



Pathpoint Service definition

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CONTENTS

03 Introducing Open Medical

04 Our offerings

06 Pathpoint capabilities

09 Implementation approach

10 Technical specification

12 Pricing & contract

INTRODUCING OPEN MEDICAL

Open Medical are a team of clinically-led digital health pioneers. Founded by practising NHS clinicians, we combine a deep understanding of the healthcare landscape with unrivalled technical expertise to produce intelligent, clinician-centric software solutions and drive impactful digital transformation in healthcare.

WHAT WE DO

We specialise in developing and implementing bespoke, end-to-end, patient pathway and clinical workflow solutions, for all specialities, across all care settings. Our market-leading, fully interoperable digital platform, Pathpoint, is used across hundreds of healthcare institutions to prioritise, synchronise and visualise speciality team workflows, for the best integrated, data-driven care and future service planning.

Our desire to transform healthcare delivery along with our constantly expanding UK and international footprint, means we continue to innovate at pace and are shaping the future of digital healthcare in the UK.

OUR MISSION

Our mission is to empower healthcare providers worldwide to deliver efficient data-driven care, by forming strong, long-lasting relationships and creating safe and secure, trusted solutions that deliver value. We are committed to our vision of an interconnected, collaborative, healthcare digital ecosystem.

OUR OFFERINGS

PATHPOINT PRODUCT SUITE

Open Medical offers a suite of software solutions that can be used in all healthcare settings. These include specialty specific clinical workflow systems, Trust-wide enterprise installations, and integrated regional care pathway coordination platforms that transcend organisational boundaries and drives collaboration at a regional level. All products are powered by the Pathpoint intelligent pathway-mapping engine.

The system is used to visualise, synchronise and prioritise clinical decisions and facilitates communication and collaboration across teams, hospitals and regions, for intelligent, data-driven care delivery.

Each installation involves our software being uniquely configured to specific local processes, for projects of any size and scope, for any number of clinical teams, and for any number of collaborating healthcare providers.

Pathpoint's architecture is pathway based, modular in its construction and therefore enables effortless expansion in its use and functionality; it can be rapidly scaled up or down in-line with changing local requirements. The product and its features are frequently iterated in response to user feedback, and a build-on-demand approach to pathway processes is central to the service. Pathpoint is entirely cloud-based, which means we operate without any geographical or technical constraints.

Pathpoint is fully interoperable with modern hospital systems (including via HL7, FHIR and JSON:API), and uses natural language processing for automatic clinical-coding of treatment pathways using SNOMED-CT. This functionality generates high quality, granular data and provides superior reporting and analytics capabilities. Users are provided with meaningful care metrics and real-time data insights.

Pathpoint provides a safe and secure environment to store patient data and share information between clinicians. Users are given role based access ensuring the right people have access to the right patient information at the right time. Professionals can closely track each patient for the entirety of their care pathway ensuring that all interventions are optimised.

PATHPOINT ENABLES

-  Digitisation of each step in an end-to-end care pathway
-  Real-time oversight & coordination of activity and pathways
-  Clinical workflow actions & process automation
-  Asynchronous digital patient engagement
-  Cohorting & filtering of patients including by diagnosis, clinician, pathway type and stage in pathway
-  Powerful real-time data insights, reporting & analytics
-  Separation of activity through team/role based access & highly granular user permissions

PATHPOINT CAPABILITIES

REFERRAL MANAGEMENT

- Cloud-based system accessed, anytime, from any location, on any device
- Single unified referral portal, managing referrals from all sources - emergency, virtual, tertiary, elective
- NHS e-Referrals system (e-RS) integration
- Customisable speciality specific tertiary referral forms and referrals to virtual clinics
- Alerts and notifications, bleep free referral system, 2-way communication
- Safe and easy image attachment function
- Automatically generated protocols/leaflets at presentation

PROCEDURE PLANNING, THEATRE MANAGEMENT, PRE-OP ASSESSMENT

- Waiting list management and procedure planner
- Scheduling of emergency, urgent and elective lists
- Automatic breach times, theatre utilisation metrics, live dashboards
- Full theatre management workflow
- Theatre overview dashboard
- Digital op-notes, intra-operative recording, digital anaesthetic charts
- Full digital POA workflow, including sending patients pre-screening questionnaires as well as escalation lists for anaesthetists

