

## IT Job Specifications for:

1. Chief Architect (CA)
2. Lead Technical Architect (LTA)
3. Enterprise Architect (EA)
4. Hardware Architect (HA)
5. Software Architect (SA)
6. Service Architect (SVA)
7. Cloud Architect (CLA)
8. Solution Architect (SLA)

There are 4 behavioural types IT Architects fall into:

1. The Firefighters – their heads are down in solution design or even engineering; can't be accused of being 'too ivory tower'; likely to save the day but may lose the year/war or
2. The Governors – focus on standards, exceptions are minimised and authority respected; they can reduce portfolio complexity and speed to market;
3. The Planners – focus on the target state but they can lack credibility as they are seen as too removed (they set the menu, but don't eat it) from the constrained 'real-world';
4. The Testers – contribute value by formalising innovation and new technology introduction (run labs more than IT architecture); they cannot anticipate the federated nature of experimentation.

# Chief Architect (CA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains.

Reporting to the Portfolio Manager and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Delivering the Enterprise Architectural Strategy covering all aspects of the non-technical contextual areas of Organisational, Political, Business, Ethics/Social, Governance, Finance and Legislation;
- Managing Stakeholders across the areas of Programme/Project, DLODs, Sales, Marketing, People Management, Tools, Training, Competitors, Purchasing, User Communities and policy Makers;
- Able to succeed within an open collaborative peer environment and lead cross-functional teams working to tight deadlines with varying specifications, issues, challenges and risks;
- Understanding Technology, Interfaces and Standards in terms of Research, TRL/MRL, IP/Legal/ITAR, Strategy Roadmaps, Disruptive vs Sustaining and Out of Domain so that appropriate direction and guidance can be provided to the Executive Management Team and Cross-Functional Teams, so that DaaP aims of evergreening, non-proprietary lock-in and common user experience/single sign-on can be maintained;
- Able to convert requirements into use case needs and opportunities with an in-depth understanding of concept of operations, delivery of military effectiveness of combining services, road-mapping and iterative capability delivery (past, legacy, next increment & future increment) within a System of System context (including design constraints);
- Maintaining an up to date current knowledge of the Industrial Suppliers in the areas of Complementary Technologies, Partnering Opportunities, Subcontractor Negotiations, Risks, Product Deficiencies/Limitations and Market Business and Trends;
- Drive Design and Engineering Best Practices into the organisation in the areas of Lifecycle Management, Delivery of Products through Service Management, Manufacturing and Support Considerations, Logistics, Deployment, Obsolescence Management and Master Data Management;
- Working with the Specialist Engineering Communities such as Safety, Security, Assurance, Quality, Networks & Gateways, Integration and Delivery.

## Essential Skills

- Proven track record of working and delivering multiple IT front-end and back-end solutions, development and release management strategies, change management and direct leadership in designing solutions/services that meet or exceed customer needs for major Defence Programmes;
- Substantial System Design and Development of complex hardware and software systems including undertaking assessment and technical reviews;
- Application of System Engineering analysis processes and demonstrable continuous improvement initiatives;
- Expertise in the use of Requirement, Architectural, System and Modelling Management Tools;
- Proven experience in working collaboratively across multiple programmes and product development and specialist domain teams;

- Provide architecture updates, recommendations and guidance to monthly Architectural Design Board;
- Understanding and practice of defence standards and procedures;
- Standard productivity toolset use, problem solving, administration & negotiating skills.

#### Soft Skills

- Must have excellent communication skills (written, verbal and presentational), showing tact, effective listening skills, present and defend points of view to a variety of audiences, follow through and anticipate questions while being prepared with answers or follow-up;
- The ability to work independently with little or no supervision researching new technologies or comparing technologies to meet customer needs while providing an unbiased opinion;
- Candidate must be a team player and be able to follow processes and procedures, with an ability to analyse, design and optimise both user and business processes via technology and integration;
- Self-disciplined, self-starter, professional who can successfully bring projects to closure from a technical point of view with minimum direction, guidance and oversight;
- Polished speaker with the ability to evangelise best practices at various levels within an organisation, whilst also providing coaching and mentoring to junior members of staff;
- High Emotional Intelligence (EQ).

#### Education, Qualifications & Experience

- A Bachelor's Degree in Computer Science, Information Systems, Engineering, Mathematics or a related/equivalent field;
- At least 20+ years of IT and engineering and associated administration experience while meeting expertise requirements;
- Professional Accreditation.

#### Desirable Skills

- Current skills in at least two specialist engineering domains;
- Strategic Planning skills;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields.

