OpenEyes - Specification

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Target Audience

General Interest	✔
Healthcare managers	✔
Ophthalmologists	✔
Developers	✔

Amendment Record

Issue	Description	Author	Date
0.9	First issue	G W Aylward	2 August 2010

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Introduction

This document provides a detailed specification of the current and planned functions of OpenEyes, including information on the status of each component. For each entry in the tables in the following sections, the status can be one of the following;

Planned	The need for the function has been accepted, but work has not started
Underway	Work on the implementation of the function has begun
Complete	An implementation of the function has been completed at least to the 'alpha' level

Development Teams

A number of centres are either contributing to the development of OpenEyes, or are actively considering whether to do so. At the time of writing, these centres are;

Centre	Abbreviation	Role
Moorfields Eye Hospital	MEH	Development and Coordination
St Thomas' Hospital	STH	Development
Maidstone & Tunbridge Wells NHS Trust	MTW	Development
NHS Fife	NHF	Development
Manchester Eye Hospital	MAN	Development
Royal Victoria Eye and Ear Hospital, Melbourne	VIC	Development
School of Optometry and Vision Sciences, Cardiff	CAR	Development

Database connections

Ref	Item	Description	Status	Team	Date
1.00	Data abstraction layer	The data abstraction layer allows OpenEyes to be used with a variety of SQl databases	Complete	MEH	Mar 2010
1.01	- Link to MySQL	MySQL is a popular open source SQL database	Complete	MEH	Mar 2010
1.02	- Link to MSSQL	MSSQL (Microsoft SQL Server) is a widely used SQL backend	Planned	STH	

Ref	Item	Description	Status	Team	Date
1.03	- Link to PostgreSQL	PostgreSQL is a popular open source SQL database	Planned		
1.20	Audit trail	Recording of user access to database (At level of data abstraction layer)	Complete	MEH	May 2010
1.30	Patient demographics	Link to patient administration system for patient demographics and GP details	Complete	MEH	May 2010
1.31	- Link to SilverLink PAS	Silverlink is a spine-compliant PAS used in about 18 trusts in the UK	Complete	MEH	May 2010
1.32	- Link to iSoft PAS	iSoft supplies the PAS for the southern cluster	Planned	STH	
1.40	UK consultant data	Details of all UK Consultant Ophthalmologists for correspondence	Complete	MEH	Jun 2010

Access control

Ref	Item	Description	Status	Team	Date
2.00	RBAC	Role based access control system for graded, multilevel control of user access	Complete	MEH	Mar 2010
2.01	- LDAP version	Implementation of RBAC for use on an LDAP server	Complete	MEH	Mar 2010
2.02	- SQL version	Implementation of RBAC suing SQL tables	Complete	MEH	May 2010
2.10	Active Directory	Authentication of users from details stored in Active Directory	Complete	MEH	Jun 2010

User Administration Functions

Ref	Item	Description	Status	Team	Date
3.00	Home page	Page presenting information and functions presented to user after successful logon	Complete	MEH	Jun 2010
3.01	- News items	Display of news items appropriate to role	Complete	MEH	Jun 2010
3.02	- Clinical alerts	Display of incoming letters, investigation results, and other alerts, with hyperlinks to patient record and item	Complete	MEH	Jun 2010

Ref	Item	Description	Status	Team	Date
3.03	- Clinic list	Display of patients in next or current clinic, with hyperlinks to patient record	Underway	MEH	Aug 2010
3.10	Audit function	Run regular audits and design custom audits for user	Planned	MEH	Dec 2010
3.20	Profile	Edit users own personal details	Complete	MEH	Aug 2010

Clinical Functions

Ref	Item	Description	Status	Team	Date
4.00	Find patient	Locate patient record by hospital number	Complete	MEH	May 2010
4.10	Patient summary	Provides summary of demographic and clinical details on one page	Complete	MEH	May 2010
4.20	Clinical events	Chronological display of clinical events, grouped by consultant episodes. Allows addition of new events, and editing or recently added ones	Complete	MEH	May 2010
4.30	Diagnoses	Chronological display of SNOMED coded diagnoses, with ability to add additional diagnoses	Complete	MEH	May 2010
4.40	Contacts	Display of health professionals associated with patient, with ability to add, remove, and edit contact details.	Complete	MEH	May 2010

Clinical Events

Ref	Item	Description	Status	Team	Date
5.00	examination	Clinical details of an ophthalmic examination, with 'flavours' corresponding to each sub-specialty	Complete	MEH	May 2010
5.01	refraction	Optometrist's page for entering a refraction	Planned		
5.02	orthoptics	Orthoptists page for entering data from an orthoptic assessment	Planned		
5.03	Diabetic screening	Diabetic screening page	Planned	MEH	Nov 2010

Ref	Item	Description	Status	Team	Date
5.04	ffa	Display images from a fluorescein angiogram	Planned		
5.05	icg	Display images from an indocyanine green angiogram	Planned		
5.06	oct	Display images from an OCT	Complete	MEH	Jun 2010
5.07	field	Display visual field from Humphrey	Complete	MEH	Jun 2010
5.08	ultrasound	Display images and a report from an ultrasound test	Planned		
5.09	xray	Display images from an X-Ray	Planned		
5.10	ctscan	Display images from a CT scan	Planned		
5.11	mriscan	Display images from a MRI scan	Planned		
5.12	bloodtest	Display results from a blood test	Planned		
5.13	prescription	Write a prescription	Underway	MEH	Sep 2010
5.14	preassess	Pre-assessment details	Planned		
5.15	anaesth	Anaesthetic records	Planned		
5.16	amdapplication	Application form for anti-VEGF drugs	Underway	MTW	Nov 2010
5.17	amdinjection	Injection of anti-VEGF drugs	Underway	MTW	Nov 2010
5.18	injection	Other ophthalmic injection	Planned		
5.19	laser	Record of laser treatment	Underway	MEH	Oct 2010
5.2	letterin	Incoming correspondence	Complete	MTW	Mar 2010
5.21	letterout	Outgoing correspondence	Complete	MTW	Mar 2010
5.22	cvi	Display of eCVI form	Underway	MEH	Nov 2010

Links to External Systems

Ref	Item	Description	Status	Team	Date
6.00	COMPLOG	Flexible visual acuity measuring and recording system	Complete	MEH	Jul 2010
6.10	Humphrey Fields	Humphrey field analyser	Underway	MEH	Sep 2010
6.20	IOL Master	Intraocular lens measurement and calculations	Underway	MEH	Sep 2010

Administration Functions

Ref	Item	Description	Status	Team	Date
7.00	Users	Add, edit and delete system users	Complete	MEH	Aug 2010
7.01	Roles	Add, edit and delete roles, and assign, de-assign users	Complete	MEH	Aug 2010
7.02	Service settings	Add, edit and delete service specific settings	Complete	MEH	Aug 2010
7.03	Firm settings	Add, edit and delete Firm specific settings	Underway	MEH	Aug 2010
7.04	User settings	Add, edit and delete user specific settings	Underway	MEH	Aug 2010