SECURING YOUR CYBERSPACE

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Doctorate from SSBM Geneva, Switzerland

MEET LINDA

- She just started her fashion e-commerce start-up six months ago and wants to ensure the security of her website.

- Her start-up is at an early stage, so she does not have enough funds to implement existing cyber security standards.

WHAT WILL SHE DO NOW?

MEET RAJ

- Raj runs a pharmaceutical manufacturing business and has faced ransomware attacks on a couple of computers.

- He wants to implement a good cybersecurity solution to protect against such attacks but lacks the right team and resources for it.

WHAT WILL HE DO NOW?

Problems Faced by SME or SMB Companies…

According to the NCSC, there is a **"ONE IN TWO"** chance of a cyber breach in the SME sector

43% OF Small Businesses
Are targeted by cybercriminals

60% OF Small Businesses
close their business within the next 6 months after undergoing successful cyber attack

SMBs REPRESENT

90% of Businesses

Generate **60–70%** of Employment

Contribute around **55%** of the GDP of developed economies.

* Small and Medium Business / Enterprise (SMB / SME)

Limitations to Implement…

LACK OF FUNDS

Less budget available to implement Large Number of Cybersecurity Controls proposed by existing standards

ROI

- Return on Investment is not prominently visible
- Business Value of Control Implementation not evident
- Available cybersecurity standards in market are generic for all business domains

LAGGING KNOWLEDGE

Lack of Knowledge to Implement Controls asked by Existing Cybersecurity Standards

Business Domain Specific Least Cybersecurity Controls Implementation (BDSLCCI) FRAMEWORK

Based on an internationally published research study.

One-stop solution with a listed end-to-end process to implement stepwise controls and the facility to undergo an online audit and get BDSLCCI certified.

www.BDSLCCI.com

WHY BDSLCCI

ONE STOP SHOP FOR ALL CYBERSECURITY NEEDS OF SME AND SMB COMPANIES

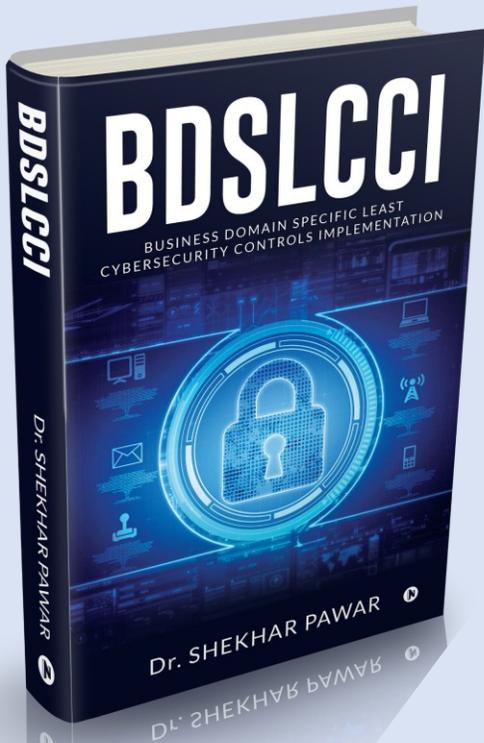Business goals in alignment with cybersecurity controls

Ease of Use

Easy to Implement

BDSLCCI Published

This cybersecurity framework has been published as a unique innovation in various research publications, books, and presentations at international conferences.