# Lead Technical Architect (LTA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains. This architect role will focus on 3 key elements, namely (1) internal quality of the products and services to meet the business needs; (2) external quality of the products and services to meet the customer and user needs; and (3) develop and work on the global architecture as a whole to ensure there is a technology and service roadmap that can be followed, that aligns to the corporate mission, international standards/norms/best practices and existing/emerging market direction.

Reporting to the Integration Chief Engineer and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Managing the technology in the project and providing technical guidance / solutions for work completion;
- Ensure process compliance to the required standards, procedures and best practices and lead the technical reviews and discussions;
- Lead the System Architectural Design and Impact Analysis of new and changing requirements, undertaking project discovery and definition workshops, creating scope and development estimates, documenting new or emerging requirements and designs;
- Prepare Work Breakdown Structures, Work Estimates, Schedules, and detailed programme execution plans for the design, development and systems integration of new and changing requirements within the NSoIT(D) and at the boundary with other connecting systems;
- Develop detailed system designs and implementations that fulfil the requirements on the existing programme while balancing the needs of the new or changing requirements;
- Specify, implementation and document NSoIT(D) designs and solutions into Service Design Packages;
- Lead the test and integration activities from the acceptance and assurance point of view;
- Representing the project team at various reviews including design, safety and programmatic.

## Essential Skills

- Proven track record of working and delivering on IT solutions for a major Defence Programme;
- Substantial System Design and Development of complex hardware and software systems;
- Application of System Engineering analysis processes;
- Expertise in the use of Requirements, Integration & Test and Master Data Management Tools;
- Extensive knowledge in both internal and external standards, emerging and obsolete standards, open/closed interfaces and interface control documents;
- Proven experience in working collaboratively across multiple product development and specialist domain teams (e.g. Security Assurance Coordinator);
- Understanding and practice of defence standards and procedures;
- Standard productivity toolset use, problem solving, administration & negotiating skills.

## Soft Skills

- Must have good communication skills, showing tact, effective listening skills, follow through and anticipates questions while being prepared with answers or follow-up;

- The ability to work independently with little or no supervision researching new technologies or comparing technologies to meet customer needs while providing an unbiased opinion;
- Candidate must be a team player and be able to follow processes and procedures;
- Self-disciplined, self-starter, professional who can successfully bring projects to closure from a technical point of view with minimum direction, guidance and oversight;
- High Emotional Intelligence (EQ).

#### Education, Qualifications & Experience

- A Bachelor's Degree in Computer Science, Information Systems, Engineering, Mathematics or a related/equivalent field;
- At least 15 years of IT and engineering and associated administration experience while meeting expertise requirements;
- Professional Accreditation.

#### Desirable Skills

- Current skills in at least one specialist engineering domain;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields;

# Enterprise Architect (EA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains.

The Enterprise Architect (EA) works alongside the Chief Architect (CA) and Lead Technical Architect (LTA) to ensure that all solutions are based on a solid architectural foundation, right technology and that good design principles are maintained. The EA will liaise closely with the user and business stakeholders to analyse and develop architecture capabilities to support complementary user and business needs and initiatives. The key individual responsibilities are:

- Conversion of user and business requirements into design solutions and integrated service management strategies, so that design solutions can be provided that best meet the user and business needs in a cost effective, efficient and timely manner;
- Identification of refactoring activities and ensure that non-functional requirements such as performance, scalability, availability, reliability and security are addressed;
- Participate in design reviews to ensure that all solutions adhere to established guidelines;
- Establish guidelines to address architecture design patterns (what approved patterns are available, when to use which patterns, the level of tailoring that is acceptable to maintain integrity and assurance compliance, when new testing or assurance is required);
- Liaise closely with the other architects to make sure that best practices and design patterns are shared and followed across the development teams, and initiating and delivering relevant technology evaluations and recommendations;
- Supporting the business teams in understanding new technology and how technology can be exploited to drive innovation, drive down cost of ownership and improve user experiences;
- Maintain in-depth knowledge of IT industry best practices, technologies, architectures and emerging technologies.

## Essential Skills

- Proven track record of working and delivering on IT solutions for a major Defence Programme;
- Substantial System Design and Development of complex hardware and software systems;
- Application of System Engineering analysis processes, Asset configuration Management (hardware, software and licences);
- Expertise in the use of Requirement Management Tools, Enterprise Architecture, Service Management and Governance Frameworks (e.g. TOGAF, MODAF, DoDAF, Zachman, ITSM, COBIT or similar);
- Extensive knowledge in both internal and external standards, emerging and obsolete standards, open/closed interfaces and interface control documents;
- Proven experience in working collaboratively across multiple product development and specialist domain teams;
- Documenting and communicating current/future state architecture blueprints and driving the architecture roadmap;
- Understanding and practice of defence standards and procedures;
- Standard productivity toolset use, problem solving, administration & negotiating skills.

