

Name of Solution	Domain	Description
Advanced Biometric and RFID Access Monitoring Solutions	Access Control	<ol style="list-style-type: none"> 1. Data Registration Photograph, fingerprint and ID number are enrolled. The main access point entry and exit is confined to Finger Print + Card authentication 2. Hardware Installation 3. Integration and Customization phase 4. Training phase
Enterprise Application solutions	Enterprise Application solutions	<ul style="list-style-type: none"> --Securely and seamlessly implement data synchronization, functional application integration and business process optimization. --Link business process expertise with IT services --Utilize business impact framework to prioritize process transformation --Optimize Enterprise Resource Planning (ERP) --Reduce operating costs significantly --Have accesses to a wide range of tools and techniques including Enterprise Service Bus, Business Activity Monitoring, Software Oriented --Architecture and Business Process Management --ERP aids businesses adapt to a highly competent global business environment by providing increased agility and scalable growth
Intelligent key management system	access control	using keys containing signature electronic chips, rfids, electronic watermarks, etc.
ICT Aided Pro Agriculture Government Initiatives	agriculture	Improves Cost Efficiency , Implements Quick Decision Making,Optimizing Workflows and Processes
DocEncryptR Agriculture	Agriculture	Variegated color security background,Hidden image background,Visually variable ink,Copy-prevention watermarking,Cryptic verification key,UN Securty Invisible Image Technology,Fluorescent Fiber Secure,Warning Brands,Micro lettering.
Efficient Agriculture Administration Solutions	agriculture	Crop matrix and individualized crop program,Lab modules,Details of farmers,Soil details,Customized cropping program,Text Messaging and E-Mail integration,Biometric integration,Management Information Systems Reporting
ICT Aided Pro Agriculture Government Initiatives	agriculture	<ul style="list-style-type: none"> • Business Rules • Collaboration/Communication rules • Configurable Dashboards/reporting • Workflow Designer • Form Builder • Workflow Engine
Core Banking	banking	Ability to introduce new products on-the-fly, Real-time transaction processing, e-trade operations for customers, pre-configured and customizable, Integrated with existing business models and enterprises
Data Mining & money laundering trigger point monitoring	banking	fuzzy logic - interoperability - self evolving ai aided pattern recognition
e wallet centralized bill payment	banking	mobile phones and cash credits used for making payments with a centralized payment system
financial mgmt and account solutions	banking	accounting solutions, real time metrics, easy invoice generation, optimize cash management, ensure financial compliance etc.
City Eye	City Administration	all aspects of city administration via citizen friendly mobile app.
Centralised Parking Ticket Management	City Administration - Parking	Military grade smartphone - bluetooth printer - software - gps - photo capture - central server - sms -
Intelligent Public Distribution Solutions (I-PDS)	City Administration - Parking	<p>Prevents leakages in the public distribution systems., Ensures that the entire stock of food reaches end-users., Averts illegal sales of unutilized commodities., Checks malpractices by fair price shops when consumers do not utilize their full quota., Ascertains sales of quality food commodities at fair price shops.</p>
Digital birth / death registration system	City Administration - Parking	<ul style="list-style-type: none"> • Registration & Records Database Management, • Collaborative Reports for census and other governmental organizations, • User friendly Interface for easy registration for the general public
Automated Public Utility Redistribution & Management System	City Administration - Public Utility	<ol style="list-style-type: none"> 1. Procurement, Refining & Redistribution 2. Monitoring and Archiving 3. Bill Payment
E – Tax Filing	City Administration -E – Tax	<ol style="list-style-type: none"> 1. A User-Friendly Interface 2. Efficient Data Base Storage Management 3. Intelligent Computing Mechanism

