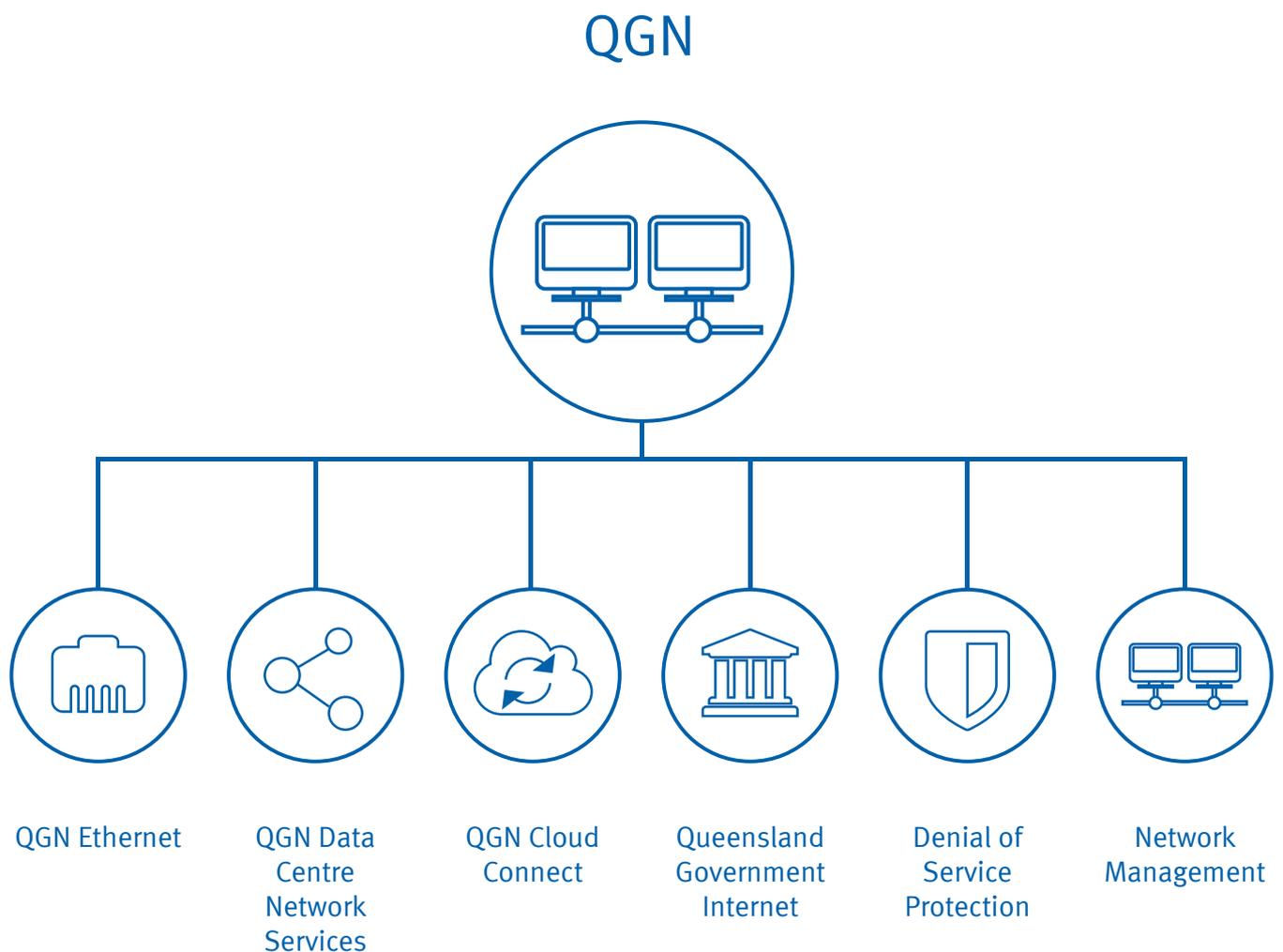# Networks

+617 3222 2555
info@citec.com.au

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info@citec.com.au

Queensland Government Network (QGN)

Our Queensland Government Network (QGN) is central to the ICT services we provide. It is a government owned and managed network, designed specifically to provide highly available and secure connectivity for Government agencies.

The network connects all agencies to Queensland Government data centres, Govnet, cloud providers and the internet.

