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ICT Infrastructure

Malta's most capable host for the world's digital operations.



A joint venture between SmartCity and the Government of Malta

SmartCity Malta ICT Infrastructure - unmatched capability in hosting digital operations from around the world.

In a critical move to fulfill its vision of enriching the knowledge economy of Malta, SmartCity Malta is implementing the most advanced and reliable ICT infrastructure available in the country today. Through a progressive integration of technology and services, SmartCity Malta has developed the ICT Infrastructure concept to meet the technical demands of mission critical digital operations.

SmartCity Malta ICT infrastructure concept

Built-in core telecom IP network

Multi-homed fiber network to doorstep

Most secured & sufficient power supply in Malta

Unified central campus & building management

On-site technical support

Business Partner Benefits

Most capable in Malta for digital operations

- Suitable location for mission critical operations - Datacenter, Satellite Teleport, Disaster Recovery Center and Bandwidth Hungry Operations
- Hosting facilities available

Innovation at work

- Central campus management system for individualized services
- Infrastructure ready for upcoming ICT services - IPTV, Utility Computing, Unified Communication & Teleconferencing

Significant cost savings

- Minimal setup costs
- Built in core telecom (IP Network)
- Office integrated to central BMS
- Interactive IP telephone services
- Energy consumption efficiency (LEED)

Enhanced security & safety

- 24/7 centralized access control & CCTV monitoring by manned security
- Integrated safety and security systems

Assured business continuity

- Fully redundant telecom and power sources
- On-campus power and telecom distribution centers
- On-site technical support



Most capable in Malta to facilitate digital operations

The online sector is becoming increasingly competitive. As a result the technical requirements of businesses in this field are constantly increasing. As a frontrunner in the field of infrastructure development, SmartCity Malta is fully capable of delivering on these unprecedented demands.

- All business partners at SmartCity Malta gain access to the Metro Ethernet network, which enables a high bandwidth of up to 1GB and a secure remote connection.
- Multiple network connections between telecom operators and SmartCity Malta network distribution center ensure seamless online operations, even if one connection fails.
- SmartCity Malta offers the most reliable power connection in Malta. SmartCity Malta has its own large scale power distribution center that is fed with 33kV power from two sources via a dedicated protected tunnel. This provides both high capacity and redundancy for use during peak periods and unforeseen power cuts from Malta's main power station. At building level a full-power generator provides the third level of power redundancy.
- The network and power distribution centers are connected to all buildings in SmartCity Malta via the campus culvert - the walkthrough service tunnel.

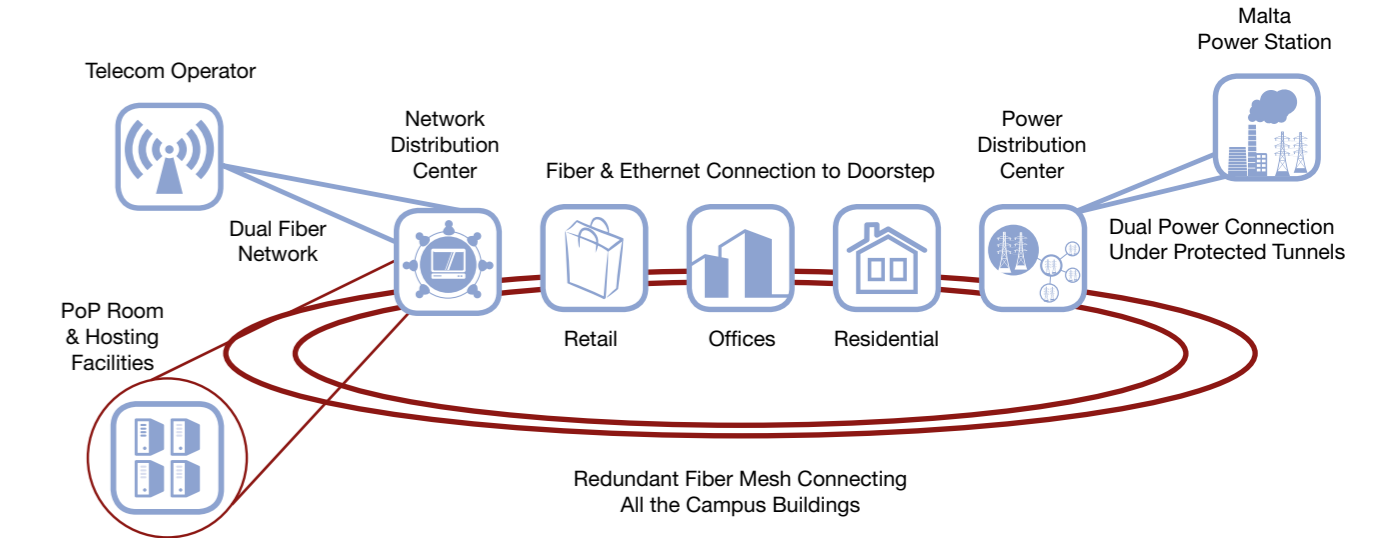
With its strong capability, SmartCity Malta is an ideal location for mission critical ICT operations such as data centers, satellite teleports and disaster recovery centers.