automated payment collection for govt. agencies	City Administration -E – Tax	multiple id systems to validate different bank notes, self service payment system, lcd kiosk
Integrated Parking Administration System	City Administration -Parking	<ol style="list-style-type: none"> 1. Registration Module 2. Area and Rate Specification Module 3. Report and Statistics Generation Module
Railway Operations Management	City Administration -Railway	<ol style="list-style-type: none"> 1. User Friendly E-ticketing portal 2. Optimized traffic planning, route control and scheduling tool 3. Centralized power supply and infrastructure management 4. Database to record train, passenger and freight information 5. Maintenance support and Crisis response
Taxi and Rented Car Licensing System	City Administration -Transportation	<ol style="list-style-type: none"> 1. GPS Device Integration 2. Central Monitoring Network 3. Automated Licence Generation 4. Fare Computation System
Port Management and Freight Movement Control Suite	City Administration -Transportation	<ol style="list-style-type: none"> 1. Strategy Customization 2. Operations Management 3. Monitoring and Review 4. Emergency Response 5. Maintenance
Cloud Computing	Cloud Computing	Software as a Service (SaaS) Platform as a Service (PaaS) Infrastructure as a Service (IaaS)
Disaster response and emergency mgmt	crisis management	Centralized Information Database, Dynamic Map integration Module, Integrated Mobile Technology, Alerting Service & Communication Tool , Network Infrastructure system
Fire Department Management System	crisis management	<ol style="list-style-type: none"> 1. A Fire Personnel and Asset Management database 2. A CAD integrated 3d projection tool 3. Integrated GPS and GIS for all response vehicles 4. A Central crisis management tool and records database
New Age Marketing Techniques	CRM	QR code analytics, tracking, innovative designs, generation, augmented reality etc.
Nvisage	CRM	mobile mapping, architectural projection mapping, 3d depth sensing camera systems, multi touch, surface computing, augmented reality,
Ntgage	crm	customer support, sales automation, marketing automation, point of service, campaign organizer, report generation,
Shopper Rapport	crm	pos, customer loyalty cards, campaign mgmt., mobile vouchers etc.
Cyber Malaak suite	Cyber Security	Unified Threat Management, IT Security Audit and Consulting, Strategic Security Consulting, Cyber Security Infrastructure Management, Penetration Testing and Vulnerability Assessment, Secure Code Review and Audit, Cyber Investigation and Cyber-Forensic analysis , Secure Web Application Development , Electronic Security Consulting, Cyber Law Consulting , Big Data Analytics utilizing Hadoop Cluster, DPI Technology utilizing Hadoop Cluster, Implementation of Deployment of Big Data Hadoop, Electronic Surveillance, Cyber Security Research and Development, Cyber Defence Alerts and Intelligence, System Auditing and Firewall, Web Portal Security Auditing, Network Penetration Testing and Vulnerability Assessment, Patch Security Management, Biometric Access Control and Monitoring, Secure Management of Infrastructure, Standard & Regulatory Compliance and Security Policy Framing, Wireless Security Solutions and Consulting, High End Network Scalable IT Security Solutions, Predictability Management, Data Security Management and Secure Data Processing, Secure implementation of Enterprise Resource Planning , Malicious Code Management, ISO 27001 ISMS implementation

Cyber Malaak suite - Training	Cyber Security	E-Governance Security, cyber Crime Investigation, Ethical Hacking and Forensic Investigation, Certification in Defence Network Architecture, UTM and Firewall Configuration, Risk Assessment, ISMS Lead Auditor Training, IT Security Audit, wireless Security, Network Security, Database Security, Government Policy, Framework and Information Compliance, Disaster Recovery and Management, information Security Management, Business Continuity Planning
Security Application Development	Cyber Security	FREEDOM, ISP filtration, Data heuristics,
IT Audit and Consultancy	Cyber Security	
Secure Infrastructure Administration	Cyber Security	
Security Training	Cyber Security	
Forensic Analysis	Cyber Security	
Unified threat management	Cyber Security	<ul style="list-style-type: none"> • Integrated Firewall • Gateway Anti Virus & Anti Spyware • Gateway Anti Spam Filtering • Intrusion Detection • Intrusion Prevention • Content, Application and URL Filtering • Bandwidth Management • VPN (IPSec, SSL) support • Network Security Monitoring • Customized Reporting Tools • Browser enabled management and Reporting • User management and Group controls • Easy Update management • Monitoring and reporting capabilities • High availability support with Fail safe option
Security Operations Center	cyber Security	nation wide safeguard against cyber attacks
CERT	cyber Security	nation wide safeguard against cyber attacks
Data Center Management	Data Center Management	Mandatory Attributes for Data Centers,Features of NTG Data Centers,Fault tolerant site infrastructure
Data Management and warehousing	Data Management	<ul style="list-style-type: none"> • Boosts application performance and provides swift and easy access • Reduces cost of data storage, software and hardware • Visual sub-setting feature available for data • Supports PC files, relational databases, legacy mainframe systems, data warehouse applications and HDFS • SAS provides ability to use data from multiple repositories without reconciliation or moving data physically • Reduces risk and supports compliance with retention requirements • Improves quality of service and operational efficiency
DocencryptR for defence	Defence	Anti-copy watermarking, Hidden image background, Micro lettering, UV Security Invisible Image Technology, Secret Verification Key, Warning Brands, Fluorescent Fibre Secure, Optically Variable Ink, Prismatic Color Security Background
supply chain mgmt for defence	defence	demand management, inventory management, routing, scheduling, force mobilization etc.
defence hr management	defence	manpower mgmt, deployment system, compensation mgmt, transition support,
Advanced Surveillance and Spycraft devices	defence	a number of spy devices both surveillance and counter surveillance
Defence Integrity Management	Defence Integrity Management	Security Layer 1: On-Thefly, Storage Physical Inventory Security Layer 2: Issuance Check Out/In Security Layer 3: Exit/Entry Detection
Framework for Electronic Equipment in Defence Operations & Management (FREEDOM)	Defence Operations & Management	<ul style="list-style-type: none"> • Bolsters supply chains • Reduce training overheads • Decrease ownership costs. • Outsource IT services • Decision based support facility • Broader integration in a Service Oriented Architecture • Administer integrated logistics support functions • Reinforce training overheads.

