

Oracle Forms to APEX Modernisation Service G-Cloud 15





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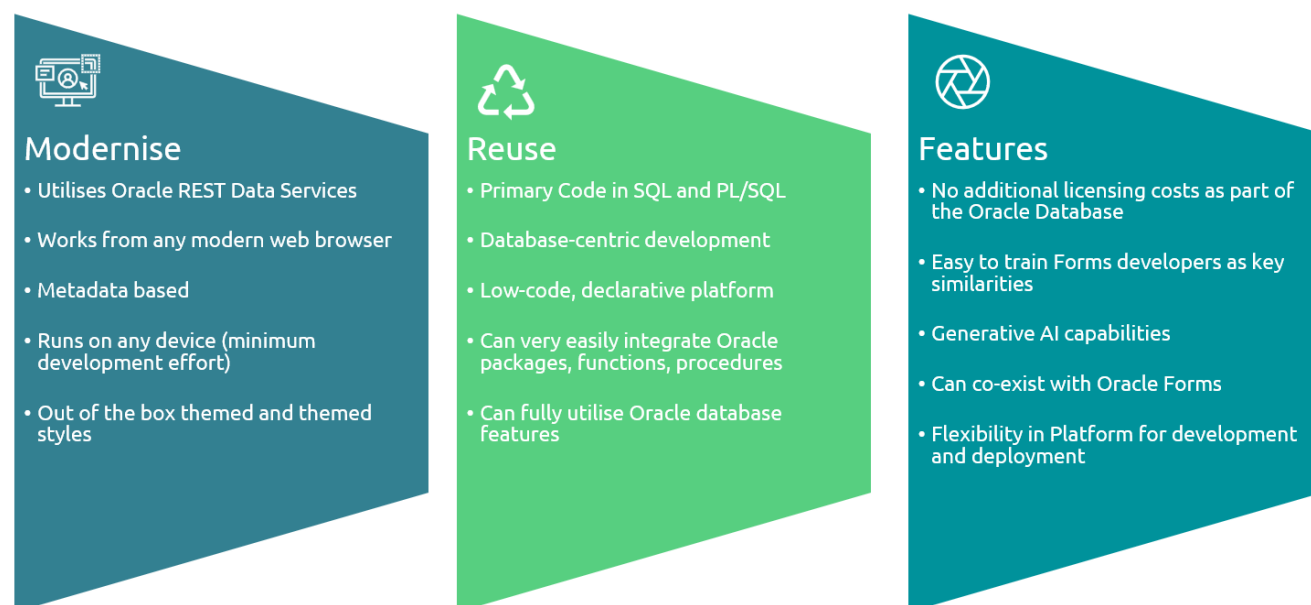
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1 Service Overview

Capgemini provides a service for migrating Oracle Forms to APEX, enabling businesses to enhance their digital capabilities. Oracle Forms has served as a reliable tool for building business applications, but it has its limitations in terms of legacy technology, desktop dependency, modernisation challenges, integration capabilities, maintenance & support, and scalability, which makes it less suitable for organisations looking to modernise their applications and application development practices.

Key Features of Oracle APEX



Oracle APEX is part of the Oracle Database product which is available in Oracle Cloud as PaaS. It is a low-code development platform that enables software engineers to rapidly design, develop, and deploy data-centric web applications.

Oracle APEX is a compelling solution for modernising Oracle Forms because it can reuse existing database procedures, functions and other objects which supported the Forms functionality, expediting the migration process. Oracle APEX is a no-cost part of the core Oracle Database Product, so is included free with any existing or new Oracle Database. Being ingrained into the infrastructure of Oracle Databases, APEX not only streamlines the modernisation journey but also ensures compatibility and scalability, affirming its status as the premier tool for transitioning from Oracle Forms to contemporary applications.

