

C-DAC'S PRODUCTS, SOLUTIONS & SERVICES BOOKLET



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Overview of C-DAC

Centre for Development of Advanced Computing (C-DAC) is the premier R&D organization of the Ministry of Electronics and Information Technology (MeitY) for carrying out R&D in IT, Electronics and associated areas. Different areas of C-DAC, had originated at different times, many of which came out as a result of identification of opportunities. C-DAC has today emerged as a premier R&D organization in IT&E (Information Technologies and Electronics) in the country working on strengthening national technological capabilities in the context of global developments in the field and responding to change in the market need in selected foundation areas. In that process, C-DAC represents a unique facet working in close junction with MeitY to realize nation's policy and pragmatic interventions and initiatives in Information Technology. As an institution for high-end Research and Development (R&D), C-DAC has been at the forefront of the Information Technology (IT) revolution, constantly building capacities in emerging/enabling technologies and innovating and leveraging its expertise, calibre, skill sets to develop and deploy IT products and solutions for different sectors of the economy, as per the mandate of its parent, the Ministry of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India and other stakeholders including funding agencies, collaborators, users and the market-place.

The Technical Expertise of C-DAC is in the following areas:

- High Performance Computing
- Artificial Intelligence & Multilingual Computing
- Microprocessor & Strategic Electronics
- Health Informatics
- Cyber Security & Cyber Forensics
- Software Technologies
    - e-Governance/Geo-informatics
    - Blockchain Technologies

- 5G, IoT, SDN, Edge Computing
- Education and Training

As a Scientific Society, C-DAC has worked tirelessly to build a robust suite of offerings that solves pressing needs of the societies and the nations. C-DAC has a legacy of over 36 years of experience and expertise in bringing the best offerings to market. Our dedication to continuous innovation, exceptional quality, and complete end-user satisfaction sets us apart. We are constantly developing new and improved offerings to meet the emerging needs of the end users. With an innovative spirit, commitment to service, and portfolio that delivers real value, we are confident in taking this partnership ahead. Team at C-DAC is energized and ready to continue pushing boundaries. We are eager to forge new relationships, strengthen existing bonds, and prove ourselves as a trusted partner in our end user's success.

In the last few decades, C-DAC has developed globally competitive and commercially exploitable products and solutions in emerging technologies which range from Supercomputing, Healthcare solutions, AgriTech products, Strategic Technology, DIR-V, Energy efficient Measurement systems, Power and Process control, e Governance solutions, Cyber Security, Forensic Tools, etc. having high societal impact. This Products and Solution Booklet is an edition of showcasing of C-DAC’s technological expertise in various ICT verticals. The major objective of this booklet is to enhance research collaborations and proliferate C-DAC’s R&D achievements with the stakeholders. It offers a bouquet of C-DAC’s products, solutions and services spanning across different technology verticals which are already deployed at numbers of prestigious government organizations and private industries.

Overview of International Cooperation Division (ICD)

C-DAC has taken a significant step in global outreach by establishing the International Cooperation Division (ICD). The primary objective of this division is to foster collaborations and promote the diverse range of products and technologies developed within the centre to cater to the escalating demands of the global IT industry. ICD operates as a pivotal link between C-DAC and various international entities, working in close partnership with key Indian government bodies such as Ministry of External Affairs, Ministry of Defence and Ministry of Electronics & IT. Through these collaborations, ICD facilitate the exchange of knowledge, expertise, and experiences in the domain of ICT. Until today, CDAC has successfully implemented 61 projects, with additional 10 projects currently ongoing. These projects span across 42 countries, covering diverse regions such as Africa, East Europe, South-East Asia, Central Asia, the Middle East, Arab nations, Latin America, the Caribbean, Pacific Islands and South America. The strategic engagements include collaborations with Ghana, Uzbekistan, Tajikistan, Myanmar, Tanzania, Belarus, Armenia, Lesotho, Seychelles, Syria, Grenada, Dominican Republic, Vietnam, Turkmenistan, Kyrgyzstan, Cambodia, Kazakhstan, Saudi Arabia, Ecuador, Peru, Palestine, Bhutan, Costa Rica, Panama, Commonwealth of Dominica, Egypt, Morocco, Guyana, Papua New Guinea, Vanuatu, Fiji, Nauru, Niue, Samoa, Cook Islands, Namibia, Sao Tome & Principe, Jordan, Argentina, Mongolia and Solomon Islands. C-DAC projects traverse a rich spectrum of thematic areas, effectively showcasing CDAC's prowess in deploying indigenously developed products and cutting-edge technologies globally.

International Collaboration Modalities followed by ICD

- Through these strategic collaborations, ICD seeks to facilitate the exchange of knowledge, expertise, and best practices in the field of Information and Communication Technology (ICT).
- ICD aims to promote and expand the adoption of C-DAC's innovative products and technologies, addressing the growing demands of the global IT industry.
- ICD serves as a critical bridge between C-DAC and international entities, facilitating partnerships with prominent Indian government bodies
- These partnerships involve sharing insights on innovative technologies, best practices, and solutions developed by C-DAC, positioning the organization as a valuable player in the international technology ecosystem.

- ICD actively participates in discussions with foreign governments, organizations, and industry stakeholders to establish strategic partnerships that contribute to the growth of the global IT landscape.
- ICD serves as a center for sharing emerging ICT trends, facilitating knowledge exchange through workshops, seminars, and collaborative projects, ensuring C-DAC's expertise contributes to global IT advancements.
- ICD coordinates initiatives that align with global ICT priorities, identifying areas of mutual interest and exploring joint research and development opportunities to address common global challenges.
- C-DAC's initiatives have received significant recognition, with ceremonial inaugurations attended by Heads of State, Prime Ministers, and Union Ministers, emphasizing the global impact of its contributions.

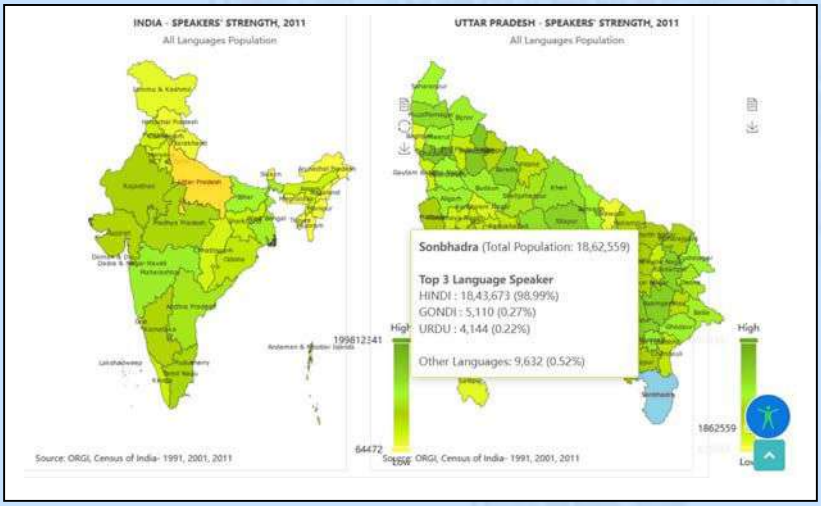
International Presence

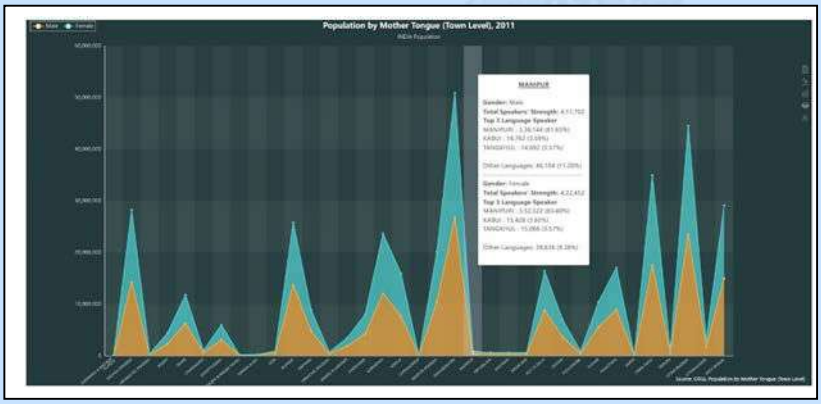


Data Analytics & Visualization

Data Analytics & Visualization solution is a tailor-made, low-cost, web-based solution integrating archived data with real-time data-bed offering analytics and visualization comprising interactive echarts, emaps enabling easy decision support. The solution offers mapping of unstructured data into structured schema.







Features

- Interactive visualization.
- Data representation in dynamic maps.
- Data analysis (upto district level).
- Dynamic Report extraction in multiple formats.
- Audio, Video search and streaming.
- Repository building and Retrieval System.
- Content Management System (CMS).
- eArchive.

Modules

- Dashboard.
- Language Census Data.
- Linguistic Survey of India.
- Mother Tongue Survey of India.
- Language Atlas.
- Visualization.
- eArchive.

Technologies used

Server Environment : Linux Operating System
Database : MySQL
SQL Mapper Framework: iBATIS
Web Server : Apache Tomcat
Development Platform : J2EE architecture using Java, JSP, JavaScript,
Web Application Framework : Struts 2.

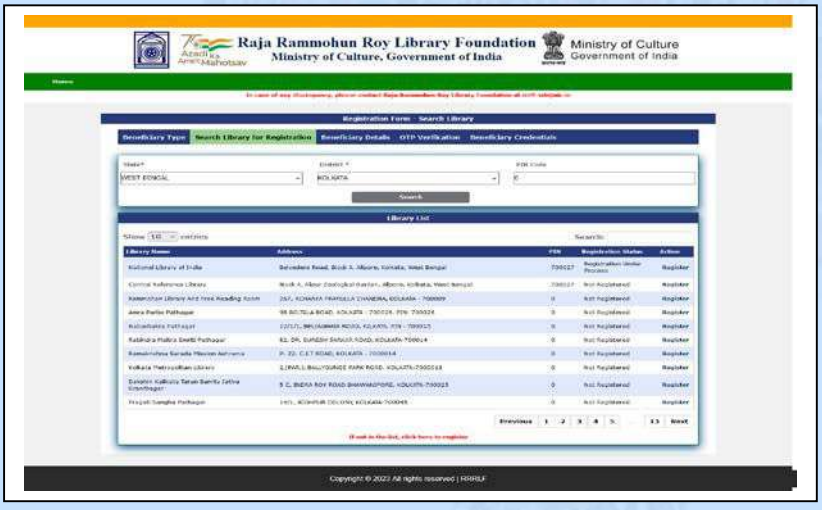
Online implementation of Govt. Schemes for promotion of Library Services

eGovernance application for implementation of Govt. Schemes for promotion of Library Services. It caters to online submission of application, recommendation, authorization, processing, sanctioning, fund accounting, monitoring of status of applications and other related functionalities for providing funds to the State/UT Library authorities, Libraries, etc.



Features

- Online application for various schemes by user agencies and subsequent approval process.
- User Registration and approval.
- Enterprise wide process workflow.
- Dashboard having Status update of tasks.
- Alert generation through dashboard.
- Workflow-based Electronic document approval system.
- Generation of Reports





Modules

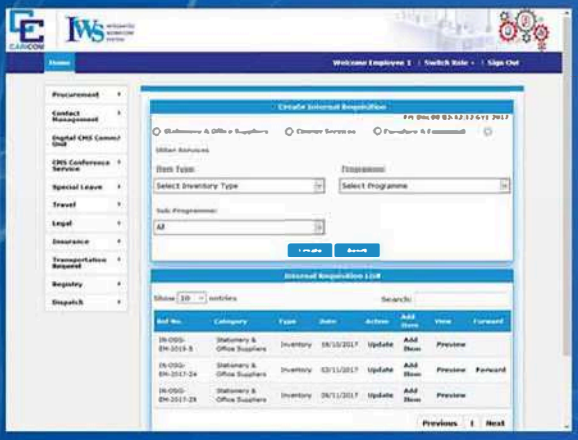
- Seminar.
- Divyangjan.
- Digitization.
- Mobile Libraries.
- Children Corner.
- Knowledge Corner.
- Increasing Accommodation, etc.

Technologies used

Server Environment : Linux Operating System
Database : MySQL
SQL Mapper Framework: iBATIS
Web Server : Apache Tomcat
Development Platform : J2EE architecture using Java, JSP, JavaScript,
Web Application Framework : Struts 2.

iWS – Web-based Integrated Workflow System for CARICOM Secretariat, Guyana.





iWS, a web-based, integrated Office Automation System with Enterprise Document and Content Management System, is a tailor-made, low cost workflow solution integrating the departments following the rules and norms of CARICOM in order to achieve automated office environment. The solution offers process re-engineering that are applied at various process levels wherever necessary ensuring accountability of uncompleted tasks. It significantly aims at improving the operational efficiency of the implementing organization by transitioning to a "Less Paper Office". The solution is customizable, configurable and user friendly.

