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ELECTRONIC SECURITY · TASMANIA

CUSTOMER GUIDE

Networks and **wireless links**

Switches, PoE budgets, point-to-point links, backup internet and keeping security systems online.

4	3	8
STEPS	LAYERS	COMPONENTS

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OVERVIEW

Networks **and wireless links**

Cameras, door controllers, alarm panels and PA all run on the network now. This guide covers how to design a network that keeps security systems online, how to link buildings without trenching, and how to stay connected when the internet drops.

Switching

Managed PoE switches that power and connect cameras, readers, phones and access points.

Separated

Security devices on their own network segment, apart from office computers.

Wi-Fi

Access points placed for coverage and capacity, not just signal bars.

Links

Point-to-point wireless to connect buildings, sheds and gates without trenching.

Failover

A second internet path, such as Starlink or 4G, for when the main service drops.

UPS

Battery backup so the network and cameras ride through power blips.

Resilience in three layers

01

Inside

Switches, cabling and UPS keep devices powered and connected on site.

02

Between

Fibre or wireless links join buildings into one network.

03

Outside

A primary internet service with a backup path that takes over automatically.

STEP 1

Design choices **that matter**

Most security network problems come from a few early decisions.

CHOICE	WHY IT MATTERS	USUAL RECOMMENDATION
Separate security network	Cameras and controllers are kept apart from office traffic and risks.	A separate network or VLAN for security devices.
PoE budget	Each switch can only supply so much power in total.	Add up every device and leave headroom for growth.
UPS runtime	Decides how long cameras and the network last in a power cut.	Agree a runtime, then size the UPS to the load.
Remote access	Opening recorders to the internet is a common weakness.	Use vendor cloud access or VPN, never open ports.
Internet backup	Alerts, remote viewing and cloud systems stop when the internet does.	A second path with automatic failover where it matters.

Linking buildings

OPTION	GOOD FOR	WATCH FOR
Fibre	Permanent, high-capacity links between buildings.	Trenching or aerial cabling cost and disruption.
Point-to-point wireless	Sheds, gates, yards and buildings across a road or paddock.	Needs a clear line of sight between the two radios.
Mesh or outdoor Wi-Fi	Covering yards and open areas for devices that move.	Lower capacity than a dedicated link.

STEP 2

Questions **for your site**

These answers shape the switches, links and backup.

01

What runs on the network?

List cameras, controllers, alarm panels, phones, Wi-Fi and computers, and which ones must never go offline.

02

Where are the buildings and outlying areas?

A site plan with sheds, gates and yards shows where links are needed and whether there is line of sight.

03

What happens when the internet drops?

If alarms, cameras or cloud access depend on it, a backup path is worth considering.

04

How long must it run in a power cut?

Minutes to ride through a blip, or hours to keep cameras recording.

05

Who manages it?

Your IT provider, us, or both. Agree who owns what before devices go on the network.

EXAMPLE: FIBRE DROPS OUT AT THE STREET

"The router fails over to the Starlink backup in seconds. Wi-Fi, cameras and the annex link stay online throughout."

This is the scenario shown on our home page. A backup path is configured and tested as part of the installation.

STEP 3

What goes into **a network**

Typical building blocks. Your quote lists the exact hardware for your site.

SWITCHING

Managed PoE switches

Power and connect devices, with network separation for security systems.

securatech.com.au ↗

ROUTING

Routers and firewalls

Internet connection, failover and secure remote access.

securatech.com.au ↗

WIRELESS

Wi-Fi access points

Coverage designed for the building and the number of users.

securatech.com.au ↗

LINKS

Point-to-point radios

Join buildings and outlying areas where cable is impractical.

securatech.com.au ↗

BACKUP

Starlink

Satellite internet for remote sites, temporary sites and backup.

starlink.com ↗

POWER

UPS

Battery backup sized to the load and the runtime you need.

securatech.com.au ↗

CABLING

Structured cabling

Tested, labelled and documented cabling and fibre.

securatech.com.au ↗

RECORDS

CABVIX

Network and cabling documentation in one live record.

cabvix.com.au ↗

READ MORE ON THE OFFICIAL SITES

Network infrastructure	www.securatech.com.au/services/network-infrastructure
Data cabling	www.securatech.com.au/services/structured-data-cabling
Starlink business	www.starlink.com/business
CABVIX	www.cabvix.com.au

STEP 4

Common problems **and fixes**

What we find most often on sites where security systems share a network.

PROBLEM

Cameras drop out when the office is busy

WHAT FIXES IT

A separate network for security devices, with switches sized for the load.

PROBLEM

The shed across the yard has no connection

WHAT FIXES IT

A point-to-point wireless link instead of trenching.

PROBLEM

Everything stops when the internet goes down

WHAT FIXES IT

A backup path such as Starlink or 4G with automatic failover.

PROBLEM

Cameras go blank in a power blip

WHAT FIXES IT

A UPS sized for the PoE load and tested on handover.

Ask your installer

- Will security devices be on their own network?
- What is the PoE budget, and how much is spare?
- How long will the UPS keep things running?
- How is remote access secured?
- What happens when the internet drops?

At handover you should receive

- A network diagram and device list
- Switch, router and Wi-Fi settings recorded securely
- Failover and UPS tested in front of you
- Remote access set up for the right people
- Firmware and support arrangements agreed

TALK TO SECURATECH

Need a site connected?

We design and install networks, wireless links and Starlink connectivity for security and business systems across Tasmania.

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securatech.com.au/enquiry

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