GTI Infotel Pvt. Ltd.

Corporate Overview

GTI InFotel

CMMi Level 5

ISO 9001:2015

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About GTI Infotel Pvt. Ltd., India & GTI Infotel, Inc., USA

GTI's Partners & Ventures:

About GTI Infotel Pvt . Ltd.
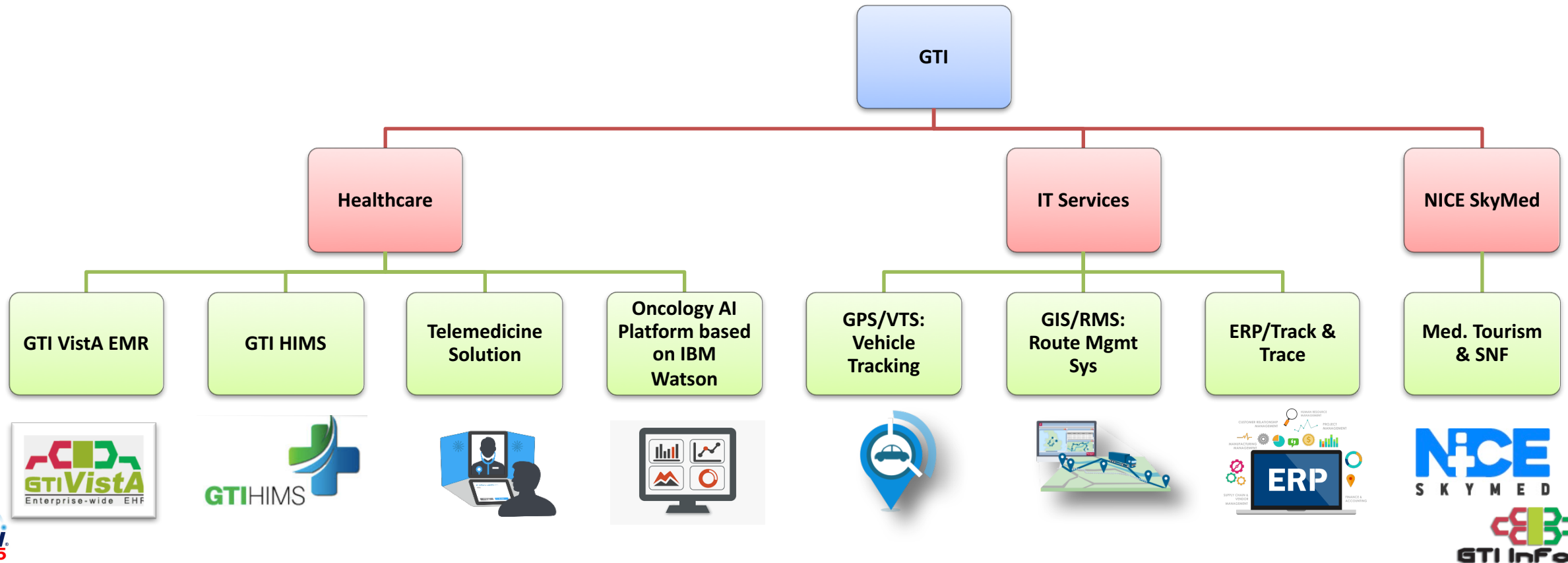
About Us:
- Established in 2008
- A CMM L5 & ISO 9001:2015 Co.
- HQ in Noida/Delhi
- Subsidiary GTI Infotel, Inc. in the US
- 200 employees worldwide

Recognition & Awards:
- **Paper Presentations**: Vista Community Meet, Fairfax, VA & Sacramento, CA, HIMSS, AIIMS, IIHMR & others
- **Awards**: OSEHRA, eIndia 2010, eIndia 2011, eHealth Expo 2011, mBillionth South Asia 2010 & IETE Gadadhar Memorial