Research Paper to Elsevier's JJIMEI International Journal
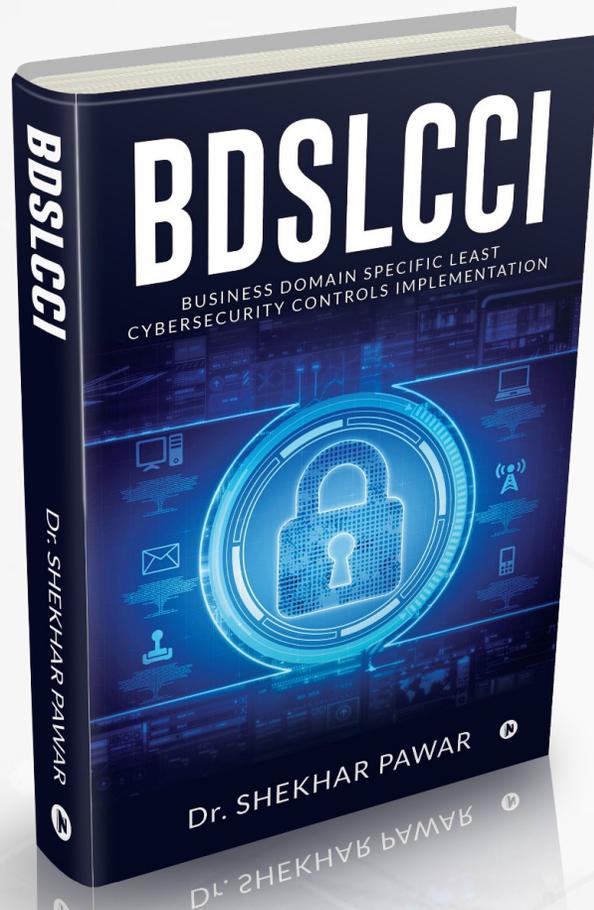https://www.sciencedirect.com/science/article/pii/S2667096822000234

BDSLCCI research has been published as a chapter of 33 pages in a **book by Emerald Publishing, UK**. Name of book: "**Smart Analytics, Artificial Intelligence and Sustainable Performance Management in a Global Digitalised Economy**". Title of the Chapter: "**Importance of Least Cybersecurity Controls for Small and Medium Enterprises (SMEs) for Better Global Digitalised Economy**".
https://www.emerald.com/insight/content/doi/10.1108/S1569-37592023000110B002/full/html

Book titled "**BDSLCCI**" is available in colour paperback print, kindle version and e-book format.

BDSLCCI published in various news papers:
https://bdslcci.com/BDSLCCINews

BDSLCCI Book Published

🛡️ **Read More:**
https://www.ssbm.ch/blog/ssbm-geneva-dba-alumni-tops-amazon-kindles-security-encryption-category-with-new-book/

BDSLCCI in 100's of Newspapers Worldwide

The BDSLCCI Cybersecurity Framework prevents Supply Chain Attacks securing Small and Medium Businesses (SMBs / SMEs) | Kalkine Media

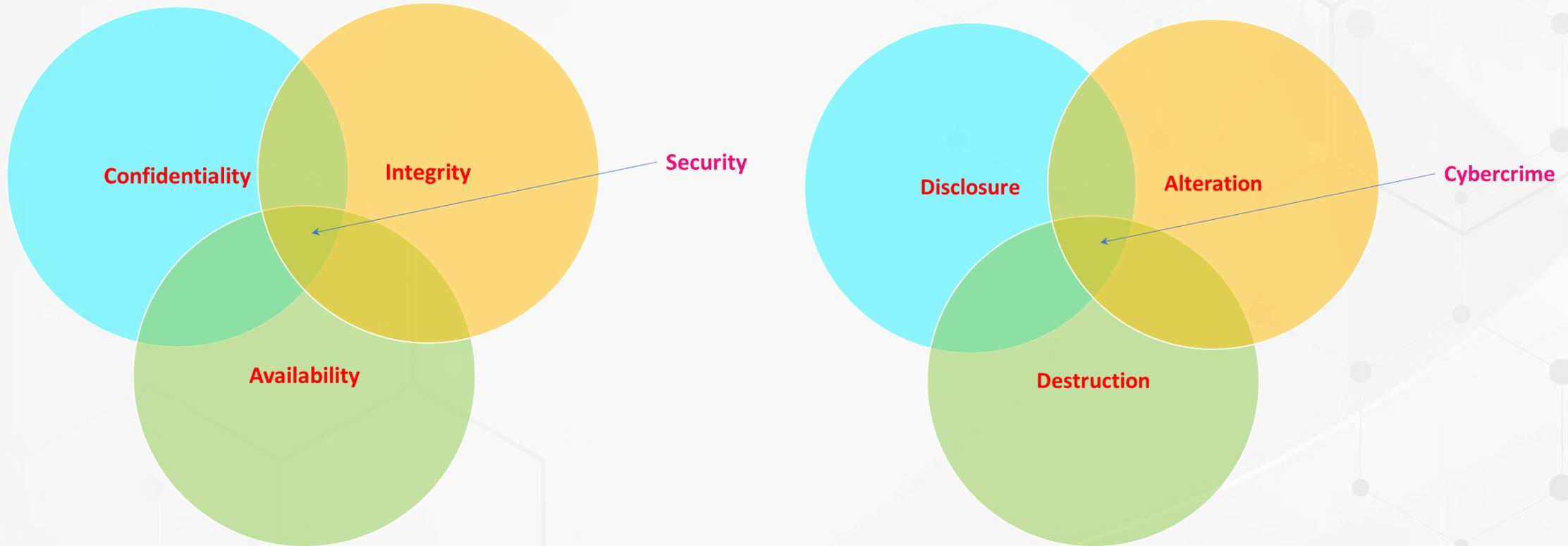BDSLCCI: Securing Small and Medium Enterprises (SMEs) Against Cyber Threats | The Financial Express