## Soft Skills

- Must have good communication skills, showing tact, effective listening skills, follow through and anticipates questions while being prepared with answers or follow-up;
- The ability to work independently with little or no supervision researching new technologies or comparing technologies to meet customer needs while providing an unbiased opinion;
- Candidate must be a team player and be able to follow processes and procedures;
- Self-disciplined, self-starter, professional who can successfully bring projects to closure from a technical point of view with minimum direction, guidance and oversight;
- High Emotional Intelligence (EQ).

## Education, Qualifications & Experience

- A Bachelor's Degree in Information Systems, Engineering, Mathematics or a related/equivalent field;
- A degree in Business Administration;
- At least 15 years of IT and engineering and associated administration experience while meeting expertise requirements;
- Professional Accreditation;
- Industry recognised EA certification.

## Desirable Skills

- Current skills in at least one specialist engineering domain;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields;

# Hardware Architect (HA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains.

Reporting to the Lead Technical Architect (LTA) and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Define system architecture of hardware solutions under development in collaboration with the Enterprise Architect and other Architects to help develop validated high-level solution designs that can be de-composed into component deliverable services;
- Translating user and business requirements into hardware technical specifications that are applicable across the full product lifecycle;
- Leading the integration of various hardware and software components of the solution, with particular cognisance of the maintenance of required legacy products, adhere to the common information handling model and ;
- Co-ordinating cross-function technical project teams in order to ensure close collaboration with design and the delivery teams to provide appropriate hardware system development and inputs into the corresponding integration and acceptance plans;
- Specifying and integrating hardware and embedded software components;
- Supporting the bench testing of the iterative system design to help identify trouble-shooting issues, demonstrating the developed hardware systems in field trials or demos to potential customers, user communities and senior level executives;
- Ensuring the necessary standards and regulatory compliance and implementation of technical documentation to support development and trials.

## Essential Skills

- Proven track record of working and delivering on IT solutions for a major Defence Programme;
- Substantial System Design and Development of complex hardware and associated software systems;
- Application of System Engineering analysis processes including Waterfall & Agile/Scrum methodologies;
- Expertise in the use of Requirements, Development, Integration & Test and Master Data Management Tools;
- Extensive knowledge in both internal and external standards, emerging and obsolete standards, open/closed interfaces and interface control documents;
- Proven experience in working collaboratively across multiple product development and specialist domain teams;
- Understanding and practice of defence standards and procedures;
- Standard productivity toolset use, problem solving, administration & negotiating skills.

## Soft Skills

- Must have good communication skills, showing tact, effective listening skills, follow through and anticipates questions while being prepared with answers or follow-up;
- The ability to work independently with little or no supervision researching new technologies or comparing technologies to meet customer needs while providing an unbiased opinion;



- Candidate must be a team player and be able to follow processes and procedures;
- Self-disciplined, self-starter, professional who can successfully bring projects to closure from a technical point of view with minimum direction, guidance and oversight;
- High Emotional Intelligence (EQ).

#### Education, Qualifications & Experience

- A Bachelor's Degree in Computer Science, Information Systems, Engineering, Mathematics or a related/equivalent field or the equivalent combination of education, technical training, or work/military experience;
- At least 15 years of IT and engineering and associated administration experience while meeting expertise requirements;
- Professional Accreditation.

#### Desirable Skills

- Current skills in at least one specialist engineering domain;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields.

# Software Architect (SA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains.

Reporting to the Lead Technical Architect (LTA) and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Maintaining a holistic view and big picture understanding of the software architecture and how it works/integrates as a whole including the data/information handling model together with the integration of all the architectural building blocks including the effects of boundary systems;
- Introducing structure, guidelines, principles and leadership to the technical aspects of the software project/programme;
- Defining the software architecture in terms of management of the functional and non-functional requirements, making sure there is a clear architecture definition (taking the requirements along with any imposed constraints and solving the problems), providing a service based model onto which technology can be selected (considering issues such as cost, licencing, vendor relationships, technology strategy, compatibility, interoperability, support, deployment, upgrade policies, end-user environments, future roadmap alignment), undertaking architectural evaluations (UML diagrams, Use Cases, User Stories) in a collaborative environment (safety, security, database operations, maintenance, support, cyber protection, audit);
- Experience of methodologies such as Agile & XP, and technologies such as OOP PHP, Javascript, AngularJS, ReactJS, HTML/CSS, NodeJS, .NET(C#), ASP.NET (MVC, Web APIs), JQuery (and UI Frameworks), Rational & Non-Rational Databases (SQL, Mongo/NoSQL, RavenDB), Cloud Technologies (Microsoft Azure, Google Cloud, Amazon Web Services, VMWare, OpenStack, AWS);
- Work closely with the Solution Architect (SA) to ensure that the designs are practical, workable and deliverable, and that appropriate test scripts, routines and evidence is collated in order drive towards an accredited system;
- Assuming a quality assurance role in terms of managing baselines, undertaking reviews, ensuring adherence to the appropriate coding standards, design principles and source code analysis tools are used throughout the integration and testing cycle, whilst determining the important or architecturally significant parts of the system (i.e. user/business critical, complex or highly visible) and making sure they are sufficiently assured.

