



Robotics for GRC

Meet Your New Tech Risk Manager





Nirma spearheads the Information Risk Management vertical at ANB. With more than 20 years of experience in Audits, IRM, Cyber Security and Consulting, she has lead teams in various engagements for large Banking & Financial Services companies, Telecom and other industries. She works with regulatory audits prescribed by RBI, NESA, MAS, etc.

She leads the Tech GRC automation vertical implementation for global clients and is actively involved in development of the 'Governance through Robotics' platform.



Multi Locational

- Multi-locational servicing capability with offices in India, Dubai, London and Nairobi.
- Servicing clients in 25+ countries across SE Asia, Middle east and Africa.

🤽 Multi Industry expertise

- Telecom, Media and Technology
- Banking, Insurance and Financial Services
- IT and ITES
- Manufacturing, Pharma and others

Automation focused

- drut | Unified GRC automation platform enabling data collection, analytics and dashboarding
- Inherent OCR engine
- Low code BOT creator for connecting to different systems

Multi-skilled Team

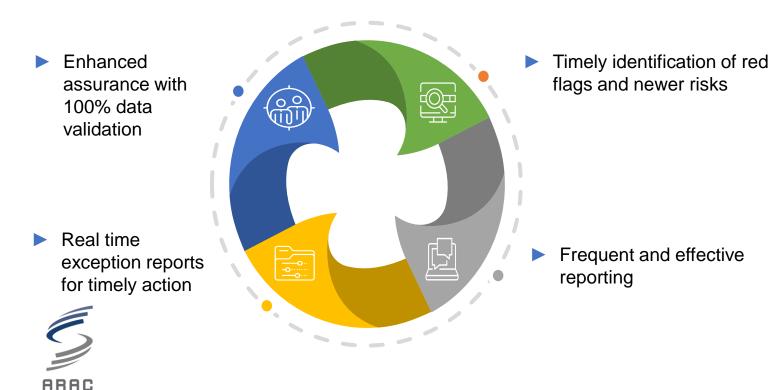
- Multi skilled team comprising Chartered Accountants, Bankers, IT experts, MBAs, CISAs, Engineers, Lawyers, etc.
- Multilingual resources across various countries
- Resources with specific Industry/ domain expertise



enhanced expectations from the IA function

Internal auditing is an independent, objective assurance and consulting activity **designed to add value** and improve an organization's operations. It helps an organization accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control, and governance processes.

The management now needs



How internal auditors are attempting to 'value add':

- Automated control monitoring
- Design adequacy review for transformational projects and digitization
- Identification of cost saving opportunities



Automation is Imperative

- Automation transforms legacy processes and drives digital transformation.
- RPA has been a main strategy for many business functions to drive efficiency at optimal costs including Governance, Risk, and Compliance (GRC).
- ▶ GRC is a diverse and inter-reliant function intended to manage regulatory requirements.
- ▶ RPA-based automation of GRC ensures efficiency and increase transparency and accountability.
- RPA-based GRC automation helps
 - assess assets,
 - manage policies,
 - proactively handles risks,
 - establish control mechanisms,
 - perform audits of all GRC activities.





Why Robotics for GRC?

Audit and Manage Risk Proactively

- Continuously risk assessments
- Monitoring the IT/IS operations

Effective Board Reporting

- Transparency to stakeholders
- Improved governance results



Incorporate Regulatory and Compliance issues

- Country / Industry specific security and privacy laws
- Compliance Frameworks

The average cost of compliance is \$5.47 million versus an average of \$14.82 million for noncompliance, which is an average difference of \$9.35 million annually

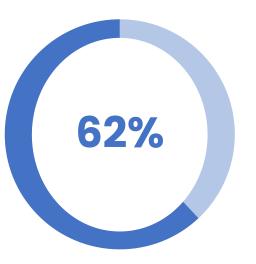
Consistence Business Process

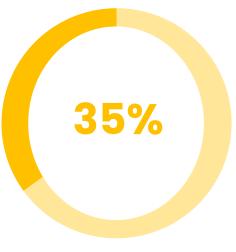
- Virtual execution across geographies
- Across functions, processes and applications





GRC Trends





Organisation use software to monitors IT security controls and reports on compliance posture

Organizations have evaluating software for risk and compliance monitoring in 2023 Organisation having integrated tools with both manual and automated processes did not experience a breach in 2022

68%



Organisation who had risk and compliance activities integrated together did not experience a





GRC Objectives Achieved



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Challenges

data collection



- Manual and error prone extraction
- Time consuming for repeated follow ups
- Data integrity/ completeness issues

data analytics



- High manual involvement
- User expertise required for query building
- Single functionality querying capability



- High manual involvement
- ► Time consuming
- User dependent for every

audit





Average time spent each week on Duplication of Task

USA 4 hr 55 mins UK & Germany 5 hrs 58

Middle East 4 hr 48 mins



Australia and New Zealand 5 hr 87 mins

 85 % of risk and compliance management team spends at least 1/3 or more of their time at work on repetitive tasks.

