



eHSPD

eHealth Service Provider Discovery and Authorisation system

Requirement

The access by the public and fellow professionals to information about health professionals is fraught with problems caused by the fragmentation of sources and repositories, out-of-date data, unknown spelling, ignorance of medical terminology, difficulty of use, changing roles and structures, access authorisation, privacy concerns, lack of ownership etc. The outcome is user disillusionment which results in a general disuse of the system.

Yet such a trusted repository is a fundamental requirement for new eHealth initiatives such as PCEHR, Consent Management and Patient Index systems.

eHSPD provides the means and technology to provide such a facility with rapid implementation and at an economic cost.

eHSPD

eHSPD is a proven system that combines a highly flexible search facility with a secure repository of health professional information. Its world leading approximate matching capability greatly improves the user experience and consequently its effectiveness and usefulness, whilst its strong access control capability enables simple management of access to information.

It has been proven as a major State Government health professionals directory, as a Regional service provider directory in another state, and as a hospital region internal staff directory.



ESPLANADE HEALTH+
HEARTS, SNOMED & HSPD

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W3C WAI-AA ATAG 1.0 Powered by ViewDS

Key Features

Centralised Repository.

eHSPD provides a secure central point for the storage of and access to trusted information about Service Providers and resources, and it can synchronise information with other repositories to ensure integrity of data.

Flexible Design

eHSPD can use a standard design schema, or can be customised for a particular purpose. Its user friendly web interface enables tailoring to maximise user ease of use and accuracy and integration into portals.

Searching Capabilities

Users are not always precise in searching a directory: names can be mis-heard, mis-spelt, transcribed incorrectly or shortened. Furthermore there is a wide range of names from different languages. eHSPD supports a range of approximate matching functions to support searches by human users. These include:

- sophisticated and powerful phonetic matching - e.g. "pane" will match "payne", "wong" will also find "wang", "fiotherapy" will match "physiotherapy"
- typing correction - compensates for missing and transposed characters

- stem matching - e.g. "optics" will match "optical"
- synonym matching - e.g. "Bob" will match "Robert", "road" will match "street", "Cancer" will match "oncology"
- Abbreviation matching - e.g. "NSW" will match "New South Wales"
- word matching, including word synonyms, word phonetic matching and typing correction
- fuzzy logic is used to rank and return the best results

SNOMED

The NEHTA Snomed – CT nomenclature is incorporated in eHSPD allowing Medical Practitioners the ability to search on standard medical terminology for clinical information such as diseases, findings, procedures, microorganisms, pharmaceuticals etc.

Integrated SMS, Click to Email, Click VOIP, Click to IM & Click to SMS

SMS Inbound search and SMS response integrated with Telstra TIMS can be provided, and functions such as Click to Email, VOIP, SMS and Instant Message to identities in the directory.

Distributed Authoring

A critical success factor is to ensure that information can be updated quickly and accurately with a minimum of bureaucracy. eHSPD update facilities enables the controlled update of information by responsible personnel, and protects data from access by unauthorised people.

Entitlements Management

Depending on the requirement, eHSPD can include "fine-grained" access control for authorising access to information, Consent Management, etc. This complies to the XACMLv3 standard as adopted internationally and as specified by NEHTA.

Integration and automation

eHSPD can synchronise data from existing government, professional association, hospital system and other repositories to produce an up to date view of information. eHSPD uses international standards and so can inter-operate with a range of external Identity Management systems.

Of particular relevance to current eHealth initiatives is the straightforward facility to share and synchronise data across association, region, state and national entities.

Change to Organisational structures, roles etc

IT systems generally are very slow to reflect changes to organisational structures. The result is disruptive performance, and the dissemination of misinformation during the times of change. However because an eHSPD system can reflect real-world hierarchies and structures (such as a Health Department, a hospital or other organisation), implementing such changes (aka "machinery of government" changes) are simple and very quick.

PKI

The eHSPD platform offers PKI support with powerful PKI Matching Rules resulting in a vastly improved level of performance. Furthermore it enables the storage of a practitioner's personal identity information and PKI information on the one platform ensuring greater security and data integrity.

Reporting

A large number of tailored reports can be generated from eHSPD, including dynamic Organisation Charts on demand

Performance

eHSPD runs on the "telco-grade" ViewDS platform with associated reliability, performance and scalability

Technology

eHSPD uses the advanced ViewDS discovery server technology developed in Australia. This technology enables the unique "built-in" functionality of eHSPD.

Cascading Deployment Models

The data replication and synchronisation capabilities of eHSPD make it ideal for "cascading up" from local directories into regional, state, and national views without re-entry or duplication. The "ownership" of data at the local level encourages updates and accuracy – a critical factor in directory integrity.

Low Cost-of-Ownership

The eHSPD uses the "out-of-the-box" features and algorithms of ViewDS and hence drastically reduces the need to code such functions such as the searching, access control, etc.

The result is a system that is lower in cost to implement and deploy, and much lower in cost to operate and maintain, than traditional database technologies.

Further Information

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