Technology Expertise:
- **DB:** SQL, PostgreSQL, GT.M, Cache & Oracle
- **Tech:** Java, JavaScript, PHP, C#, C++, .Net
- **OS:** Windows & Linux
- **Mobile:** Android & iOS
- **AI:** IBM Watson

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                          GTI
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    Healthcare         IT Services        NICE SkyMed
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Healthcare
- GTI VistA EMR
- GTI HIMS
- Telemedicine Solution
- Oncology AI Platform based on IBM Watson

IT Services
- GPS/VTS: Vehicle Tracking
- GIS/RMS: Route Mgmt Sys
- ERP/Track & Trace

NICE SkyMed
- Med. Tourism & SNF

CMMI Level 5

GTI Infotel is proud to be a part of the ISO AND CMMI family of standards is a guideline on good quality management practices. This standard consists of standards and guidelines relating to quality management systems and related supporting standards.

The adoption of a quality management system is a strategic decision of GTI Infotel. The design and implementation of GTI Infotel's quality management system is influenced by:

- Our environment

- Varying needs
- Objectives
- Products or services
- Processes
- Size and structure

GTI Healthcare IT: Products & Serices

At this time of fight against Corona Virus, people are our biggest resource

Our Healthcare IT staff deployed in the front lines across 8 Hospitals are helping the Patients as well as the Doctors 24x7

We're truly grateful & inspired by the selfless healthcare members of GTI's family and other healthcare workers around the world who are on the front lines working tirelessly to care for people in need.
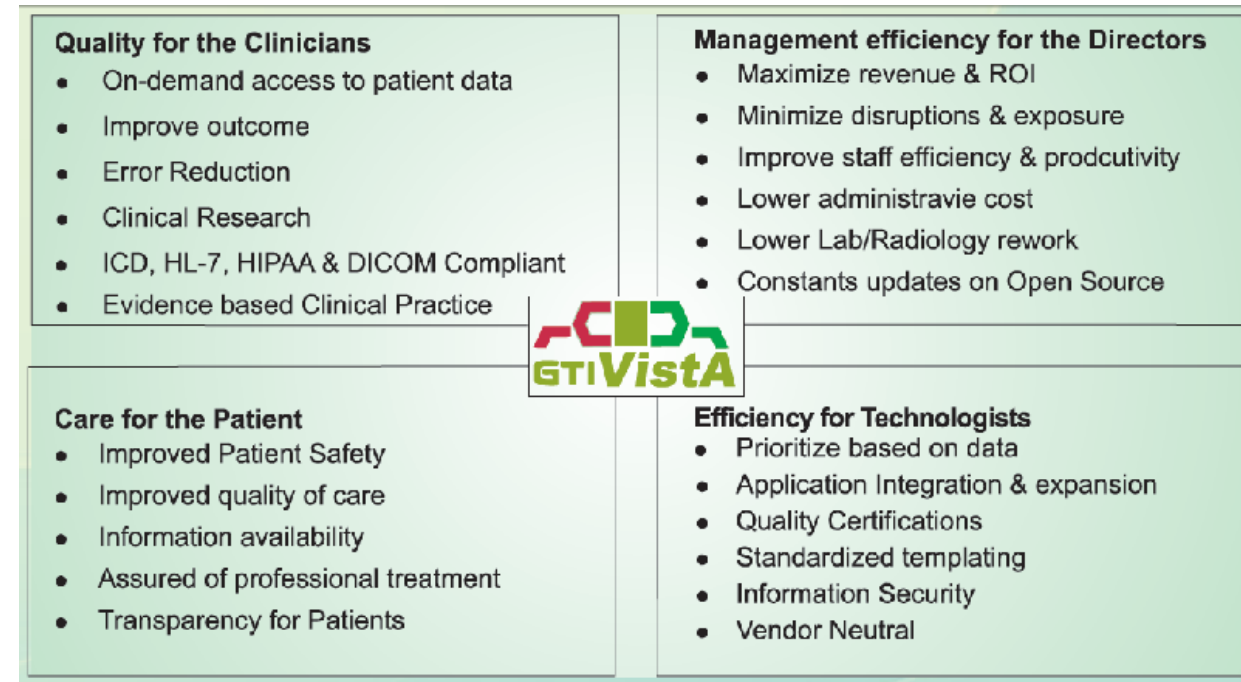
The GTI Hospital Information & Management System (HIMS) is a flexible, affordable and intuitive software solution developed collaboratively with healthcare professionals including physicians, nurses and pharmacists and designed to empower them to make better decision and enhance patient care and safety, while minimizing costs, resource expenditure and loss of revenue.

