



Cinnamon Screening

Service Definition

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Overview

Cinnamon Digital Applications is a British company based in Milton Keynes in north Buckinghamshire. Our mission is to provide digital products that transform the way you work.

We have more than twenty-five years' experience working in UK healthcare and specialise in core technologies including:

- Web based software applications
- Windows applications
- Cloud based platforms

Our digital screening software is designed specifically to meet the needs of NHS screening services. The application is custom made to improve all aspects of the pathway.

We are 100% confident that using our software generates cash savings from efficiency improvements in your service as well as greatly improved services for children, families and schools.

Background

NHS School Screening services are largely reliant on local manual data collection and processing of school lists using Microsoft excel. This involves significant time, and effort to co-ordinate and managed the data and process.

School lists are most often stored in excel files on shared drives. This makes it difficult to update records because documents are difficult to access and may already be in use by other people. Multiple lists are often in use and staff are regularly unsure where the most accurate data is held. This is expensive and time consuming. It is also inconvenient to schools and prone to information governance breaches because data is often lost or misplaced.

School Screening services spend large amounts of time sifting, sorting and reporting data. Our digital screening application manages all of this and removes all the hassle for local teams.

Parents and schools will love the new process. Our software is web-based and available on all platforms including mobile. This means that parents and carers can complete consent forms at any time, in any location on any device. It offers complete flexibility and is device agnostic, so it works on android, apple, windows and other platforms.

The reporting functionality included within our applications will give your service significant operational efficiencies. This is because:

- You can record all screening outcomes, for all children, in one place
- Class lists show the correct opt in/out status for every child
- All reporting to commissioners is available within the application
- Data can be easily exported to other systems including the national NCMP tool, TPP SystmOne, Rio, EMIS

Our reporting tools will allow your team to triage electronically without needing to refer to paper forms. This is a game changer for your service and will bring you fully up to date with other digital ready NHS services.

NCMP Screening Features

- **RCPCH Growth API Integration**
Built-in validation of height, weight, and BMI centiles using thresholds from the Royal College of Paediatrics and Child Health.
- **Digital School Lists with NHS Number Tracing**
Automated creation of school lists with integrated Personal Demographics Service (PDS) tracing to accurately match children to NHS records.
- **Digital Triage Workflow**
Structured digital triage replaces spreadsheets and manual preparation, supporting efficient school-based screening delivery.
- **Mobile Data Entry with Offline Capability**
Data capture on any approved device, with offline functionality and secure automatic synchronisation once connectivity is available.
- **Automated BMI Calculation & Validation**
Calculation of BMI centiles with validation checks to prevent out-of-range or inconsistent entries.
- **Automated Parent Communication**
Customisable NCMP letters and notifications can be generated directly from the system.
- **NHS System Integration**
Integration with NHS systems including TPP SystmOne, EMIS, and Rio to maintain consistent records.
- **Configurable Data Capture & Reporting**
Customisable fields, filters, and categorisation to support local audit, reporting, and programme evaluation.
- **Secure Access & Audit Trails**
Role-based access control and full audit logging aligned with NHS information governance standards.

NCMP Screening Benefits

- **Accurate NCMP Data**
Automated BMI centile calculations, validation and NHS integration reduce the risk of errors and support reliable reporting and analysis.
- **Streamlined Screening Processes**
Digital workflows support up to a 20% improvement in screening efficiency during school visits.
- **Reduced Administrative tasks**
Replaces paper forms, spreadsheets, and post-visit processing with a single digital workflow.
- **Proactive, Child-Centred Support**
Connects families directly to local services, transforming routine measurement into early intervention.
- **Reduced Health Inequalities**
Improves access to information and support for families
- **Consistent Data Across NHS Systems**
Integration ensures NCMP measurements are visible and consistent across clinical systems.
- **Operational Flexibility**
Offline capability allows screening in schools with limited or no internet connectivity.
- **Audit-Ready & Compliant**
Role-based access and full audit trails support governance, assurance, and reporting requirements.