With near limitless bandwidth, this critical service delivers high capacity, carrier grade Ethernet services for multipoint communication and enables end-to-end business continuity failover within milliseconds. By sharing connections in this way, government agencies can avoid the cost and inefficiencies of duplicated services.

QGN

| QGN Ethernet | QGN Data Centre Network Services | QGN Cloud Connect | Queensland Government Internet | Denial of Service Protection | Network Management |

QGN Ethernet

Our QGN Ethernet extends your network to other sites, data centres or into the cloud. Our Ethernet services are designed to be highly available, scalable and secure. Whether you choose to use Ethernet alone or with other CITEC services, our common access architecture provides the flexibility to customise your network.

Features

- Carrier grade backbone delivers dedicated point-to-point or point-to-multipoint services
- Highly scalable capacity
- Multiple Quality of Service options
- Agile to migration and machinery of government changes
- A choice of layer 2 or layer 3 services
- Connects to and integrates with each agency's supplier of choice

QGN Data Centre Network Services

Today's data centre networks are complex with many co-dependent technologies required for peak end-to-end performance. Resilient by design, the QGN Data Centre Network provides secure connectivity for any data need, connecting a wide range of government, agency and supplier ICT infrastructure.

Features

- Located in highly secure data centre facilities in Brisbane CBD and Polaris
- QGN's testing facility enables thorough analysis of new software, design changes or applications to determine production readiness
- Customised solutions and integration consultancy
- Local and global load balancing solutions and traffic load distribution management to ensure business continuity for important infrastructure
- Enables agencies to communicate with each other via a whole-of-government extranet incorporating high speed firewalls

QGN Cloud Connect

Queensland Government agencies are increasingly adopting the benefits of cloud solutions, but for some ICT solutions, obstacles still remain when it comes to security and compliance. QGN Cloud Connect lets you safely and seamlessly connect to a variety of leading international cloud providers through a secure, high quality end-to-end service, while simultaneously retaining a hybrid environment of infrastructure in Queensland.

Features

- QGN connection to your 'on net' premises
- Resilient carriage (non-internet based) with full separation of each agency service
- Agile to increasing supplier diversity and changing delivery models
- Scalable virtual data centre connectivity to Microsoft Azure, Amazon Web Services and other suppliers
- Flexibility to add and change virtual connections according to business needs
- Trials are available on request

Queensland Government Internet

Our Queensland Government Internet service is specifically designed for the needs of agencies. Designed on best practice architecture, it delivers fast, high capacity access to the Internet through multiple suppliers, with full failover at our geographically diverse data centres.

Our service is known for its performance and resiliency and is now the Queensland Government's secure gateway to the Internet, enabling the deployment of a range of cyber-security protection capabilities funded by the Queensland Government Chief Information Office.

Features

▶ Unlimited data

▶ Accelerated transportation of traffic through peering and caching capabilities

▶ Dedicated security team providing a unified defence against internet-based threats

▶ Ownership of core network allowing advanced visibility and monitoring

▶ Flexible capacity options, with immediate upgrades for critical business requirements or seasonal events

▶ A range of enhanced reporting showing real time utilisation and performance

▶ Aligned with best practice network architecture

▶ Tools provide in depth analysis of applications or security events post incident

Denial of Service Protection

Large scale Denial of Service (DoS) attacks are occurring with increasing frequency. Queensland Government DoS protection provides two layers of defence and has a proven track record of blocking attacks while allowing business traffic to continue unaffected.

DDoS Agency Protect

▶ Protects individual agency internet services

▶ Uses adaptive behaviour analysis to protect agencies from harmful traffic

▶ Portal access provides departments or groups with full control of their environment with portal access for alerting, mitigation and real time reporting and analysis

DDoS Protect Layer

▶ Monitors, detects and mitigates large scale attack traffic on the Queensland Government Internet gateway

▶ Delivers a unified defence and response capability to Queensland Government

Network Management

Our network management services give you the support to optimise and manage your complex communications infrastructure, while simultaneously maintaining control of your overall network strategy. Our service is flexible and scalable to your business needs.