GTI HIMS is an integrated and scalable web-native platform that optimizes clinical, financial and operational outcomes. Its modular capability supports simple integration with additional clinical and ancillary solutions to support the continuum of care. Developed using healthcare industry standards. GTI HIMS also allow seamless integration with third-party IT solutions.

It's EHR is powered by one of the world's best VistA EHR, fully supported by GTI & Medsphere.

Quality for the Clinicians
- On-demand access to patient data
- Improve outcome
- Error Reduction
- Clinical Research
- ICD, HL-7, HIPAA & DICOM Compliant
- Evidence based Clinical Practice

Management efficiency for the Directors
- Maximize revenue & ROI
- Minimize disruptions & exposure
- Improve staff efficiency & prodcutivity
- Lower administravie cost
- Lower Lab/Radiology rework
- Constants updates on Open Source

Care for the Patient
- Improved Patient Safety
- Improved quality of care
- Information availability
- Assured of professional treatment
- Transparency for Patients

Efficiency for Technologists
- Prioritize based on data
- Application Integration & expansion
- Quality Certifications
- Standardized templating
- Information Security
- Vendor Neutral

Most Recognized & awarded EHR worldwide

GTI has expertise in development, customization, and deployment of VistA EMR across several hospitals. It has been instrumental in developing and giving back to the Open Source VistA community.

"The VistA system will take about $4 billion to develop", according to Roger Baker, the Assistant Secretary for IT at the VA. This quote does not include implementation costs.

Implementation around the world

Besides being implemented at hundreds of Government & non-Government Hospitals in the USA, VistA has been implemented in several hospitals at WHO, Mexico, Samoa, Finland, Germany, Jordan, Kenya, Nigeria, Egypt, Malaysia, Brazil, Pakistan, Denmark, etc. In India it has been implemented at JPNATC, AIIMS, Max Hospital, Rajiv Gandhi Cancer Institute & others.

SURVEY OVERVIEW:

30 EHR systems ranked on 17 dimensions

The rankings in this table are based on the percentage of respondents for each system who agree or strongly agree with the survey statements represented in brief form across the top. For each statement, rankings run from 1 (best) to 30 (worst). For each statement, the five best rankings are color coded green and the five worst orange. Systems are listed in order of the sum of their rankings.