Vision Screening Features

- **Standardised Visual Acuity Entry (LogMAR)**
Structured capture of vision results, recorded separately for each eye to reduce errors and support consistent measurements.
- **Automated Referral Decision**
Application of nationally mandated referral thresholds, including inter-eye difference calculations, to support objective referral decisions.
- **Mandatory Re-Test and Fail Tracking**
Workflow enforcement requiring re-test or referral records before completion of a screening session.
- **Longitudinal Vision Record View**
Instant access to historical vision screening data to inform triage and clinical decisions.
- **Digital Screening Worklists**
Dynamic school screening lists to support efficient in-school delivery.
- **Orthoptic & Ophthalmology Referral**
Automated electronic submission of structured referral data to hospital eye services.
- **Specialist Referral Portal (Orthoptics / Ophthalmology)**
Secure portal access allowing specialist clinicians to view original screening data, add clinical notes, and communicate outcomes back to the screening team.
- **CHIS and GP System Integration**
Securely transmit screening outcomes to Child Health Information Services and GP systems to maintain consistent records.
- **Automated Parent Information Delivery**
Standardised clinical advice and next-step information is automatically issued following a fail or referral.

Vision Screening Benefits

- **Support for Early Detection of Vision Issues**
Structured measurement and automated referral criteria help identify unilateral or otherwise missed vision problems.
- **Support for Timely Treatment**
Mandatory re-test and referral tracking reduce delays in follow-up and specialist intervention.
- **Consistent Clinical Decision-Making**
Automated referral rules provide uniform, objective criteria across screeners.
- **End-to-End Referral Visibility**
Specialist portal access allows service leads to track referrals from screening through to treatment.
- **Improved Clinical Communication**
Shared access to original screening data and specialist notes supports clearer handover and reduces duplication or misinterpretation.
- **Support for Follow-Up Compliance**
DNA tracking and automated recall notifications help ensure children attend re-tests or specialist appointments.
- **Operational Reliability in School Settings**
Offline capability enables data capture and screening delivery in environments with limited or no internet connectivity.
- **Improved Parent Information and Engagement**
Automated delivery of clear, standardised clinical advice supports parent understanding and follow-up actions.
- **Audit-Ready Records**
End-to-end documentation and secure logging support governance, service assurance, and compliance.

Hearing Screening Features

- **Structured Audiometry Threshold Entry**
Structured data entry ensures left/right ear results are accurately recorded and prevents invalid frequency/dB pairings.
- **Automated Pass/Fail Logic**
National hearing screening protocols, including mandated dB thresholds, are applied automatically to determine screening outcomes.
- **Mandatory Retest Enforcement**
Workflow control requires creation of re-test appointments for any initial fail before session completion.
- **Digital Screening Worklists**
Live, prioritised worklists support management of children's flow between classrooms and testing areas during school visits.
- **Audiology Referral API Integration**
Structured electronic referrals including full audiometry data are generated automatically for submission to Audiology services.
- **CHIS and GP System Integration**
Screening outcomes can be securely transmitted to Child Health Information Services and GP systems to maintain consistent records.
- **Audiology Specialist Referral Portal**
Secure portal access allows Audiology teams to view original screening data, add clinical notes, and communicate outcomes back to school nursing teams.
- **Automated Parent Communication Tools**
Bulk generation of letters or emails, informs parents of results, re-tests, or referrals.
- **Referral Tracking & DNA Management**
End-to-end monitoring of Audiology referrals, with automated recall actions for children who do not attend follow-up appointments.
- **Audit Trails & Secure Access Controls**
Role-based access control and full audit logging aligned with NHS information governance and clinical accountability requirements.