The Capgemini service for migrating Oracle Forms to APEX can be implemented to provide for any or all the following scenarios, depending on the customer's business drivers, strategy and objectives:

- 1. Enhanced User Experience and Engagement:** Transitioning from Oracle Forms to Oracle APEX can improve the user experience by offering a modern and intuitive web-based interface. This enhancement aligns with business objectives of mobility, user engagement and satisfaction, leading to improved productivity and customer satisfaction. Additionally, leveraging Oracle Cloud Infrastructure (OCI) enhances the user experience by providing scalable and reliable hosting solutions, ensuring optimal performance and availability for APEX applications.
- 2. Agility and Time-to-Market:** Oracle APEX facilitates rapid application development through its low-code environment, allowing the business to respond quickly to changing market demands and opportunities. This agility aligns with the business strategy of staying competitive by delivering new features and applications to market faster. OCI's scalable infrastructure and automated deployment tools can further accelerate the development lifecycle, reducing time-to-market for APEX applications.



3. **Cost Reduction and Efficiency:** Migrating from Oracle Forms to Oracle APEX can lead to cost savings by reducing development and maintenance efforts. With a streamlined development process and simplified maintenance requirements, the business can allocate resources more efficiently, aligning with the objective of cost reduction and operational efficiency. Leveraging OCI's pricing models and managed services can further optimise costs, ensuring efficient resource utilisation and cost-effective infrastructure management for APEX applications.
4. **Scalability and Flexibility:** Oracle APEX applications are inherently scalable, allowing them to grow alongside the business's needs. This scalability aligns with the business objective of accommodating growth and expanding operations without compromising performance or user experience. OCI's elastic and scalable infrastructure can further enhance scalability, ensuring APEX applications can handle increased workloads and user demands seamlessly, while also providing flexibility to adapt to changing business requirements.
5. **Integration and Interoperability:** Oracle APEX offers robust integration capabilities, enabling seamless integration with other systems and technologies within the business's ecosystem. This integration aligns with the business strategy of optimising processes and improving data flow across various departments and systems. Further, OCI's extensive set of integration services, such as Oracle Integration Cloud, can further streamline integration efforts, ensuring smooth data exchange and interoperability between APEX applications and other business systems.
6. **Security and Compliance:** Oracle APEX includes built-in security features to protect against common web vulnerabilities, helping the business maintain compliance with industry regulations and standards. This enhanced security aligns with the business objective of safeguarding sensitive data and mitigating risks associated with cyber threats. Leveraging OCI's comprehensive security offerings, including advanced threat detection and encryption services, can further enhance security posture, ensuring APEX applications are protected against evolving security threats and compliance requirements are met effectively.
7. **Modernisation and Futureproofing:** Migrating from Oracle Forms to Oracle APEX represents a modernisation initiative that positions the business for future growth and innovation. By adopting a contemporary development platform, the business can ensure its applications remain relevant and supported in the long term, aligning with the objective of future-proofing its technology infrastructure. OCI's cutting-edge technologies and continuous innovation can further future-proof APEX applications, ensuring they can leverage the latest advancements in cloud computing and stay ahead of evolving business needs and industry trends.

Once deployed, Capgemini offers an Application Managed Service for Oracle APEX for businesses' ongoing support and maintenance for their APEX applications, ensuring their optimal performance, security, and functionality.

Capgemini's Oracle APEX Management Service (AM) offers comprehensive management and including Oracle Cloud Services. The service can encompass the full-stack management, covering Oracle Autonomous Database, Middleware and hosted IaaS cloud platforms. Additionally, we can provide management for Oracle managed PaaS applications and integrations with Oracle APEX. Application Managed Service for Oracle APEX will empower businesses to maximise the value of their APEX investments by ensuring the reliability, performance, and security of their applications while allowing them to focus on driving business growth and innovation.

Migrating from Oracle Forms to Oracle APEX can provide numerous advantages that support the business's drivers, strategy, and objectives, including enhanced user experience, agility, cost reduction, scalability, integration, security, and modernisation, further amplified by leveraging the capabilities of Oracle Cloud Infrastructure (OCI) to innovate through AI and Analytics. With the addition of management services to ensure you get the most within OCI.

