# Technical Architecture & Design Services

In small, medium, and large enterprises alike the network has become increasingly complex and difficult to manage and scale. Primary challenges include the adoption of cloud services, cyber security, Operational Technology (OT) and IT convergence, and the increasing pressure on improving application and network performance, ultimately to provide a better, more consistent utility-grade service.

Because most networks were designed more than five years ago, they are not architecturally ready to adapt to the incoming wave of Digital Transformation, IoT connectivity, increasing cyber threats, and the move away from legacy infrastructure and applications. Successfully migrating to new platforms such as SD-WAN or IoT means it is paramount that the underlying network and security architectures are designed appropriately.

Assess - Design - Validate - Advise

The importance of architecture and design cannot be underestimated and, in our experience, an area that has not traditionally been given the appropriate focus that it deserves. Architecture has been the cornerstone of all traditional infrastructure builds and has been so for many centuries. Creating the right blueprint from the start ensures that the desired outcomes are achieved, provides traceability, cements a solid design and reduces cost by avoiding point solutions.

Professional Services Suite

- Architecture Assessment Services
- Technical Design
- Validation & Verification
- Advisory
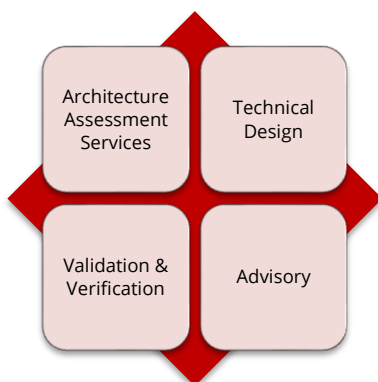
RIoT Solutions provides the 'Digital Plumbing" for enterprise and industrial IT networks through consulting and professional services. Based on our experience of both ICT and critical network environments, we are well placed to understand the challenges and requirements of building world-class enterprise and smart & connected networks.

We focus on three main areas across both traditional IT and OT environments:

1. **Enterprise Networks**
2. **Smart & Connected Networks** such as smart cities
3. **Industrial IT Networks** for Operational Technology, SCADA and Critical infrastructure

Contact RIoT Solutions:

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It's time to be **S**mart. **C**onnected. **S**ecure.

Technical Assessment Services

Allow us to truly understand your business requirements and desired future-state

Through a collaborative review, and series of discussions and workshops, a RIoT Solutions Architect will perform a review on the different aspects of the current environment. This discovery process will include the business, functional and technical requirements, along with use cases, network and security, suitability, modularity and integration with the existing infrastructure. All information is documented and summarised to provide a gap analysis and recommended options.

Architecture & Design Services

Our proven methodology allows quicker execution whilst creating a blueprint for the future

Our approach, based on industry best practice, provides both a short- and long-term strategy regarding the design of complex environments. Artefacts are created to provide the details of the technical architecture that is recommended for the desired project. RIoT Solutions has substantial experience in extracting the necessary information from both internal and external customer sources to produce an agreed outcome and high-level design.

Validation & Verification Services

Independent procedures to check that a product, service, or system meets its intended purpose

Unlike the construction and critical project service industry who engage independent verifiers, there are very little (if any) organisations that provide these services for IT, OT and IoT solutions. Our service is designed to be used by the end customer, solution integrators or third-party provider seeking reassurance that the design and or implementation matches the originally intended outcome. During the project or defects testing phase, we will verify and validate the architecture, design and cyber security against the specification and industry best practices.

Architect-as-a-Service

Independent advice as and when required, provided as an extension to your team

Accessing, hiring and retaining architecture skills in-house can be difficult and costly. RIoT Solutions can provide an external resource with the necessary experience and capability for a specific project, to sit on boards and steering committees. We can provide advice on many aspects of your technology roadmap, from concept to execution across both IT and OT, working with C-Level executives to create a blueprint to maximise the business's desired outcome.

The RIoT-X-Factor

Our people; a hand-picked assembly of experts addressing the design challenges faced by your organisation

As experts at Securely Connecting Everything™ and with our wealth of enterprise ICT and industrial knowledge, RIoT Solutions is in a unique position to understand the challenges and requirements of designing and securing smart and connected networks. We hire self-motivated, responsible and trustworthy staff carrying a 'can-do' attitude and a high level of emotional intelligence to complement their wealth of technical expertise.

Our Solution Architects have a desire and focus to truly understand the business requirements and ensure that the architecture enables the organisation to succeed. This encourages a pragmatic approach and provides value through the entire process.

Our consultants have attained multiple levels of industry certifications (CCIE, CCDA, CCDP, CCNP, TOGAF) and have attended a diverse range of focused training courses and conferences. We have provided technical architecture and design services to many Australian enterprise and Government organisation's including those that operate and/or build critical infrastructure systems. We are one of the few organisations in Australia that offers resources with ICS/SCADA security and industry specific training and certifications such as Certified SCADA Security Architect.

Our methodologies are based on accepted industry best practice, standards, recommendations and guidelines. These include:

- The Open Group Architecture Framework (TOGAF)
- IT Architecture Design Framework (ADMIT)
- Agile Based Architecture

In addition, at any time, we can hand-pick a multi-disciplined team of skilled experts to join forces and resolve a specific challenge or requirement – known as the RIoT-X Team. A RIoT-X engagement will expand your access to subject matter experts in many different fields and technologies, providing additional and local insight and experience unlike any other team – a true X factor.

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	Technical Assessment	**Architecture & Design**	**Validation & Verification**	**Advisory**
Services	➢ Workshops ➢ Audit & Discovery	➢ Architecture Reviews ➢ Design Strategies	➢ Independent design review during Defects Liability Period ➢ Post production review	➢ Architect-as-a-Service
Capabilities & Deliverables	➢ Obtain business, technical and operational requirements ➢ Review existing artefacts ➢ Establish guiding design principals	➢ Options and recommendations for target-state ➢ High Level Design ➢ Gap analysis to move between current and target state	➢ Detailed review of As-built solution vs original design ➢ Access to subject-matter-experts in the event of a system failure ➢ Verification of design against requirements	➢ Chief Architect resource ➢ CxO guidance & assistance ➢ Participate on Architecture boards, steerco etc. ➢ Design Authority
Key Benefits	➢ Assists with the considerations that need to be made towards the target state architecture. ➢ Provides the necessary documentation for conducting a consistent audit	➢ Provides a baseline that can be shared with all parties ➢ Suitable traceability has been provided for the future phases ➢ A referenceable document that can be used by different parts of the business	➢ Access to subject matter experts ➢ Independent evaluation & recommendations	➢ Access to a Solution Architect as and when required ➢ Independent evaluation & recommendations ➢ Assistance with executive level reporting and presentation
STANDARD INCLUSIONS & FEATURES				
Kick-off meeting to define rules of engagement	✔	✔	✔	✔
Onsite and remote access	✔	✔	✔	✔
Draft Report Review	✔	✔	✔	N/A
Executive Presentations	✔	✔	✔	✔
Fixed Price Scopes	✔	✔	✔	✔
Pre-paid draw down	✔	N/A	✔	✔
ICS/SCADA/IIoT/BMS	✔	✔	✔	✔
Critical on-call Response	Available, fees apply	Available, fees apply	Available, fees apply	✔