Hearing Screening Benefits

- **Support for Consistent Hearing Screening/ Improved Identification of Hearing Loss**
Structured data entry and automated pass/fail rules ensure adherence to national protocols, reducing missed or incorrect results.
- **Reduction of Subjective Variation**
Automated decision logic reduces variation between screeners and supports objective outcomes.
- **End-to-End Referral Tracking**
Referral portal access and monitoring ensure follow-up actions are recorded and visible, supporting continuity of care.
- **Support for Parent Communication**
Automated notifications provide timely, standardised updates to parents regarding screening outcomes and follow-up requirements.
- **Operational Efficiency in School Settings**
Digital worklists and automated workflows streamline screening delivery during school visits.
- **Integration with NHS Systems**
Screening outcomes can be securely transmitted to Child Health Information Services and GP systems to maintain consistent records.
- **Clinical Communication Support**
Shared access to original screening data and specialist notes reduces duplication and clarifies outcomes.
- **Support for Timely Specialist Access**
Automatic electronic referrals enable faster communication with Audiology services, reducing administrative delays.
- **Audit-Ready Records and Reporting**
Structured capture, secure storage, and full audit trails support clinical governance and service planning.

Pricing

Our digital screening application is fully managed by us and hosted on our servers. This means there is no requirement for local infrastructure or development time from IT teams or your local information department.

Cinnamon Digital will provide a complete application that manages all aspects of the screening pathway for all your screening programmes. This includes:

1. NCMP, Audio and Vision Screening
2. Electronic triage
3. Digital school lists
4. Streamlined mobile data entry of vaccinations
5. Full data reporting suite including uptake rates
6. Interoperability and integration with other clinical systems

Cinnamon Digital Screening is affordable for all NHS Screening teams. We understand the current financial climate and make our products available at a realistic and affordable price.

All fees include the licence to use the applications, installation service, hosting and set up. There is no hidden cost or reliance upon consultancy services.

Software can be purchased directly or through the government digital marketplace known as the g-Cloud framework.

Hosting and Maintenance

Our Digital Screening application is supplied using the software as a service (SaaS) model. There is no requirement for any local hosting including servers, CALs or other Microsoft licencing. The applications are hosted in the Microsoft Azure UK Data Centre which are fully compliant with all NHS requirements for cloud hosting.

This model means that we can keep costs lower and reduce the impact on busy Trust IM&T and informatics teams.

Our hosting model includes:

- **Hosting:** includes server provision and scaling, backups, uptime performance monitoring, server updates, security.
- **Maintenance:** includes updates, security patches, bug fix, query resolution, software-related performance issues, installation of new code/scripts, software support, testing, upgrades, migration and development.

The application is licenced to the customer. Users are unlimited. The only requirement at the customer end is for users to register and with the application so that the correct permissions can be assigned.

The applications can be used in all default browsers including those shown below. For the application side (Trust Screening staff) we suggest use of Microsoft Edge or Chrome on Windows 11 devices.

- Microsoft Edge
- Firefox
- Chrome
- Safari 9+

Deployment

We will manage the full deployment of our software into your screening team and will agree the timescales with you.

We guarantee to fully deploy our software into your Trust within 3-4 weeks. In most cases we would expect to deliver this more quickly given the time pressures on local screening teams.

The table below shows the key deliverables for implementing the solution and anticipated time required for each element. Dates would be dependent on the final date a contract is agreed.

	Jan-19				Feb-19			
	6	13	20	27	3	10	17	24
Requirements meetings								
Register URL domain								
Local configuration								
Branding								
Reference Data								
School List								
Deploy to Test								
Trust Testing								
Snagging								
Deploy SSL and security								
Deploy to Live								
Complete staff training								
Go live								

Support

We will provide ongoing support to all customers via our dedicated applications support helpdesk. This is available:

- Monday to Friday 09:00 to 17:00

Customer staff can contact our helpdesk directly to resolve issues or for advice and guidance. There is no requirement for desk-to-desk or interim arrangements. We prefer to liaise directly with operational staff so that issues are resolved quickly and effectively.

All calls to our helpdesk will be logged in our service desk application. In agreement with the customer, they will be assigned a priority and resolved according to that status.

We will find a resolution to the issue and agree a timescale with the end user or the customer representative. We will never charge to fix bugs with the system or technical issues with our hosting services.

All customers will receive the very latest versions of our applications at no additional cost during the term of the agreement. This includes the introduction of new features and bug fix upgrades.

Contact Details

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