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Single Stream – Integrated Platform

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Unified Approach

data collection



- **Customized system** connectors for auto-extraction of standard reports
- Back-end generated data imported from shared path
- Connectors for all prominent systems
- **One-time rule** creation for data extraction

automated analytics



- **One-time** configuration of data processing rules and sequence
- Data processing rules can be set up through low code front-end query builder
- **Complex data** processing scenarios can be set up using Python, SQL etc.

reporting



- Auto-mailers of exceptions to stakeholders
- Updating exceptions in relevant application /BI
- Auto-generation of **MIS for exceptions**

case management



- **Exceptions** validated and approved by the activity owner
- Approvals by process owner and auditor / reviewer
- Tracking of exceptions, closure timelines, and evidences through 'open issue' tracker

typical features

- Integrated system offering automated data collection, data processing and visualisation including **Risk libraries**
- Minimal coding required for BOT building for data collection and rule building for data processing
- Multiple dashboarding capabilities for visualisation of output



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Deep Integrations



Deep Integrations – Controls Validated

DOMAIN	RCM	AUTOMATED CONTROLS	Drut. Works With		
Access Management	16	11	Windows Active Directory		
Antivirus Controls	14	14	Trend Micro, Symantec, Windows Defender, ESET		
Asset Management	16	5	Manage Engine		
Change Management Controls	27	11	Jira, Remedy, Manage Engine, Service Now		
Endpoint Security	12	6	Bit Locker		
Firewall Rule Review	10	8	Fortigate, Cisco, Nokia		
Incident Management	14	6	Jira, Remedy, Manage Engine		
Network Management	9	3	Forescout, TACACS		
Mobile Device management	14	3	MAS 360		
Patch Management	6	5	Landesk		
Privileged User ID Management	21	5	ARCOS, IRAJE		
SIEM Logging & Monitoring	4	2	AISAAC, IBM Qradar		
Vulnerability Management	6	3	Nessus		

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Continuous Compliance Monitoring

- Companies are shifting their attention to improve their security postures by using various frameworks clearly the current security compliance posture
- Managing multiple frameworks is time-consuming, repetitive tasks
- Automation of GRC Technology allows management of multiple frameworks to be more streamlined and simplified,







Tech Risk | Mapped to Compliances

Area	Controls	ISO 27001	NESA	ADHICS	PCI DSS
Access Control /Active	Review of terminated/resigned users, active in	A.5.15	M 4.4.3	AC2.1	8.2.5
Directory	the system				
	Delay in disabling terminated / resigned users	A.5.16	T5.2.1	HR 4.1	8.2.5
	User Accounts with password never expires	A.5.17	T5.5.3		8.3.9
	Deviation in password change date from the policy	A.5.17	T5.5.3		8.3.9
	Rename Default Administration Account	A.8.9	T5.2.2		2.2.2
	Review of dormant accounts	A.5.16	T5.2.1	AC4.1	8.2.6
	User account configured without password	A.5.17	T5.5.3		8.3.9
Antivirus	Antivirus Installed on all systems	A.8.7	T3.4.1	OM4.1.2	
	Antvirus Updated on all systems	A.8.7	T3.4.1	OM4.1.3	5.3.1
	Antivirus Scan last run all systems/ deviation	A.8.7	T3.4.1	OM 4.1.5	5.3.2
	from policy				
Patch Management	Patch Management solution installed on all	A.8.8	T7.7.1	OM 6.5.1	6.3.3
	system				
	Patch Update on all system	A.8.8	T7.7.1	OM 6.5.3	6.3.2
Endpoint	Disk Encryption on all Laptops	A.8.1	T5.7.1		
	Network Access Control Solution Integration	A.8.1	T 5.4.3	CM 5.1.5	1.3
Incident Management	Each Incident is classified and has priority	A.5.24	T8.2.3	IM 2.3	
	assigned				
	Each Closed Incident has an RCA	A.5.24	T8.2.2		
	Incident Escalation is done has be escalation	A. 5.24	T8.2.1		
	matrix				
	Incident SLA/ TAT has maintained	A. 5.24	T8.2.1	3.11.2	12.10.1
SIEM /SOC	Intergration of all systems wih SIEM	A.8.15	T3.6.3	OM6.2	10.2.1
	System intergrated with SIEM but not sending	A.8.15	T3.6.3		
	logs				