ICT Aided Efficient Governance of Defense Services	Defense	<ul style="list-style-type: none"> • Business Rules • Collaboration/Communication rules • Configurable Dashboards/reporting • Workflow Designer • Form Builder • Workflow Engine • Enterprise Content Management • Business Process Management.
E commerce process delivery	e commerce	UI, products module, inventory, report generation, payment, buy-checkout, logistics, CRM
Instasouq	e commerce	
JAmbo shop	e commerce	
ICT Education Management Suite	Education	<ul style="list-style-type: none"> • ICT in schools across the nation • Uniform Student Information and Campus Administration • Examination Management and Coordinated Result Declaration • Teacher training programs • Universal Course synchronization and Performance Assessment • Web portal and online discussion forums
Asset Management for Education	Education	Asset Tracking, Inventory Management
DocEncryptR for Education Sector	Education	<ul style="list-style-type: none"> • Verifying mark sheets, graduation certificates etc. • Provide authenticity to vital documents with a globally reputed value based certification • Simple accessibility and instant tamper-proof certification format • Easy credentials verification and forgery detection, no special device required • Information can be accessed using mobile phones with camera or Near Field Communication (NFC)
Email ticketing solution	education	email account creation without signup, escalation, automated responses, task assignment, reports, filtration
ICT supported Efficient Governance of Education Sector	Education	<ul style="list-style-type: none"> • Core Applications • Common Applications • Support Layer • Foundation Layer
E- Learning Systems	Education	<ol style="list-style-type: none"> 1. Faculty Portal 2. Examination Administration 3. Content Management 4. Course Application 5. Student Portal 6. Offline Content Access
Interactive Learning Assistance	Education	<ul style="list-style-type: none"> • Integrated with ABRAMS for Biometric authentication functionality • Optimal Response Time
Core E-insurance Software	Education	<ol style="list-style-type: none"> 1. HMS integration 2. Insurance Solutions integration 3. Interface for external access 4. Customized Portals and Reports
National Student Performance Evaluation Tool	Education	<ol style="list-style-type: none"> 1. Performance Monitoring Tool to compute the National Proficiency in various subjects 2. Plagiarism and Malpractice Detection Application that cross checks documents against each other and against an online database.
E learning sytem	Education	faculty portal, examination administration, content mgmt, course application, student portal, offline content access, campus administration tool, student tracking and assessment
Digital elections	Elections	Control unit - balloting - central election database - voter registration
Building Automation and Sensing Systems	energy saving / green solutions	battery management, smart environment with sensors, supervisory control, power consumption control

Data Mgmt & warehousing	ERP	supply chain management, customer insights, simplified deployment, efficient backup, recovery, access control
Employment data analytics	ERP	algorithm based job assignment, recruitment, qualification verification, employee mgmt
ERP empowered SME Management Software	ERP	<ol style="list-style-type: none"> 1. A User-Friendly online SME registration, classification and participation portal 2. A comprehensive ERP based software suite with separate modules for sales, finance, HR, etc. functions to meet the operational requirements the business
Ethnic Language Digital Content Generation Suite	Ethnic Language Digital Content Genera	<ol style="list-style-type: none"> 1. An E-content management database that stores all digital content, both original and translated versions 2. An advanced translation tool that instantly creates duplicates in multiple languages for every file uploaded, with support for Kinyarwanda, French and English 3. A user-accessible tool to translate comments and posts in forums on government and associated websites
Ticketfun	Event Management	Ticketing and Event listing
Business intelligence and analytics	Forecasts/Reports/Projections/business	monte carlo model simulations, enterprise performance mgmt, standardized scalable business intelligence capacity, reusable model library
Data Analysis and Heuristics based Intelligence	Forecasts/Reports/Projections/business	Heuristics analysis mimics Artificial Intelligence, rather than rely on existing procedures, it modifies its analysis approach through past experiences and results, Is compatible with single or multiple evaluation parameters, Usability Engineering element helps determine the feasibility of a program or predict the outcome of a project
DocEncryptR for Healthcare Sector	Healthcare	<ul style="list-style-type: none"> • Verifying qualification certificates for medical practitioners • Identification of forged insurance claims and prescriptions • Provide authenticity to medical records with a globally reputed value based certification • Simple accessibility and instant tamper-proof certification format • No special device required. Information can be accessed using mobile phones with camera or Near Field Communication (NFC)
Military Health System	Healthcare	Health information, hospital mgmt, blood donor database, patient records, clinical data mart, disease surveillance, etc.
ICT Assisted Efficient Governance of Medical Services	Healthcare	<ul style="list-style-type: none"> • Centralised Content Storage: It includes distribution of information through portals, downloading of forms, online and mobile applications for service delivery. • Integrated Management Assistance: We do correspondence management, agenda/meeting administration, case management and grievance redressal. • Effective Tools for Decision Making: We do periodic MIS, alerts, dashboards and KPI/SLA Monitoring.
Healthcare Asset Management	Healthcare	<ul style="list-style-type: none"> • Personnel Tracking • Asset Tracking • Inventory Management • Geo fencing
Reliable Healthcare Implementation Software	Healthcare	<ul style="list-style-type: none"> • Tele-medicine • Integrated Disease-Surveillance • Hospital management system • Blood Bank Management System • State's healthcare resource databases • PHC Clinics Management System • Diagnostic Test Centre Management System. • HMS Smart Cards & Electronic Medical Records. • HMS Reports Module
NSISA national insurance scheme administration	Insurance	Health insurance mgmt - centralised server - interlink remote pharmacies, clinics, hospitals, doctors etc. - fraud detection, - e prescription - accounting
core e insurance	Insurance	health management, integration with nsisa, etc.
Centralised ISP based filtering	Internet	Hosted web-security platform at the Service Provider End, Web content Monitor to generate reports on specific keywords, NT-Proxydefender 2.1 to combat proxies that attempt to evade web filtering
Investment Monitoring System	Investment Monitoring System	<ol style="list-style-type: none"> 1. Database stores all past interactions and investment history for user 2. Statistics creation and report generation module 3. Easy to access User Interface

