



DIGITAL REALTY TRUST

SYMMETRY™ MANAGES ACCESS, VIDEO AND BUILDING AUTOMATION

Digital Realty Trust, Inc. is the world's largest wholesale data center provider. The company provides Turn-Key data centre™ and Powered Base Building™ data centre solutions for domestic and international customers across a variety of industries ranging from information technology and internet enterprises, to manufacturing and financial services. Digital Realty Trust's properties contain applications and operations critical to the day-to-day operations of both technology industry and corporate enterprise data centre customers.

Digital Realty Trust searched for an integrated building solution to apply to all projects. The components needed to include best-in-breed solutions from each area:

- Access control;
- Alarm monitoring;
- Digital video;
- Building management system;
- Monitoring system;
- Computerised maintenance and monitoring.

To undertake such a massive building project, Digital Realty Trust turned to SafirRosetti to help them create an integrated solution that would become the platform to control their facilities and provide centralised building management.

"We asked integrated security consultants SafirRosetti to put together a RFP to find the different providers and applications and asked that they work together to function as a single application rather than separate applications," said Ted Martin,

Vice President, Technical Operations, Digital Realty Trust. SafirRosetti is a full service consulting firm dedicated to assisting business, government and individuals develop and implement solutions for security challenges worldwide.

Several companies were asked to cooperate to provide a fully integrated platform for Digital Realty Trust. These include G4S Technology's Symmetry Security Management System (SMS) for Access Control and Digital Video Recording, Andover Controls Building Management System, Critical Point Monitoring System, and Equipment Pipeline's Computerised Maintenance and Monitoring System. The Symmetry SMS provides the integration platform for all the systems to work in a converged environment.

Symmetry SMS is installed at the Dallas Command Centre; however each building site controls its own server providing complete control at the local level. Symmetry intelligent controllers facilitate distributed processing among the sites.

G4S Technology's digital video solution, Symmetry Video, works with the SMS to provide a deeply integrated solution. G4S Technology's XML integration module allows Andover's Building Management System to seamlessly integrate with the onsite Symmetry SMS. Building Management events requiring security attention appear in Symmetry's Alarm Screen prompting action by security officers. Security officers view live cameras in a comprehensive video matrix that automatically enlarges camera views that are in an alarm state. The cameras automatically record based on priority events signaled by the security or building management system, catching critical events in real time.

Each lease owner manages the security/building management system and Symmetry's user friendly interface allows them to easily authorise, assign and change who has access to which areas of their facility.



"Symmetry is a good product that is solidly supported"

Visitors are managed via the visitor management module. Symmetry provides constant validation as to who has access, and that information is used to create custom reports. These reports are based on when and where card holders and visitors enter the building and pass through security portals.

The security officers manage the security side of the building platform. The security system monitors by exception. The system documents any "exceptions" and they are addressed. These exceptions are presented to the security officer as an alarm or event along with the associated video. If a critical piece of equipment goes into trouble mode, it will translate a critical alarm to the security system. The guard will notify the correct people to fix the problem. In the event of a security alarm, security officers and building engineers both respond.

"We want security officers to be aware of alarms, but we also want our building engineers to respond if we had an alarm on a critical piece of equipment," said Martin. "Several departments are responsible for responding to alarms to ensure that nothing slipped by or was not responded to."

Building engineers respond to all critical alarms, such as a generator system failure, but because there are some situations where they wanted both security officers and the engineers to respond, such as if somebody lifted an Emergency Power Off (EPO) button cover, that would immediately alert security and cameras would record whoever was tampering with that button.

Tampering with that button would result in losing all power in the computer room, therefore the engineers would be notified as well. During fire alarms, both security and building engineering are notified at the same time because they both have a separate function.

Digital Realty Trust has branded its integrated building solution: Critical Facilities Management™ System. "No other company has taken these applications and tried to seamlessly manipulate them as one system," said Martin.

Symmetry adds value to Digital RealtyTrust's Critical Facilities Management™ System. It allows Digital Realty Trust to use a single operator friendly interface to monitor access, video and building automation.

"One thing we do like about G4S Technology is we have the ability to replace any component that fails because you still make it. That was a big determination factor to selecting G4S Technology," said Martin. "Symmetry has a good reputation in the industry; you provide a good product that is solidly supported and integrates easily with multiple systems such as camera systems and DVRs, and for us that was really key."

About G4S Technology

G4S Technology is part of G4S plc, the world's leading international security solutions group.

G4S Technology provides fully integrated building security systems throughout the world, protecting everything from small offices and schools to large multi-national organisations and high security Government facilities. G4S Technology has been providing unified security solutions for over 30 years, delivering 30,000 systems across 80 countries, to mitigate risk and protect staff, premises and assets.



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