## Essential Skills

- Proven track record of working and delivering on IT solutions for a major Defence Programme;
- Substantial System Design and Development of complex software/firmware and associated hardware systems;
- Application of System Engineering analysis processes including Waterfall & Agile/Scrum methodologies;
- Expertise in the use of Requirements, Development, Integration & Test and Master Data Management Tools;
- Extensive knowledge in both internal and external standards, emerging and obsolete standards, open/closed interfaces and interface control documents;

- Proven experience in working collaboratively across multiple product development and specialist domain teams;
- Understanding and practice of defence standards and procedures;
- Standard productivity toolset use, problem solving, administration & negotiating skills.

#### Soft Skills

- Must have good communication skills, showing tact, effective listening skills, follow through and anticipates questions while being prepared with answers or follow-up;
- The ability to work independently with little or no supervision researching new technologies or comparing technologies to meet customer needs while providing an unbiased opinion;
- Candidate must be a team player and be able to follow processes and procedures;
- Self-disciplined, self-starter, professional who can successfully bring projects to closure from a technical point of view with minimum direction, guidance and oversight;
- High Emotional Intelligence (EQ).

#### Education, Qualifications & Experience

- A Bachelor's Degree in Computer Science, Information Systems, Engineering, Mathematics or a related/equivalent field or the equivalent combination of education, technical training, or work/military experience;
- At least 15 years of IT and engineering and associated administration experience while meeting expertise requirements;
- Professional Accreditation.

#### Desirable Skills

- Current skills in at least one specialist engineering domain;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields.

# Service Architect (SVA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains.

Reporting to the Lead Technical Architect (LTA) and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Define the service architecture to meet the business needs, adhering to the project constraints of cost and timescale within the agreed architectural and technical frameworks;
- Assist in shaping IT service, design, delivery and operational support methodologies;
- Capturing the as-is and to-be business, application, data and technology architectures for the in-scope service components and aligning them to JSP 604 and NATO C3 taxonomies;
- Working with the delivery teams to define the service introduction, service implementation, stand-up provision with associated services and withdrawal strategy;
- Working with the Service Management Experts (Service Integration and Management, ITIL), Other Architects and Service Owners to define processes and procedures as outlined within the business capability model;
- Leading the technical reviews on all aspects of service portfolio management and product solution lifecycle;
- Providing the technical authority and leadership of service solutions, ensuring that the Solution Architect (SA) and Design Architects are aligned with the service strategy, which is well defined and communicated effectively;
- Assist in building a culture of continuous improvement and delivery, ensuring that key systems are regularly analysed, maintained and improved;
- Identification, resolution and managing architectural issues, risks, opportunities, dependencies and assumptions, including the escalation to the relevant Architectural Boards or Working groups as necessary.

## Essential Skills

- Proven track record of working and delivering on IT solutions for a major Defence Programme;
- Substantial System Design and Development of complex software/firmware and associated hardware systems;
- Application of System Engineering analysis processes including Waterfall & Agile/Scrum methodologies;
- Expertise in the use of Requirements, Development, Integration & Test and Master Data Management Tools;
- Extensive knowledge in both internal and external standards, emerging and obsolete standards, open/closed interfaces and interface control documents;
- Proven experience in working collaboratively across multiple product development and specialist domain teams;
- Understanding and practice of defence standards and procedures;
- Standard productivity toolset use, problem solving, administration & negotiating skills.

## Soft Skills

- Must have good communication skills, showing tact, effective listening skills, follow through and anticipates questions while being prepared with answers or follow-up;
- The ability to work independently with little or no supervision researching new technologies or comparing technologies to meet customer needs while providing an unbiased opinion;
- Candidate must be a team player and be able to follow processes and procedures;
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- High Emotional Intelligence (EQ).

