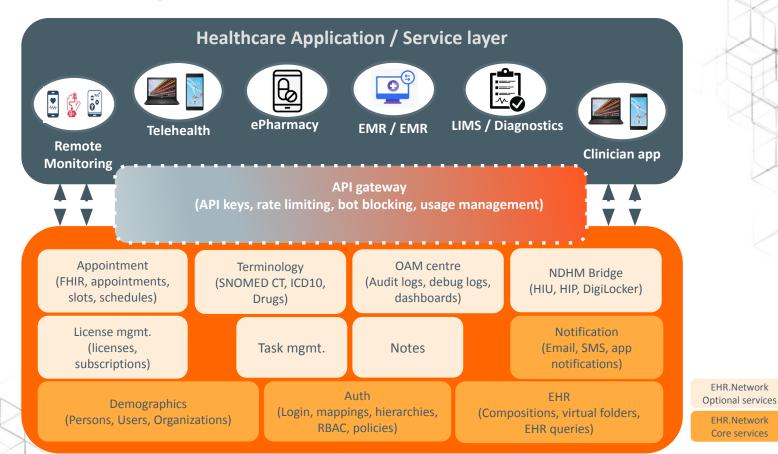
EHR.Network for Digital Healthcare solutions



EHR.Network

EHR.Network

Core services



EHR.Network

References

- EHR.Network website https://ehr.network
- EHR.Network documentation https://docs.ehr.network/site/
- openEHR https://www.openehr.org/
- FHIR https://nrces.in/ndhm/fhir/r4/all-examples.html
- LOINC http://loinc.org/
- SNOMED CT https://www.snomed.org/
- Owasp https://owasp.org/www-project-top-ten/
- Open platform https://apperta.org/assets/Apperta Defining an Open Platform.pdf



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