EHR systems	Ordering lab tests	Ordering imaging studies	Ordering referrals	Tools for health maintenance	Tools for disease management	Patient engagement tools	Documenting care	Finding and reviewing information	E-prescribing	E-messaging and tasking within the office	"Meaningful use"	Training and support	Higher quality than with paper charts	Customization at the user level	Easy and intuitive to use	Highly satisfied	Would buy again
MEDENT (N = 33)	3	2	3	6	5	4	7	3	1	2	1	4	6	1	7	2	3
Amazing Charts (N = 99)	12	10	8	3	6	9	2	1	4	3	3	3	4	2	1	1	1
e-MDs (N = 120)	7	9	9	4	2	1	5	5	6	7	4	7	7	8	5	6	5
Praxis (N = 26)	15	14	15	1	3	8	3	2	23	6	2	1	2	6	6	3	2
EpicCare Ambulatory (N = 392) #5	5	5	6	9	8	2	10	10	7	9	7	5	10	4	11	10	7
VistA CPRS (VA) (N = 15) #6	1	1	1	2	1	15	6	7	18	25	15	13	1	25	8	4	8
Point and Click EHR (N = 18)	2	4	2	23	25	11	4	12	1	21	9	3	23	2	9	14	
athenaClinicals (N = 28)	6	7	4	24	9	12	13	9	10	18	10	6	13	10	9	8	9
Allscripts Professional (N = 106)	9	12	12	14	15	7	16	8	2	4	8	12	16	5	14	12	12
SOAPware (N = 41)	22	22	20	10	11	6	8	6	17	19	5	8	11	3	3	5	4
eClinicalWorks (N = 244)	8	8	7	17	18	16	12	13	8	11	6	11	12	7	10	11	11
Centricity EMR (N = 209)	11	13	13	8	4	14	15	16	11	10	11	21	5	17	16	14	19
PrimeSuite (N = 20)	14	11	10	13	16	10	9	15	22	13	14	10	19	11	13	16	10
Practice Partner (N = 123)	20	15	16	11	10	13	11	11	19	14	12	25	14	9	12	15	15
Practice Fusion (N = 17)	29	29	14	26	21	21	4	4	15	23	17	2	9	14	4	7	6

Abbreviated survey statements
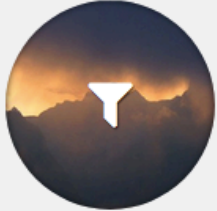
INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES

GTI HIMS Modules

PATIENT REGISTRATION MODULES

- Out Patient Department (OPD), IPD & Emergency Registration.
- Online appointment system.
- Queue management system.
- Emergency/Admission Registration.
- Registration for Admissions.
- Issue of Attendant Pass.
- Issue of Attendant Pass.

LABORATORY MODULE

- Laboratory orders registration.
- Bar coded specimens and traceability to results and patients.
- Templates for normal and abnormal results.
- Billing integration to payable patients.
- Integration to patient records.
- Integration of Laboratory Equipments (Analyzers) with LIS.
- Integration of LIS with HIMS, Inventory, Lab Reagents, etc.

BLOOD BANKING MODULE

- Inventory with blood component type, ID numbers, date of collection, date of receiving, source of blood (mother center) expiry date, volume and blood group.
- Bar-coding and trail of all requests pertaining to blood grouping.
- Donor details and results updation.
- TAT calculation as per NABH norms.
- Information regarding arranged/ cross-matched bags/issue ready bags/ partially used bags.
- Various reports including KPIs, Transfusion reaction report.

PHARMACY

- Allow entries for drugs dispensed through OPD/IPD pharmacy.
- Report consumption pattern by drug or group, stock position etc.
- System generates instructions for use to patients attending pharmacy counter.
- Module also has provision to enter drugs prescribed but not available in the inventory for assessing needs and prescription practices of the prescribers.
- Drug entry and dispensing of all the drugs.
- GTI's manpower also maintain upkeep of the drug/pharmacy inventory.
- Provide audit trails as perNABH standards.
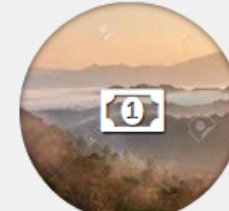
FINANCIAL MGMT MODULE

- Enable budget estimates to be provided by different clinical and support departments under various heads.
- Provide hospitals insights to the planned and unplanned expenditure and expenditure under various heads.
- Provide insight to the assets and provide assets balance.
- History of the records for asset depreciation according to the fiscal period or defined period.
- Generate reports such as : Balance pursuing, fixed assets turnover at different levels, place, origin, group, account, cost centre and impress account.

BILLING MODULE

- HIMS' Billing module is provided for the private ward (Room rent, Diet charges, laboratory tests, drugs and consumables, procedures etc.) and in radiology department for ultrasonography (USG) and CT scan and MRI charges.
- Provides disease based per patient expenditure reports under various head described above under this section.