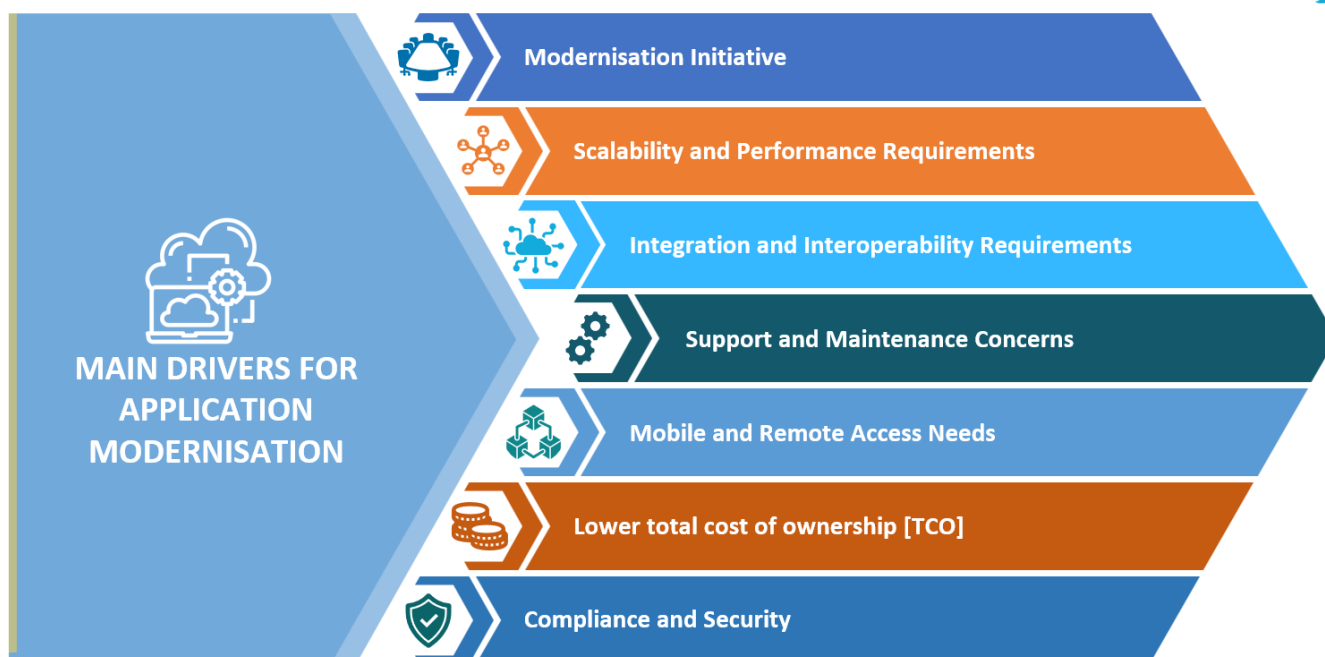
2 Business Need

Businesses often maintain a blend of on-premises commercial enterprise applications alongside legacy systems, supplemented by an increasing array of cloud-based solutions. This diversified landscape reflects a strategic shift towards modern applications, driven by the desire for enhanced business agility, operational efficiency gains,



innovation with AI and streamlined cost management practices. Consequently, many organisations seek to transition away from the upkeep and management of outdated applications and infrastructure, recognising the limitations of maintaining aging systems to support critical business operations. Presented below are key motivators prompting businesses to undertake the modernisation of their enterprise applications.

