Gallagher Stratus Redundancy

Gallagher has partnered with Stratus® Technologies to ensure the availability and integrity of Command Centre with a fault tolerant server solution.

Challenging environment

In today's volatile national security environment and 24x7 business world, many organizations face complex security challenges and business risks. To solve these problems Gallagher develops integrated security solutions, from basic access control, right through to high security at sites with some of the toughest compliance requirements.

Access control, intruder alarms, perimeter security and business policy management are integrated with powerful software to create smarter, more cost-effective ways to operate.

Gallagher security solutions are scalable, flexible and keep thousands of sites protected worldwide, from utilities and civil infrastructure, to corrections and defense facilities.

When it comes to building security and automation systems, most sites cannot afford to risk downtime. If access control, video monitoring, or other building security systems fail, it can mean costly, dangerous, and potentially life-threatening consequences.

If there is a security incident and the server is down, the organization will be vulnerable, blind to certain events, and unable to respond.

Gallagher and Stratus

Gallagher has partnered with Stratus to offer a solution that ensures the customer is better protected from exposure to the threats discussed. Stratus provides Gallagher a flexible 'always-on' resilient infrastructure solution option that is easy to deploy and manage, and backed by a support structure with a 30 plus-year track record of success and unmatched uptime.

Option 1: ztC Edge

Stratus' ztC Edge is a simple, turnkey computing platform that allows organizations to quickly and easily increase their efficiency, and lower their downtime risk.

Stratus ztC Edge solution consists of two servers, linked together via a high speed and low latency link, so should one have a fault then the other one can seamlessly takeover. They can be configured in two modes, High Availability or Fault Tollerant.

In high availablity should the primary server experience a catastrophic failure Command Centre is automatically restarted on the standby server and would be operational from 30-60 seconds of a fault being detected.

With Fault Tolerant protection the two servers are always active and in synchronisation with all data replicated to both servers so when a fault occurs on one the other seamlessly takes over without any downtime or loss of data.

Gallagher Command Centre can simply be installed onto Stratus ztC servers to seamlessly run in either protection mode.

ztC Edge's self-monitoring and self-protecting capabilities reduces the IT burden, making it ideal for unmanned stations, or remote locations with limited IT resources. Deployment options include control room, machine cabinet, or shop floor. Its fan-less, solid sate design is durable, industrial rated, and can be wall or DIN rail mounted. The two ztC Edge servers can be located across site, providing they are connected via a high speed and low latency link.

Option 2: ftServer

This solution is deployed with Command Centre across secure sites like correctional facilities, hotels, hospitals, mines, corporate and government buildings as well as financial institutions. All requiring uninterrupted uptime and service levels to secure their facilities. The ease of management of the ftServer solution lends itself to deployment at secure, sensitive and often remote, locations where there is a lack of IT capability. Gallagher has developed an interface which monitors for, and displays on the operator workstation, SNMP server based alarms that enables the ftServer to integrate into the most secure environments with no outside digital access.

ftServer is a fully integrated, continuously available duplicated hardware and software solution for running tier 1 business critical applications such as Command Centre. Offering better than 5 nines availability, it eliminates unplanned downtime and data loss, and ensures all transactions are processed, audit trail remains intact and applications are available, ensuring alarms are acknowledged and operators can act on the latest information.

Option 3: everRun SplitSite

For sites that need to ensure their systems are protected by having their server operations decentralized and hosted at multiple locations, connected via a high speed, low latency link.

Examples include: at the top and bottom floor of a large data center, or either end of a university campus. For these scenarios Stratus offers the everRun software availablity solution.

The Stratus everRun SplitSite software based solution links two servers together via a virtualization platform that pairs protected virtual machines to create a single operating environment but in separated server rooms. The entire Command Centre application environment, including data in memory, is replicated by everRun SplitSite, ensuring applications continue to run without interruption or data loss. If one physical machine should fail, the application continues to run on the other physical machine without any interruptions or data loss. If a hardware component fails, everRun substitutes the healthy component from the second system until the failed component is repaired or replaced.

Product	Requirement		
ztC Edge	Simple turnkey solution Small to medium Command Centre installation High Availablity or Fault Tolerant option Servers are located within the same facility Rugged install anywhere, no aircon or computer room needed		Stratus ztC Edge
ftServer	Simple turnkey solution Solution demands highest uptime Scalable to run multiple applications or virtual machines Handles small to large Command Centre installs Integrated Command Centre SNMP monitoring		Stratus ftServer®
everRun SplitSite	Servers supplied and configured, ready to deploy IT expertise recommend for deployment and maintenance High Availability or Fault Tolerant option Use in conjunction with SplitSite Small to large Command Centre installation		Stratus everRun®