



## Patient Pathway Plus – Cancer Pathway Management solution (PP+ CPM)

For full visibility of all cancer pathways in real time

**Transform cancer pathway management by looking forwards not backwards, advancing patients continuously along their intended pathways. The key is to make the full pathway visible right up to the day of treatment, powered by automated and unified data. This unlocks dynamic escalation and shorter waits. Staff spend less time obtaining data and producing reports, and more time improving pathway conformance, and solving the root causes of delays and bottlenecks. The result? Faster care and improved patient outcomes.**

### Benefits

- Full visibility of cancer pathways for active pathway management
- Collaborative real-time operational tool, reducing duplication of effort for cancer teams wherever they are
- Unified data for automated, accurate national and local reporting
- Full and auditable patient event tracking data for dynamic escalation, to spot bottlenecks, breaches, and long waits and enable timely interventions for effective cancer care
- Increased productivity, immediately saving hundreds of quantifiable hours in manual and ad hoc reporting
- Single view of operational data for evidenced service improvements
- Tracks patients in real time between care settings and hub/spoke services
- Streamlined data for secondary uses such as CPD, clinical audit and research
- Track record of rapid implementation

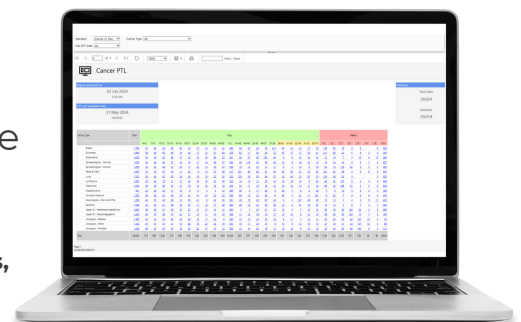
### Continuous waiting times reporting

PP+ CPM unifies all the necessary administrative, diagnostic, and treatment data, compiling pathways and automating national reporting and local business intelligence. PP+ CPM provides continuous waiting times visibility, with up-to-date, configurable reports that incorporate Cancer Waiting Times rules directly into the system.

### Data management

PP+ CPM automatically acquires and standardises disparate data to create a Unified Data Layer (UDL<sup>®</sup>). Sources include Electronic Patient Records (EPR), pathology and radiology, with real time HL7 updates available.

The UDL is consistent across every implementation, with data and reporting continuity if source systems are upgraded or replaced.



### Supporting waiting times targets

PP+ CPM provides dynamic generation of patient cohorts. This powerful sorting and filtering means trackers can quickly identify patients who need action.

It makes all actions visible in real time to avoid duplication of effort, and provides both workflow management and a complete audit trail of work in progress.

PP+ CPM generates cohorts from multiple data points, for instance to identify patients who are at risk of breaching, or missing intermediate pathway milestones.

It is highly configurable. This allows it to conform to national and local requirements, and deliver to every user and team the contextualised information that their role requires.

### Visualisation of pathways for informed decisions

Full visualisation of patient pathways ensures complete and contextualised data at the point of care and MDTs, reduces duplication of effort in local decision-making, and promotes integrated care across a geography for better patient outcomes.

**“This strategic solution will enable us to bring real-time care and process data to our frontline staff and ultimately to our consultants. It will give a visible portrayal for the management of all our patients through their cancer journey and their statutory milestones...”**

Derick MacRae, Cancer Services Manager, NHS Highland



## Technical specifications

The technical requirements of the service will vary depending on the modules taken within the Insource solution and the scope of the individual customer project.

PP+ CPM can be installed on new or existing server hardware. It can be implemented in any of the following configurations.

- Dedicated server
- Shared server
- Virtual Environment

The following server specifications will provide a typical acute trust or Health Board using PP+ CPM with sufficient storage and processing capability when installed on a dedicated environment.

These server specifications are available as a physical server or as a virtual image within virtual server environment. Only one instance of PP+ CPM is supported per server (whatever the configuration). Multiple instances on the same server are not possible.

The following recommended configurations are subject to initial investigation and are provided for guidance purposes only. Greater data volumes may require a higher specification infrastructure.

### Physical server

Component	Specification	Details
CPU	Quad Core Xeon Processors	
RAM	16GB RAM	
	3 x 600GB Hard Disk Drives configured with RAID 5 striping	
	Partitioning Details	Drive 1 - Operating System 150 GB Drive 2 - Database Files (*.mdf) 0.5 TB Drive 3 - Database Logs (*.ldf) 0.5 TB Drive 4 - Temp DB/Master 0.5 TB

### Virtual server image specification

Component	Specification
CPU	1CPUs, 8 Total Cores
RAM	16GB RAM
Datatore	1.6TB, 4 logical drives; OS 150GB, 500GB each for Data, Logs, TempDB

Note that the size of the disk is dependent on the volume of source data included. During processing, the application may require up to 5 times the storage space of the imported data to cater for environments, transformations, cube production and all the other sophisticated data processing elements of PP+ CPM.

### Software

The following software needs to be installed and configured on the server to support the Data Academy<sup>®</sup> components of PP+ CPM:

- Microsoft Windows Server 2019 or better
- Microsoft SQL Server 2016 64-bit (latest service pack) or SQL Server 2017/2019, Standard edition or better (All modules installed)
- Microsoft Internet Information Services (IIS) 6 (or later)
- Database Mail (included in SQL Server setup) – Required for email notifications only
- Microsoft .NET 4

Please note that the system requirements given above are the minimum requirements for our products and for Microsoft SQL Server. Your overall requirements may be greater depending on the software installed.

## Features

- Multiple frameworks for procurement including G-Cloud
- Uses common NHS data standards
- Integrity of underlying data assured prior to display
- Typically around 23 transformations to full data unification
- Data lineage for full bidirectional auditability
- Complexity does not multiply as source systems are added
- Data standardisation preserved as source systems change
- Data (not systems) are integrated
- Streamlines data quality checking and maintenance
- Localisations encapsulated in maintainable business rules
- Agnostic to source, sector and industry

## Elective care management

Beyond cancer, Insource have a suite of advanced elective pathway management services covering referral-to-treatment and planned care pathways, elective data quality management and validation, and capacity planning. All are underpinned by the powerful data management platform which builds the Unified Data Layer (UDL<sup>®</sup>), for safer pathway management, shorter waiting times, and reduced effort.

## About Insource

For decades, Insource have supported NHS and other healthcare providers with advanced data and pathway management services. We are an SME with presence in England and Scotland, and dozens of expert staff across a range of fields. We are proud that hospitals and other healthcare organisations across the UK have chosen to rely on our technology every day.



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