

Role Profile

Role Title	Data Architect
Role (Job) ID	XXX
Directorate	NPA
Reports to	Head of Data & Analytics
Role type	<input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Fixed Term <input type="checkbox"/> Secondment <input type="checkbox"/> Contract
Line Manager responsibilities (Yes/No)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Level	N/A
Location	2 Thomas More Street, London. Potential travel.
Organisational Context	<p>Pay.UK maintains and develops the UK retail payment systems and standards that are core to the economy being able to function on a day-to-day basis.</p> <p>From Bacs to Faster Payments and cheques – we act as the single operator for all UK retail payments. We put the needs of consumers and businesses at the heart of everything we do, working in the public interest to ensure that the systems the country relies on for its banking transactions are safe, open, innovative and resilient.</p> <p>Our payment systems underpin the services that enable funds to be transferred between people and institutions. In 2018, the UK’s retail payment systems processed 8.8 billion transactions worth £7 trillion through Bacs Direct Credit, Direct Debit, Faster Payments, and cheques.</p> <p>Every day, individuals and businesses use the services we provide to get their salaries, pay their bills and make online and mobile banking payments. Our vision for the future is to enable a vibrant economy, with Pay.UK delivering the best-in-class payment infrastructure and standards for the benefit of consumers and businesses nationwide.</p>

This document is intended to describe Pay.UK’s current thinking as to its subject matter. Please note in particular that the information contained in it is subject to change as new information comes to light and ideas are developed – without limitation, this may involve new or amended principles or the addition of detail; consistent with the above, it is issued for discussion purposes only and does not reflect any firm or final decision; to the extent that any decision is taken in relation to the subject-matter of this document, it will be communicated in accordance with Pay.UK’s policies and regulatory requirements but note that by subsequent decision, it may be amended; it does not give rise to any legal rights or obligations.

	<p><u>Directorate:</u></p> <p>Support the development of end-to-end service propositions that can be delivered by the market and considers all stakeholder needs.</p> <p>Foster innovative development through the provision of collaboration environments. Manage the ecosystem innovation strategy and policies to foster a community who collaborate and drive innovative ideas and solutions for the payment ecosystem. Manage the development of strategic insight and research to support the payment ecosystem end to end.</p> <p>Own, monitor and actively manage the end to end payments ecosystem and drive the strategic objectives of the market while considering requirements and impacts across all stakeholders in the end-to-end value chain.</p> <p>Design and manage Pay.UK enterprise architecture for each component owned and/or actively managed by Pay.UK including its integration with the NPA. Manage design changes across Pay.UK.</p> <p>Manage the technical and business rules and standards that govern the NPA and the services that are delivered within the ecosystem. Co-ordinate and govern rules and standards changes ensuring stakeholder engagement and consensus in a transparent manner.</p>
<p>Summary of Role</p>	<p>The Data Architect:</p> <ul style="list-style-type: none"> • Lead, contribute and support the Data Architecture discipline within the New Payments Architecture (NPA) Data work stream for Pay.UK. This will involve demonstrating architecture and analysis experience. The DA will work hand in hand with the architecture function within the delivery workstream of the programme. • Create the conceptual and logical data models that will underpin the NPA's clearing and settlement system and take these through required governance. As well as these near term responsibilities, the data architect will drive all architectural focus throughout the lifecycle of the programme. • Develop the design options for the analytics platform that underpins the data propositions. • In conjunction with the business data analyst, will develop the strategy for reference data management, data migration, data

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	<p>lineage and data integration and take these through the governance process.</p> <ul style="list-style-type: none"> • The architect will work collaboratively with other teams, especially the architects within the delivery team to review design artefacts produced by other programme workstreams with a data lens. • Supported by the project manager and data analyst, the data architect will be the contact point for engagement with other project workstreams and will manage inbound and outbound dependencies. • External stakeholder presentations will also be required to validate artefacts with the respective fora 				
Internal & External Interactions	<ul style="list-style-type: none"> • Pay.UK governance bodies • Pay.UK NPA programme governance bodies • External and external senior stakeholders • Payments and financial services industry project and working groups • Programme and Project Managers across Pay.UK’s portfolio and directorates 				
Commitment and time period	<table border="1" data-bbox="464 958 1414 1014"> <tr> <td data-bbox="464 958 703 1014"><input checked="" type="checkbox"/> Full time</td> <td data-bbox="703 958 943 1014"><input type="checkbox"/> Part time</td> <td data-bbox="943 958 1054 1014">100</td> <td data-bbox="1054 958 1414 1014">FTE (%)</td> </tr> </table> <p data-bbox="464 1014 1414 1115">Time period: -</p>	<input checked="" type="checkbox"/> Full time	<input type="checkbox"/> Part time	100	FTE (%)
<input checked="" type="checkbox"/> Full time	<input type="checkbox"/> Part time	100	FTE (%)		
Accountabilities	<p data-bbox="464 1126 1414 1182"><u>Principal Accountabilities:</u></p> <p data-bbox="464 1182 1414 1238">Actively support and contribute to the Data Work stream through:</p> <ul style="list-style-type: none"> • Involvement in the Future State and Current State data architecture evolution and providing guidance on the NPA • Develop / maintain relevant architecture artefacts, principles, standards guidelines and procedures specifically around: <ul style="list-style-type: none"> ○ Conceptual and Logical data models ○ Reference data model ○ Data propositions ○ Data migration strategy ○ Data lineage strategy ○ Data integration strategy ○ Reference data management strategy ○ Data analytics platform design 				