#### Education, Qualifications & Experience

- A Bachelor's Degree in Computer Science, Information Systems, Engineering, Mathematics or a related/equivalent field or the equivalent combination of education, technical training, or work/military experience;
- At least 15 years of IT and engineering and associated administration experience while meeting expertise requirements;
- Professional Accreditation.

#### Desirable Skills

- Current skills in at least one specialist engineering domain;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields.

# Cloud Architect (CLA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains. Cloud Architect is expected to have the requisite skills and knowledge in enterprise architecture, SOA architecture (models and approaches) whilst also being a cloud technologist (public, private and hybrid including IaaS, PaaS and SaaS).

Reporting to the Lead Technical Architect (LTA) and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Proven solution design skills in a large enterprise who has delivered multiple large and complex solutions with aggressive uptime, performance and availability targets;
- Lead the design of cloud architectures and governance models;
- Good broad knowledge of leading technologies (e.g. Office365, Windows Servers, Exchange, Active Directory, Microsoft Azure Platform and associated infrastructure architecture, SOA, micro-services, web services, databases) and their uses in the public and/or private sector organisations including public and private cloud infrastructure (e.g. G-Cloud), portals and cyber security, integration bus, data warehousing and Business Intelligence (BI) tools (including data migration), modern development languages and tools, testing and deployment tools, commodity applications and the links to business tools (e.g. ERP, CRM systems);
- A very good understanding of the product and service lifecycle in terms of development, infrastructure, operations, DevOps across a multiple solution delivery platform using a combination of outsourcing, networked elements, support centres, end-user computing devices, data centres, applications and middleware/integration delivered as services;
- Experience of methodologies such as Agile & XP, and technologies such as OOP PHP, Javascript, AngularJS, ReactJS, HTML/CSS, NodeJS, .NET(C#), ASP.NET (MVC, Web APIs), JQuery (and UI Frameworks), Rational & Non-Rational Databases (SQL, Mongo/NoSQL, RavenDB), Cloud Technologies (Microsoft Azure, Google Cloud, Amazon Web Services, VMWare, OpenStack, AWS);
- Work closely with the Solution Architect (SA) to ensure that the designs are practical, workable and deliverable, and that appropriate test scripts, routines and evidence is collated in order to drive towards an accredited system;
- Assuming a quality assurance role in terms of managing baselines, undertaking reviews, ensuring adherence to the appropriate coding standards, design principles and source code analysis tools are used throughout the integration and testing cycle, whilst determining the important or architecturally significant parts of the system (i.e. user/business critical, complex or highly visible) and making sure they are sufficiently assured.

## Essential Skills

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- Application of System Engineering analysis processes including Waterfall & Agile/Scrum methodologies;

- Expertise is the use of Requirements, Development, Integration & Test and Master Data Management Tools;
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#### Desirable Skills

- Current skills in at least one specialist engineering domain;
- A creative trouble-shooter capable of working to tight deadlines;
- An enthusiastic and energetic team player and technical leader;
- A domain expert able to communicate effectively to specialists from different fields.

# Solution Architect (SLA)

The candidate will have demonstrable experience interfacing with the internal and external customers, understanding system requirements in the Defence and IT domains.

Reporting to the Lead Technical Architect (LTA) and working with the Design and Integration Engineering teams, the key individual responsibilities are:

- Unique blend of strategic business acumen and advanced technology skills to ensure collaboration with other architects and key business users to gain enterprise alignment;
- Proven ability to architect solutions through mapping both user and business problems right through to providing leadership in the implementation of those solutions into technology agnostic service management solutions;
- Documents and publishes appropriate architecture principles and standards, position papers, blueprints, best practices, patterns and frameworks;
- Defines, constructs, supports and provides training for enterprise frameworks, and provides, defines and maintains a library of functional component models;
- Supports the development of the service catalogue and provides a list of re-usable functional application components that are consumed across applications, products and services'
- Reviews functional, technical and non-functional designs to identify areas of risk and/or missing requirements;
- Acts as a tie breaker in helping the Chief Architect (CA) to make design decisions;
- Documents and communicates opportunities to leverage inter-project and inter-service synergies, application and enterprise software or infrastructure asset re-use, and opportunities to expose application assets for enterprise consumption;
- Communicates system architecture to technical and business audiences in easy to understandable and digestible pieces and formats, with the aim to present very complex material to a variety of audiences that they can understand the fundamental aspects and key issues/concerns so they can then take the appropriate courses of action;

## Essential Skills

- Proven track record of working and delivering on IT solutions for a major Defence Programme;
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- Application of System Engineering analysis processes including Waterfall & Agile/Scrum methodologies;
- Expertise in the use of Requirements, Development, Integration & Test and Master Data Management Tools;
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