SecureClaw's BDSLCCI: A Cybersecurity Framework for Small and Medium-scale Businesses (SME/SMB)` (digitaljournal.com)

SecureClaw's BDSLCCI: A Cybersecurity Framework for Small and Medium-scale Businesses (SME/SMB)`, Business News - AsiaOne

BDSLCCI becoming the first Business Domain Specific Cybersecurity Framework to protect Small and Medium Enterprises (SMEs) from various Cyber Threats – ThePrint – ANIPressReleases

Revolutionizing Cybersecurity for Small and Medium Businesses: BDSLCCI Framework Offers Tailored Protection Against Ransomware Extortion (business-standard.com)

BDSLCCI Considers Mission Critical Asset's CIA

Confidentiality

Integrity

Security

Availability

Disclosure

Alteration

Cybercrime

Destruction

Confidentiality, Integrity, and Availability (CIA triad)

BDSLCCI AVAILABLE BUSINESS DOMAINS

Accounting	HR Consulting
Aggregator	Industrial Automation IIoT
Agriculture and Allied Activities	Information Security
Audit (Accounts)	Institute (School / College)
Audit (Other)	Insurance
Automation	IT Consulting
Banking, Financial Services and Insurance (BFSI)	Logistics
Call Center	Manufacturing
CCTV Installation	Maritime Services
Chemical	Marketing
Cloud Infra Provider	Marketing - Web Platform
Construction - Real Estate	Mining / Quarrying (Metal Ores, Coal, or Lignite)
Consulting	Pharmaceutical
Content Design	Product - Design
Distributor	Product - Security Access System
E-Commerce	Product Testing
E-Learning	Sales & Marketing
Electricity / Gas / Steam / Water Provider	Software - Product
End to End Smart Monitoring	Software - Reseller
Engineering Design	Software Development
Fast Moving Consumer Goods (FMCG)	Software Development - Cloud Infra Based
Financial Consulting	Software Platform
Financial Services	Storage and Warehousing
Food	Support
Healthcare	Telecommunication
Hotels and Restaurants	Trading

