



Running Creek Farms, Brisbane

D-Link Powers Expanded Remote Farm Management Systems Combined with Integrated Surveillance & Monitoring Solution



“The farm owners finally feel safe as the Cameras are monitoring and recording all activity on the farm. Now we can be anywhere in the world on the Internet & see what the temperature, feed rate, humidity and water levels are in any of our 10 sheds. We can even bump up the fans, turn or close vents from our connected phones.”

— Rhett Phipps, Running Creek Farms



Contact us for more information on D-Link Network Solutions for your Business.

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In Partnership with



Background

Running Creek Farms is a broiler chicken farm located in Coominya, Queensland. The farm has multiple sheds for chicken breeding, and they also rear, grow and produce beef, grain and hay.

Recently, the farm expanded from 6 sheds to 10, and as a result, required their existing network to be expanded also. To achieve this, the farm turned to A&S Tech and D-Link.

Overview

Each shed on the farm is monitored with automated instrumentation monitoring equipment that relays information back to a cloud server. In order to manage the farm's 10 sheds via the management app, all of the sheds are required to have network access.

In addition, the site is highly geographically distributed across the property, with work sheds, generator rooms, bore pumps and guard houses, all of which need to be interconnected.

As a result of several thefts that have occurred on the property in recent times, the farm also required a surveillance system to run across various locations on the site.

It is also essential that each chicken shed, as well as other key areas throughout the property, can be monitored when trucks are loading and unloading.

The Challenges

There were many moving parts to this project. These included managing the threat of potential future thefts, implementing network connectivity across the entire farm amongst all buildings, as well as being able to manage the farm automation remotely over the Internet.

With a variety of buildings including 10 chicken sheds, a generator shed, a workshop as well as three family homes all needing to be connected to the network, a multi-pronged connectivity plan was executed. With a mix of pre-installed fibre combined with new fixed point-to-point Wireless links connecting builds over distance, the new expansion also needed to enable the new surveillance system that the farm required.

To manage this complexity, A&S Tech installed 13 x D-Link Switches, 10 x D-Link point-to-point Long Range Wireless Access Points along with 13 x D-Link Access Points combined with VLAN functionality to securely segment the three families' private home networks, the commercial networks, the Network Cameras and the long distance wireless links with the appropriate access controls.

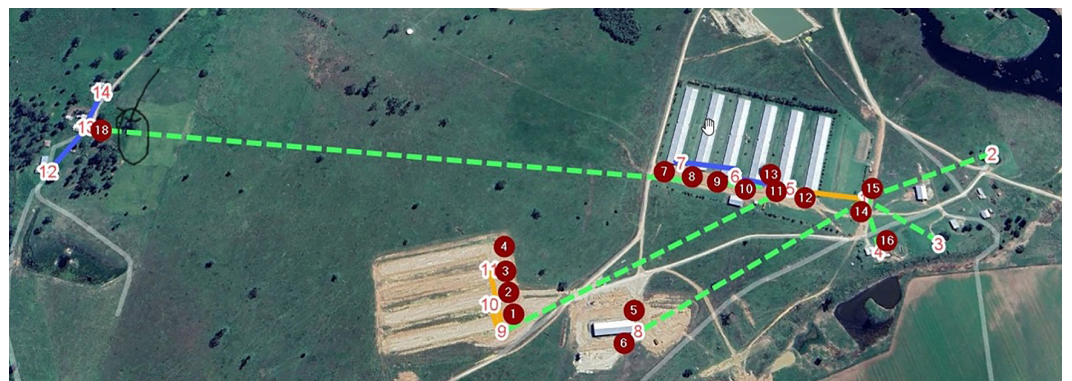
D-Link Solutions & Implementation

To meet all of Running Creek Farms' criteria and requirements the following D-Link solutions were presented to, and chosen by, the client as being the best available to meet their needs and budget.

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➤ D-Link Long Range Wireless Bridges implemented to deliver long-distance Wireless Connectivity between farm buildings



➤ Photo above shows a part of the scale and distance of the network expansion on the farm.



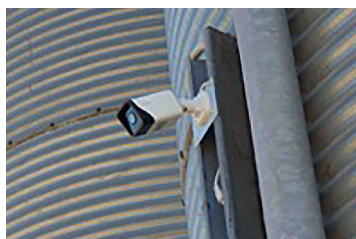
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D-Link Solutions & Implementation

The Solution implemented included the following:

DAP-3712-2PK

Long Range Wireless Bridges to establish a high-speed Wireless Link between farm buildings. These provide a high-speed ‘backbone’ along the length of the farm.

DNR-F4432-16P

Network Video Recorder to record all Camera footage and provide Live and Recorded viewing access locally or remotely as required.

DCS-4714E

Outdoor 4MP Bullet Cameras provide clear video images during both daylight hours as well as in complete darkness.

DAP-2680

Wireless Access Points provide local Wi-Fi connectivity to Network cameras, as well as other Wireless devices across the network.

DGS-1210-10P

PoE Network Switches to connect Access Points and IP Cameras to the network.

DGS-1210-28MP

High performance PoE Network Switches as the core of the network.

DNH-100

Nuclias Connect Hub Wireless Controller to manage Access Points and Switches.

DEM-310GT

Single Mode Fibre SFP Transceivers to connect the fibre network cable to Switches.

The WOW Factors

Having previously had farm tools and equipment stolen with little effective monitoring, the farm owners now have the capability to fully and comprehensively monitor the farm remotely and onsite.

Customer Feedback

Rhett Phipps, one of the owners of the Running Creek Farms is impressed with the solution and said, “The farm owners finally feel safe as the Cameras are monitoring and recording all activity on the farm. Now we can be anywhere in the world on the Internet and see what the temperature, feed rate, humidity and water levels are in any of our 10 sheds. We can even bump up the fans, turn or close vents from our connected

phones. As a result of this excellent solution from A&S Tech and D-Link, I can go now fishing on Fraser Island and see that the farm is all under control and staff are doing their job just by looking at my phone.”

Products integrated in this solution include:






	D-Link DAP-3712-2PK Long Range Wi-Fi 5 Wireless Bridge (20km) - Pack of 2
	D-Link DNR-F4432-16P 32-Channel H.265 Network Video Recorder with 16 PoE ports
	D-Link DCS-4714E Vigilance 4MP Day & Night Outdoor Bullet PoE Network Camera
	D-Link DAP-2680 Wireless AC1750 Wave 2 Concurrent Dual-Band PoE Access Point
	D-Link DGS-1210-10P 10-Port Gigabit Smart Managed PoE Switch with 8 PoE RJ45 and 2 SFP Ports
	D-Link DGS-1210-28MP 28-Port Gigabit Smart Managed 370W PoE Switch with 28 RJ45 and 4 SFP (Combo) Ports
	D-Link DNH-100 Nuclias Connect Hub
	D-Link DEM-310GT 1000Base-LX SFP Transceiver (Single Mode 1310nm) - 10km



Photo above shows D-Link IP Cameras in use at the shed