

# SOFTWARE SOLUTIONS

"Empowering Progress with Smart Solutions"



 **भारत इलेक्ट्रॉनिक्स**  
**BHARAT ELECTRONICS**

# Software Marketing

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## SERVICES

- Vulnerability Assessment & Penetration Testing / IT Security Audits Independent Verification & Validation / Software Testing Third-Party Audits, Consultancies & Trainings

## STRENGTHS

- Usage of State-of-the-Art Tools & Technologies
- Adherence to Industry Standards & Best Practices
- Strong, Strategic, Managerial & Technical Competencies
- Expertise in Military, Paramilitary & Border Security Domains
- 1st Navratna Defence PSU to Achieve CMMI-Dev 2.0 L5 & CERT-In Empanelment
- Unified QMS with ISO 9001: 2015, IEEE 12207: 2008 & CMMI-Dev 2.0 L5
- Integration of Sensors, Legacy Systems & Equipment
- Specialized - Project Management Professionals, Software Architects, Developers & Testers
- Quality & Security Auditors.

## SOFTWARE PRODUCTS

- Electronic Voting Machines (EVMs)
- Digital Agriculture Solutions
- Radars, Underwater Systems
- Geographical Information Systems (GIS)
- Smart City Solutions & Integrations
- Electronic Warfare & Avionic Systems
- Access Control, Visitor Management, Video Management & Analytics Solutions
- Health Management & Information Systems
- Simulators, Chatbots, Computer-Based Trainings
- Artificial Intelligence Enabled Systems & Solutions
- Coastal Surveillance, Network Management Systems
- Weapons & Fire Control, Command & Control Systems
- E-Governance, Enterprise Resource Planning, Blockchain Solutions.

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## NETWORK MANAGEMENT SYSTEM (NMS)

A hierarchical, distributed architecture that integrates open standards and GIS, providing FCAPS functionality. It offers a unified dynamic dashboard for real-time monitoring, customizable inventory management, and resource lifecycle tracking. Seamlessly integrating with mailing, messaging, helpdesk, and directory services, it performs event correlation and root cause analysis of network events.



A scalable, cloud-deployable IoT platform developed on open standards. Equipped with Big Data, AI-ML engines, and connectivity to city sources, Equinox provides integrated

## EQUINOX - SMART CITY / TOWN / COLONY SOLUTIONS

operations with command and control, IoT sensor integration, data analytics, and visualization, enabling a unified Common Operating Picture for smarter city management.



## DRISHTI - VIDEO MANAGEMENT & VIDEO ANALYTICS

Supports both IP and analog cameras, this solution optimizes video security operations by offering policy-based video distribution, investigation management, and AI-powered video analytics for applications such as face recognition, camera tampering, intrusion detection, license plate recognition, and forensic analysis.



## ENTERPRISE RESOURCE PLANNING (ERP)

An open-source ERP solution that integrates core business processes such as finance, HR, and inventory management, offering automated processes, real-time insights, and internal controls. It can be deployed on-premise or in the cloud, customized for SAP or other systems.



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## PDM - PREDICTIVE MAINTENANCE

Leveraging machine learning models to analyze system behavior and predict potential failures, PDM provides predictive insights that improve maintenance schedules, reduce downtime, and increase operational efficiency.



## COLLABNET - COLLABORATIVE SOCIAL MEDIA ANALYTICS

A flexible and extendable platform using advanced computational models and state-of-the-art visualization features to predict insights, analyze, and create operational policies based on city infrastructure data.



## ANANT - ADVERSARY NETWORK ANALYSIS TOOL

A comprehensive tool for analyzing adversary networks, enabling effective attack modeling and revealing hidden patterns or dynamics, as well as identifying crime patterns for improved predictive capabilities.



## FAKE NEWS DETECTOR

Using machine learning, deep learning, and natural language processing, this tool analyzes news content to detect authenticity, highlighting tampered sections of images and providing a confidence score for news reliability.



## VAPT - VULNERABILITY ASSESSMENT & PENETRATION TESTING / IT SECURITY AUDITS

Our VAPT team uses proven security technologies and industry best practices to detect vulnerabilities in IT systems and recommend solutions to strengthen security.