Features

- Role based access control allowing Workflow design with document approval system.
- Workflow modification by the authorized user.
- In-built file tracking, performance monitoring throughout hierarchy, process status reporting.
- Minimal data entry stations and master data management, user management.
- Auto-generation of note-sheets, sanction letters, customized reports.
- Generation of physical files on-the-fly from digital files.
- Dash-board for Secretariat
- Audit Trail.
- Disaster recovery and backup facility, etc.

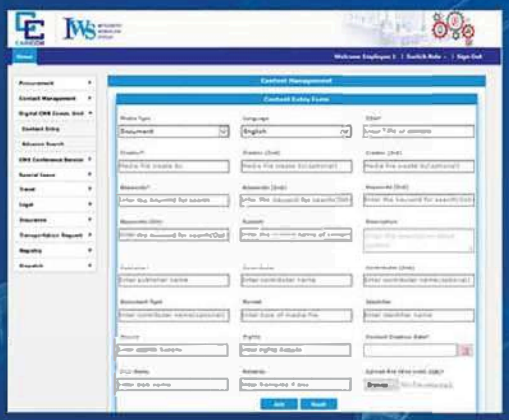
Modelus

- Enterprise Contact Management System
- Enterprise Content Management System (Conference Services)
- Digital Content Management System (Communication Unit)
- Registry Receipt
- Store and Inventory
- Procurement Management System
- Dispatch
- Leave
- Medical Claim
- Car Requisition and Allocation
- Legal
- Travel Management System
- Documentation Centre
- Resource Mobilization & Technical Assistance (RMTA)
- Enterprise Record Management System (Master Modules)



Technologies used

Server Environment : Linux Operating System
Client Environment : Windows 7 or higher with any Browser
Database : MySQL 5.6
Web Server : Apache Tomcat 7.0 Application Server
Development Platform : J2EE architecture using Java, JSP, JavaScript, and Web Application Framework (MVC) – Struts.2
SQL Mapper Framework : iBATIS





सी डैक
CDAC

ILLUMINATE

Key Features

- Quad-directional Full Duplex VLC Transceiver
- Zone Control to avoid Visual Discomfort
- Suitable for RF Free Zones
- Distributed Control

End User

Smart lighting control in RF Free Zones

ToT Partner

Nav Wireless Technologies Pvt Ltd



Product Key benefits

- **Reliable two-way communication:** Quad-directional full duplex VLC transceiver enables seamless, real-time data exchange with wider coverage
- **Comfortable user experience:** Zone control reduces visual discomfort by managing light intensity and direction
- **Safe for RF-sensitive areas:** Perfect for environments where radio frequencies are restricted or prohibited, such as hospitals and aircraft
- **Robust and scalable system:** Distributed control ensures high fault tolerance, easier maintenance, and flexible deployment

Product Description

VIsibLe Light CommUnication enabled SMart Indoor lightiNg And control SysTEm (ILLUMINATE)

ILLUMINATE is a smart indoor lighting and control system that utilizes Visible Light Communication (VLC) technology. Tailored for RF-restricted environments like hospitals, sensitive industrial zones, and airports, it offers a reliable, interference-free solution for intelligent lighting and data communication.

Video link

https://shorturl.at/RyWaz

Information Technology

School Management System ERP

Key Features

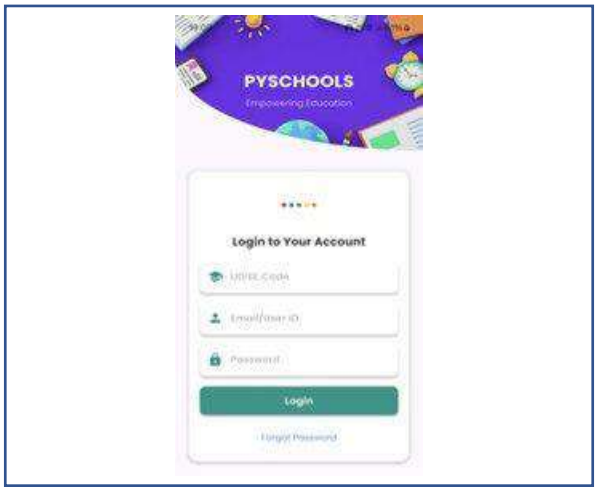
- Secure & Cost-Effective
- Comprehensive Management
- Seamless Gov. Integration
- Transparent Insights
- Anywhere Access

Key Use case

- Marking student and teacher attendance
- Teacher and staff leave applications
- Financial management
- Exam management

Deployments

- Directorate of school education, Pondicherry



Product Key benefits

Unified Oversight: Monitor all schools from a single, centralized dashboard.

Effortless Compliance: Real-time data sync with Rashtriya & State VSK portals.

Enhanced Accountability: Transparent tracking of attendance, leaves, and assessments.

Scalable Growth: Designed to support 750+ schools with seamless expansion.

Product Description

Secure School ERP on BOSS: Comprehensive Management Solution. Leveraging BOSS Linux, this open-source ERP system provides secure academic and administrative workflows for over 750 schools. It offers real-time integration with Rashtriya and State VSK portals, ensuring transparent monitoring, data accuracy, and centralized reporting via responsive web and mobile interfaces for all stakeholders.

Prerequisite for Mobile application:

Android version - 10+, 2 GB RAM

Prerequisite for Web application:

Web browsers like chrome, firefox, etc.

Video link

https://shorturl.at/IPBjG

BOSS Based Student Assessment & Management System

Key Features

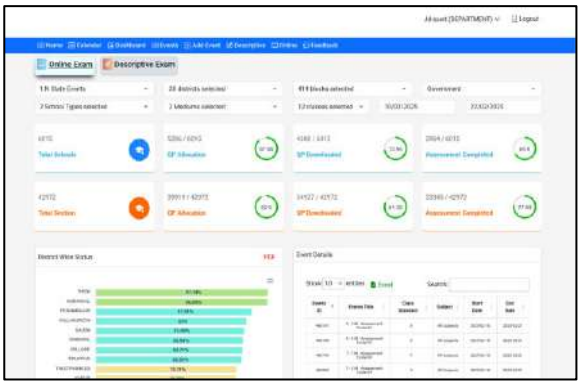
- Secure Online Assessment
- Secure Question Paper Dissemination
- Smart Data Insights
- Scalable & Affordable
- Multi-language support

Key Use case

- Event Creation
- Online Exam
- Secure Question Paper Dissemination
- Operational Dashboard.

Deployments

TamilNadu School Education Department

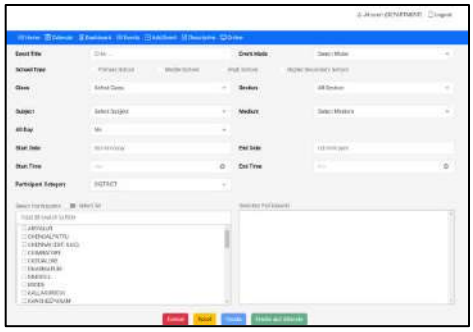


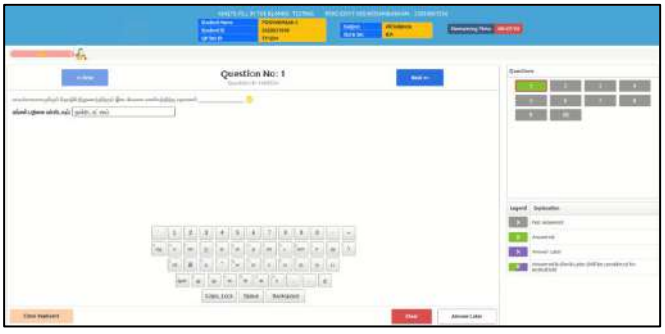
Product Key benefits

- Enhanced Security & Integrity
- Scalable & Flexible Platform
- Improved Efficiency & Time-Saving
- Accessibility & Inclusivity
- Comprehensive Assessment Management
- Quality Enhancement
- Data-Driven Insights
- User-Friendly Interface

Product Description

- **A secure digital platform that efficiently manages student assessments and examinations, ensuring data protection and exam integrity throughout the process.**
- **Supports multiple question types including Multiple Choice, Reading Comprehension, Fill in the Blanks, and Descriptive questions, with flexible formats such as text, images, and symbols to enhance assessment variety.**
- **Scalable to serve small schools or large educational boards, the system maintains consistent performance and reliability regardless of user numbers or exam volume.**
- **Streamlines exam creation, scheduling, administration, and automated grading of objective questions, reducing manual effort and accelerating result availability.**
- **Features a centralized dashboard with detailed analytics and reporting tools that help educators monitor exam progress and analyze student performance for improved learning outcomes.**
- **Accessible online across various devices and locations, supporting both remote and in-person exams to promote flexible and uninterrupted educational delivery.**





CHReME

Key Features

- Job Creation
- Job Monitoring
- Software Development Platform: Parallel and serial Libraries, Compilers
- Scientific & Research Applications Execution

Key Use case

- Creation of Job submitting script through web
- Cluster side File navigation
- File Download and Upload Facility through Web
- Ready to run scientific application executables

Deployments

- PARAM Shavak
- NTRO
- NSM Systems



Product Key benefits

- Creating, Submitting and Monitoring tools
- Ready to run scientific and research applications
- SLURM Integration in the Background
- Centralized log monitoring
- Real time monitoring and analysis

Product Description

- CHReME is a Web-based job submission and management portal that hides the complexities of high performance computing (HPC) by bridging the gaps between users and their distributed applications in an intuitive way.
- With CHReME , users gain a simple, powerful and consistent interface for submitting and monitoring jobs – so end users only have to concern themselves with the data and applications they wish to run, and nothing more

Pre-requisite for deployement of product

Java Runtime Enviornment



See it in action - Request a demo to know about the product

Aqua SURAKSHA

Key Features

- Portable device with Graphical User Iinterface (GUI).
- Enzyme based Colorimetric Bio-Sensing System
- Instant & Rapid detection of EDCs, such as OPs in water ecosystem.
- Inbuilt Uniform Illumination Imaging System (UIIS) based advanced colour analysis software.
- Mobile dashboard for real time data monitoring.
- Inbuilt battery, thus no external power requirement.

Key Use case

- Fishing Community
- Export & Quality Control agencies Government regulatory agencies



Product Key benefits

- Portable device with an intuitive Graphical User Interface (GUI).
- Enzyme-based Colorimetric Bio-Sensing System for high selectivity.
- Instant & rapid detection of Endocrine Disrupting Chemicals (EDCs), such as Organophosphate Pesticides (OPs).
- Inbuilt Uniform Illumination Imaging System (UIIS) for precise color-based analysis.
- Mobile dashboard for real-time data monitoring & sharing.
- Operates on inbuilt rechargeable battery – no external power required.
- Ideal for on-site, field-level testing.

Product Description

- **Unmonitored and uncontrolled use of agrochemical residues is posing a serious threat to the aquatic ecosystem.**
- **This degradation not only affects aquatic life but also has adverse implications for human health and the national economy.**
- **There is an urgent requirement for environmental diagnostic tools to detect Endocrine Disrupting Chemicals (EDCs) in aquatic environments.**
- **As a result of the 'MEAN' project, a biosensing prototype named 'Aqua SURAKSHA' has been developed.**
- **The system is designed to detect EDCs, specifically Organophosphate Pesticides (OPs), in inland open water systems.**

Pre-requisite for deployement of product:

- **Trained Personnel**
- **Site Accessibility**
- **Stable Surface for Setup**



See it in action - Request a demo to know about the product

Automated Hydroponics Controller



Product Key benefits

- Enables sustainable food production in non-arable regions
- Reduces water and nutrient wastage with automated control
- Supports continuous monitoring and data-driven decision-making
- Compact, modular and scalable for 100 sq meters size, 1100 plants capacity
- Empowers research institutes and farmers with digital tools

Product Description

- The Automated IoT-based Hydroponics System is a complete precision farming solution designed for soilless cultivation using nutrient film technique (NFT). The system integrates sensors, actuators, and control logic managed through a Raspberry Pi-based edge controller. It enables automatic and manual control of nutrients (EC, pH), water circulation, temperature, and humidity within a polyhouse environment. The solution also features a user-friendly touchscreen GUI, real-time cloud data storage, plug-and-play PCB design, and connectivity for remote monitoring.

