Locale Update

BRUCE RIGBY, ANTHONY YAREMENKO - NSIP
3.5 million school students
9500 schools
2/3 public schools
1/3 Catholic or independent
We enable education authorities and ICT product suppliers to develop an ecosystem of trusted IT systems that engage learners and provide educators, parents and policy makers with the information and tools they need to support improved outcomes for all Australian students.

MISSION

OBJECTIVES

Delivering an effective digital learning ecosystem
- Choice and innovation
- Access and integrity

Providing evidence that leads to success
- Successful learner
- Effective teacher
- Evidence base

Enabling privacy and trust
- Personal
- Organisational
## A4L-AU Progress

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<td><strong>Lightweight SIF Event model</strong></td>
<td>Targeted for next Infrastructure release. (3.4?)</td>
<td>Global – in Infrastructure.</td>
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LSA
How it works

Data Hubs established by school authorities

Nationally aligned school business processes

Information flows to and from the Data Hub using common agreed format and meanings.

Data is available to support further services such as mobile apps, analytics and parent engagement.

Schools use the local systems that best meet local needs

Consolidated view of learner and learning

progress
wellbeing
learning
admin
The Learning Services Architecture 2018 Roadmap

Interoperability

All models of learning improvement need a foundation of accurate, comparable and consistent data.

The LSA is a nationally aligned set of IT practices designed to ensure that critical information about students is available when and where required.

Schools benefit strategically from the creation of portfolios of student information that accompany the learner throughout their education.

Schools benefit tactically from choice of solutions in the marketplace, knowing that critical student data can be shared accurately and securely between systems and organisations.

Better Data for Better Outcomes

Information Contracts

Enrolment

- Enrolment data about a student is shared across the local systems that best meet their needs.

Wellbeing

- Wellbeing data about students is shared across the local systems that best meet their needs.

Attendance

- Attendance data about students is shared across the local systems that best meet their needs.

Assessment

- Assessment data about students is shared across the local systems that best meet their needs.

Learning Resources

- Data from and about third-party learning tools that students and teachers use.

Data Hub established for all school systems

Nationally agreed information contracts for school business processes

Information flows in and from a Data Hub using common agreed format and meanings

Data from all sources becomes, at school, part of a Student Data Enrichment

Same common interfaces can be used between systems in schools

Data is available via the Hub to support further services like student profiles, student apps, analytics and student engagement

Contact us: www.nsip.edu.au

The Learning Services Architecture is supported by all States and Territories and roll-out is underway.

Indicative timelines as at June 2018. Roadmap is updated by NIE if timelines change. Visit www.nsip.edu.au for updates

NSW

- E At T

- At

- W

- F

- N

NT

- E At

- As

- F

- W

- N

QLD

- E At

- W

- T

- F

- LR

- As

SA

- N

- E At

- T

- F

- As

- W

TAS

- (Final Order of Service Delivery To Be Determined)

VIC

- N

- E

- At

- W

- T

- F

- N

WA

- W

- E

- A

- N

NON-GOVERNMENT SCHOOLS

- SEND

- Compliance

- Certificate

- Data Hub

- Published

- NAPLAN

- Foundation

- Transition

- Operation

- Elaboration

Sources: E Privacy: Under the LSA data is exchanged between schools, school authorities and service providers in accordance with respective privacy, security and data sharing guidelines. Hub = the centre or source of shared data.

Data Hub in place

- Managing information contract exchanges in response to user and system needs.

- Core legacy systems are migrated to standards compliant replacements.

- E Learning services architecture and data feeds are aligned to standards.

- Data Hub provides and manages information contract based exchanges, unified interface for all and party integration.

- Some jurisdictions are able to move directly to Operation.

- With Data Hub in place an ongoing process of implementing more information contract exchanges in response to user and system needs.
Achievements

• School level choice, enterprise strength information and risk management

• Effective Market engagement:
  • standards development
  • requirements and expectations
  • transparency and consistency
  • mid to long term plans – local/national
  • Implementation tools, services and support

• Integration of national assessment platform
• National compliance reporting
• National approach to managing privacy, security
National Assessments Online

Transition from State based delivery to use of a shared central platform

Local administration using a tenanted online environment

Standards based data definitions and data cycle
- Transparency
- mobilise large complex data set
- integrate with divergent local systems
- Support tools (NIAS2) and value add services
National Priorities

Deliver at least one year’s growth in learning for every student every year

Equip every student to be a creative, connected and engaged learner in a rapidly changing world

Cultivate an adaptive, innovative and continuously improving education system
Learning Services Architecture 1
Administration, Wellbeing, Assessment, SIF

Learning Services Architecture 2.0
Experience, Progress, Mobility, Trust
Additional standards
Privacy on the wire
Multi-model data infrastructure

Learning Ecosystem
Learning, Assessment, Analytics, Agency Systems, Market Offerings, Software on-boarding, Market Place
Delivering Trust

- Data travels – shared responsibility
- Student data entitlement
- Standards and data hubs
- Tenanted architecture
- Standardised contracting
- Software assessment service
- Privacy on the wire
- Proactive communication
National
Software
Assessment
Service

Gov. Department or Sector Authority

School

School

School

Vendor

Vendor

Vendor

National catalogue of assessed products and services

Assessment requests

Vetted Request

Responses to assessment questionnaire
Evidence gathering

Perform assessment
Work with vendors
Write-up assessment results
Regular review

Security
Privacy
Interop

Local Risk Team

Local particulars eg network/ integration

Update catalogue with assessment results

Regular review of products (feature changes, incident, risk profile)

Regular review of assessment criteria (security, privacy) and evidence required

Search of catalogue

National assessment service

Responses to assessment questionnaire
Evidence gathering
Missing piece of the puzzle

- Learning linked to curriculum and measurement frameworks
- Capture learning experience
- 360° view from diverse sources
- Evidence and insights
- Reduced teacher workload
- Transferrable data and skills
- Privacy – baked in
Multi-model Education Data Infrastructure NIAS3

Distributed and Scalable
- From individual machine to intra-system network
- Available as sidecar component or system

Standards Agnostic
- Receives all structured formats json & xml; SIF, EdFi, Caliper, xAPI, xml, json.
- Learns new datasets from data submitted.

Trust
- End to end encryption
- Granular privacy controls

Data
- Generates access objects
- Focus on business queries
- Mix data-sets from inputs
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