MODERNISATION DRIVERS



1. **Modernisation Initiative:** If the business is undergoing a digital transformation or modernisation initiative, migrating from Oracle Forms to Oracle APEX can be a strategic move. APEX offers a more modern, web-based development platform compared to the client-server architecture of Oracle Forms. APEX on OCI enables access to Oracle OCI AI services (GenAI and Agentic AI) and other PaaS services, keeping businesses in the forefront of innovation.
2. **Scalability and Performance Requirements:** If the business is experiencing scalability or performance limitations with Oracle Forms applications, such as difficulty handling increasing user loads or data volumes, migrating to Oracle APEX can address these challenges. APEX applications are inherently scalable and can efficiently handle growing workloads, ensuring applications remain responsive and performant as demand grows. Deploying APEX applications on OCI further increases this scalability and performance by leveraging the world most powerful platform for Oracle technology.
3. **Integration and Interoperability Requirements:** If the business needs to integrate applications with other systems or technologies, Oracle APEX provides robust integration capabilities. APEX integrates with other Oracle Cloud services, as well as third-party APIs and web services, making it easier to share data and streamline workflows across your organisation. OCI is an evolving infrastructure enabling APEX to utilise connectivity to a growing suite of platform services.
4. **Support and Maintenance Concerns:** If the business is experiencing challenges with support and maintenance for Oracle Forms applications, such as difficulty finding skilled developers or encountering compatibility issues with newer technologies, migrating to Oracle APEX can help alleviate these concerns. APEX is a supported platform with a vibrant community and ongoing updates from Oracle, reducing the risk of obsolescence and ensuring long-term support for your applications.
5. **Mobile and Remote Access Needs:** If your business requires mobile or remote access to applications, Oracle APEX offers advantages over Oracle Forms. APEX applications are web-based and responsive, meaning they can be accessed from any device with a web browser, including smartphones and tablets. Migrating to APEX



can enable your employees to access critical business applications from anywhere, improving flexibility and productivity.

6. **Lower total cost of ownership [TCO]:** OCI helps reduce the total cost of ownership by optimising resource utilisation, minimising maintenance efforts, eliminating legacy dependencies and charging by consumption.
7. **Compliance and Security Considerations:** If your business operates in a regulated industry or has strict security requirements, migrating to Oracle APEX can help improve compliance and security. APEX includes built-in security features to protect against common web vulnerabilities, such as SQL injection and cross-site scripting, reducing the risk of data breaches and ensuring compliance with industry regulations and standards.
 - Capgemini offers Oracle APEX Management services to support you after the migration. Enhancing business value by optimising application management efficiency and reducing costs. Characterised by high industrialisation, backed by robust SLAs and industry-standard best practices. Capgemini employs a cost-effective blend of resources to deliver these services. Capgemini's application management for Oracle APEX can significantly enhance a business in several ways:
 - Improved Efficiency: Capgemini specialises in delivering efficient application management services, leveraging industry-standard proven practices and automation tools. By outsourcing, the businesses can streamline their APEX management processes, reduce manual efforts and enhance overall operational efficiency.
 - Reduction of Costs: Outsourcing to Capgemini offers cost-effective solutions for APEX management. Capgemini leverages a mix of resources, including skilled professionals, automation tools, and standardised processes, to deliver services at a lower cost compared to maintaining an in-house team.
 - Industrialised Services with SLAs: Capgemini's services are highly industrialised, meaning they are standardised, scalable, and optimised for efficiency. These services are underpinned by robust Service Level Agreements (SLAs), ensuring that performance targets and quality standards are consistently met or exceeded. This provides businesses with peace of mind knowing that their APEX applications are being managed effectively and reliably by a trusted partner.
 - Commitment to Continuous Improvement: Beyond simply "keeping the lights on," Capgemini's Application Management services represent a commitment to continuous improvement and value generation. Capgemini actively seek opportunities to enhance processes, optimise resources, and drive innovation through AI delivered in APEX. By partnering with Capgemini, businesses can benefit from ongoing improvements that result in increased efficiency, reduced costs, and enhanced value for their business.

Overall, migrating from Oracle Forms to Oracle APEX can address a variety of business needs and challenges, including modernisation, support and maintenance concerns, scalability and performance requirements, mobile and remote access needs, integration and interoperability requirements, and compliance and security considerations. With the additional option of outsourcing application management for Oracle APEX to Capgemini enables businesses to improve efficiency, reduce costs, and drive continuous improvement in APEX management processes. By leveraging standardised practices, automation tools, and skilled resources, businesses can achieve greater operational excellence and focus on generating value for their business.

3 Our Approach

Capgemini's approach for transitioning legacy applications to Oracle APEX involves leveraging the advanced functionality of APEX to develop a modernised application. This application aims to address the business's modernisation initiative by fulfilling integration and interoperability requirements, addressing concerns related to support and maintenance, meeting scalability and performance demands, catering to mobile and remote access needs, and ensuring compliance with security standards.

