ChartScribe – Technical Specifications & Interoperability Overview

Version 1.1 | Date: 21 June 2026 | Prepared for: Healthcare Providers & IT Teams

FHIR R4 Certified | US Core Compliant | SMART on FHIR Ready | NHS DTAC Aligned

1. Overview

ChartScribe is built on modern, open standards to ensure seamless integration with any EHR system, while maintaining full compliance with NHS, HSE, HIPAA, and GDPR requirements. This document provides the complete technical specification for IT teams evaluating or implementing ChartScribe.

2. Core Standards Supported

- **FHIR R4.0.1** + US Core Implementation Guide (v6–v9) — Production
- **C-CDA R2.1** with Companion Guide R4.1 — Legacy support
- **SMART on FHIR v2.2** — Patient and clinician launch
- **Bulk Data Access IG v2** ($export) — Enterprise tier
- **HL7 v2** — Fallback for older systems (Enterprise)
- **OAuth 2.0 + OpenID Connect** — Authentication

3. Supported EHR Systems

System	FHIR	C-CDA	Setup Time	Status
EMIS Web	Full	Yes	5 minutes	**Live**
SystmOne (TPP)	Full	Yes	8 minutes	**Live**
Epic	Full	Yes	10 minutes	**Live**

Cerner Millennium	Full	Yes	10 minutes	**Live**
RiO	Full	Yes	7 minutes	**Live**
Allscripts	Full	Yes	12 minutes	**Live**
Athenahealth	Full	Yes	9 minutes	**Live**
OpenEMR	Full	Yes	15 minutes	**Live**
Practice Fusion	Full	Yes	10 minutes	**Live**
Custom / Other	Custom	Yes	2–4 weeks	**Enterprise**

4. Security & Compliance

Encryption & Data

AES-256 in transit and at rest. Zero audio retention. Full audit logging.

Access Control

Role-based access control (RBAC). Consent management framework. Multi-factor authentication.

UK & EU

NHS DTAC aligned. GDPR compliant. ICO registered (ZB123456). DPO: dpo@chartscribe.io

US & Global

SOC 2 Type II certified. ISO 27001 certified. HIPAA BAA available.

5. FHIR API Endpoints

Base URL: `https://api.chartscribe.io/fhir`

Auth: OAuth2 Bearer token + SMART scopes

POST /Composition — Export Clinical Note

Push a completed clinical note as a FHIR document Bundle. Returns 201 Created with Location header.

GET /Patient/{id}/$everything — Import Patient Data

Retrieve all patient data for pre-filling notes. Returns Patient + Observations + Medications + Conditions.

GET /Group/{groupId}/$export — Bulk Data Export (Enterprise)

Export population data in NDJSON format. Returns 202 Accepted with async polling URL.

GET /.care/authorize — SMART on FHIR Launch

Initiate SMART app launch from .care. Patient context passed via launch parameter.

6. Key Capabilities

- Real-time bidirectional note sync with any FHIR-enabled EHR
- Patient data pre-fill (medications, allergies, history) from EHR
- Bulk population export for practice managers (Enterprise)
- Patient-controlled app launch from .care via SMART on FHIR v2.2
- C-CDA R2.1 generation for legacy systems without FHIR support
- Offline mode with automatic sync when connectivity returns

7. Roadmap & Future Standards

Q3 2026

Full FHIR R5 evaluation. Subscription API support for real-time updates. Enhanced US Core v9 profiles.

Q4 2026

Da Vinci payer implementation guides. CDS Hooks for clinical decision support. Advanced Bulk Data v2.1.

2027

FHIR R6 readiness assessment. AI transparency extensions. EU EHDS (European Health Data Space) alignment.

8. Support & Onboarding

- **Dedicated integration engineer** for Enterprise customers — from scoping through go-live
- **Step-by-step guides and video tutorials** for all 9 supported EHR systems
- **Sandbox testing environment** provided before production deployment
- **24/7 phone support** for Enterprise tier — 15-minute response SLA

9. Appendix — Compliance Certificates

NHS DTAC NHS Digital	**SOC 2 Type II** AICPA	**ISO 27001** BSI	**HIPAA BAA** HHS
GDPR Compliant ICO Registered	**FHIR R4** HL7 Certified	**US Core IG** HL7 / ONC	**SMART on FHIR** HL7 v2.2

10. Appendix — Sample FHIR Bundle

```
{
  "resourceType": "Bundle",
  "id": "bundle-note-example",
  "type": "document",
  "entry": [{
    "resource": {
      "resourceType": "Composition",
      "id": "note-001",
      "status": "final",
      "type": { "coding": [{ "system": "http://loinc.org", "code": "11488-4" }] },
      "subject": { "reference": "Patient/12345" },
      "date": "2026-06-21T10:00:00Z",
      "author": [{ "reference": "Practitioner/dr456" }],
      "section": [
        { "title": "Subjective", "text": { "div": "Patient reports chest pain..." } },
        { "title": "Objective", "text": { "div": "BP 142/88, HR 86, SpO2 98%" } },
        { "title": "Assessment", "text": { "div": "Unstable angina (I20.0)" } },
        { "title": "Plan", "text": { "div": "ECG ordered, cardiology consult" } }
      ]
    }
  }]
}
```

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