Key Features:

- Intelligent nutrient dosing with EC and pH monitoring
- Dual-mode operation: manual and automatic control
- Custom-designed PCB with plug-and-play connectors
- Raspberry Pi-based GUI and LCD touch interface
- Real-time environmental control: temperature, humidity, foggers, fan-pad
- Cloud-based and local data logging with visualization
- System status monitoring and fault detection
- Easy servicing and module replacement

Key use case:

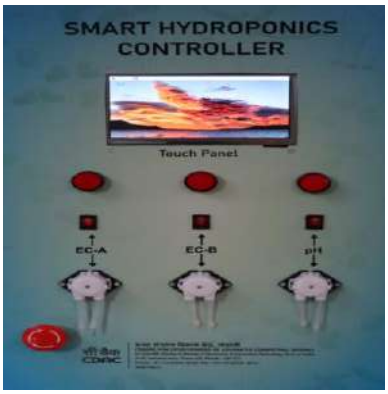
- Precision soilless cultivation of leafy greens, herbs and floriculture.
- Research-based agri-technology trials and data collection
- Controlled environment farming in diverse climatic zones
- Smart farming training for students and farmers

Deployments:

- Dr. YSP UHF Solan, Himachal Pradesh
- RHRTS Sirmour Himachal Pradesh
- ICAR NEH Region, Shillong, Meghalaya
- CAEPHT Gangtok, Sikkim
- ICAR Imphal, Manipur
- CDAC Mohali

Pre-requisite for deployement of product

- Polyhouse (100 sq metre) and nutrient film type hydroponics structure (1100 plants capacity) with power, water supply, plumbings & tanks installations including all civil work
- Stable internet connectivity for cloud synchronization
- Technical personnel for basic training and maintenance
- Initial crop planning and nutrient schedule



See it in action - Request a demo to know about the product

Digital Library Solutions

About Digital Library Solution:

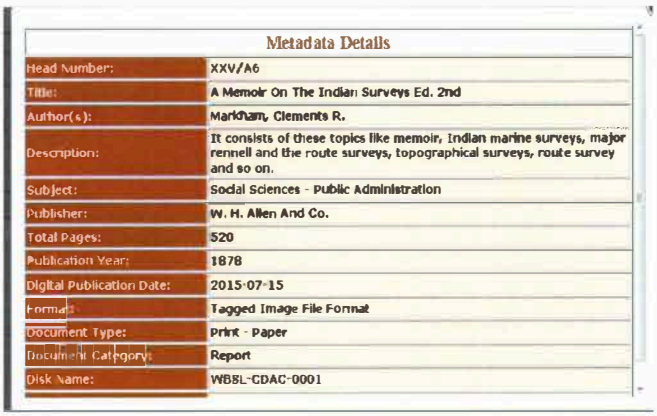
The Digital Library Solution includes development of scanning infrastructure and port scanning processes with quality control for digitisation of old, rare, brittle, heritage books, documents, manuscripts, microfilm, gramophone, negative, photograph, etc., from Libraries, Archives, Museums and Offices. It also offers a web-based, open digital object archival and retrieval software. It preserves and enables user-friendly access to all types of digital objects including books, text, images, audio, video and data sets. It provides role-based access control and metadata ingest workflow with validation and verification. It is customizable, configurable and user friendly.

Features of Digital Repository & Retrieval S/W:

- Digital object based data archival.
- Ingest Module with validation workflow.
- XML based metadata batch ingest.
- Role-based access control & User Management.
- Metadata Extraction in Extended Dublin Core Standard.
- Metadata based search and retrieval.
- Unicode compliant, Migration tools.
- Content based search facility.
- Full text indexing and searching based on OCR technologies.
- File format conversion.
- Data object import and export facility.
- Backup and Recovery; Platform independence; Scalability.





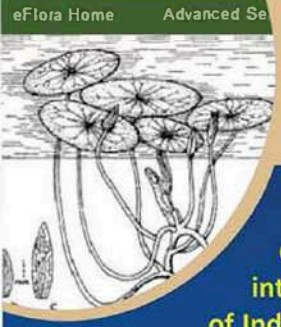


Technology Used:

Server Environment	:	Linux based Operating System
Client Environment	:	Windows 7 with any Browser
Database	:	MySQL
Web Server	:	Apache Tomcat
Development Platform	:	J2EE architecture using Java, JavaBeans, JavaScript, jQuery, JSP, Servlet, Struts 2 framework
SQL Mapper Framework	:	iBatis



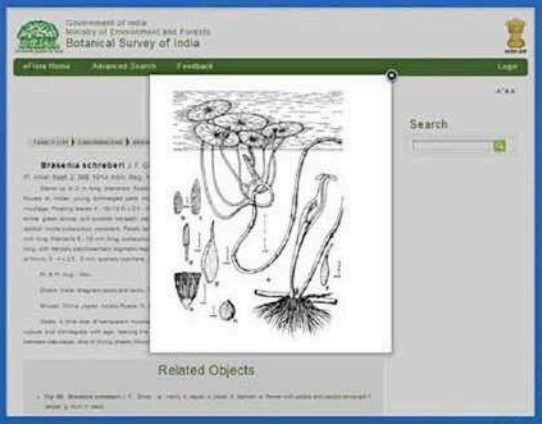
"eFlora of India" for Botanical Survey of India



"eFlora of India" software is a web-based Knowledge Management Tool capturing vast knowledge base of taxonomic and floristic research data of bio-diversity domain from publication and transforming them into structured data following the hierarchy of plant kingdom. It comprises of two components, viz. eFlora of India and Plant Checklist of Botanical Survey of India. The solution offers repository building, managing, editing, retrieving and rendering the data in the drill-down format designated by bio-diversity domain journal as well as eFlora of India volumes.

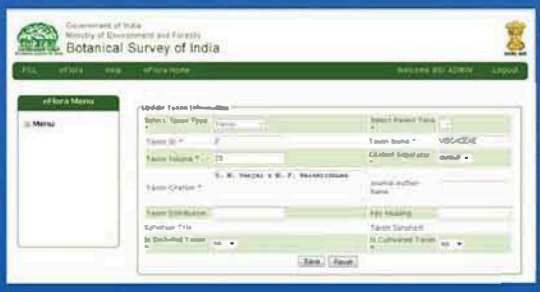
It significantly aims at easy and long term digital preservation of botanical publication data (IPR of BSI, Govt. of India), making scientists of botany domain manage their research works comfortably even before publication. It disseminates the knowledge base to the botanists, students and biodiversity community keeping IPR reserved.

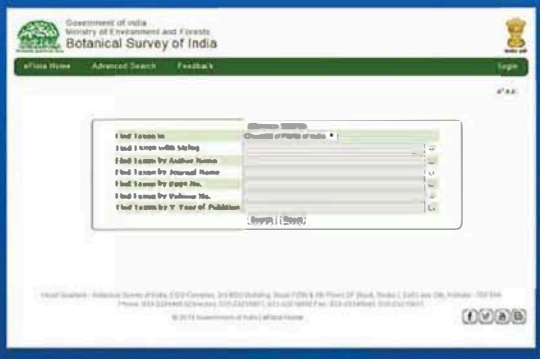




Features:

- Web-based Knowledge Management Tool
- Helps to build, manage, edit text & image content (using Content Management System), retrieve repository of taxonomic and floristic research data of bio-diversity domain
- Easy and long term digital preservation of botanical publication data
- Advanced Search facility
- Role-based access control
- User Management
- Unicode Compliant
- User friendly single page navigation facility among taxa which includes links to drill down to the lower taxa
- Audit Trail





Technologies used:

Server Environment	:	Linux based Operating System
Client Environment	:	Windows with any Browser
Database	:	MySQL
Web Server	:	Apache Tomcat
Development Platform	:	J2EE architecture using Java, JavaBeans, JSP, Servlet, JSON, Jquery, XML, JavaScripts, Jasper Report, iReport, MVC Architecture with Struts Framework
SQL Maper Framework	:	iBATIS

GLAMS

Key Features

- Multi-domain Gamified Quizzes
- Strategic Gameplay with Power Mechanics
- Real Time Tournaments with Leaderboards
- Smart Analytics & Reports
- Rewards & Recognition

Key Use case

- Academic Assesments
- E-learning Platforms
- Corporate Training & Assessments
- Government & Community Learning Programs
- Competitive Exams & Certifications

Deployments

- Bihar Regimental Center, Indian Army
- Army Public School
- Bihar Agriculture University



Product Key benefits

- Enhanced Learner Engagement
- Improved Knowledge Retention
- Real Time Actionable Analytics
- Modular content Management
- Recognition and Motivation
- AI Driven Gameplay and Learning

Product Description

GLAMS (Gamified Learning and Assessment Management System) is an innovative online platform that elevates learning through **real-time quizzes, AI-driven challenges, and strategic power-based gameplay**. Players can leverage **attacking and defensive powers** to gain an edge while competing in practice or tournament mode.With dynamic scoring based on accuracy,response time and powers used, it drives engagement, boosts knowledge retention, and rewards top performers with **leaderboards, badges, and automated certificates**.Its robust admin dashboard enables **seamless tournament management, multi-domain content control, and in-depth analytics** for actionable performance insights.

Pre-requisite for deployment of product:
VM Specifications:

1. **OS : Ubuntu 22.04 LTS**
2. **Memory (RAM) : 16 GB**
3. **CPUs : 16 cores**
4. **Disk Space : 500 GB**



See it in action - Request a demo to know about the product

CoLOESNS

Bacterial Diarrhoea Screening Device

Key Features

- Portable colorimetric biosensing device
- Screening of Bacterial cause of diarrhoea
- Stabilized bioreceptor and reagent kit
- Battery operated device
- Sample test time <15 minutes
- Mobile based Android GUI
- Mobile dashboard for real-time data monitoring
- SMS based test result alert

Key Use case

- Public Health Centres
- Rural diagnostic centres
- Urban Pathology labs
- R&D labs
- Domestic uses
- Water safety authorities
- ICMR National Health Mission



Product Key benefits

- Point of Care device for especially rural health centres and personal home setup
- Rapid screening of bacterial cause of diarrhoeal origin from viral diarrhoea
- Easy and user-friendly device operations and result dissemination through SMS
- Limits unnecessary usage of antibiotics towards combating Anti Microbial Resistance (AMR)

Product Description

- **The CoLOSENS system is the hand held colorimetric device towards screening of bacterial diarrhoea with special reference to the diarrhoea causing bacterial pathogen, E.coli.**
- **The CoLOSENS system combines the DNA aptamer based biosensing principle with a soft computing/ statistical algorithm.**
- **The CoLOSENS system validates a stool sample from any patient, predicting the presence/absence of bacterial pathogen as a causative agent of diarrhoea.**
- **In the presence of bacteria, specifically, E.coli, the receptor aptamer binds with the bacteria more specifically, leaving the gold nano particles free which enables the colour change of the chromogen TMB. The colour is changed from wine red to blue violet and the intensity of colour change depends on the concentration of the bacteria.**
- **The device captures the image of the reaction medium and the image analysis algorithm analyses the colour value to predict the bacterial concentration.**

Pre-requisite for deployement of product

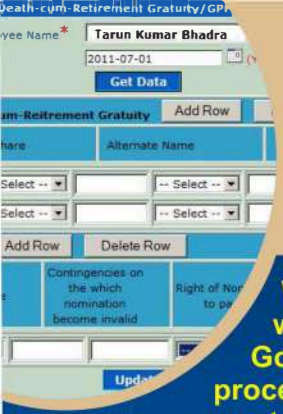
- **Site Accessibility**
- **Sample avialability**
- **Stable Surface for Setup**





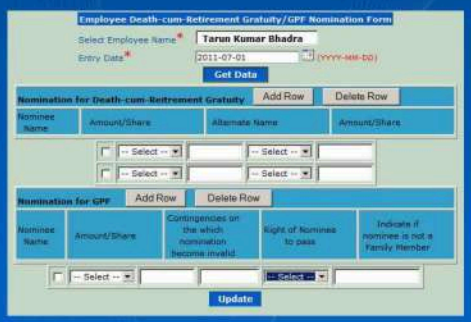
See it in action - Request a demo to know about the product

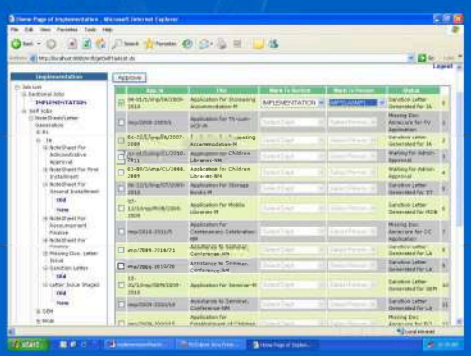
Web Based Integrated Office Automation System



Web Based Integrated Office Automation System is a tailor made, low cost web based ERP workflow solution integrating all the departments following the rules & norms of Central Government of India in order to achieve automated office environment. The solution offers process re-engineering that are applied at various process levels wherever necessary ensuring accountability of uncompleted tasks.