Our service can include any or all the following elements, depending on the client's aspirations and their current level of cloud integration maturity:



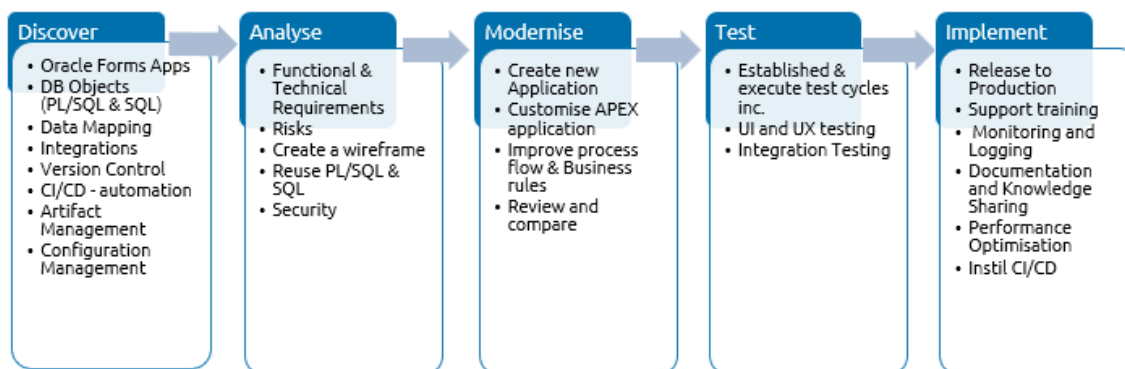
- Establishment of an Application Modernisation Competency Centre (aka Centre of Excellence), extending in-house skills and knowledge to include Oracle APEX
- Creation of an Application Modernisation Roadmap to plan the transition of integrations from legacy to Cloud-based applications
- Delivery an Application Modernisation Reference Architecture, aligned to existing application delivery frameworks, where suitable, to support the roadmap
- Mature and proven Oracle Forms migration to APEX delivery accelerators, including common information models, utility services, and tools, to facilitate rapid delivery
- Design, implementation, and operation of reusable Cloud-hosted business services that can be consumed internally and exposed to business partners
- Maximise delivery acceleration through automation, design pattern reuse, templates, and best practices from the Agile Innovation Platform

Underpinned by Capgemini's Cloud Delivery Method (CCDM), our Accelerated Delivery Framework is key to our success in delivering excellence to our clients.

Oracle Forms Modernisation Implementation Process



Implementation Flow



Detailed implementation roadmap for migrating Oracle Forms applications to Oracle APEX, broken down into key phases based on the provided points:

1. Discovery:

- Incorporate workshops & discovery questionnaire template during the discovery phase.
- Identify Oracle Forms applications, database objects (PL/SQL & SQL), and integrations.
- Plan and execute the mapping of data from the Oracle Forms application to the new APEX application.
- Evaluate any existing cloud infrastructure tenancy target, its integration and inter-network connectivity.
- Evaluate version control systems in use and assess the feasibility of migration.
- Assess the existing CI/CD processes and explore automation possibilities.
- Identify artifacts and configuration management processes.
- User Feedback Loop: Establish a mechanism for collecting feedback from users after the release and incorporate valuable feedback into future updates.

2. Analysis:

- Gather functional and technical requirements for the new APEX application.



- Identify patterns and applications with similar patterns will adopt the same design.
- Identify potential risks associated with the migration process and plan mitigation strategies.
- Create wireframes and mock-ups to visualise the APEX application's user interface and functionalities.
- Evaluate PL/SQL and SQL code for reusability, identifying parts that can be migrated directly.
- Address security concerns by defining access controls, authentication, data encryption mechanisms as well as legal requirements that pertain to the business.
- Address key design principles and agree with stakeholders, applications owners.
- Develop a comprehensive disaster recovery plan that includes backup restoration procedures, failover mechanisms, and data integrity checks.
- Design automated and regular backup procedures for both application data and configurations.
- Generate design and architecture documents, illustrating source and adaptable target architecture, technology stack, with a focus on integrating security into our design ethos.

