CQUniversity Security and

CCTV Specification Standards

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Version	Issue Date	Nature of Amendment	By
0.1	24/09/15	Initial draft	DM
0.5	07/04/16	New template	MS
0.8	23/05/16	Added detail	MS
1.0	28/07/17	Updated specifications	DM
2.1	25/09/17	Minor updates 2.1 & 2.2	KP
2.2	15/05/18	Updated specification	KP

1 CQUniversity Standards

CQUniversity has an existing security and closed circuit television (CCTV) infrastructure across multiple sites around Australia. The standards and specifications outlined within this document are designed to enhance the security and safety of the University.

To reduce the complexity and improve the overall performance of security services, each new installation or upgrade shall follow the specifications outlined below to ensure compatibility and connectivity to the University's central security monitoring centre in Rockhampton.

2 Approved Equipment

The equipment listed below has undergone a systems testing process and has been selected based on performance, appropriateness and compatibility with existing equipment and services.

2.1 Alarm and Access Control Equipment

The following list of equipment has been verified and approved for use on CQUniversity sites -

- Inner Range Concept 3000/4000 with 512K Chip.
- Ethernet UART Card.
- Permaconn PM45 dual sim out station radio dialler.
- Inner Range Insight Panel Connection Licence.
- Inner Range Concept 3000/4000 Ivory Terminal (Keypad).
- Inner Range Concept 3000/4000 Intelligent 4 door and 2 door controllers.
- Inner Range Concept 3000/4000 Universal Expander.
- HID proxpoint plus 6005, 26bit Weigand Readers.
- HID, 26 Bit Weigand access card with site code 200 card numbers (sequence details to be confirmed by CQUniversity Security before ordering).
- Dual element (or equivalent) intrusion detectors.
- Ademco 267R, stainless steel cover, hold up button (duress)
- HID, 26 Bit Weigand access card with site code 88 card numbers to be provided by Centech Security upon request.

Please note the following points when supplying and installing alarm or access control equipment on CQUniversity sites -

- All Inner Range Concept 3000/4000 systems shall be connected to the CQUniversity Security Network and report all events to CQUniversity Insight Server.
- All Permaconn PM45 4G units shall be polled on the radio data communications network by a CQUniversity authorised representative.
- Inner Range Concept 3000/4000 System installations shall report all intruder, duress and system alarms to the CQUniversity CAMS 9 monitoring software in Rockhampton. A CAMS 9 qualified integrator will be required to complete the integration. Alternatively, the successful contractor shall engage CENTECH SECURITY or SURETEK to programme data if contractor is not CAMS 9 qualified Integrator.

2.2 CCTV Equipment

The following list of equipment has been verified and approved for use on CQUniversity sites -

- Exacq Vision genuine 4U Rack mount NVR with Exacq Vision Pro Software.

- Exacq Vision Camera connection licence (per camera and not starter licence).
- HIK Vision DS-2CD2742FWD-IZ, 8MP 2.8-12mm motorized lens IR Dome camera with wall bracket where required.
- HIK Vision HIK-2DF7286-AEL, 2amp IR outdoor PTZ camera with HIK-16027J and HIK-16027J-Pole (where required).
- Required storage space (HDD Internet), site dependent – minimum 12 weeks per camera.
- All cameras are to be setup for motion detection recording only (8fps with an image quality of 10).

Please note the following points when supplying and installing alarm or access control equipment on CQUniversity sites -

- The Exacq Vision Server shall be connected to the CQ University Security Network and report to Exacq Vision workstation in Rockhampton.
- No remote sites will have a monitor connected to the Exacq Vision servicer unless authorised by CQUniversity's Directorate of Facilities Management.
- No remote sites will have a workstation for the security or CCTV System unless authorised prior by CQUniversity's Directorate of Facilities Management.

If the remote site requires (and has been authorised to have) a workstation or monitor, the following conditions apply -

- A low level user shall be created for the workstation with the ability view only that sites CCTV images.
- Access shall be limited to live view only. The local site user account shall not have any controls (pan, zoom, tilt etc.) on any security or CCTV systems.

3 Installation Process and Documentation Deliverables

As CQUniversity has already established Local and Wide Area Networks to all of its sites, contractors should make contact with the Information and Technology Directorate's Data Centre Team to obtain information on the following –

- IP Address allocations for all equipment.
- Switch port allocation – Contractors will generally not be required to supply additional switches. CQUniversity has a separate and secure network (vLAN 504) provisioned to all sites for security related equipment.
- Switch port configuration – The Data Centre Team will ensure that the allocated switch ports are configured to the correct vLAN and will apply port security to ensure that only security equipment can be used on that port.

Upon completion of work, the contract will be required to submit back to the Directorate of Facilities Management and the Information and Technology Directorate, the following documentation –

- Design documentation – Including CAD or similar drawings indicating how the equipment is connected to the network and security servers etc.
- Device, data outlet, switch port and IP address information (in tabular format) for all equipment.
- Device configuration – All relevant information pertaining to how devices are configured. This includes (but is not limited to) all lock down rules, passwords and other access controls to all devices.

- **ALL devices** that allow remote connection, either via standard internet or device specific applications, need to be password secured with a complex password – they must not be left as the device defaults.

4 Other Relevant CQUniversity Standards

In addition to the requirements outlined within this document, CQUniversity has a number of other published information technology standards that need to be adhered to when installing security or access control systems. The published versions of these standards can be found on the internet at https://www.cqu.edu.au/about-us/structure/directorates/information-and-technology/ict-building-standards.

Particular attention should be taken to ensure that the details outlined within the CQUniversity Network Cabling Standards document are adhered to, to prevent additional work being required to bring installation work into line with the standard. In particular, the University has strict standards in relation to the installation of data cabling (both copper and fibre).