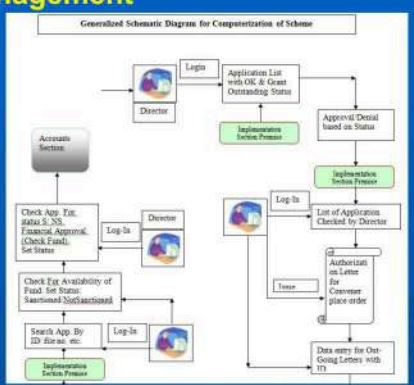
It significantly aims at improving the operational efficiency of the implementing organisation by transitioning to a "Less Paper Office". The solution is customizable, configurable & user friendly

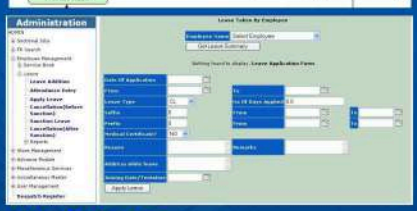




Features

- Human Resource Management and Monitoring Module
- Administration and Bill Processing Module
- Receipts and Dispatch Module
- Director Secretariat Management Module
- Fund Disbursement Module (under Central Government Schemes)
- Fund Control and Monitoring System
- Financial Accounting with schedule based reports conforming to CAG formats
- Budget Control, re-appropriation and Management System
- Library Management and Foreign Journal Purchase System
- Store and Inventory Control Management System
- Purchase Management System
- Guest House Management System
- Security Personnel Management System
- Car and Fuel Management System
- In-built file tracking System for all Departments
- Auto generation of note-sheets, sanction letters and customised reports
- Auto-email alert generation
- Role-based access control and User Management
- Secured transaction with audit trail





Technologies used.

Server Operating System : Linux based Operating System

Database : MySQL

Web Server : Apache Tomcat

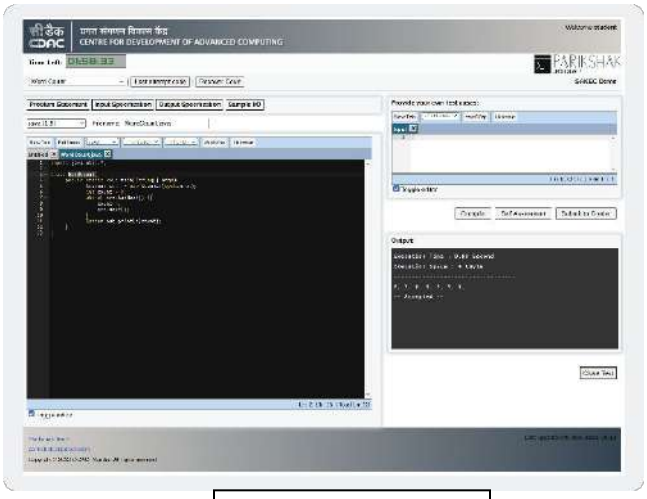
Development Platform : J2EE architecture using Java, JavaBeans, JSP, Servele ts, JSON, Jquery, XML, JavaScripts, Jasper Report, iReport, MVC Architecture with Struts Framework.

SQL Maper Framework : iBATIS

Deployment & Maintenance :
Raja Rammohun Roy Library Foundation, Ministry of Culture, Government of India

PARIKSHAK
LET'S SOLVE IT

Parikshak – An Automated Program Grading & Analysis Tool



www.parikshak.in

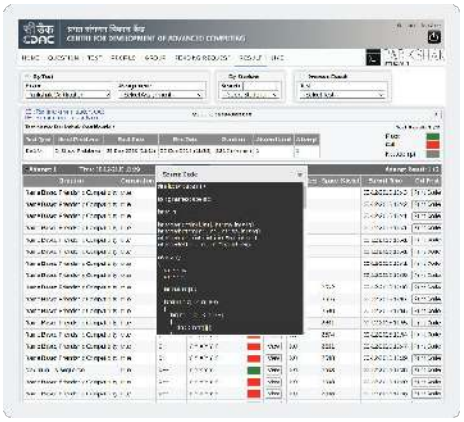
Product Description

Parikshak is an automated program grading and analysis tool designed to simplify and streamline programming exams and assignments.

Product Key benefits

- It allows teachers to conduct programming exams in online mode, with auto-evaluation of student programming assignments, analysis after programming tests, etc.
- It can significantly reduce the load of the faculty and give timely feedback to students, thereby leading to smooth and efficient handling of programming assignments/exams.

Deployment: Web-based Application



See it in action - Request a demo to know about the product

Key Features

- Supports programs written in Java, C, C++, Perl, PHP and Python
- Three types of problems supported
  - Write a complete program
  - Complete the snippet
  - Debug the program
- Instant and useful feedback to students during and after the test
- **Question bank** available with 200+ problems
  - Teachers can create programming problems
- **Support for plagiarism** detection in student submissions
- **Live monitoring** of exams and assignments
- **Results Dashboard**
- Common environment for programming in different languages

Key Use case

- Programming Language Courses
- Algorithm, Data Structures and Problem-Solving Courses
- Programming Hackathons
- Candidate Screening for recruitment
- Employee Training
- Competitive Exams
- Entrance & Promotion exams

Deployments

- **Colleges** - Fundamental programming courses
  - IIT Goa
  - SAKEC
  - CDAC PG Courses
- **Corporate** (recruitment exams) - SEBI, Prototech Solutions, HopScotch, Central Bank of India, Varank Tech Private Limited, D-Mart,

Secure Data Vault

Key Features

- **Data Privacy & Security**
- **API Access Control**
- **High Throughput HSM**
- **Flexibility**
- **Bulk Processing**
- **Duplicate enrollments check**
- **Scalability**
- **Customizable as per the entity requirement**

Key Use case

- **PII Data Security**
- **Government Schemes**
- **Banking & Finance**
- **Telecom**
- **Healthcare**
- **Travel / Hospitality Industry**
- **Legal Services**

Deployments

- **Indian Oil Corporation Limited (IOCL)**
- **Employees' Provident Fund Organisation (EPFO)**
- **West Bengal Electronics Industry Development Corporation (WBEIDC)**
- **Tripura State Co-op Bank Ltd**

Secure Data Vault as a Aadhaar Data Vault (ADV) Service is utilized by many government, PSU and private sectors across India for secure management of Aadhaar Numbers.



Product Key benefits

- Security and Compliance
- Supports secure storage of PII Data such as Aadhaar, PAN Cards, Driving Licenses, Passport Details, Voter IDs, and any other PII details
- Easy Integration
- Role-Based Access Control (RBAC)
- Bulk Data Processing
- End to End Transaction security of Request & Response
- Offered as a National service in India for securing Aadhaar Numbers

Product Description

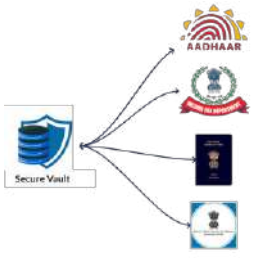
- **Secure Data Vault is a solution developed by C-DAC for the secure storage and management of Personally Identifiable Information (PII) such as Aadhaar, PAN, Voter IDs, Driving License, Passport, and any other sensitive PII data**
- **Designed to meet regulatory standards, Secure Data Vault offers centralized, encrypted storage with advanced access controls, making it ideal for government, PSU, and private organizations handling sensitive personal identity data of their citizens**
- **Secure Data Vault in the form of Aadhaar Data Vault (ADV) is offered as a national service in India to securely store and manage Aadhaar numbers to various government, private and PSUs**
- **Major entities in India, such as Employees' Provident Fund Organisation (EPFO), West Bengal Electronics Industry Development Corporation (WBEIDC), Tripura State Co-op Bank Ltd and Indian Oil Corporation Limited (IOCL), have adopted the Secure Data Vault solution. The Income Tax Department is also in the process of availing the product to secure the sensitive data especially Aadhaar and its related information**

Pre-requisite for deployment of product

Entities intending to store or manage Personally Identifiable Information (PII) such as Aadhaar, PAN, Voter IDs, Driving License, Passport and other sensitive PII Data can avail Secure Data Vault solution offered by C-DAC

Pre-requisites for Deployment of Product

- Server Infrastructure
- HSM Set-up
- Compliance Framework
- Any additional technical or operational prerequisites as specified by C-DAC during the implementation planning and onboarding process



See it in action - Request a demo to know about the product

CDACSIEM

Key Features

- Multi-Source Log Collection
- Rule-Based & ML-Based Correlation
- Threat Intelligence Integration
- Dashboard & Visualization
- Asset & Vulnerability Scanner Integration
- User and Entity Behavior Analytics (UEBA)
- Endpoint Detection and Response (EDR)
- Ticket Management System
- Compliance and Reporting

Key Use case

- Government Infrastructure Security
- Critical Sector Monitoring
- Insider Threat Detection
- Ransomware/Phishing Attack Detection
- Regulatory Compliance

Recent Deployments

- India Trade Promotion Organization (ITPO), Delhi
- Murmogao Port Trust, Goa
- Panjab University, Chandigarh
- Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company Ltd. (Bhopal)
- Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Ltd. (Indore)
- Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Ltd. (Jabalpur)
- Jawaharlal Nehru Port Trust, Mumbai



Product Key benefits

- Real-time **threat detection** and alerting
- Centralized log management from multiple sources
- **Advanced correlation** using rules and machine learning
- Integrated **incident response** and SOAR capabilities
- **Scalable architecture** for small to large deployments
- Cost-effective and fully **indigenous solution**
- **Customizable dashboards** and reporting

Product Description

- CDACSIEM is a next-generation Security Information and Event Management (SIEM) system developed by the Centre for Development of Advanced Computing (CDAC).
- A comprehensive security solution having a data aggregator which gathers immense amounts of log data from the entire networked environment, normalizes and applies analytics, as well as provides complete visibility of security to the SOC analyst. It is a centralized solution that enables detection and allows for investigation while providing insight visibility.
- To be more precise CDACSIEM aggregates, normalizes, stores, and applies analytics to the data to detect threats and generate alerts for remediation.

Pre-requisite for deployement of product

Log Collector - Multi-core CPU (8+), 32–64GB RAM, 2TB+ SSD/NVMe storage

Analytics Server - High-performance CPU (16+ cores), 128GB+ RAM, high-speed disk I/O, 4TB SSD/NVMe

Correlation Server - Scalable storage (4TB+ per node), 64-128GB RAM, RAID setup

Application Server - High-performance CPU (16+ cores), 128GB+ RAM, high-speed disk I/O, 1TB SSD/NVMe



See it in action - Request a demo to know about the product

OBRIC - OBjective Response Image based Capture

OBjective Responses Image based Capture

Key Features

- Fast and cost-effective solution for:
  - MCQ exams
  - Data collection
- No need to use special paper or scanners
- Fully configurable:
  - Sheet Design
  - Output format can be customized
  - Candidate information can be encoded in QR code
- Sophisticated Diagnostics module for:
  - Attendance verification
  - Marks verification
- Result Analysis

Key Use case

- Class Tests/Assignments
- Course Feedback forms
- Screening Tests for recruitment, fellowships
- Competitive Exams

Deployments

- Government Organizations:
  - ACTREC
  - ICG
  - CBI
  - NIRRH
- Corporate Organizations:
  - CDAC
  - D-Mart



Product Key benefits

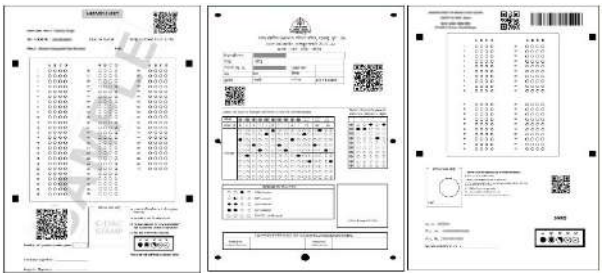
- Can be used for processing **objective type tests, exams, recruitments**
- Processes scanned response sheets
- Displays processed output as per requirement
- Provides results for large number of candidates in short time
- Effective where availability of infrastructure for online tests is not available
- Security and integrity are of utmost significance
- Answer sheet customization
- Minimize human errors

Product Description

- Web-based system for processing objective type tests conducted using specially designed answer sheets.
- Processes scanned images of response sheets and display results.
- It uses image processing to identify ovals and shading within the oval.
- Currently OBRIC is being used for recruitment & competitive examinations.

Deployment:

OBRIC can be installed using an installer in a standalone system for use or can be used as a web-based solution.