3. Modernisation:

- Build new infrastructures and components in OCI using the BoM list agreed upon in the design and architecture. Align with Oracle's Cloud Adoption Framework, utilising automated build, migration, and provisioning tools, Infrastructure as Code (IaC), and accelerators.
- Create a new APEX application based on the analysed requirements and wireframes.
- Customise the APEX application to match the specific needs of the business, incorporating existing business rules.
- Improve process flow and business rules based on modern best practices and user experience (UX) design principles.
- Review and compare the APEX application with the original Oracle Forms application to ensure feature parity.

4. Testing:

- Establish a test management process, coordinating stakeholders, users, and application owners for test cycles, including system integration testing, performance testing, and user acceptance testing.
- Conduct integration testing to validate interactions between different components and systems.
- Perform integrity testing including security testing, performance testing, accessibility testing, and regression testing.
- Perform UI and UX testing to ensure a seamless and intuitive user experience.

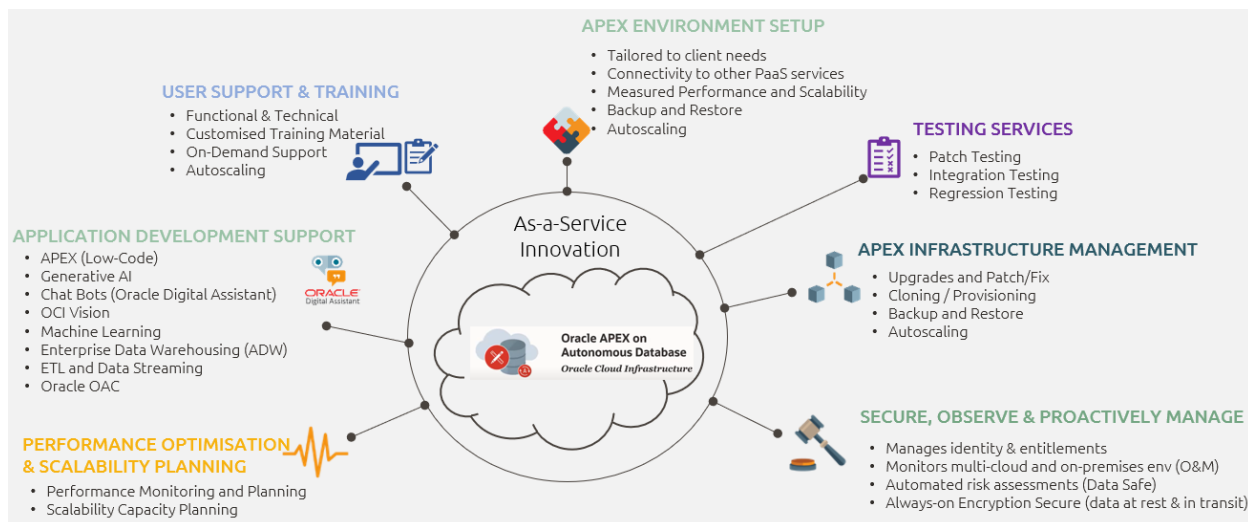
5. Release to Production:

- Perform the final release to production, following a well-defined deployment plan.
- Deploy the comprehensive disaster recovery plan that includes backup restoration procedures, failover mechanisms, and data integrity checks.
- Implement automated and regular backup procedures for both application data and configurations.
- CI/CD practices by automating deployment processes and ensuring continuous integration and delivery pipelines are active and effective.
- Conduct support training sessions for end-users and support staff to familiarise them with the new APEX application.
- Capgemini can provide early life support for post-migration if requested as part of transitioning the APEX application service to Capgemini Service Management team.



- Implement comprehensive monitoring and logging solutions to track application performance, errors, and usage patterns.
- Continuously monitor the application's scalability and performance, especially during periods of increased usage, and scale resources as needed.
- Document the new APEX application, including user guides, technical documentation, and knowledge base articles.
- Ensure knowledge about the application is shared among team members. Conduct regular knowledge transfer sessions or maintain a centralised knowledge base.
- Optimise application performance based on production usage patterns and user feedback.
- Regularly conduct security audits to identify and address vulnerabilities, ensuring the ongoing security of the APEX application.