DIGITAL PROMS & PREMS

- Open Medical are a nationally accredited NHS PROMs supplier
- Validated PROMS questionnaires are completed by patients on tablet devices in the clinic, or completed at home via email or SMS
- Instant visibility of completed answers with 'seen/read' verification and automated reminders for non-responders
- Direct data submission to national registries
- Automated score calculation, flagging of concerning responses, tracking of scores overtime
- PROMs can be embedded at any point of the patient pathway, for example remote monitoring of patients on elective waiting lists

DIGITAL CONSENT

- Streamlined, integrated, digital consent solution for all specialities
- Customised digital consent forms for any treatment or procedure
- Embedded, customised guidance & videos, sign-on-screen functionality, virtual consent clinics via video
- Consent form templates from an extensive library of validated content
- Delivery to patients via encrypted email

PATHPOINT CAPABILITIES

REMOTE PATIENT MONITORING

- Safely monitor patients remotely with our suite of 2-way patient communication tools & real-time alerting system
- Automated digital questionnaires, alerts to concerning responses, secure upload of clinical photos, video consultations
- Capture patient recorded data (observations, symptoms, PMH, drug adherence, wound/lesion status, height/weight, blood glucose) for monitoring post-discharge, chronic diseases, drug responses, clinical trials

PATIENT ENGAGEMENT

- SafeView - share time critical digital care plans directly with patients via SMS & email (leaflets, guidance, videos, appointments, letters, consent, questionnaires)
- SafeAttach - allows patients to upload clinical photographs from their own device for referral, monitoring, remote assessment
- 'Seen/read' verification for added 'message received' reassurance

AUDITING & CLINICAL GOVERNANCE

- Real-time auditing and clinical governance features
- Automatic capture and auditing of infections
- Diagnosis specific management protocols facilitate compliance with audit changes
- Full activity log and version history

VIRTUAL CLINICS & APPOINTMENTS

- Custom clinic templates and slots
- Manage and triage patients virtually from any location
- Seamless clinic administration with action pathways
- Automated appointment allocation to referrer or appointment selection following triage assessment

COMMUNICATION & COLLABORATION BETWEEN TEAMS

- Clinical communication and collaboration between organisations
- Generation of handover lists, worklists, waiting lists
- Multiple clinical teams support
- Unlimited customisable pathway types
- MDT documentation and workflow capabilities
- Templated therapy referrals and assessments - plaster room, physiotherapy, hand therapy, occupational therapy

DATA, REPORTING & BUSINESS INTELLIGENCE

- Natural Language Processing for end-user SNOMED-CT coding
- A readily available database of information that can also be easily scrutinised for research and audit purposes
- Live dashboards for real-time, granular data insights
- Real time service metrics, KPIs and analytics
- Powerful reporting engine and data extraction capabilities
- Feeds to business intelligence units

PATHPOINT BENEFITS

- ✓ Effective, real-time clinical governance and internal communication
- ✓ Improved decentralised collaboration for multi-site clinical teams
- ✓ Efficient digitisation of clinical workflows
- ✓ Improved handover efficiency and process optimisation
- ✓ Local/remote monitoring of on-call and theatre progress
- ✓ Improved oversight and coordination of theatre lists, including those patients waiting at home for surgery
- ✓ Referral, procedure and diagnosis lists for clinical audit, research and service improvement
- ✓ Reduction in adverse incidents and complaints
- ✓ Generation of new service metrics, including injury-to-theatre-time
- ✓ Improved, forward-planning of patient care resources (bed, theatre slots, staff)
- ✓ Real-time data insights
- ✓ Streamlined communication through automatic notifications
- ✓ Improved compliance with national guidelines
- Reduced administrative burden

IMPLEMENTATION APPROACH

The Open Medical team consists of a blended clinical, technical and operational skill mix.

Our approach to every project consists of 4 distinct phases:

1. Scoping and consultation
2. System configuration and deployment
3. Implementation
4. Post-implementation support

The first step in implementation is a thorough scoping and consultation exercise where local processes and requirements are fully mapped out. This enables our clinical team to understand the local workflows, desired functionality and user requirements for a digital system.