See it in action - Request a demo to know about the product

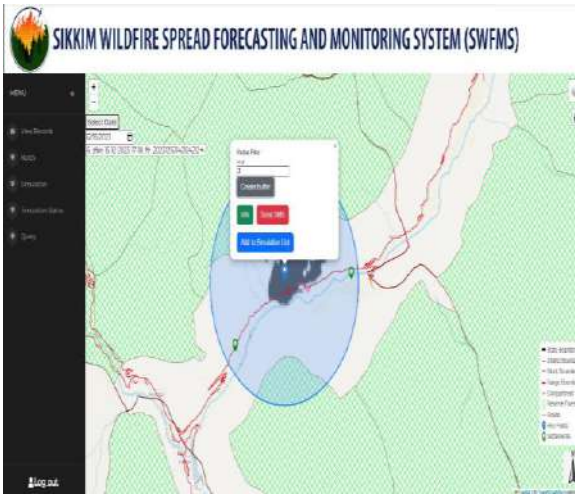
Forest Fire Spread Forecasting

Key Features

- Forest Fire Spread Forecasting upto next 48 hours
- Visualisation of forest fire spread forecsat in Geographical Information Systen (GIS)
- SMS alerts to registered stakeholders in the specified buffer region
- Provisioning of injesting satellite based as well as field based fire alerts in the system

Key Use case

- The fire spread forecasts were used by the Forest Department Sikkim for the live fires happened on 27 January 2023 and 12 March 2024
- The fire spread forecasting was carried out in different terrains and fuel types
- The department found the forecast useful for forest fire spread control related activities
- The system will be extremely useful in forecasting the wildfire in the regions where country boundaries are associated with the forests (i.e. Forest fire in one coutry may spread to other country)



Product Key benefits

1. Safuegurding lives, properties and precious natural resources
2. Controlling the spreading wildfire in most strategic manner on a near real time basis
3. Alerting only to the potential stakeholders and avoiding large scale panic
4. Sending near real time forest fire spread forecasts polygons (.kml) to the field staff for controlling the spreading wildfire on real time basis

Product Description

- The Sikkim Wildfire Spread Forecasting System (SWFMS) has been developed for Sikkim, India, however it has the potential for global deployement after some area specific research
- The forest fire spread forecasting is carried out on remote High Performance Computing system based on the simple inputs (fire location, date, time and duration for which the simulation needs to be carried out)
- The system has been developed using WRF SFIRE open source model
- Simple internet connectivity is required to carry out forest fire spread forecasting
- Instant reports can be generated based on the user specified queries
- Role based system

Pre-requisite for deployement of product

- Availability of Fuel model (linked to landuse landcover map)
- Availability of High Performance Computing (HPC) system
- Other hardware (i.e. server storage devices etc.)
- Internet connectivity



See it in action - Request a demo to know about the product

Meghdoot Cloud Suite

Key Features

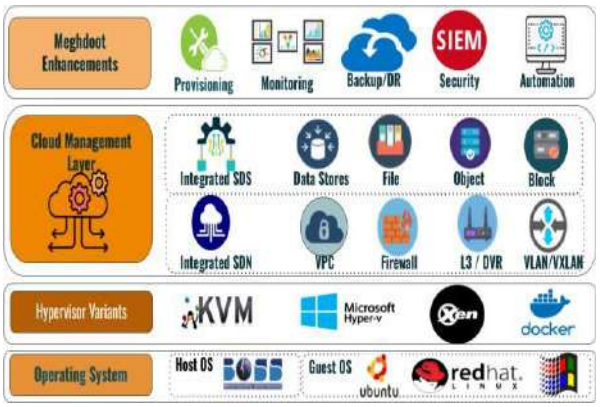
- Virtualization
- Containers
- HA Clustering
- Software Defined Storage (SDS)
- Software Defined Networking (SDN)
- Live Migration

Key Use case

- **Government-Focused Deployments**
- Private & Public Cloud Solutions
- Disaster Recovery (DC-DR)
- Training & Capacity Building
- Master Application for International Trade

Deployments

- Tamil Nadu State Data Centre, Chennai (2013 – 2024)
- Tamil Nadu Disaster Recovery Centre, Trichirapalli (2021 – 2024)
- ELCOT – Cyber Security Architecture for Tamil Nadu, Chennai (2021 – till date)



Product Key benefits

- **Customizable Workflows**
  Specifically designed to suit Government processes with flexibility for tailored implementations.
- **Plug and Play Modules**
  Modular architecture allows easy integration and scalability as per user requirements.
- **Direct Support from C-DAC**
  Deployment, support, and training are directly handled by C-DAC, ensuring expert guidance and control.

Product Description

- Integrated IT Infrastructure: All-in-one Cloud solution for computing, storage, networking and backups.
- Highly Available Cloud Services:
  - Mirrored and replicated database, messaging, and caching services.
  - Distributed geo-replicated cloud Images to efficiently manage and deploy cloud resources across different locations.
  - Live undisruptive services by migrating virtual machines between servers.
  - Prepare for emergencies with an active-passive Disaster Recovery solution.
  - Distributed Compute Nodes to efficiently run applications and services across multiple servers.
  - Thin Provisioning: Optimizes resource utilization with thin provisioning.
- Software Defined Storage - Object, File and Block Storage with secure access and replication across different locations.
- Centralised Management with Web-based dashboard for easy control over all IT resources like servers, networks, storage and security.
- Software Defined Network (SDN) with Open vSwitch (OVS) for flexible and efficient network management with virtual routers, switches, firewalls and load balancers for efficient network segmentation, supporting isolated tenant networks.
- Monitoring Solutions to keep track of system performance and security events.
- Lifecycle Management
  - Automated Upgrades and Rollbacks for easy updates and reversions to keep systems running smoothly.
  - Automated Backup and Restore to safeguard data and easily recover from incidents.
- Security Framework: Strong security measures to protect data, identity and inventories.
- Orchestration Solution: Automated management of workloads and resources.



Pre-requisite for deployment of product

Base Infrastructure : Servers to host components like KVM, OpenStack, Docker, Ceph, etc.

Video link:
https://shorturl.at/ZCBox

Urban environment Science to Society (UES2S)

Key Features

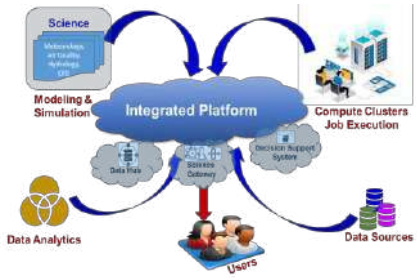
- HPC based fully automated model simulation workflows
- Integrated Hydro-Met Coupled modeling
- Database Management System
- Flood forecasting
- Model output Verification Validation & Visualization
- Integrated Decision Support System

Key Use case

- Warning system for street level water logging
- Ward wise storm water situation
- Forecasting, information & warning system of flood events
- Ward wise emission levels
- Pollution Concentrations & scenarios
- Real-time traffic congestion hot-spots
- Transport of pollutants and microscale pollution scenarios due to dispersion
- Heat wave/Cold wave info
- Extreme events/UHI
- High-resolution forecast data

Stakeholders

- Disaster Management Authorities
- Central & State Pollution control boards, Municipal corporations
- Water Resource Dept.
- Researchers, Common Man





Product Key benefits

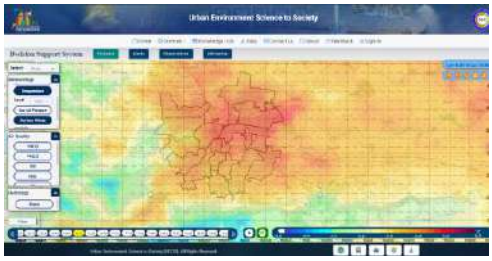
- Research and development of urban specific models for weather extremes, flood and Air Quality
- Integrated Modelling Framework
- Inter-operable data, products, scientific methods, decisions and impact information under one roof
- Multi stake-holder, multi-sector access to a common platform for a city
- Uniform standard operating procedures for data, modelling and Decision Support System applicable to various cities – avoiding duplication of city ICT efforts/cost
- Administrator/Citizen centric urban environment

Product Description

UES2S is an online fully coupled urban 'meteorology, hydrology, and air quality' modeling system developed under the NSM Urban Modelling Project. This system captures the urban representation of micro-scale city environmental conditions. UES2S has three major components: Data as a service (DataHub), modeling platform as a service (Science Gateway), and Integrated Decision Support System (DSS) for cross-sector end-user decisions. Through DataHub, we intend to provide cross-sector data access and a data-sharing facility. The Science Gateway has automatic end-end modeling workflows enabling ready-to-use weather, hydrology, and air quality models on NSM clusters. The DSS component facilitates the translation of scientific data into multi-stakeholder interactive actions. The DSS provides high-resolution weather, air quality, and hydrology forecasts along with the forecast of reservoir inflows, water levels, and discharge for flood management and mitigation. Thus, the DSS is integral to disaster management activities, daily operations, and science-based policy decisions.

Pre-requisite for deployment of product

UES2S is a web-based product so it can be accessed via any modern browser.



See it in action - Request a demo to know about the product

M-PRABANDH

Key Features

- Centralised Management Dashboard
- Real-time Location Tracking of Devices
- Seamless Device Onboarding
- App Usage Monitoring & Analytics
- MDM Agent for Enhanced Control
- App Installation Tracking & Management
- Role-based Access Control
- App Risk Assessment & Monitoring

Key Use case

Below audience can use to manage the devices as per their requirements:

- Strategic Agencies
- Enterprisers
- Startups

Deployments

- Currently there are no active deplyements for M-Prabandh.



Product Key benefits

- Effortlessly manage all devices from a centralized dashboard.
- Gain deep insights into device specifications and real-time statistics.
- Assign access levels based on user roles, enhancing security.
- Track and manage app installations across devices, ensuring compliance

Product Description

- M-Prabandh MDM solution allows organizations to effectively monitor & manage mobile devices and reduce the risk of data breaches & theft. It also aids in safeguarding business critical information, and uphold data security standards
- The solution supports a hassle-free device onboarding, efficient policy enforcement, and user device management.
- It also helps in gaining valuable insights into device specifications, real-time statistics, and get comprehensive information for informed decision-making.
- Further, features such as the centralized security policy management, app risk assessment, and role-based access control secures the devices and provides controlled access to the business data.

Pre-requisite for deployement of product

- **Linux System (Ubuntu 20.04, RAM 16GB+, Storage 500GB+)**
- **Physical device, BYOD (Bring Your Own Device)**
- **Internet Connectivity**

M-PRABANDH

See it in action - Request a demo to know about the product

BOSS - Bharath Operating Systems



Key Features

- Enhanced Security
- Multi-Language Support
- Customizable
- Familiar Windows like User Interface
- Various Tools
- Office Suite Integration
- Package Management

Key Use case

- Government & Public Sector
- Educational
- General Purpose
- Research & Academia
- Defense & Strategic Organizations

Deployments

- 6.5 Million deployments across India.
- Indian Navy, Indian Army, Indian Coast Guard. DSCC, Wellington, IDS, SFC and DGQA
- .MCME, TN School, ELCOT, Govt. Kerala, Punjab, Haryana, and Chhattisgarh

Product Key benefits

- **Security & Privacy - Built with strong security features and regular security updates.**
- **Multi-Language Support - Native support for Indian Languages.**
- **Free & Open Source - Open-source nature allows for extensive customization.**
- **Hardware Efficiency - Runs well on older and budget hardware configurations.**
- **User-Friendly Interface - Designed for ease of use, even for those new to Linux.**

Product Description

BOSS (Bharat Operating System Solutions) GNU/Linux is an Indian Linux distribution based on Debian, developed by C-DAC (Centre for Development of Advanced Computing).

The Latest BOSS 10.0 Desktop distribution integrates the Cinnamon Desktop Environment, providing user-friendly interface with Windows like and open source themes, offers robust support for Indian languages and a diverse range of software options.

The BOSS Linux has been released in various flavors for different purposes:

- **BOSS Desktop: Designed for personal, home, and official use.**
- **EduBOSS: Designed for schools and the education community.**
- **BOSS Advanced Server: The server-oriented edition.**

Pre-requisite for deployment of Product

Recommended Configuration:

Processor: 2 GHz or better, multi-core recommended
Memory (RAM): 2 GB minimum; 4 GB or more for modern desktop environments
Disk Space: 20 GB or more for standard installations with a graphical interface
Architecture Supported: x86-64 (64-bit)

Video link

https://shorturl.at/KEwxu

PARIKSHAN

Key Features

- Network Endpoints Analysis
- Native API Monitoring
- Generation and Injection of payloads
- Runtime Code Injection
- Anti-reversing Defenses

Key Use case

- Developers can use the tool to find and mitigate major vulnerabilities in the application.
- Analysts can use to perform VAPT
- Behavior Analysis of applications

Deployments

- Deployed at SVPNPA
- Deployed for Internal Audit Team at C-DAC Hyderabad.



Product Key benefits

- Comprehensive Static and Dynamic Analysis
- Find the vulnerabilities in the application and perform exploitation also for few of them
- Fully Automated and Manual Dynamic Analysis Testcases
- Detailed combined audit report (SAST & DAST) with OWASP Mobile Top 10 mapping

Product Description

- Parikshan is an Automation tool mainly focused on performing static and dynamic analysis of mobile applications. The tool has the capabilities to identify the security vulnerabilities and perform penetration testing for a few of them. As an outcome, a detailed security audit report is generated containing the information about the identified vulnerabilities, which aids to carry out further analysis.
- The product can be used by Developers and Analysts to find and mitigate/report the vulnerabilities present in the applications

Pre-requisite for deployement of product

- Linux System (Ubuntu 20.04, RAM 16GB+, Storage 500GB+)
- Internet Connectivity



See it in action - Request a demo to know about the product

C-FLOOD



Product Key benefits

- Advance Warning, Smarter Decisions
  - Get 2-days advance flood forecasts with precise inundation extent and water levels, enabling disaster managers to take timely, informed decisions and plan effective flood mitigation strategies.
- Flexible, Basin-Ready Design
  - A modular and adaptive model setup allows seamless customization for any river basin, ensuring rapid deployment across diverse geographies.
- Integrated Basin-Level Flood Modelling
  - Built as a comprehensive framework, the system delivers robust flood simulations at the river basin scale, accounting for complex hydrological and hydraulic interactions.