Features

▶ Wide area network management

▶ Network equipment supply and maintenance

▶ Network integration

▶ Design, delivery and commissioning

▶ Professional services

▶ Network and supplier management

▶ End-to-end monitoring
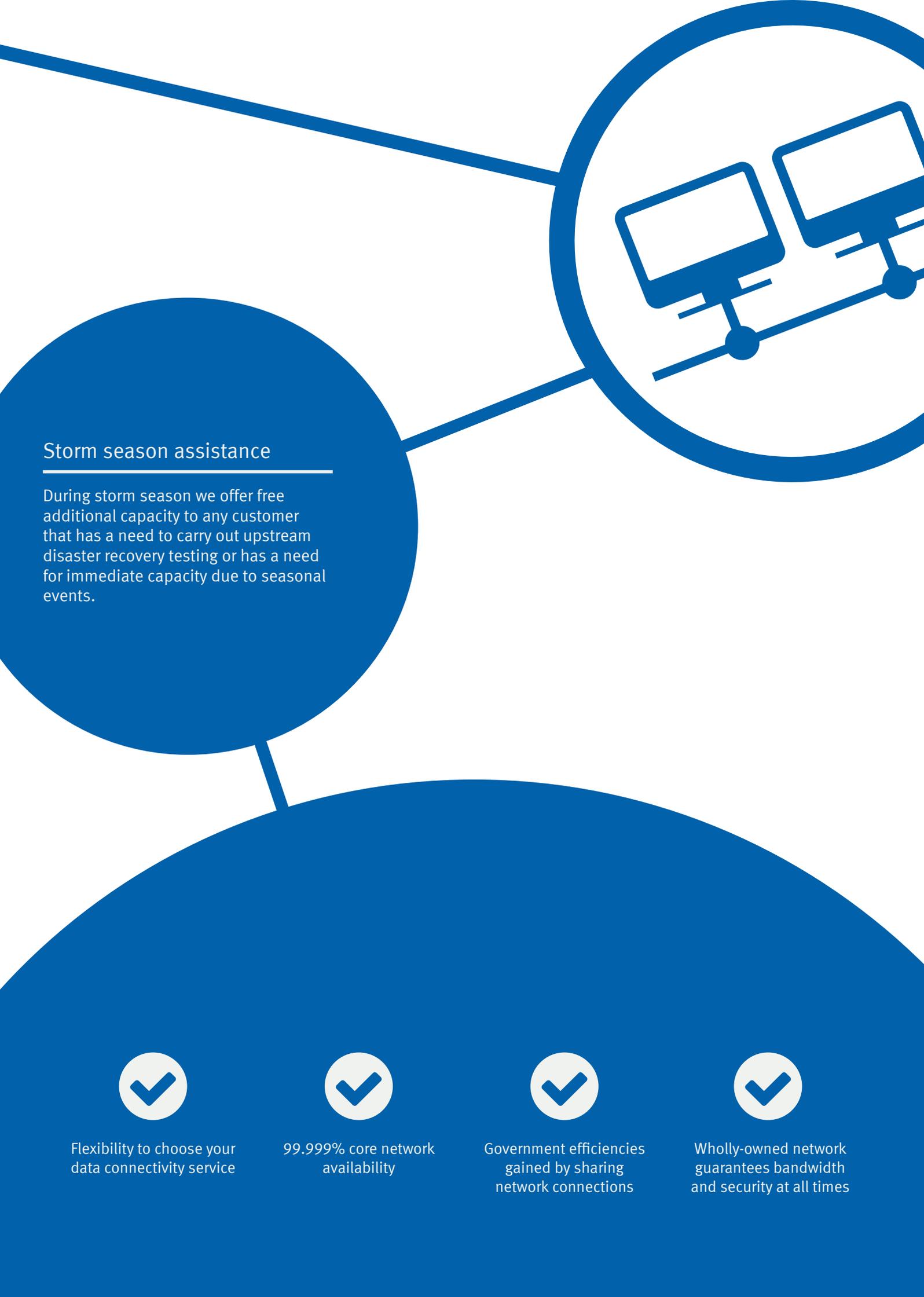
Storm season assistance

During storm season we offer free additional capacity to any customer that has a need to carry out upstream disaster recovery testing or has a need for immediate capacity due to seasonal events.

Flexibility to choose your data connectivity service

99.999% core network availability

Government efficiencies gained by sharing network connections

Wholly-owned network guarantees bandwidth and security at all times

For over 50 years we have provided technology
infrastructure, business solutions and
support to state government and commercial
organisations nationwide.

We are committed to technology advancement
and partner with some
of the world's most innovative technology
vendors. We've been improving practices,
strengthening relationships and delivering
a utility model to our clients that aligns
technology expenditure with requirements.