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	<ul style="list-style-type: none">• Fostering understanding between the various stakeholders involved in the review and approval of key data deliverables mentioned above.• Undertaking any other duties as requested. All activities will be overseen by the Head of Data & Analytics and the Head of Enterprise Architecture/ NPA Security & Design Lead <p><u>Additional Duties</u></p> <ul style="list-style-type: none">• Undertake research and development and understanding industry issues• Taking data artefacts through the appropriate governance process• Leading internal and external stakeholder engagement sessions to gain buy-in into data strategies and data models• Communicating issues and findings• Participate at relevant national and international forums <p><u>Other Obligations</u></p> <p>Data Protection</p> <ul style="list-style-type: none">• Ensures that policies and procedures are followed.• Complies and / or ensures compliance with Pay.UK Data Protection policy, processes and all relevant legislation. This includes maintaining team specific retention schedules, records of data processing and ensuring that any data protection risks are identified, communicated and mitigating actions put in place.• Maintains effective communication on data protection compliance with the CRO and Head of Data Protection as appropriate.• Identifies section specific data protection risks, and mitigating actions, communicating these to the CRO and Head of Data Protection without delay.• When aware, communicate, in confidence, to the CRO and / Head of Data Protection, data protection risks likely to impact the
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	organisation as a whole.
Knowledge and Experience	<ul style="list-style-type: none"> • Experience in a professional setting, with experience in a financial services environment and/or payments environment preferred. • Data modelling/logical ERD – Relational, 3NF, and Dimensional, Star and Snowflake modelling, normalisation, resolution of M:M relationships, foreign keys, dimensions & fact tables, Kimble • Knowledge of canonical models, physical data modelling – index design etc. • Master Data Management key principles and defining an MDM strategy. Experience/knowledge of MDM tooling, e.g. Informatica • Experience in the design of the data platform design (including Cloud technologies) that will cater for delivery of the data propositions as well as future capabilities using data science techniques such as artificial intelligence, machine learning, etc. • Knowledge of UK payment systems (e.g. Bacs, CHAPS, FPS, SWIFT) a plus • Exposure to cube technologies, e.g. MSAS • Experience of best practices for ETL or ELT • Experience of data lineage and data integration projects • Business and technical requirements analysis • Market trends and best practices used in other markets to operate payment services • Experience of participating in large-scale projects a plus • Experience in external engagement, including working with senior stakeholders, regulators and industry participant teams a plus • Experience of working in a matrix management style.
Specific Skills	<ul style="list-style-type: none"> • Proven analytical and problem solving skills • Excellent writing skills • Exposure / experience in financial services (Payments experience a plus) • Knowledge of the BABOK and/or TOGAF, Zachman Business

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	<p>Architecture frameworks</p> <ul style="list-style-type: none"> • Comfortable with creating business process models in BPMN2 • ISO 20022 expertise and other message formats and technology a plus • Ability to communicate clearly, succinctly and effectively • Flexible and confident at multitasking • Sufficient experience within a multi stakeholder environment • Good interpersonal skills and a team player • Required to work independently and with internal colleagues and external contacts
Qualifications and Training	<ul style="list-style-type: none"> • Educated to a degree level or equivalent • Professional qualification preferred, with strong understanding of the financial services and the payments industry
Competencies	<ul style="list-style-type: none"> • In alignment with Pay.UK competency framework.

Confirmation

I confirm my understanding and my agreement to the above job description.

Signed: _____

Date: _____



Version Control

Document Owner	NPA Directorate
Version number	0.1

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Governance	Draft:	Review:	Approve:	Approval Date:
Review Frequency			Next review date:	
Document reference				

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