Case Study

infrastructure protection

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"The TZ Praetorian System effectively renders each cabinet a self-contained, monitored and secure environment."

Before 2011, the City of New York's Department of Information Technology and Communications (DoITT) operated more than 50 unique data centers that evolved in a fragmented way across more than four dozen entities – with many lacking the fundamental capabilities such as 24x7 support, fire suppression, disaster recovery and security planning.

The New York Citywide IT Infrastructure Services Program, known as CITIServ, was implemented to modernize and optimize the city's IT infrastructure environment by consolidating data centers, reducing the city's infrastructure footprint and providing a unified set of shared services to a broad range of city entities.

The IT centralized infrastructure created through CITIServ allowed the city to centralise the technology infrastructure of more than a dozen agencies over the next year, and that of

more than 50 agencies over the five years after than saving millions of dollars in that period alone. The city also opened a new 18,000-square-foot data center in Downtown Brooklyn to fortify the city's shared services environment to meet many city agencies' IT needs – including modern, secure, reliable, redundant and green services at reduced costs.

In order to realize the full benefits and cost savings of a shared services environment, equipment cabinets and infrastructure needed to be located in large open spaces to optimize the performance of air handling systems and environmental conditions. In addition, to optimize space and cost savings in the new data center, the design also needed to avoid the use of separated rooms or "caged suites", which can typically waste 15 to 20% of floor space through inefficient cabinet row layout. This however, creates a real security issue.
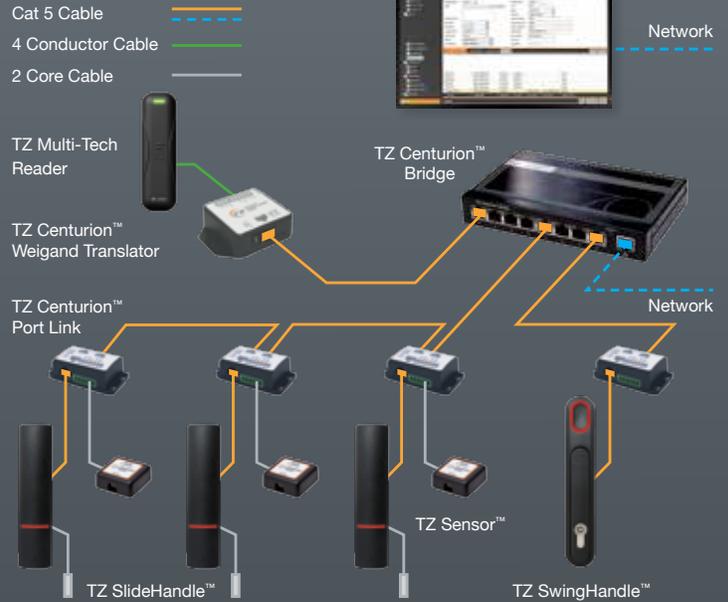
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TZ Centurion™ Server

TZ Centurion™ Bridge

TZ SlideHandle™

TZ SwingHandle™

Centurion System

Cat 5 Cable
4 Conductor Cable
2 Core Cable

TZ Centurion™ Server

Network

TZ Multi-Tech Reader

TZ Centurion™ Weigand Translator

TZ Centurion™ Bridge

Network

TZ Centurion™ Port Link

TZ Sensor™

TZ SlideHandle™

TZ SwingHandle™

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Mayor Bloomberg officially opening the new DC, TZ IXP Equipment in foreground.
Photo credit: Edward Reed

In the post-September-11 era, as security considerations are of the utmost importance in protecting the city's infrastructure, the city's DoITT chose TZ's IXP micro-security solutions as a critical measure in safeguarding confidentiality and shared access within its new data center facility. The TZ Praetorian System interfaced with a third-party building access control system to extend the electronic access control system beyond the perimeter door right down to the individual cabinets which were secured with TZ SlideHandles.

The TZ Praetorian System effectively renders each cabinet a self-contained, monitored and secure environment. The TZ Praetorian Junction and Trigger Box bridge the gap between the TIA - regulated structured cabling environment of the data center to the unstructured cabling environment of typical building access control systems.

The deployment of the TZ Praetorian System within the CITIServe shared services environment has significantly contributed to the achievement of several of the project's publically stated objectives;

> Generate significant cost savings

> Improve overall IT service quality for the agencies

> Improve space rationalization across facilities

> Strengthen physical and data security controls

CITIServ

The New York Citywide IT Infrastructure Services Program, known as CITIServ, is a program to modernise and optimise the city's IT infrastructure environment by consolidating disparate data centers, reducing the New York City's infrastructure footprint and providing a unified set of shared services to a broad range of city entities.

CITIServ increases inter-agency data sharing, and allows for more effective collaboration to better serve the city's many businesses, visitors and residents.

For more information about CITIServ, visit: http://www.nyc.gov/html/doitt/html/citywide/citiserv. shtml