BDSLCCI AVAILABLE MISSION CRITICAL ASSETS

Wire Transfer	Online Shopping Portal	E-Learning Web Platform
Web Platform	Online Platform Supply Chain	Documentation
Unified Communications (UC) and Voice and Video over IP (VVoIP)	Online AI Driven Web Platform	Distributed Control System (DCS)
Trading Software	Network Access	Design Drawings
Temperature and Humidity Controller	Mobile App	Design Documents
Technical Knowledge	Medicine Formulae	Design Documentations
Supply Chain Network	Machines	Data on cloud
Supervisory Control and Data Acquisition (SCADA) System	Logistics Software Portal	Data Integrity
Student Data	Logistics Management Web Portal	Customer Designs
Source code	Loan Processing Application	Customer Database
Software with toleraable range	Line Operation	Customer Data
Software Technology Server	Integrated Software Source Code	Continuous Integration / Continuous Delivery (CI/CD)
Software Product	Installation after quality check	Connectivity to cloud
Software of sending bulk emails	Innovative Technology Design	Connectivity to cameras
Software	Industrial Control System / Operational Technology (ICS/OT)	Computer Numerical Control (CNC) - Vertical Machining Center (VMC)
Skilled Labour	Industrial Control System (ICS)	Computer Numerical Control (CNC) - Horizontal Machining Center (HMC)
Skilled Employees	HR Database	Cloud Platform
Security Product	HR Data	Clients Signed Documentation
Quality of Ingredients / Inputs	Hotel Web Portal	Client Product IP and Reports
Quality Control	Hotel Management Software	Chemical Formulae
Product Design	Hardware Data Integration	Call Center Infra Connectivity
Power to Hardware	Hardware	Audit Reports
Phone Systems	Formulation Software	API & Applications for Financial Transactions
Patient Database	Formula programmed in systems	Algorithm of Robot
Own Chipset	Formula of Beverage	Aggregator Web Platform
Ordering System Integration	Firmware	Accounting Software Database
Oprational Softwares	Financial Reports	3D modelling drawing
Operation Theather (OT) / ICU	ERP System (Tally, SAP, etc.)	

BDSLCCI Considers Defense in Depth (DiD)

Governance Layer

Human Layer

Physical / Logical Perimeter Layer

Network Layer

Host / Endpoint Layer

Application Layer

Data Layer
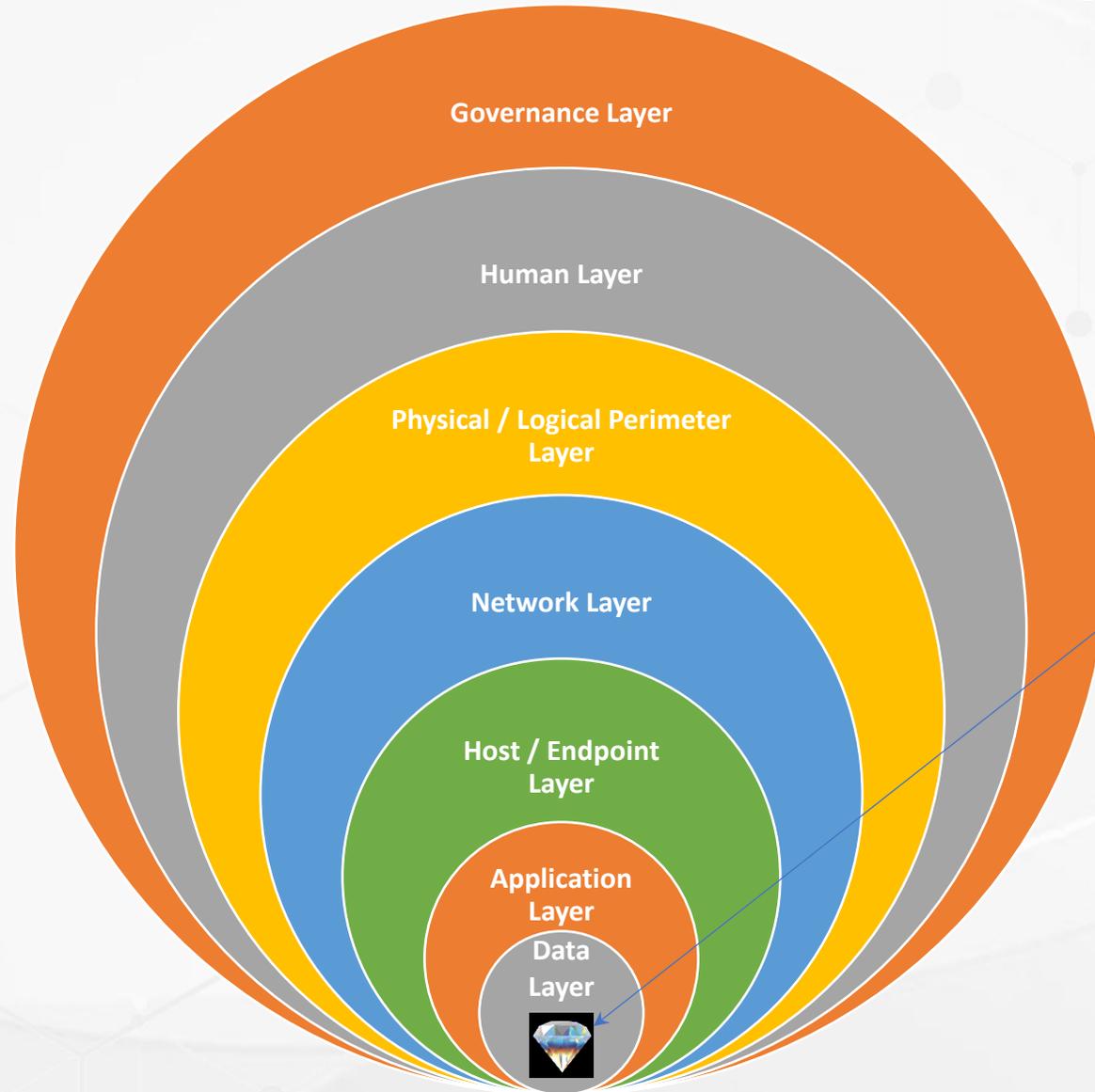
Mission Critical Asset (MCA)

