

PERSONAL DIGITAL IDENTITY

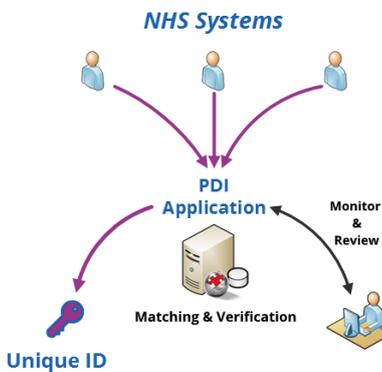
One NHS, One Identity

A new addition to BDS Solutions Directory Manager identity management toolset to provide NHS staff with a single digital identity for life.

Use of disparate systems across the NHS has led to the fragmentation of a users profile.

With users now often having multiple profiles across several security databases, the risk of system misuse is becoming more difficult to manage.

BDS Solutions **Personal Digital Identity** (PDI) module delivers an intelligent matching engine that creates and maintains links between multiple integrated systems, determining whether entries relate to an existing identity or a new identity needs to be created.



The powerful PDI data-matching engine joins records from numerous systems together, automatically linking to PDI records where possible. Where there is potential for a record to link to multiple PDI records, the software generates a partial match for review.

Each potential match is given a score based on the number of elements that match, enabling the appropriate identity to be selected easily.

Each unique identity is given a unique personal digital identity (PDI) key.

The PDI key is randomly generated, comprising of two-alphabetic and four-numeric characters. This key is easily remembered and can be used to identify the user across systems and used as a universal username.

Benefits of PDI:

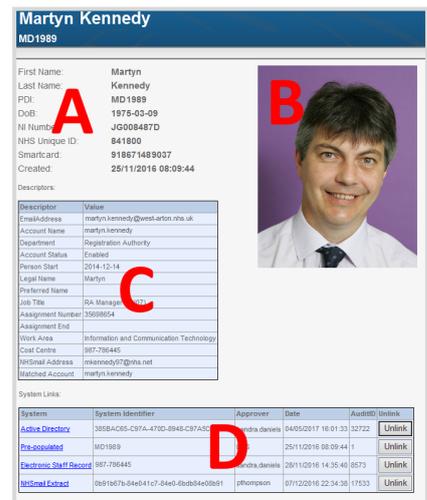
- Quickly relate data from numerous systems
- Link non-Employee records to Directory Manager
- Assemble detailed digital profiles showing key data from linked systems
- Establish an wholly independent directory service
- Improve control over account provisioning
- Propagate changes to multiple systems at once
- Effectively control account life-cycles and guard against system misuse
- Ease future change to help the Trust manage new business challenges

Once in place, the PDI key can then be used as the unique identifier in Directory Manager to link identities with Active Directory. This avoids a relationship with identifiers that are subject to change or sometimes missing.

With the PDI key, you are assured of a unique and immutable identifier for all systems' users regardless of whether they are employees or not.

The resultant PDI digital profile is then visualised along with the full history of system changes relating to that identity.

PDI Profile Summary



Martyn Kennedy
MD1989

First Name: Martyn
Last Name: Kennedy
PDI: MD1989
DoB: 1975-03-09
NI Number: JG008487D
NHS Unique ID: 8411800
Simulcard: 919871489037
Created: 26/11/2016 08:09:44

Descriptor: Value
EmailAddress: martin.kennedy@west-anton.nhs.uk
Account Name: martin.kennedy
Department: Registration Authority
Account Status: Enabled
Person Start: 2014-12-14
Legal Name: Martyn
Preferred Name: Martyn
Job Title: RA Manager
Assignment Number: 1000804
Assignment End:
Work Area: Information and Communication Technology
Cost Centre: 087-706445
NHSmail Address: mkennedy01@nhs.net
Matched Account: martin.kennedy

System	System Identifier	Approver	Date	AuditID	Unlink
Active Directory	365BAC05-C97A-470D-B846-C97A5C	andra.daniels	24/05/2017 16:01:33	32722	Unlink
Pre-qualified	MD1989		25/11/2016 08:09:44	1	Unlink
Electronic Staff Record	087-706445	andra.daniels	26/11/2016 14:35:40	0573	Unlink
NHSmail Extract	0891867b-84e641c7-84e6-8dbd84e0891	phompson	07/12/2016 22:34:30	17533	Unlink

The PDI profile summary above brings together the following information:

- A. Key PDI identifiers unique to that identity
- B. Approved photograph integrated from the verifying authority security system
- C. Dynamic descriptors obtained from the linked systems
- D. Linked systems with hyperlinks to view full system history

For further information or to discuss your specific requirements please call 01884 33440 or email sales@bds-solutions.co.uk.

"PDI has quickly and cost effectively addressed a fundamental Identity Management issue"

Martyn McKechnie
Digital Identity Manager
Blackpool Teaching Hospitals NHS Foundation Trust

CASE STUDY



Blackpool Teaching Hospitals 
NHS Foundation Trust

Addressing the issue of multiple user profiles across numerous systems by introducing a single digital NHS identity for life.

The Trust:

Blackpool Teaching Hospitals NHS Foundation Trust operates within a catchment area spanning Lancashire and South Cumbria, supporting a population of 1.6 million.

The Trust provides specialist tertiary care for Cardiac and Haematology services across the region as well as acute services for a local population of 330,000 and an estimated 11 million annual visitors.

The Trust delivers community health services to the 440,000 residents of Blackpool, Fylde, Wyre and North Lancashire and hosts the National Artificial Eye Service that provides services across England.

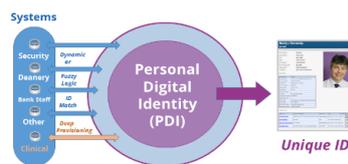
The Issue:

Martyn Mckecknie, Digital Identity Manager for Blackpool Teaching Hospitals NHS Foundation Trust identified that *“with NHS users now being expected to access dozens of systems and good database design principles encouraging us to use single random and persistent identifiers it makes perfect sense that we should look to bond these systems together, like a big relational database, linked via a common primary key.”*

The Solution:

BDS Solutions **Personal Digital Identity (PDI)** module quickly delivers an intelligent matching engine that creates and maintains links between multiple integrated systems determining whether entries relate to an existing identity or whether a new identity needs to be created.

The powerful PDI data-matching engine joins records from all linked systems together automatically linking to PDI records where possible.



Integrated alongside BDS Solutions Directory Manager software, previously implemented to enhance the Trust’s control and maintenance of its user account lifecycle, PDI provides the enhanced functionality:

- holding a unique record for every person accessing any Trust system.
- introducing a persistent and unique identifier from which to ‘hang’ all system identities.
- ensuring user accounts are re-used by the same individual; avoiding the creation of duplicate accounts.

Realised benefits of PDI:

Martyn has confirmed that *“since the introduction of PDI our system administrators can easily, and at any point, identify all of the systems that a user had/has access to, as well as the specific digital identity within each particular system.”*

This has already introduced efficiency and security improvements including:

- Speed of relating data from numerous systems
- Assembly of detailed digital profiles showing key data from linked systems
- Establishment of a wholly independent directory service
- Improved control over account provisioning
- Immediate propagation of changes across multiple systems
- Effective control of account life-cycles and improved security against system misuse
- Ease of future change to help the Trust manage new business challenges

Interested in introducing PDI into your Trust - why not contact BDS Solutions?