Introducing the Next-Gen Unified Flood Forecasting Portal

A powerful online platform delivering high-resolution 2-day flood forecasts with a lead time of up to 1.5 days, empowering early action and disaster preparedness like never before.

Key Highlights:

- Pinpoint Precision: Access flood inundation forecasts with unmatched spatial and temporal granularity, detailing both depth and extent of flooding.
- Global Reach: Build custom 2D flood simulation models for any location in the world — no matter how remote.
- High-Performance Computing: Powered by massively parallelized models running daily on NSM's HPC infrastructure, delivering forecasts with a rapid 2-hour turnaround.
- Fully Open Source: Built entirely on FOSS (Free and Open Source Software), making it cost-effective, license-free, and ready for scaling or replication across regions.
- Action-Ready Lead Time: The 48-hour prediction window gives emergency managers critical time to plan evacuations and response efforts, safeguarding lives and infrastructure.

⚯ Where science meets action — turning data into decisive preparedness

Key Features

- Delivers 2-days advance flood forecast (water level, inundation extent, village level % inundation)
- Water progression available every 3 hours
- Online Portal Access delivering real-time flood forecast information accessible anytime, anywhere.
- High-Resolution Inundation Maps

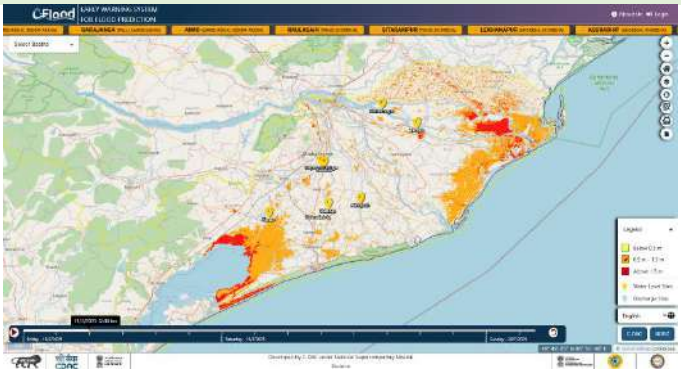
Key Use case

- Central Water Commission
- Odisha State Water Resources Department
- National Dam Safety Authorities

Deployments

- inf.cwc.gov.in

It is an user-friendly and unified inundation system, and can be accessed online.



See it in action - Request a demo to know about the product

Online Comprehensive Recruitment Sytem

Key Features

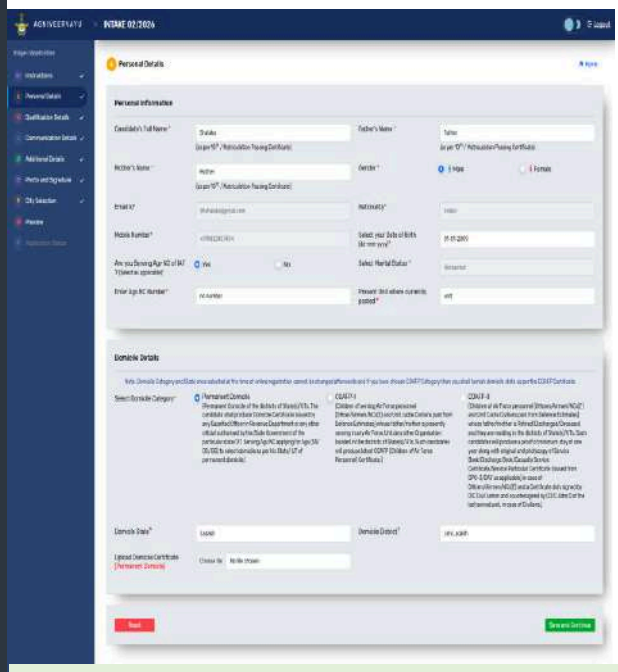
- Registration as per Eligibility criteria
- Digilocker Integration for Seamless Signup & automated Educational document fetching
- Live Photo capture & Face Matching to avoid Impersonation
- Image Correction & Compression while uploading of documents
- Real-Time Registration Monitoring
- Multiple Payment Gateway Integration for Fee payment
- Post-Registration Correction Window
- Seat allocation & Admit Card generation
- Multi-Stage Result Publishing
- Notification via Email & SMS

Indigenous Suits

- Website, Registration
- Complaint Management System
- Payment reconciliation System
- Question Paper generation
- Biometric Software
- Encrypted paper generation
- Exam Software
- BOSS PXE
- Result Processing System

Deployments

- https://afcat.cdac.in
- https://agnipathvayu.cdac.in/
- https://joinindiancoastguard.cdac.in



Product Key benefits

- Online Registration with Secure Identity Verification using Mobile & Email OTP
- Post selection as per Eligibilty criteria filtering
- Reduction of manual errors and fetching of authenticated documents (Educational certificate, marksheet,etc) via Digilocker
- Secure Data Storage for Candidate Profiles (Personal, Qualification, post applied, communication and additional details)
- Secure Online Payment Gateway
- 24x7 Access & Technical Support
- Easy & transparent recruitment process

Product Description

- The Registration Portal is a secure, web-based recruitment platform developed to streamline the application and selection process
- It acts as the primary registration and login interface for Officers,Sailor & Agniveer recruitment process.
- Candidates create an account using email/phone, verify via OTP, then log in to fill Personal, Qualification, select applicable stream or post,communication and additional details or questionaire, upload documents, pay fees, and track their application status until induction.
- Successful applicants can attend exam at allotted centre, access exam results,download E admit cards, attend Phase-II,III testing, and final merit lists through this portal.Candidate will be notified via Email & SMS at each stage
- Question bank system for paper generation,Biometric software for verification and Boss PXE,exam software for exam conduction and result processing system are also major application used for smooth execution of recruitment process of Indian Air Force & Indian Coast Guard.

Pre-requisite for deployement of product

For Application (Quantity of server as per traffic)

32 GB RAM, 16 vCPUs, 500 GB storage (ROOT)

(3 to 5 TB) NFS mount for document upload as per registration count,

JAVA 17,Tomcat 10, Operating System: latest Linux

For DataBase (Quantity 2)

32 GB RAM, 16 vCPUs,500 GB storage (ROOT)

Postgres 14 or above, Pgadmin,Java 17



See it in action - Request a demo to know about the product

C-DAC Revival

Key Features

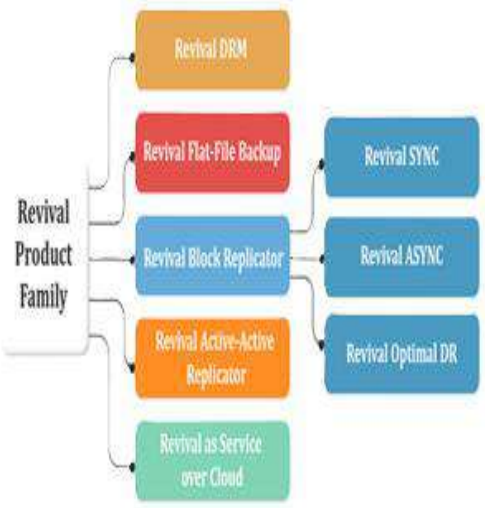
- Indigenous and Secure Patented Technology
- Negligible RPO and RTO
- Bidirectional Replication & Recovery
- Efficient Network Utilization
- Revival @baremetal Hypervisor
- Revival @RDBMS and NoSQL
- Centralized Monitoring & Management

Key Use case

- Data Centre Service Providers
- E-Gov application and Critical Infrastrcucture
- Small and Medium Business Applications
- Financial and Banking Services
- Healthcare and Education

Deployments

- Long Range Identification and Trcking (DG shipping)
- mSeve Appstore
- Adhar Data Vault
- NCCC -CertIN project
- National Family Health Survey
- C-DAC eMulazim
- Nation Service Delivery Gateway
- Maharashtra - Chief Minister Relief Fund
- Mahrashtra Marathi Bhasha



Product Key benefits

- A **cost-effective, flexible, and scalable** Business Continuity framework.
- Indigenous Development:ensuring **data sovereignty, security, and compliance** with government and enterprise requirements.
- Offers **automated failover and failback**, minimizing human intervention and reducing recovery time significantly.
- Supports **on-premises, cloud, and hybrid environments**, ensuring compatibility across different IT infrastructures.
- Research-Backed Innovation

Product Description

C-DAC Revival Disaster Recovery product family consists of a variety of data replication and backup solutions to provide end to end disaster recovery for enterprise business applications. C-DAC Revival products can be used to manage planned and unplanned outage, enabling 24x7 data availability for business. It provides long term business continuity, continuous data availability and customer satisfaction ensuring near zero RPO and negligible RTO for the business-critical data.

C-DAC aims in understanding the application specific need for disaster recovery based on the data generation pattern of it. This will guarantee near zero data loss and negligible downtime through a customized disaster recovery solution specific to user's actual need. We designed and implemented variety of solution considering different data patterns.

Pre-requisite for deployement of product

- **Installlers are available on Linux/ Windows operating systems and containerised platfoms**

Accolades and Recognitions

- Patent Application No. 3104/MUM/2010 Patent Number: 321137, Awarded in 2019
- NASSCOM Innovation Award-2012 Category-New Technology Advancement Runner Up
- SKOCH Order of Merit Award Multi-site DR as a Service on Cloud





INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS GEOGRAPHICAL INDICATIONS

See it in action - Request a demo to know about the product

SeisRTM - A HPC Software Suite for Seismic Imaging to Aid Oil & Gas Exploration

Key Features

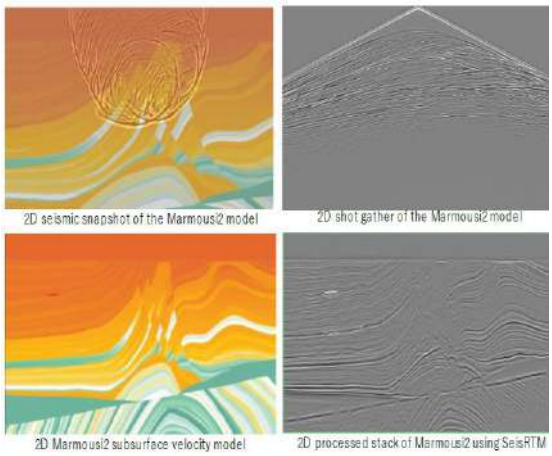
- Acoustic Two-way wave equation-based formulations.
- Higher Order Finite Difference
- CMPL Boundaries
- Choice on imaging conditions CC and NCC
- Parallel on Shots using CPU Cluster
- Supporting higher frequencies
- Target oriented imaging
- Shot Image gathers as RTM outcome
- Tools for pre data preparation and QC

Key Use case

- Imaging subsurface structures
- Identify potential Oli and Gas reservoirs
- Optimizing Drilling site selection

Deployments

- Oil Companies
- IITs



Product Key benefits

- Handles complex geology with high accuracy
- No dip limitations
- Accurate mapping of subsurface structures
- Enhaced image quality and resolution

Product Description

- Under the National Supercomputing Mission (NSM), “A HPC software suite for seismic imaging to aid oil and gas exploration” is a “Make in India” initiative to develop a customizable and efficient RTM software “SeisRTM”.
- It can provide high-resolution 2D & 3D seismic images of complex geological subsurface using acquired large seismic data. This software provides 2D modelling and RTM capabilities for both isotropic and anisotropic (VTI and TTI) media, as well as 3D isotropic modelling and RTM.
- SeisRTM offers both a Command Line Interface (CLI) and a Graphical User Interface (GUI) for user flexibility and includes an in-house developed data visualization tool to streamline data analysis and visualization.
- The indigenously developed "SeisRTM," built on NSM infrastructure, will serve as a seismic imaging facility, delivering 3D RTM capabilities for upstream oil and gas exploration companies in India.

Pre-requisite for deployement of product

- Processor: Intel/ AMD Series, Multi cores CPU platform, 1.3 GHz or more
- RAM : 64 GB
- Software: Intel compiler suite
- HPC Node: 2 (minimum)
- OS : Centos 7 or similar

SeisRTM

See it in action - Request a demo to know about the product

Virtue HCI

Key Features

- Virtualization powered by KVM and LXC technologies
- Software-Defined Storage (Ceph)
- Software-Defined Networking (SDN)
- High Availability & Cluster Management
- Dynamic Resource Allocation
- Single Unified Dashboard for infrastructure management
- Integrated Virtual Desktop Infrastructure (VDI) application
- Fully Managed Backup Solutions
- Supports image portability across multiple hypervisors
- Live Migration of VMs and Containers

Deployments

- IB
- CSATN
- BEL MILCOM
- UTIITSL (UTI Infrastructure Technology and Services Limited)



Product Key benefits

Simplified Management-
Single pane of glass control
Seamless Scalability –
Grow resources on demand
High Availability - Ensured uptime
Cost Optimization –
Efficient resource utilization
Robust Security –
Built-in data and access protection

Product Description

- C-DAC Virtue: Indigenous Hyper-Converged Infrastructure (HCI) platform developed under the Atmanirbhar Bharat initiative.
- C-DAC Virtue is a high-performance virtualization platform optimized for efficient cloud management, robust security, and seamless scalability. It integrates computing, storage, and networking into a single appliance using indigenously developed BOSS Linux, BOSS Enterprise Management Solutions, and other custom software. Ideal for small to medium-sized environments, it simplifies deployment and management.