RADIOLOGY INFO. MGMT SYSTEM

- Patient Registration and scheduling, Patient List Management.
- Interface with modality via Work list.
- Radiology Department workflow management, Request and document scanning, Result(s) Entry, Reporting and printout.
- Integration with PACS.
- Integration of HIMS with CR system.
- Provsion of tagging images with reports for viewing with HIMS.
- Provision to develop online teaching library.
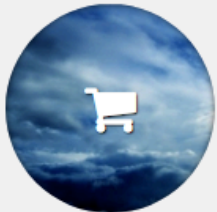
STORE & PROCUREMENT

- Deal with Hospital Equipment/Material/Inventory/ Purchase and Supply to different department.
- Item, Vendor, Area, master details.
- Supply Order & Challan Detail Entry (with expiry/shelf life and batch no) with Inspection of items.
- Raising Indents from various Area Stores.
- Issue of Items from the Central Store & Area Stores.
- Material return / recall details.
- Generation and printing of Purchase orders/Supply Orders.
- Gate Pass And Entry Pass.
- Rate contracts details.
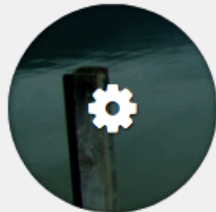
MATERIALS MGMT & FACILITY MGMT

- Module includes equipment procurement details warranty, AMC, installation, maintenance sched and records, calibration records with due dates, part replacement details, condemnation records
- Reminders to department and the vendors for Preventive maintenance schedule, calibrations. Equipment led- ger including down time/uptime calculations should be included.
- Generates breakdown register, history card and other records.
- Equipment log is available for machines integrat to HIMS system.
- Audit forms for monitoring legal requirements a per NABH standards.

DIGITIZATION OF MEDI. RECORDS DPMT

- Electronic records of all the patients is maintained.
- Patient Discharge Details and case sheets are digitally scanned with certain additional parameters.
- Capture primary and secondary diagnosis for all indoor patients as per ICD codes.
- Retrieve the history of the patient including OPD/Emergency/Admission for the entire duration.
- System is capable of storing x-ray image records retrieved from radiology department as part of

LIBRARY

- Real time online access to the books and journals inventory to the hospital staff.
- Online process of books/journal issuance and reminder SMS.
- The module facilitates online procurement of books and journals.
- Generate unique barcode identifiers for each item in the library.

MIS MODULE

Statistical, analytical & MIS reports generation and printing is done as per contents and format for each report. Live dashboard for various indicators and data sets with traceability to raw data is available for Patient demographic details and is mapable in mapinfo GIS or equivalent software. Reports under different modules are listed below:

- Laboratory Module
- Medical Record Department
- Stores & Purchase Departments
- Pharmacy

GTI Telemedicine

- **Improved Access:** GTI telemedicine has been used to bring healthcare services to patients in distant locations.
- **Cost Efficiencies:** GTI Telemedicine has been shown to reduce the cost of healthcare and increase efficiency through better management of chronic diseases, shared health professional staffing, reduced travel times, and fewer or shorter hospital stays.
- **Improved Quality & Education:** The quality of healthcare services delivered via GTI telemedicine are as good those given in traditional in-person consultations.
- **Physician Outreach:** OPD counter manned by Physician are equipped with peripheral equipment and diagnostic tools for live video consultancy & recording
- **Post-op support:** Remote center equipped to handle post-op patients as well
- **Specialist Access:** Physician & patient can connect with specialist at Hospital at prescribed time

- Desktop computer + GTI Telemed software
- PTZ Pro cam up to 1080p
- Sennheiser Conference Unit
- Selected set of medical peripherals