## AI-BASED SOLUTIONS

Yatri.AI is an offline, AI-powered language translation solution designed for commercial use. It enables seamless communication between helpdesk operators and passengers, eliminating language barriers. With near real-time transcription and translation, Yatri.AI assists non-native speakers in understanding and responding quickly. Ideal for diverse environments, Yatri.AI supports four languages: Hindi, Telugu, Tamil, and Kannada.





## DIGITAL AGRICULTURE SOLUTIONS

eKrishi empowers farmers by creating a digital agriculture ecosystem with a Centralized Command and Control Centre (ICCC). It integrates IoT sensors, weather systems, soil data, and GIS-based services to enhance decision-making. The platform supports farmers with climate impact mitigation and sustainable growth. It also aids agricultural scientists and government agencies in improving service delivery.



## TPA - THIRD PARTY AUDITS

Our experts conduct objective assessments to identify risks and incorrect practices, providing actionable recommendations based on industry standards and best practices to improve compliance and performance.



## IV & V - INDEPENDENT VERIFICATION & VALIDATION

The IV&V team ensures software quality by verifying artifacts and validating performance against requirements, adhering to industry-specific guidelines and standards for optimal results.

# SOFTWARES

- NETWORK MANAGEMENT SYSTEM (NMS)
- EQUINOX - SMART CITY / TOWN / COLONY SOLUTIONS
- DRISHTI - VIDEO MANAGEMENT & VIDEO ANALYTICS
- ENTERPRISE RESOURCE PLANNING (ERP)
- BLOCKCHAIN SOLUTIONS
- E-GOVERNANCE SOLUTIONS
- HEALTH MANAGEMENT & INFORMATION SYSTEMS (HMIS)
- MICE - MULTIMEDIA INFORMATION & CONTENT EXTRACTION
- EACS - ENTERPRISE ACCESS CONTROL SYSTEMS
- PDM - PREDICTIVE MAINTENANCE
- COLLABNET - COLLABORATIVE SOCIAL MEDIA ANALYTICS
- FAKE NEWS DETECTOR
- VAPT - VULNERABILITY ASSESSMENT & PENETRATION TESTING / IT SECURITY AUDITS
- IV & V - INDEPENDENT VERIFICATION & VALIDATION
- TPA - THIRD PARTY AUDITS



## BLOCKCHAIN SOLUTIONS

Revolutionary blockchain solutions designed for secure, tamper-proof digital document issuance and secure asset transfer and tracking across organizations or industries, ensuring data integrity and transparency.



## HEALTH MANAGEMENT & INFORMATION SYSTEMS (HMIS)

A cloud-based, ABDM-integrated solution that supports role-based automated healthcare processes such as online appointments, billing, scheduling, smart queue management, and outpatient/inpatient management, providing a flexible, scalable, and secure interface.



## MICE - MULTIMEDIA INFORMATION & CONTENT EXTRACTION

An advanced tool for automatic information extraction using machine learning techniques, including Naïve Bayes Classifier, Decision Trees, and Neural Networks. It offers video summarization, fake image detection, and speaker diarization.



## E-GOVERNANCE SOLUTIONS

A scalable, open-source portal providing seamless services for citizens, including trade licenses, property tax management, tax collection, payments, certificates, registrations, and more. The platform is accessible through both web and mobile applications.



## EACS - ENTERPRISE ACCESS CONTROL SYSTEMS

A distributed 3-tier web-based solution that integrates smart card/biometric sensors with mail and SMS services. It provides quick authentication, verification, and problem resolution to ensure the safety and security of organizational work centers.



## WIQAS-WEB-BASED INSPECTION AND QUALITY ASSURANCE SOFTWARE

WIQAS is an advanced, in-house developed platform designed to improve quality assurance (QA) processes, especially in the defense sector. It integrates modern technologies, offering seamless integration with Automated Test Equipment (ATE), remote inspection, and digital inspections. WIQAS simplifies the entire inspection process-from data collection to reporting-ensuring accuracy, efficiency, and consistency in quality control.