



Dairy Farmers of America

**Project:**

Dairy Processing Plant

**System Integrator:**

Dan Malyszko from Malisko Engineering.

**Hardware:**

Stratus Fault tolerant server.  
Contec thin clients.

**Software:**

PlantPax from Rockwell.  
ThinManager from Automation Control Products.

**Schematics:**

See page 2.

**About ThinManager**

Over 60,000 customers worldwide use ThinManager as their plant standard for delivering applications and content to the right person, at the right time, in the right place. Learn more about ThinManager and Relevance at [www.thinmanager.com](http://www.thinmanager.com).

# Dairy Farmers of America Reduces Downtime with Resilient Thin Client Tech

When you think of Dairy Farmers of America you probably think of milk. While you wouldn't be wrong to have such a thought, milk processors do a lot more than you think with the raw milk that comes from the cow.

Dairy Farmers of America is a co-op owned by over 14,000 dairy farmers. With 2015 net sales over \$13.8 billion you can see that dairy production is serious business. It's more than milk though. This particular plant takes in over 160 trucks full of raw milk every day. The material skimmed from the raw milk is turned into milk powder that is used in all manner of food production.

ACP recently spoke with Dan Malyszko from Malisko Engineering about upgrades to the DFA skimming plant in Portales, NM. "One of the biggest issues was an obsolete HMI server and client infrastructure. The Windows® XP client computers are now out of support and the server was at the end of its serviceable life. This outdated infrastructure was prone to system crashes that either slowed production or stopped it completely," Malyszko stated. "These folks need to skim milk, not have their profits skimmed from outdated computer systems."

The plant had tried to modernize its computer network before by using commercial grade thin clients with embedded OSes. These clients were still hard to manage and they didn't stand up well in the process intensive environment. What's more, the server side still required manual intervention to switch to backup HMI client servers in the event of a server crash. Downtime was still an issue.

Enter Malisko Engineering and an idea for a superior, fault-tolerant system that would not

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— Eric Miller, Engineering Manager  
New Mexico facility

only reduce downtime, it would also make the whole system easier to manage.

Malisko Engineering is a Rockwell Automation Solution Partner and have had the chance to attend several Rockwell roadshows within the last couple of years. Recently a series of those roadshows focused on the benefits of server virtualization and application deployment to thin clients.

There were three main participants at these shows and their combined technology offered



what Dan Malyszko considered to be the most "resilient" plant floor technology available. Rockwell Automation's PlantPax Process Automation solution was front and center, but Stratus Technologies was showcasing their fault-tolerant server hardware and ACP was



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## ThinManager Spotlight Continued...



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— Dan Malyszko, Director of Operations

demonstrating their new ThinManager thin client management platform. Taking advantage of virtualization along with these three powerhouse solutions was something Malyszko was sure would meet and exceed the needs of the DFA plant in Portales.

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The new ThinManager-Ready thin clients make a large part of the resilience of the system. These clients do not have an embedded OS. They boot over the network and can be replaced in under two minutes in case of a hardware failure. They are also very easy to manage from a central location because they do not require local configuration.

“Hours and perhaps days of downtime have been eliminated by removing the unsupported PCs and replacing them with ThinManager-Ready thin clients,” stated Eric Miller, Engineering Manager for DFA. “Hopefully other DFA plants around the country will be able to replicate our success. Getting rid of the old and bringing in the new has been the best technology decision we have made. Now we can focus on our process and stop wasting time with outdated computer systems.”

