

Omnilngest ABDM 2.0

TECHNICAL FACT SHEET

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Executive Summary

Omnilngest ABDM 2.0 is the architectural backbone for modern clinical data ingestion in India's federated health ecosystem. It serves as the 'Safety Rails' for AI-driven health applications, ensuring speed does not compromise security.

System Specifications

Component	Specification
Language	Python 3.10+
Framework	Streamlit (Frontend), Polars (Engine)
Compliance	ABDM (NRCeS), FHIR R5
Security	AES-256 Cryptographic Shredding
Architecture	Event-Driven, Privacy-by-Design
License	MIT Open Source

Critical Features

- Rule 8.3 Kill Switch:** Immediate cryptographic erasure of PII upon consent revocation.
- Zero-Failure Ingress:** 'Universal Field Recovery' ensures data intake even from malformed CSVs.
- Audit Trails:** Generates immutable 'audit_2026.json' logs to prove compliance without retaining data.
- Vibe-Coded UI:** Dark-mode clinical dashboard designed for 24/7 operations.

Regulatory Alignment

This system is engineered to strictly adhere to:

1. **DPDP Act 2023** (Right to Erasure)
2. **ABDM Health Information Provider (HIP) Guidelines**
3. **FHIR R5** Data Interoperability Standards

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