

4.3 Security

4.3.1 Cyber Security Risk Assessment (Summary)

A mini risk assessment was performed for Truelec's new HQ and Brisbane branch using the unit template (TVA Matrix).

It considered threats, vulnerabilities, impacts, and likelihoods across eight major information-security threats.

Assets included hardware, software, data, people, and processes; four key data assets were assessed.

Key Assets & Threats Evaluated

#	Threat Type	Vulnerability / Description	Asset Affected	Impact	Likelihood	Risk Level
1	Malware / Ransomware	Unpatched PCs or USB devices	CRM & HR Data	High	Medium	High
2	Phishing / Social Engineering	Staff may click malicious email links	Employee Credentials	High	High	High
3	Insider Threat	Disgruntled employee downloads client data	Project Files / CRM	High	Medium	High
4	Unsecured Wi-Fi Access	Weak or shared passwords on APs	HQ Wi-Fi Network	Medium	High	High
5	Data Loss / Hardware Failure	Single server point of failure	HR Records, CRM	High	Low	Medium
6	DDoS Attack on Public Website	No cloud WAF / rate-limit	Company Website	Medium	Medium	Medium
7	IoT Vulnerability	Default passwords on CCTV / RFID	IoT Feeds	Medium	Medium	Medium
8	Physical Damage / Power Loss	No UPS or backup generator	Servers & Routers	High	Low	Medium

Data Assets Considered

1. HR Employee Records (personal & payroll)
2. CRM Client Database (contact and project history)
3. Financial Accounting Data (Xero/ERP exports)
4. IoT Sensor & CCTV Footage (security feeds)

Among these, the CRM Client Database was rated Highest Risk due to its business sensitivity, exposure through remote VPN access, and susceptibility to phishing & malware.

4.3.2 Recommended Security Controls (NIST SP 800-53 Aligned)

Target Asset — CRM Client Database

The following three controls were selected as most effective for reducing risk:

Control ID	Control Name	Implementation in Truelec	Risk Reduced	User Impact / Disadvantage
AC-2	Account Management	<ul style="list-style-type: none">• Apply Role-Based Access Control (RBAC) on the CRM server.• Only authorised staff in Sales & Management groups can view client records.• Implemented via Windows AD integration on 48.12.0.0/24 (HQ Server Subnet).	Prevents unauthorised viewing or exfiltration of client data.	Users may need additional logins or approval for new access requests.
IA-2	Identification & Authentication (MFA)	<ul style="list-style-type: none">• Enforce Multi-Factor Authentication for all CRM logins (software token or SMS OTP).• Applies to HQ and remote VPN users.• Configured on CRM web portal and VPN gateway (router 48.40.0.3).	Stops credential-stuffing and phished-password attacks.	Slightly slower login; requires mobile device for OTP.
SC-28	Data Encryption at Rest	<ul style="list-style-type: none">• Enable AES-256 disk encryption on CRM VM and database storage volume.• Keys managed in Azure Key Vault if migrated to cloud.	Ensures stolen drives or backups cannot reveal client data.	Minor CPU overhead; admins must rotate keys securely.

Summary of Benefits

Together, these controls address confidentiality, integrity, and availability (CIA triad) principles, directly lowering the highest-rated risk from High to Low–Medium.