The technical team then translates these processes digitally into specific pathways and workflows on Pathpoint, thereby creating a bespoke agile customisation.

Following creation of the system, the implementation team plans and delivers user training. Training is delivered in-line with the needs of each organisation through a mixture of tailored in-person and virtual activities and the distribution of training materials, including adopting a train-the trainer methodology. Alongside this, users are supported by a comprehensive training and resource library consisting of videos, presentations and system user guides.

POST IMPLEMENTATION SUPPORT

Launch includes active on site training and support, with continued off-site training and support offered for the duration of the subscription.

Licence subscription includes:

- Business-as-usual: single point of contact client support; managing delivery and resolution of queries
- Extraordinary: 24/7 365 day support to resolve high-level severity live system application issues
- In platform ticketing system and a dedicated emergency 24/7 support line, operated by our client support team.

See our YouTube channel for training videos. Training materials provided during implementation.

TECHNICAL SPECIFICATION

DATA HOSTING AND SECURITY

Open Medical partners with multiple cloud service providers (primary cloud service provider is AWS) with data storage and processing located in approved data centres within the United Kingdom. External and in-house penetration testing takes place at least once per year and all physical media is encrypted.

Pathpoint software is a highly secure cloud-based platform, certified by the National Cyber Security Centre ('Cyber Essentials' Plus certification), deployed within the HSCN, in a Unix/Linux stack, communicating with its SQL database engine on the same machine via a Unix socket by default. Pathpoint software can only be accessed via Secure Socket Layer. The codebase is developed in secure Open Medical development servers. The production environment is monitored daily. In an HSCN certified host, Pathpoint software can only be accessed from within the HSCH WAN via the HTTP protocol at the SSL enabled TCP 443 port.

The domain uses 256-bit SSL encryption and is fully compliant with the NHS digital information governance requirements, including GDPR. As a web based service, it is fully accessible from any desktop computer in any NHS Hospital Trust in England.

Pathpoint software implements a separate and explicit permission to view the PIDs. User roles with PID viewing permission are required.

The PIDs are not duplicated in any way and only remain stored in their dedicated database tables accessible only by the Pathpoint software application on the same local host. Pathpoint software does not directly transmit any PIDs outside its host machine. The database explicitly rejects all non-localhost connections by default.

BACKUP & DISASTER RECOVERY

Open Medical has disaster recovery and business continuity plans in place to ensure functionality and avoid any disruptions to the service. There is a detailed plan for incapacity of engineering, operational and implementation teams as well as strategy for any external disruptions i.e loss of premises, network and computer systems. There is a secondary data centre in a separate location that holds all system backups.

TECHNICAL SPECIFICATION

INTEROPERABILITY

Pathpoint is a modern system designed to be interoperable with any other health IT system, including with the PAS, EPR and DMS.

Pathpoint is FHIR native, and can integrate bidirectionally through HL7, FHIR, JSON:APIs, and receiving or sending real-time data feeds, configured to any local technical specification.

We are committed to forming part of an organisation's digital ecosystem through promoting the principles of interoperability, data sharing and supporting NHSE's Open-API policy.

TECHNICAL REQUIREMENTS

Pathpoint systems are entirely cloud-based with no local hardware requirements. The platform is supported on all modern internet browsers including:

- Chrome
- IE 11+
- MS Edge
- Firefox
- Safari 9+
- Opera

There is no difference between the mobile or desktop service.

PRICING & CONTRACT

PRICING

We offer a flexible and modular pricing structure that adapts to the scope of the project. Factors that influence scope include number of specialities/clinical teams, desired functionality and degree of customisation. We work closely to tailor our service to project needs, and ensure we deliver the best value possible.

ORDERING AND INVOICING PROCESS

We operate a software-as-a-service (SAAS) model requiring Purchase Order (PO) yearly invoicing.

Enquiries can be directed to sales@openmedical.co.uk

CONTRACT TERMINATION

Contract termination does not result in service discontinuation. The Pathpoint system remains live in a read-only state. Exported SQL files and binary archives are generated and provided automatically. Data extraction via JSON:API or FHIR API directly from the Pathpoint™ system is also available. Where recommissioning is not optioned at the end of the subscription period, there are no additional costs. The service remains available with a full read-only functionality and can be resumed at any time.

CONTACT US

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