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case study 1 | automation of firewall rules review

1000+ man days 0.2 Million + Firewall 200 + Firewalls saved annually **Rules Validated** 10 controls each THE PROBLEM Query design **Requirement Review** Detailed walkthrough to Different makes Customized bot creation to capture different firewall massage data from various and models of IT makes and model firewalls, consolidate as per predefined logic and Telecom **Firewalls Technical** customization Setting up different Time consuming customized platform for data collection from validation due to requisite sources huge data size Deployment Input Data Identification Validation by the Identification of firewall Technical team, and input for various types sign off of firewall

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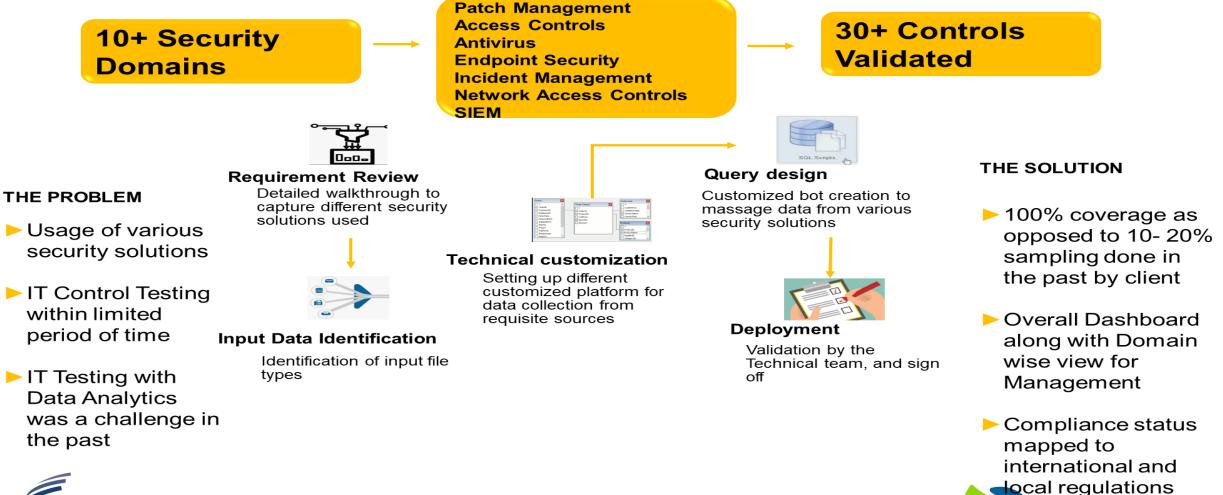
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- 100% firewalls covered as opposed to 10-20 sample firewall reviewed previously by client
- Entire implementation completed in three weeks and
- 3-4 mins per controls
- Limited manual intervention and accurate reporting

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case study 2 | automation of security controls validation



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case study 3 | automation of SAP access & SOD controls

1500+ Users

70 + Functions 500+ Roles 200+ Custom T Codes 152+ SOD Controls Validated 50+ Exception



Requirement Review Detailed walkthrough to understand SOD in Organisation



Technical customization

Setting up data collection from requisite sources

Time consuming validation due to huge data size

THE PROBLEM

Environment

Complex

Validation of SOD was a challenge in the past



Input Data Identification

Identification of input file types

Query design

Customized bot creation to massage data as pre-defined logic



Deployment

Validation by the Technical team, and sign off

THE SOLUTION

- 100% coverage as opposed to review of only sample critical SOD cases
- Identified policy violations, access to sensitive information



GRC Automation | what does it simply do

- Ensuring comprehensiveness of controls being monitored
- Factoring in any new and emerging risk scenarios
- Determining frequency of control monitoring as per evolving risks
- Sample testing of configuration accuracy on the automation platforms
- Auditing adequacy of action taken on the risk flags identified
- Continued focus on non-automatable controls





Establishment of RPA as a Centre of Excellence (CoE)

- ▶ 57% of organizations are expect to spend more time on risk compliance management.
- 63% of organisation are expect to spend more money on IT compliance and risk management
- 20% of companies will have more than 95% visibility of all their assets, which will be prioritized by risk and control coverage by implementing cyber asset attack surface management
- Popularity of RPA as a Service Model (RPAaaS)
- Marketplace in RPA for new technology and cyber risk
- Hyper-automated RPA tools





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