For Application Management Service for Oracle APEX involves leveraging the advanced functionality of Oracle Cloud, including OIC and the Autonomous Database. Capgemini provides a service that manages the hosting, infrastructure, security and ongoing support.



Fundamental components for an Oracle APEX Managed Service include:



- **Infrastructure Management:** Handling the underlying infrastructure, such as servers, databases, and networking, ensuring optimal performance and scalability.
- **Security Configuration:** Implementing robust security measures to protect data and applications, including access controls, encryption, and compliance with industry standards.
- **Application Development Support:** Continuous monitoring to identify opportunities for development and innovation including troubleshooting, code reviews, and best practice recommendation as well as leveraging Oracle Cloud services in data visualisation and AI capabilities.
- **Monitoring and Maintenance:** Continuous monitoring of APEX environments for performance, availability, and security issues, along with proactive maintenance to address any potential issues.
- **Backup and Disaster Recovery:** Implementing backup and disaster recovery strategies to safeguard against data loss and ensure business continuity.
- **Patch Management:** Managing the application of patches and updates to the APEX environment, including testing and deployment to minimise downtime and mitigate security risks.
- **User Support and Training:** Offering user support services and training programs to help users leverage APEX effectively and efficiently.
- **Performance Optimisation:** Identifying and addressing performance bottlenecks in APEX applications and environments to enhance overall performance and user experience.
- **Scalability Planning:** Planning for future growth and scalability requirements, including capacity planning and scaling strategies to accommodate increasing demand.

These components collectively form the foundation of an Oracle APEX Managed Service, providing organisations with a reliable and efficient platform for developing, deploying, and managing APEX applications.

4 Buyer Responsibilities

Please refer to the Supplier Terms listed with this service on the Platform. These may contain additional Buyer obligations/costs the Buyer is subject to that are not identified anywhere else in the Supplier's Application or on the Platform.

The Buyer responsibilities as part of this service are as follows:

- Partaking in analysis / requirement workshops and the accurate presentation of existing and future processes. Providing functional and non-functional requirements for the solution.
- Maintain relationships with any relevant third parties.
- Involvement in testing and signoffs for the solution.
- Defining, in collaboration with the Supplier, any Buyer specific configurations and data requirements.
- The control and management of access and responsibilities for end-users.
- Buyer shall perform its obligations which are set out in the clauses of the Agreement and the Paragraphs of the Schedules.
- Buyer shall comply with laws and regulations applicable to its business and be responsible for determining and directing the Supplier with respect to any processes and procedures applicable to its business which Supplier must follow.

Agreeing, in collaboration with Capgemini, appropriate infrastructure solutions for the applications based on Buyer security requirements.

The responsibilities listed above may vary as a result of the requirements of the solution. If these responsibilities do not match your expectations, then please contact us in order that we can explore options to vary our approach.



5 Service Management

This service will be managed by a UK service delivery manager who will be responsible for meeting agreed service performance targets.

6 Protection of Data

This service is based on a security classification of 'Official', however should the Buyer have a requirement for a different security classification, please contact Capgemini to discuss.

7 On-boarding and Off-boarding

Prior to the execution of the Order, the Supplier and the Buyer will agree the scope of the exit plan for the Services and a timescale for delivering an exit plan to ensure continuity of service.

Capgemini shall undertake on-boarding and off-boarding activities agreed within the Order Form and an exit plan in line with the Call-Off Contract terms which will be charged for in accordance with the Pricing section for this service.

8 Skills and Knowledge Transfer

Capgemini recognises that skills and knowledge transfer is a critical element in the provision of G-Cloud services to public sector clients. Where possible and applicable, this forms part of the delivery plan for the service agreed at the start of the engagement. Our consultants and engineers are experienced in providing skills and knowledge transfer for major private and public sector clients.

Where appropriate, we may use a standard approach, tailored to topic, skills-gap and individual, to ensure consistency and effectiveness. The approach, Capgemini's Assess-Plan-Implement framework, has been used repeatedly by our teams to structure the work involved in transferring skills and creating new teams capable of driving and sustaining change long after the end of the formal programme. The framework can be applied throughout a project to understand knowledge transfer objectives, plan training delivery methods and materials, and deliver and evaluate success.