- Medical Cart with Integrated computer + GTI software
- PTZ Pro cam up to 1080p
- Sennheiser Conference Unit
- Selected set of medical peripherals

| Biomedical Devices (USB / Wireless / Bluetooth)	Dermoscope	Exam Cam	EKG	Ultrasound	Spirometer	Vital signs	AND MORE...
Device Types	PC	Mac	Android	iOS	Kubi Secure	Double Robotics Telepresence	GlobalMed or other clinical workstations

CMMI Level 5

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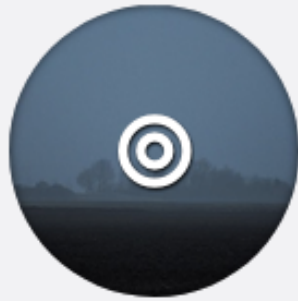
DATA CAPTURED BY CPP

The system has the ability to capture at minimum the following data from the CPP:

- Registration details of the patient.
- EMR sheet generated for every consultation including diagnosis, prescriptions Record of consultations carried out that day at every Patient Node.
- Schedule of consultations for the next two days at every Patient Node .
- Utilization of specialists/doctors/ paramedic/ counsellors and other manpower deployed as a part of telemedicine project.
- Record of bio-metric attendance of doctors/ Paramedics/ Counsellors and other manpower deployed as a part of telemedicine project.
- Change of registered mobile number of the patient.
- The system captures details of any complaints registered.
- The system provides view and comment only access of previous medical records of a patient through EMR integrated with the portal to the doctor.
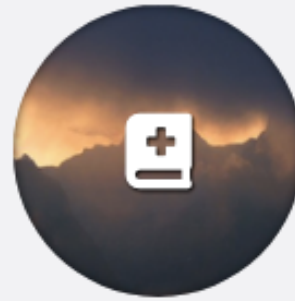
MEDICAL FEATURES

- The system has a provision for the consulting doctors /paramedics/ counsellors to modify clinical details of the patient captured during registration such as chronic conditions, long term medications.
- The system alerts the referral centre regarding the patient through EMR integrated with the portal, SMS and Email.
- Integration with SMS gateway and Email: For information or notification of case to the concerned Public Healthcare Facilities.
- The system generates unique user id and password for all registered patients and forward the same via SMS/E-mail to the patient.
- The patient is able to retrieve information related to medical advice, treatment, diagnosis report, prescription, registered complaints etc. related to the patient.
- The system maintains a databank of addresses and contact numbers of Public Healthcare Centres, government diagnostic centres and medicine dispensaries at government facilities and Patient Node(s) established as a part of Tele-Medicine project.
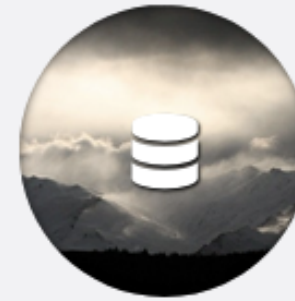
TECHNICAL FEATURES

- The system enables the patient to download prescriptions and reports in PDF format once they login using his unique id and password.
- All displays are in English and Hindi language.
- The system supports HIPAA standards for electronic transactions.
- The system include extensive error checking of all user input data, including, but not limited to ICD-10 (Check diagnosis against gender, age, other as necessary) & ICD-10 procedure checking against diagnosis.
- The system maintains a master database of doctors, paramedics, counsellors other manpower employed under Telemedicine Project. The database at minimum shall contain name, Aadhaar number, contact number, Age, Date of Birth, Qualification, Designation, years of experience, location.
- The system facilitates generation of MIS dashboard.
- The system provides for various levels of secure access based on defined roles and responsibilities within NHM based on units (Project locations) with attached roles and privileges.

A TOOL TO ASSIST ONCOLOGISTS MAKE PERSONALIZED TREATMENT DECISION

In India as in other developing countries, 80% of patients are from stage III & IV where the success of treatment is very low. Our objective is to reach the patients while in stage I & II thus increasing the success of treatment and life expectancy.