BDSLCCI 3.0 Considers Defense in Depth (DiD)

Priority Sequence	Layer Name	BDSLCCI Level Contribution	List of Controls
1	Host/Endpoint Security Layer	BDSLCCI Level 1	1.1 - Host/Endpoint - Less Permission to Use 1.2 - Host/Endpoint - Endpoint Protection - Anti-Virus 1.3 - Host/Endpoint - Licensed Operating System (OS) 1.4 - Host/Endpoint - Block File Transfers 1.5 - Data - Encryption 1.6 - Data - Access control 1.7 - Data - Backup 1.8 - Data - Data Loss Prevention 1.9 - Data - Secure Deletion 1.10 - Human - Cybersecurity Awareness Training 1.11 - Human - Separation of Duties 1.12 - Human - Service Level Agreement (SLA) 1.13 - Human - Employee Background Check 1.14 - Human - Review Access Rights 1.15 - Human - Cyber Threat Alert Notifications 1.16 - Human - Cybersecurity Banners / Posters 1.17 - Human - Non Disclosure Agreement (NDA)
2	Data Security Layer		
3	Human Security Layer		
4	Network Security Layer	BDSLCCI Level 2	2.1 - Network - Network Firewall 2.2 - Network - Network Access Control 2.3 - Network - Remote Access VPN 2.4 - Network - Instruction Detection & Prevention Systems (IDPS) 2.5 - Application - OWASP Coding Practices 2.6 - Application - Application Hardening
5	Application Security Layer		
6	Physical Perimeter Security Layer	BDSLCCI Level 3	3.1 - Physical Perimeter - Locked and Dead-Bolted Steel Doors 3.2 - Physical Perimeter - Closed-Circuit Surveillance Cameras (CCTV) 3.3 - Physical Perimeter - Picture IDs 3.4 - Physical Perimeter - Security Guards / Proper Lighting / Biometrics / Environmental Control 3.5 - Governance - Incident Response Process 3.6 - Governance - Periodic Audit
7	Governance Security Layer		