9 Partnerships/Alliances

Capgemini has been an Oracle Partner since 1997 and has held the highest partnership statuses for many years. We participate in the Sell, Service and License & Hardware tracks of the Oracle Partner Network Program. Capgemini's global Oracle SaaS, PaaS and IaaS teams comprise of over 11,500 Oracle professionals and enable Capgemini to service clients across geographies and Oracle solution sets. Capgemini's UK SaaS, PaaS and IaaS teams have been developing and delivering Oracle solutions for over 20 years with deep experience in Public Sector. Capgemini UK Oracle experts collaborate with our colleagues across the world to develop and share best practice in the relentless pursuit of excellence for our customers. Our approach has been recognised globally in the last few years with numerous awards and analyst recognition, including:



- 2023: Oracle EMEA Business Impact Partner of the year for Cloud Technology
- 2022: Real IT Award for Cloud ERP
- 2020: OCI Partner of the Year Award
- 2019: UKOUG Industry Partner of the Year Award – Bronze
- 2019: UKOUG Middleware Partner of the Year Award – Bronze
- 2019: Oracle PaaS Forum; Best PaaS Contribution

Capgemini holds four published OPN Expertise in Western Europe region demonstrating our expertise in delivering Oracle Cloud Infrastructure solutions -

- Oracle Cloud Platform Integration
- Oracle Cloud Platform Business Analytics
- Oracle Cloud Platform Application Development
- Oracle Cloud Platform Security



Our expertise, accelerators and approach will enable your organisation to develop the case for change and, crucially, the roadmap that secures the support, enthusiasm and focus that unlocks business value. It is this approach that wins regular industry recognition for our excellence in delivering ERP programmes, most recently with the **Transformation Team of the Year** accolade in the 2021 ERP Today awards.



IDC has positioned Capgemini as a “Leader” in their IDC MarketScape: Worldwide Supply Chain Oracle Ecosystem Services 2023 Vendor Assessment



Everest Group has positioned Capgemini as a “Major Contender” in its report Oracle Cloud Applications Services PEAK Matrix® Assessment 2023, and “Leader and Star Performer” in its report Application Automation Services PEAK Matrix® Assessment 2023



Capgemini is a Leader in Avasant’s Oracle Cloud ERP Services 2023–2024 RadarView™.



ISG has positioned Capgemini as “Leaders” in all the regions and categories in its report Next-Gen ADM Services - 2023

10 Vendor Accreditations/Awards



For the 13th year in a row, Capgemini has been recognised as one of the World’s Most Ethical Companies® by the Ethisphere® Institute. This is an acknowledgement of our ethical culture that makes us an employer of choice and responsible player in the eyes of our clients, shareholders, and the wider community.



11 Sub-contractors

Capgemini UK may use the following subcontractors to deliver this service:

- Capgemini Technology Services India Limited.

12 Business Continuity and Disaster Recovery

Business Continuity requirements and Disaster Recovery management services can be added as options to the service if required. Capgemini would be pleased to discuss the specific requirements for these services in more detail to see how it can accommodate the needs of the Buyer.

13 Pricing

This service is priced in accordance with the SFIA Rate Card attached. Capgemini can also provide offshore resources at reduced rates where appropriate. Projects can be priced either on a Time & Materials or Fixed Price basis.

14 Ordering and Invoicing

Please refer to the Supplier Terms for this service.

Capgemini would be pleased to arrange a call or meeting to discuss the Buyer's requirements of the service in more detail.

15 Termination Terms

Please refer to the Supplier Terms for this service.

16 Further Information

For more information about this or any of our G-Cloud services, please contact our Public Sector Team.

Phone: 0370 904 4858

Email: publicsector.opps.uk@capgemini.com including the following information:

1. The name of this service.
2. The name of your organisation.
3. Your name and contact details.
4. A brief description of your business situation.
5. Your preferred timescales for starting the work.

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, generative AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2024 global revenues of €22.1 billion.

Make it real. | www.capgemini.com



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