Pre-requisite for deployment of product

- **3 nodes are minimum requirement**



See it in action - Request a demo to know about the product

AGNIVESH – Wireless Early Fire Detection System

Key Features

- ***Near real-time fire detection***
- ***Portable low power nodes***
- ***Long battery backup***
- ***Zigbee communication***
- ***Event-based alerts***
- ***Dashboard visualization***



Product Description

AGNIVESH is a standalone system with the facilities of data storage, data visualization and alarm notification. System comprises of battery powered sensor modules, wireless routers and a gateway for data aggregation. Utilizing a multisensory (smoke & heat), the system quickly detects fire hazards and delivers real-time wireless alerts, enabling swift responses and improved safety in critical environments.

Product Key benefits

- **Faster Emergency Response:**
  🔥 Near real-time fire detection enables immediate awareness of fire hazards, reducing response time and potential damage
- **Easy Deployment & Flexibility:**
  ⚡ Portable, low-power sensor nodes can be quickly installed in various locations without extensive infrastructure, ideal for dynamic or remote environments
- **Extended Operation Without Maintenance:**
  🔋 Long battery backup ensures continuous monitoring even in power outages or off-grid areas, minimizing maintenance needs
- **Reliable & Scalable Communication:**
  📡 Zigbee-based wireless communication offers stable, mesh-network connectivity, supporting scalable deployment across large areas
- **Prompt & Relevant Notifications:**
  🔔 Event-based alerts notify users only when a significant change or risk is detected, avoiding unnecessary interruptions and focusing attention where it's needed
- **Actionable Insights Through Visualization:**
  📊 A user-friendly dashboard presents real-time and historical data for easy monitoring, analysis, and informed decision-making

End User

- Smart Buildings
- Industrial Facilities
- Heritage Sites & Museums
- Remote & Unattended Sites
- Construction Zones
- Data Centers & Server Rooms

NLOS - VICINITY

Key Features

- Non-Line of Sight(NLoS)
- Smartphone based user positioning
- User Friendly

Key Use case

- Smart Advertising
- Location based Services

ToT Partner

Nav Wireless Technologies Pvt Ltd



Product Key benefits

📱 **No extra hardware needed:** Uses smartphones for user positioning, reducing costs and simplifying deployment

🚀 **Fast and scalable rollout:** Easy to implement across various locations without complex infrastructure

🤲 **User-friendly experience:** Intuitive interface encourages quick adoption and smooth daily use

🏢 **Ideal for indoor environments:** Perfect for malls, airports, hospitals, warehouses, and other complex indoor spaces.

Product Description

NLoS-Vicinity is a cutting-edge indoor positioning system that leverages Visible Light Communication (VLC) and Non-Line-of-Sight (NLoS) technology to deliver highly accurate user localization. Designed with user comfort in mind, it offers a novel solution ideal for smart proximity advertising and advanced location-based services.

Video link

https://shorturl.at/RyWaz

C-Chakshu

Key Features

- Multi Cluster Monitoring
- Smart Web User Interface
- Accuracy and Report Generation
- Integrated Ticketing Tool
- LDAP User Management
- Benchmark Information



Product Key benefits

- Live CPU/Mem Monitoring
- Partition wise Usage
- Job Statistics
- Health and Application Monitoring
- 3D Rack View Visualization
- Node Wise and Job Wise Utilization

Key Use case

- Billing
- Health Monitoring
- Jobs View
- Rack View

Product Description

- C-CHAKSHU provides a menu driven interface that is predominantly categorized into two pivotal areas namely the User Area and Admin Area Interfaces. All HPC System users can login to this system with same credentials
- To monitor and manage NSM systems requires distributed, real-time, performance monitoring system, hence C-CHAKSHU.
- Multi cluster Monitoring tool developed as per special requirements of administrator and user under NSM project. It is more convenient for HPC system administrators since it provides information for most the required monitoring metrics
- A single dashboard through which administrators can monitor and manage multiple clusters under NSM

Deployments

- All The NSM Systems
- NARL
- NTRO

Pre-requisite for deployement of product

Python Virtual Enviornment



See it in action - Request a demo to know about the product

SATYA

Smart Accessibility Testing for your Application

Key Features

Standards Compliance: Ensures alignment with key accessibility standards such as IS17802, GIGW and WCAG

Easy Integration: Easily test accessibility issues directly from your browser

AI-Powered Analysis: Leverages AI to detect complex and subtle accessibility issues beyond standard rule checks.

Reduces Manual Effort: Automates repetitive testing tasks, saving time and developer resources.

Detailed Reporting: Generates clear, actionable reports to help prioritize and fix issues efficiently.

Real-Time Testing: Instantly identifies issues during development for faster resolution.

Scalable Across Projects: Easily used across multiple pages, apps, or sites—ideal for large-scale teams.

Cost-Effective: Reduces post-release fixes and the risk of non-compliance penalties.

Design Validation Support: Help design teams assess and align UI/UX decisions with accessibility standards.

Key Use case

Legal Compliance with RPwD Act & IS 17802: With the amendment to India's Rights of Persons with Disabilities (RPwD) Act and mandatory implementation of IS 17802 standards, all public and private websites and mobile applications must be accessible— This creates a growing demand for solutions that ensure compliance with accessibility requirements, offering a promising market for such tools.

Product Key benefits

- **Legal Compliance**: Helps ensure alignment with accessibility standards (e.g., IS17802, Accessibility pointers of GIGW 3.0,WCAG).
- **Efficiency**: Reduces manual testing effort and saves time.Quickly scans large volumes of content for accessibility issues.
- **Consistency**: Applies the same checks uniformly across all pages.
- **Cost-Effective**: Lowers costs by minimizing late-stage or post launch fixes.
- **Improved User Experience:** Enhances accessibility for all users, including those with disabilities

Product Description

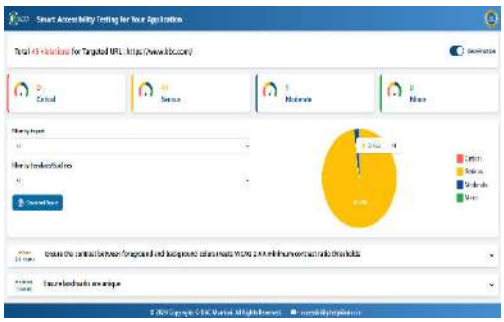
SATYA is an Automated Accessibility Testing Tool which empowers developers and QA teams to create inclusive digital experiences by instantly detecting accessibility issues across websites and mobile apps. With seamless integration as a browser extension, it enables real-time testing. AI-powered features intelligently identify complex accessibility barriers, reducing manual testing efforts and speeding up issue resolution. Aligned with IS 17802, GIGW, and WCAG standards, the tool offers detailed reports, actionable insights, and detailed help —helping teams improve usability, ensure compliance, cut down on costly post-launch fixes and build digitally inclusive solutions.

Pre-requisite for deployement of product

System Requirements: Multiple Dual/quad-core processor, 16 GB RAM, and 100 GB free disk space.

Stable Internet Connection

Modern Web Browsers



See it in action - Request a demo to know about the product

Contact: Accessibility.help@cdac.in

Forest Management Information System (FMIS)

Key Features

- Role-based access for Divisional Forest Officer, Range Forest Officer, Forester, circle and Admin
- Nursery Management, Plantation Management, Enumeration Module & Forest Offence Module
- Master Management (jurisdictions, users, species, offences, etc.)
- Integration with mobile app (ePaudhshala)

Key Use case

- Tracking nursery stock and plant distribution at range level
- Approving plantation activities and species replacement
- Recording enumeration and re-enumeration of trees
- Managing organizational hierarchy and user access centrally

Deployments

- Deployed across Haryana Forest Department
- Accessible at all administrative levels: Range, Division, Circle, and Headquarters
- Integrated with mobile apps (ePaudhshala)



Product Key benefits

- Centralized MIS for all forest operations
- Increased transparency and accountability
- Timely reporting and approvals through hierarchical workflows
- Reduces manual record keeping and duplication of data
- Enables real-time monitoring of nurseries and plantations

Product Description

- **FMIS is a comprehensive web-based application developed by C-DAC Mohali for the Haryana Forest Department.**
- **It automates forest operations across multiple administrative levels (Nursery, Range, Division,Circle and Head Office).**
- **The system ensures structured, real-time, and transparent data management in areas like plantation, nursery stock, enumeration, forest offences, and master administration.**

Pre-requisite for deployement of product:
PHP 7.2.31, Apache server, PostgreSQL, Minimum 4-core server, 8–16 GB RAM, database server 50GB



See it in action - Request a demo to know about the product
URL: https://mis.haryanaforest.gov.in/

e-Hastakshara- An Online Digital Signing Facility

Key Features

- Indigenously developed Software for online digital Signature
- Two factor authentication (OTP with PIN) for ESP eKYC
- "Aadhaar-eKYC-OTP" and "Aadhaar-eKYC-BIO" class of Digital Certificate
- OTP/Biometric based authentication for Aadhar eKYC

Key Use case

- e-Governance
- Citizen Services
- Office Automation
- Digital Locker
- Financial Sector

Product Key benefits

- Time and Cost Effective
- Legally Valid Signatures
- Easy and Secure Accessibility
- Enhanced Privacy Protection
- Any Time, Anywhere

Product Description

C-DAC has developed e-Hastakshar – C-DAC's eSign service that facilitates instant signing of documents online by citizens in a legally acceptable form. Using this, an Electronic Identification holder can electronically sign a form/document anytime, anywhere, using device such as Personal Computer or Laptop or Mobile.

e-Hastakshar, C-DAC offers hassle-free fully paperless citizen services and convenience to users. C-DAC utilizes service of Unique Identification Authority of India (UIDAI) eKYC service and ESP eKYC service.

Pre-requisite for deployement of product
Java 17, Open SSL , PostgreSQL 9.0, MinIO, Tomcat 9.0

See it in action - Request a demo to know about the product

e-Pramaan National Single Sign On

Key Features

- **Multi-Factor Authentication**
- **Identity proof verification**
- **Flexible authentication chaining schemes**
- **2-way authentication**
- **Fraud management control**
- **First Level authorization**
- **Multi-device multi-platform support**
- **Access to state of art authentication techniques**
- **Mobile Authenticator App**

Key Use case

- **Financial Sector :** Banks, Insurance Companies, Financial and Securities solution providers, Land and Revenue related applications.
- **Government Schemes :** e-Districts, Government Health Schemes, Smart Cities Mission, Scholarship Programs, Public Distribution Schemes, etc
- **License/ Identity Issuing Authorities**
- **Intra-department services**
- **HR and Payroll Management, Purchase Management, etc**

Deployments

- epramaan.gov.in
- epramaan.meripehchaan.gov.in



Product Key benefits

- **Seamless User Experience -** User can seamlessly access multiple services with a single set of credentials without repetitions in any one given session.
- **Single Window Access -** The Single Sign-On feature provides registered users a single window access to all services integrated with e-Pramaan.
- **Data Security & Privacy -** e-Pramaan ensures channel security with asymmetric and symmetric encryption techniques. This combined with fraud management maintains the integrity of the system.

Product Description

- **e-Pramaan is a unique nationwide initiative of the Ministry of Electronics and Information Technology (MeitY), Government of India (GoI), that enables Single Sign On (SSO) and e-Authentication for government applications.**
- **e-Pramaan supports both Open Id Connect (OIDC) and Security Assertion Markup Language (SAML 2.0) standards. Departments can choose various multi-factor authentication, with additional features comprising of configurable chaining of authentication factors, web-site authentication, user identity verification.**
- **e-Pramaan offers a plethora of authentication factors : Password (Text based, Image based, Pattern Grid), One Time Password (OTP on SMS/email/App, Mobile PUSH notification), Biometrics (Fingerprint, Iris) and Digital Signature based verification.**
- **Deployment models: Cloud & On Premises**

Pre-requisite for deployment of product

- Cloud / Hardware Infrastructure
- SMS and Email Gateway



See it in action - Request a demo to know about the product

Question Paper generation System

Key Features

- Role based Login such as Admin, Paper Setter, Reviewer, Moderator
- Configurable Syllabus Structure at Subject, Unit & Subunit level
- Blueprint-based Question Paper Generation
- Flexible Question paprameters while blueprint designing Difficulty levels, Question type & Categories
- Anywhere, Anytime Question Addition
- Role based Question Workflow
- Bilingual Support using Machine Translation
- Master Set Generation and Approval
- Multi-Subject Paper Creation
- Release unused Mastersets and Papers

Key Use case

- Subject-wise & Course-wise instant Paper Generation
- Randomization
- Integration with Exam Scheduling
- Exporting & Printing of Question Paper
- Secure & Confidential

Deployments

- Indian Air Force, Delhi
- Indian Coast guard, Delhi



Product Key benefits

- Subjectwise Questions entry
- AI based Semantic Duplicate Detection.
- Role-based Workflow for Question Entry and Approval.
- Unlimited Reusability of questions
- Faster Paper Generation of paper as per blueprint with bilingual support
- Randomization of Questions in paper
- Multi-format Content Support while Question entry eg:-image, mathematical equations, tables, diagrams & text etc
- Insightful Reports.