Innovation at work

Innovative technology is dramatically transforming the way we live and work. Not every workplace, however, has the capacity to embrace such innovation. But at SmartCity Malta we always think ahead.

- SmartCity Malta has its own network distribution center. This minimizes the potential of a bottleneck between service providers and end-users. Business partners and residents at SmartCity Malta are the first to enjoy bandwidth hungry services such as cloud computing, High Definition & 3D TV and high quality VOIP.
- SmartCity Malta's fully unified campus management and its single access card systems recognize individual companies and even people in order to offer a personalized service.
- Access to company information over the phone, use of one phone number over multiple devices, voice interaction with emails, and video communication are all a way of life at SmartCity Malta, which is made possible through its own ready-built platform complemented by on-campus support.

Overview of ICT Infrastructure of SmartCity Malta



Significant cost savings

SmartCity Malta's heavy investment in reliable infrastructure offers business partners significant cost savings.

- The ready-made infrastructure at SmartCity Malta eliminates set-up costs of fiber optic cabling and specific active equipment for the Metro Ethernet. In addition it dramatically reduces telecom expenses.
- Business partners can run their office automation system from the central campus system, eliminating set-up and operation overhead.
- Power consumption at SmartCity Malta is greatly reduced. Integrated with SmartCity Malta's central campus system, lights and ACs are centrally monitored and controlled, ensuring that no power is wasted after working hours and over weekends. In addition the buildings at SmartCity Malta are all LEED certified, adhering to strict international standards for energy efficiency.

Enhanced security and safety

Security and safety levels are greatly enhanced at SmartCity Malta.

- The fire detection system is activated throughout every building and linked with the access control system. Elevators and sprinklers in turn are monitored through the central campus management system.
- Employees are only able to enter buildings after authenticating their identity through the SmartCity Malta access control system. All buildings are also monitored 24/7 by security personnel.

Assured business continuity

Redundancy in infrastructure forms the basis of risk preemption, and this is the foundation on which the SmartCity Malta campus was conceived.

- As far as telecom connectivity is concerned, the campus' telecom distribution center connects to the telecom operator's network via two separate fiber roots, enhancing availability. In addition two fiber lines and multiple Ethernet cables connect each and every office.
- The redundant power sources are connected to SmartCity Malta via dedicated tunnels in order to avoid any interruptions. Buildings are then powered by two transformers located within the campus power distribution center. Each building also has its own generators that will act as an emergency power source to avoid any downtime. Inside each building, the power will be distributed via a bus-bar system. This type of system confines the impact of an electrical fault to a specific unit, preventing a power cut from affecting the entire building.