BDSLCCI 3.0 DiD Mapping with Ransomware Threats

#	BDSLCCI DiD Layer Name	Social Engineering	RDP	Unpatched Software	Password Guessing	Credential Theft	Remote Server Attack	Third Party	USB
1	Host/Endpoint Security Layer			🟢		🟢	🟢		🟢
2	Data Security Layer					🟢		🟢	
3	Human Security Layer	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
4	Network Security Layer		🟢	🟢			🟢	🟢	
5	Application Security Layer			🟢	🟢	🟢		🟢	
6	Physical Perimeter Security Layer					🟢		🟢	
7	Governance Security Layer	🟡	🟡	🟡	🟡	🟡	🟡	🟢	🟡

🟢 Maximum security provided by controls in particular layer   🟡 Partial security provided by controls in particular layer

WHAT IS BDSLCCI CYBERSECURITY CERTIFICATION FOR SME/SMB?

PURPOSE

The purpose of the BDSLCCI cybersecurity framework is to provide tailored and stepwise cybersecurity control implementation specific to the needs of the business domain of SME or SMB companies, making it less costly, easier to adopt, and more aligned with the business goals of top management.

ACTIVITIES INVOLVED

- List of **tailored cybersecurity** controls
- Mapping of the cybersecurity controls for the specific prerequisite
- Level 1 to Level 3 stepwise controls implementation journey
- Downloading ready to use policies, posters etc.
- Online cybersecurity evidence sharing

PREREQUISITE

Business Domain and Mission Critical Asset Identification

OUTCOME

- Security Assessment Results:
  - BDSLCCI Achieved Level **Certificate**
  - **Transcript** of assessment
  - Assessment **Web Analytics Report** showing Coverage and Effectiveness of controls implemented

RECOMMENDED FREQUENCY

- **Yearly**
- BDSLCCI version changes as a result of analysis of latest cyber attack trends on yearly basis

BELOW ARE THE BENEFITS AFTER REGISTERING FOR BDSLCCI CERTIFICATION JOURNEY…

FREE SecureClaw Crawler

- An Endpoint Vulnerability Scanner which helps organization to identify gaps in the Endpoint Security.

FREE BDSLCCI Policy Documents

FREE Cyber Threat Email Notification Service

Cybersecurity Awareness Training for Employees

FREE Cybersecurity Posters

BDSLCCI Certificate, Transcript & Web Analytics Report as Deliverable after Audit phase

SecureClaw Crawler — Today's Alerts
CERT-In Warns of Akira Ransomware Menace

Cybercriminals deliver ransomware via malicious attachments

Recommendations:
- Keep Software and Operating Systems Updated
- Conduct Regular Malware Scans
- Exercise Caution with Email Attachments and Downloads
- Maintain Offline Backups
- Implement a Robust Password Policy

Don't let your company's secrets fall into the wrong hands

Remember, being an insider is a crime
Insider Threats recall that the Weakest Link in Cybersecurity is Humans

Recommendations:
- Support the implementation of security tools and procedures.
- Always follow cybersecurity rules.
- Informing management about suspected activity by other employees.

Phishing attacks account for 36% of all US data breaches

Scanned Complete

SAMPLE BDSLCCI CERTIFICATE

This is to certify that

Cybersecurity Implementation by

GrassDew Solutions

has been assessed in accordance with

the requirements of

BDSLCCI Version 2.0 (Level -1)

Issue Date: 4-Jan-2024
Valid Till: 3-Jan-2025

78E55AD9-EDAA-EE11-A2FB-9293173C7E1B

Director

Shekhar Pawar

www.SecureClaw.com | www.BDSLCCI.com

SAMPLE BDSLCCI TRANSCRIPT

TRANSCRIPT OF BDSLCCI AUDIT RECORDS

Company Name	GrassDew Solutions
Total Employees	12
Company Address	Navapada,Subhah Rd India Maharashtra Dombivli 421202
Certificate ID	78E55AD9-EDAA-EE11-A2FB-9293173C7E1B
Certificate Date	4-Jan-2024

List of Controls	Assessed	Total	BDSLCCI Level
DiD Controls	15	58	1
Design Drawings [1]	4	8	1

This transcript is for[1]:Manufacturing domain.
The result is based on the evidence obtained by the auditing team while conducting the BDSLCCI audit exercise.

