



# Data Architect

*Data Architects are responsible for the end-to-end design of an organisation's data infrastructure and data assets.*

## At a glance



Data Strategy



Project Management



Metadata Management



Data Integration



Database Design



Problem Solving



Data sharing, ethics, security, and privacy



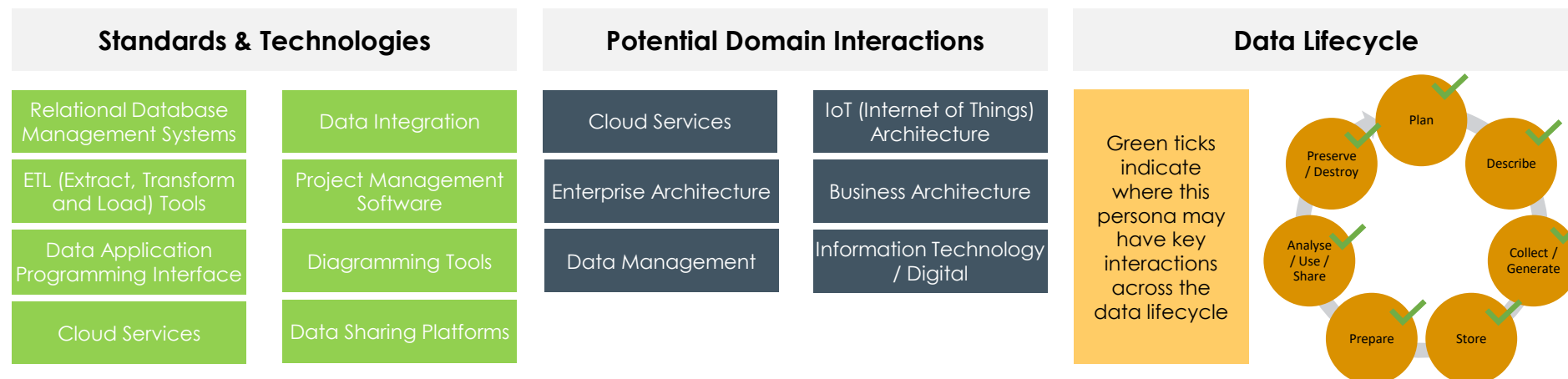
Data Pipeline

Data Architects consider the entire data lifecycle and play a pivotal role in ensuring that data is effectively collected, stored, processed, integrated, protected, and made available for analysis and decision-making.

Data Architects work at a strategic level, undertaking data design and planning to establish a sustainable and efficient data architecture that supports the organisation's growth and evolving data needs. They bridge the gap between business needs and technical implementation by understanding the organisation's data needs, defining data priorities, and establishing a roadmap for data initiatives.

Data Architects communicate with technical and non-technical stakeholders across business to support initiatives and indicate the most efficient and effective way to meet business data objectives.

They create and maintain safe, robust, and scalable data systems that define the structure and relationships within the data. They follow relevant data governance, ethics and security frameworks and contribute to ensure data is managed as a strategic asset rather than as a by-product of business operations.



# Data Architect

## Level 1 | Foundation

Assist in the implementation, design, and ongoing management of data architecture and roadmaps for standard or discrete data initiatives.

Assist with the design and implementation of data security policies, procedures, and technologies to ensure data use complies with applicable regulations and standards.

Design standard reports to support data extraction and transformation for reporting purposes.

Undertake research and analysis to support business operation activities, including the procurement of data architecture solutions.

Contribute to the design and implementation of data architecture and integration frameworks that enable best practice data lifecycle management and recognise relevant standards, policies, and regulations.

Contribute to the design of processes and procedures to ensure compliance with relevant governance policies, standards, and regulations.

Assist with data management tasks such as data asset management, data documentation, and database maintenance.

## Level 2 | Intermediate

Support the development, design, implementation, and ongoing management of data architecture and roadmaps for data initiatives within an organisation.

Design and provide advice on implementing data security policies, procedures, and technologies to ensure data use complies with applicable regulations and standards.

Develop complex reports, optimising reporting processes, and ensuring data reporting meets relevant accuracy and quality standards.

Provide technical advice to inform business operation activities, including the procurement of data architecture solutions and capabilities.

Design and implement data architecture and integration frameworks that enable best practice data lifecycle management and ensure compliance with relevant standards, policies, and regulations.

Design and implement processes and procedures to ensure compliance with relevant data governance policies, standards, and regulations.

Manage complex data management tasks, including data profiling, data cleansing, assessing, and maintaining data quality, data sharing, and data integration.

## Level 3 | Advanced

Lead the development, design, integration, and ongoing management of data strategies, architecture, and roadmaps for complex data initiatives within an organisation or across the APS.

Lead the development and design of complex data security policies, procedures, and technologies to ensure data use complies with applicable regulations and standards.

Lead the design and implementation of complex reporting to drive strategic insights for the organisation and ensure compliance with standards, policies and regulations.

Provide expert technical advice to inform business operation activities, including the procurement of data architecture solutions, technology, and capabilities.

Lead the design and implementation of complex data architecture and integration frameworks that enable best practice data lifecycle management and ensure compliance with relevant standards, policies, and regulations.

Design and oversee complex processes and procedures to ensure data compliance with relevant data governance policies, standards, and regulations, establishing data ownership and access controls.

Lead comprehensive data management efforts, contributing to data governance frameworks and data management strategies, and implementing advanced measures to safeguard data assets.

APS DCF			SFIA		
1 VAL	1 BUS	1 MGT	4 DATM	3 DBAD	3 SCTY
1 COM	1 ACC	1 INT	4 ARCH	4 SCMO	4 FMIT
1 CLS	1 MET	1 GOV	4 MEAS	5 ITSP	5 GOVN
1 SCM	1 OUT	1 SRC	4 IRMG	3 STMG	3 VISL
1 QUL	1 MTH	1 IMP	3 BURM	3 DBDS	3 INAS
1 SPC	1 PRC				

APS DCF			SFIA		
2 VAL	2 BUS	2 MGT	5 DATM	4 DBAD	4 SCTY
2 COM	2 ACC	2 INT	5 ARCH	5 SCMO	5 FMIT
2 CLS	2 MET	2 GOV	5 MEAS	6 ITSP	6 GOVN
2 SCM	2 OUT	2 SRC	5 IRMG	4 STMG	4 VISL
2 QUL	2 MTH	2 IMP	4 BURM	4 DBDS	4 INAS
2 SPC	2 PRC		5 INOV	5 STPL	6 ISCO
			5 ITMG	5 OFCL	

APS DCF			SFIA		
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3 COM	3 ACC	3 INT	6 ARCH	6 SCMO	6 FMIT
3 CLS	3 MET	3 GOV	6 MEAS	6 ITSP	7 GOVN
3 SCM	3 OUT	3 SRC	6 IRMG	4 STMG	5 VISL
3 QUL	3 MTH	3 IMP	5 BURM	5 DBDS	5 INAS
3 SPC	3 PRC		6 INOV	6 STPL	7 ISCO
			6 ITMG	6 OFCL	

Select the boxes for more information.

APS DCF = Australian Public Service Data Capability Framework SFIA = Skills Framework for the Information Age