BPO & KPO parks	IT infrastructure building	call centers, internet marketing, medical transcription, proof reading, copywriting, crm, HR, Finance & Insurance, R & D, legal services, data analytics etc.
Citizen call center	it infrastructure building	
ombudsman management software	law enforcement	receive, acknowledge and manage complaints, track milestones etc.
Jail management	law enforcement	inmate tracking using gps,rfid - cctv surveillance, inmate incident tracking
judiciary record management	law enforcement	request, view and select legal files from desktop, built in search engine and multiple indexing parameters, transfer records between users
national id and turnkey project	law enforcement	implement security card system, biometric information of users, application program interface,
criminal investigation assistance device	law enforcement	FIR generation, traffic ticket issue, location tracking, evidence gathering etc.
project mgmt suite	management tool	task, sub-task creation, task assignment, issue tracking, reports, ticketing, etc.
Mobile Applications	Mobile Applications	Software for Mobile Devices Android/ iOS/ Blackberry Development J2ME Applications Mobile J2ME Games Symbian Application Development iPhone Application Design and Development
Mobile Device Administration Framework	Mobile Communication	<ul style="list-style-type: none"> • Geo Fencing • Asset Management –Tracking of software, hardware and personnel • Application Monitoring • Data Security • Geo Tracking • Alerts and MIS reports
Ground Analysis Solutions	Natural Resource Mgmt	Ambient temperature/humidity,Atmospheric pressure,Leaf wetness, Rain,Soil temperature,Soil moisture,Solar radiation,Ultraviolet radiation,Wind speed.
Mining Management Tool	Natural Resource Mgmt	<ul style="list-style-type: none"> • Network Infrastructure Administration • Tracking System • Vehicle Intelligence Platform • PED through the Earth Communications • Proximity Detection Tool • Communications Appliance Tool • Remote Centralized Blasting Tool • Surface Mesh: Communications/Tracking/Telemetry
Network Administration Package (NAP)	Network Administration	Fault Management,Performance Management,Security Management,Configuration Management
ONLINE REPUTATION MANAGING SUITE	ORM	National ORM Efferts
Penetration Testing	Penetration Testing	<ol style="list-style-type: none"> 1. Determining the feasibility of a particular set of attack vectors 2. Identifying higher-risk vulnerabilities that result from a combination of lower-risk vulnerabilities exploited in a particular sequence 3. Identifying vulnerabilities that may be difficult or impossible to detect with automated network or application vulnerability scanning software 4. Assessing the magnitude of potential business and operational impacts of successful attacks 5. Testing the ability of network defenders to successfully detect and respond to the attacks 6. Providing evidence to support increased investments in security personnel and technology
post office automation	post office	automation using pre-sorting and cross stram contraptions, multi stream mail, coding and recognition systems, logistics mgmt,

Public Works Management Suite	Public Works	<ol style="list-style-type: none"> 1. Registration, online bidding and contract management portal 2. Work Management Module 3. GIS and GPS integration 4. Asset Management 5. Performance Management and Reporting 6. Core Records Database
land record and transfer management system	revenue	digitization of land related data, data centralization, geographic information system integration,
Security Printing	Security Printing	Holograms, reflective stickers, excise labels, etc.