Product Description

- The Automatic Question Paper Generation System (QPGS) is an intelligent, web-based solution designed to automate and streamline the creation of multiple-choice question (MCQ) papers for academic and competitive examinations. It offers a structured, secure, and collaborative environment for question entry, approval, and paper generation.
- QPGS allows institutions to build and manage a dynamic question bank categorized by subject, unit, subunit, difficulty level, and question type. It supports rich content formats including text, equations, and images, with real-time access for question creation and editing.
- Powered by AI, the system features semantic duplicate detection (using the all-mpnet-base-v2 model) to maintain the uniqueness and quality of stored questions.
- The platform provides customizable blueprint-based paper generation, enabling automated creation of balanced, randomized question papers, including master sets, group-wise paper generation, and bilingual support. The role-based workflow ensures secure, multi-level approvals and accountability.
- With built-in reporting tools, QPGS delivers actionable insights on question usage, subject coverage, and paper generation history, making it a reliable, scalable, and efficient solution for modern exam management.

Pre-requisite for deployement of product

1 Application server:

16 Gb RAM,1000 GB HDD,OS: Linux,Java -17,Tomcat 10

2 DataBase server:

16 Gb RAM, 500 GB HDD,OS:Linux,Postgres 14 or above, Pgadmin,Java 17



See it in action - Request a demo to know about the product

eSanjeevani
National Telemedicine Service

Key Features

- Dual telemedicine mode.
- AI based symptom checker
- Integrated with point of care devices
- Enable follow up consultations
- Multilingual Interface
- ABHA Integration
- Browser and App based
- Multiple VC layout

Key Use case

- Primary & Secondary care delivery in rural and underserved area.
- Remote consultation during public health emergencies.
- Specialist consultation through connected hubs from health centers
- Cumulative cost saving of Rs 6600 crore in India with teleconsultation

Deployments

- Pan India
- Over 1.5 lakh HWC
- More than 386.78 million



Product Key benefits

- Virtual online teleconsultation services for all citizens
- Supports doctor-to-doctor and doctor-to-patient models
- Real-time video consultation with registered medical practitioners
- Instant ePrescription generation and sharing
- Enables creation and access to electronic health records (EHRs)
- Reduces need for physical travel to hospitals, saving time and cost
- Compatible with smartphone, tablet, & other computing devices

Product Description

eSanjeevani – National Telemedicine Service is the Government of India's cloud-based telemedicine platform for providing remote healthcare services. eSanjeevani offers improved access to healthcare even in resource-limited settings, cost-effectiveness, convenience, reduction in the burden on OPDs in hospitals, and a safer way to receive medical care during pandemics.

Pre-requisite for deployment of product

For accessing eSanjeevani, users require an all-in-one PC/laptop/mobile, or tablet with stable internet connectivity and basic power backup to ensure seamless teleconsultations.

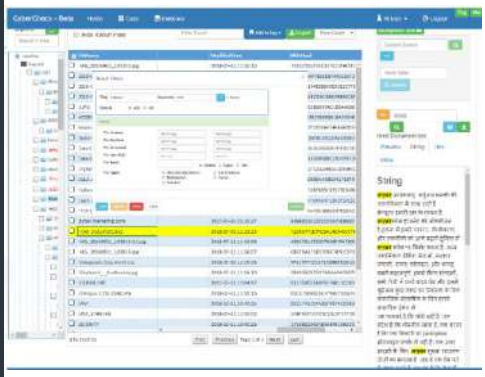


See it in action - Request a demo to know about the product

CyberCheck

Key Features

- Deleted data recovery
- Data carving
- Indexing and searching
- Artefact extraction and analysis
- Data export
- Timeline analysis



Product Key benefits

- Image integrity check using MD5 & SHA hashing algorithms
- Supports the analysis of major filesystems and disk image formats
- Data carving from 400+ file formats
- Encrypted disk decryption
- Windows registry analysis
- Overwritten & password protected file detection
- Artefact extraction from USNJournal, Thumbcache, Prefetch file, Web browsers etc.

Key Use case

- To investigate cyber-crimes involving storage media
- Data recovery from storage media

Product Description

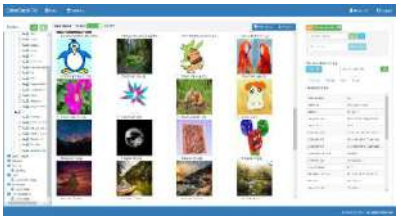
- **CyberCheck is a web based forensic data recovery and analysis software to enable Law Enforcement Officers to quickly and efficiently analyse digital evidence files of storage media.**
- **Recovers deleted files and folders from filesystems like NTFS, FAT, exFAT, Linux EXT, HFS and YAFFS**
- **Carves data from disk, slack areas, unallocated areas and files**
- **Processes Raw, TrueBack, EnCase images and Virtual disk images like VDI, VHD & VMDK**

Deployments

- Deployed in various Indian law enforcement agencies, financial institutions and academic institutions

Pre-requisite for deployment of product

- **Windows 10, 64-bit and above**
- **X64 processor, 16GB RAM minimum**



See it in action - Request a demo to know about the product

PhotoExaminer

Key Features

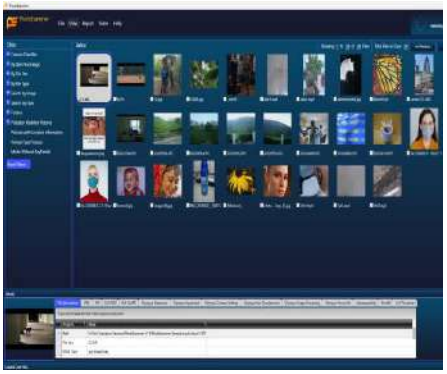
- Data Carving - Images.
- Extract metadata of images and videos.
- Image classification with filters.
- Increase Resolution of thumbnails and small images.
- Enhance dark images.
- Error Level Analysis
- Video Source Camera Identification.
- Video Frame Extraction
- Hidden Pixel Identification
- Thumbnail Mismatch Identification
- Customisable Report.

Key Use case

- Image Authentication
- Metadata analysis
- Image Enhancement
- Data Recovery
- Generate comprehensive reports of image evidences

Deployments

- Law Enforcement Agencies



Product Key benefits

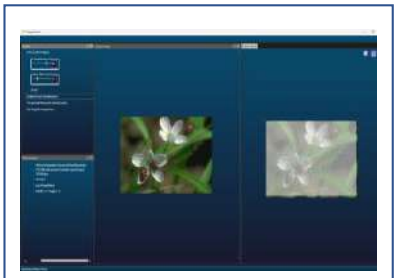
- Powerful Metadata Extraction
- Image Filtering
- Visual Enhancement Tools
- Tamper Detection
- Video Source Identification
- Data Recovery via Carving
- Face Detection & Similarity Search
- Customizable Reports

Product Description

- **PhotoExaminer** PhotoExaminer is a Micro Soft Windows based application for classifying ,enhancing, analyzing and generating the reports of image and video evidences. It provides nested search and filter options to reduce the overall dataset of digital images to only the relevant images.

Pre-requisite for deployement of product

- Intel® Core i7-8700 CPU, 8 GB RAM, 256GB HDD
- Windows 7/8/10 64 bit OS
- .NET Framework 4.5
- MATLAB Runtime R2014a
- Python 3.6.8



See it in action - Request a demo to know about the product

DARPAN™ S3

Policy based autonomic
network & cloud management

Key Features

- Hierarchical Distributed NMS
- Unified Management of LAN / WAN / WLAN
- Centralised Single Pane of View
- Real-Time Infrastructure Visibility
- Real Time Monitoring
- Support for Multi-Vendor Network Elements
- SNMP v1, v2 & v3
- Autonomic Management

Key Use-cases

- Network Management
- DataCentre Management
- IT Asset & Infrastructure Visibility
- Performance Monitoring
- Fault Detection and Incident Response
- SLA and Compliance Management
- Configuration and Change Management
- Multi-Cloud & Virtualized Infrastructure Monitoring
- WAN / MPLS Monitoring
- Intelligent Automation and Optimization

Deployments

- Multiple State Data Centres across INDIA
- Multiple State Wide Area Networks across INDIA
- Various Government & Accadamic Institutions



Product Key Benefits

- Automatic Resource Discovery
- Automatic Topology Discovery & Mapping
- Inventory Management
- Real Time Performance Monitoring
- Events & Notifications
- SLA Management
- QoS Monitoring
- Configuration Management
- Self-Configuration & Self-Protection
- Self-Healing & Self-Optimisation
- Hypervisor & Storage Monitoring
- Cloud Management
- MPLS Management
- Log Management
- Traffic Flow Analyser
- Help Desk Integration
- Application Monitoring
- Database Monitoring

Product Description

DARPAN™ Series 3 (S3) is a policy based distributed autonomic network management suite of solutions for heterogeneous multi-vendor IP networks. The system supports both centralized and distributed hierarchical management & is suitable for any size network ranging from small Local Area Network (LAN) to large geographically distributed multi-site enterprise networks. Darpan™ S3 support self-CHOP(Self-Configuration, Self-Healing, Self-Optimisation, Self-Protection) functions and management of MPLS networks and major cloud platforms such as VMWare vCloud and OpenStack. It ensures a hassle free administration of networks through unified visibility and control of network with the help of feature rich dashboards. The management portfolio of the system spans across Fault, Configuration, Accounting, Performance and Security. A ubiquitous access to this rich management information is provided through multiple client options such as Desktop and Web applications. The system can be further scaled in its capability through optional pluggable components for Traffic Flow Analysis, Log Management for Audit Support, SLA Management, Application Management, Database Management, Help Desk etc. The system supports wide range of management protocols including SNMP v1/v2/v3, SSH, Telnet, NetFlow, JFlow, IPFIX etc.

Prerequisites for the Deployment of the Product

Minimum System Requirements (for 1000 nodes):

- 64-bit Processor with 48 Cores, 96 GB of RAM, 2 TB Storage, 1Gbps NIC
- **Protocols:**
  SNMP, SMTP, Telnet, SSH, NetFlow, IPFIX, SFLOW, JFLOW



See it in action - Request a demo to know about the product

SARAN™
NextGen Service Desk

Key Features
- Multi-Tenant Architecture
- Multiple Profile Support
- Customizable Form Fields With Rich Set Of Field Types
- Hierarchical User Groups & Teams
- Support For Multiple Authentication Types
- Customizable Security Level
- Feature Rich Dashboard
- Extensive Search & Filtering Capabilities
- Comprehensive Analysis & Reporting
- Email/SMS Notifications
- API Based Third-Party Software Integration
- Extensive Logging For Audit Support
- Automatic SLA Computation
- Workflow-Based Automation/Escalation
- Flexible Licensing Schemes For Unlimited Users

Key Use-cases
- Incident Management
- Service Request Management
- Asset Management
- Change Management

Deployments
- Multiple State Data Centres across INDIA
- Various Government, PSU & Academic Institutions



Product Key Benefits
- Incident Management Profile
- Asset Management Profile
- Change Management Profile
- Service Request Management Profile
- LDAP/Local DB Authentication
- Organization Specific Custom Roles
- Service Ticket Create/Update From Email/SMS
- Graphical UI For Work Flow Management
- Business Hour/Holiday Management For SLA
- Custom Information Capture For Users
- Service Ticket Prioritization
- User Specific Search Query
- Customizable Rule For SLA Computation
- Custom Rule/Script Tasks For Workflow
- Customizable Checklist For Each Profile
- Manage Tickets Anytime, Anywhere with Mobile App

Product Description
SARAN™ is a web based Service Desk software designed and developed by C-DAC Thiruvananthapuram. It provides a completely customizable platform with automation support that helps organizations achieve better and productive collaboration among customers and service support teams. The comprehensive feature set and graphical rich dashboards help to get better insights into various service delivery functions.

Prerequisites for Deployement of Product
Minimum System Requirment :
- Server class machine with 16 Core Processors
- 32 GB of RAM
- 1 TB Storage



See it in action - Request a demo to know about the product

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