ASSESSED CONTROLS : 19

RECOMMENDED CONTROLS : 66

Director

ACHIEVED BDSLCCI Version 2.0 LEVEL 1

Shekhar Pawar

SAMPLE ILLUSTRATION

SAMPLE BDSLCCI WEB ANALYTICAL REPORT

Our Vision

To help small and medium companies protect their businesses against cyber threats through the tailored implementation of controls for business domain needs with low investment and the safety of people as a priority.

Our Mission

To create a better cybersecurity posture for small and medium companies (SME/SMB).

SecureClaw's BDSLCCI and Key Cybersecurity Services

BDSLCCI FRAMEWORK

01

Cybersecurity certification designed for small and medium sized companies (SMB/SME)

CODE SECURITY REVIEW

03

Static Application Security Testing (SAST)

ASSESSMENTS & AUDITS

02

Cybersecurity technical/process audits, consulting services

VIRTUAL CISO

04

Cybersecurity role outsourcing services

Why BDSLCCI ?

Competition	Business's Domain Specific	Number of Controls	Coverage	Typical Assessment Cost	Free Process Documentation	FREE Cyber Threat Alerts	Online Audit	Online Certification	Revised Version
BDSLCCI	✓	15-40	"Almost All" Mission Critical Assets (MCA) and overall Defense in Depth (DiD) *	Depends on controls	✓	✓	✓	✓	Yearly
ISO 27001	✗	93-125	"Information" as an Asset **	starts at $15,000	✗	✗	✗	✗	6 Yearly
NIST SP 800-53	✗	900+	"Critical Infrastructure" as Assets ***	starts at $30,000	✗	✗	✗	✗	4 Yearly

* https://www.sciencedirect.com/science/article/pii/S2667096822000234
** https://www.iso.org/isoiec-27001-information-security.html
*** https://csrc.nist.gov/glossary/term/critical_infrastructure

DR. SHEKHAR PAWAR

BDSLCCI is the first flexible cybersecurity framework that provides tailored cybersecurity as per business need. It is the outcome of international research studies.

Customer Testimonials

RISHI CONSULTANCY SHARING THEIR FEEDBACK OF BDSLCCI LEVEL 3 CERTIFICATION JOURNEY!

Hrishikesh Dalavi
Owner, Rishi Consultancy

CLIENT REVIEW

Customer Testimonials

Mr. Naresh Purswani

Founder & Director

TRITORC EQUIPMENTS PRIVATE LIMITED

"Since 1991, Tritorc has had a progressive history of 25 years in the field of bolting tools. As the largely manufacturing-based firm that we are, we constantly gear towards engineering the finest products available. We came across the BDSLCCI cybersecurity framework, which has helped not only to protect the data and information of our organization, but the cybersecurity controls they have designed are even protecting our product design and CNC machines.

Controls provided through the BDSLCCI framework are easy to understand and implement. They have a very good step-by-step journey designed through their web tool; it helped a lot. The team that designed this appears to be very knowledgeable. The controls BDSLCCI asked to implement make more sense, as they are talking about protecting the manufacturing domain when it comes to Tritorc. Additionally, BDSLCCI provided free sample policies, an email threat notification service, and security awareness posters. We feel more secure now that we are BDSLCCI-certified."

Summary

We are setting out with the mission to create a world-class, easy-to-use cybersecurity framework that helps SME or SMB COMPANIES worldwide and protects businesses.

THANK YOU

DR. SHEKHAR PAWAR
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www.BDSLCCI.com   www.SecureClaw.com

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