- **Analyze the patient's medical record**

  Ability to analyze the meaning and context of structured and unstructured data in clinical notes and reports, easily assimilating key patient information written in plain English that may be critical to selecting a treatment pathway.

- **Identify potential evidence-based treatment options**

  By combining attributes from the patient's file with clinical expertise, external research, and data, will identify potential treatment plans for a patient.

- **Find and provides supporting evidence from a wide variety of sources**

  Will rank identified treatment options and provides links to supporting evidence for each option to help oncologists as they consider treatment options for their patient. Will draws from an impressive corpus of information, including

  – Existing and old patient data
  – 290 medical journals,
  – Over 200 textbooks
  – 12 million pages of text

IBM Watson

Reading and remembering millions of pages of medical literature and practice guidelines.

Matching patients to clinical-trial protocols

Continually "learning" over time from aggregated genomic research and clinical data from all patients.

Ranking potential treatment options based on the most up-to-date medical evidence.

Offering care advice to help manage a patient's treatment by alerting less-experienced physicians or nonspecialists to aspects of therapy they might not be aware of or overlook.

CMMI Level 5

GTI InFotel

Avail the best in-class medical treatment at a reasonable cost away from your home country. We make your travel easy by facilitating each step – Right at the step of deciding to travel abroad to avail any medical service to help you getting a medical visa.

On your arrival here, we are always present by your side to help you guide through your entire stay by first arranging a safe, hygienic, comfortable place of stay and helping you choose the top hospital, best doctor. We also provide you on call transportation service to help you commute to places.

We provide the services for the treatment of the following diseases:

Oncology
Know More »
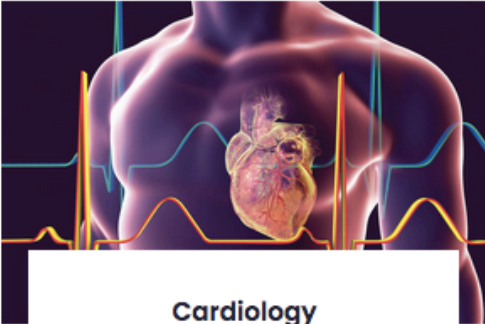
Cardiology
Know More »
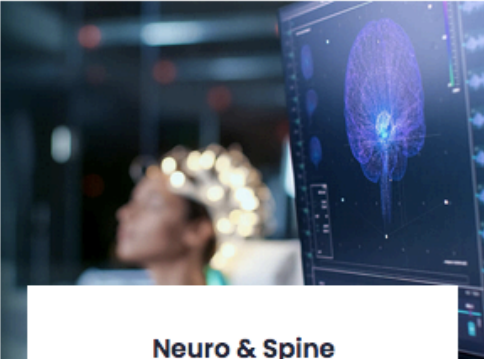
Neuro & Spine
Know More »
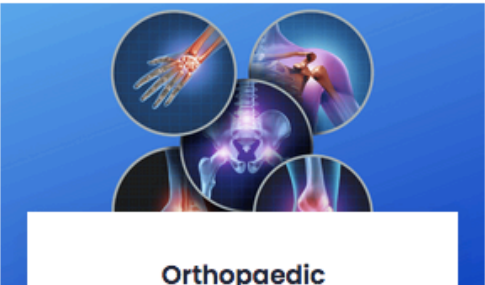
Orthopaedic
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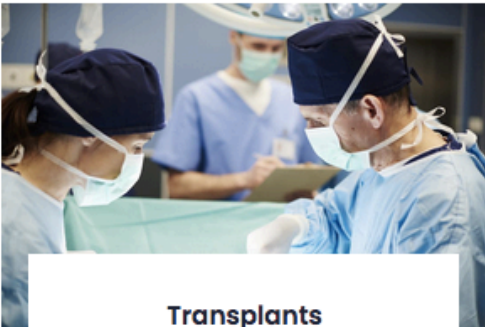
Transplants
Know More »

Cosmetic
Know More »
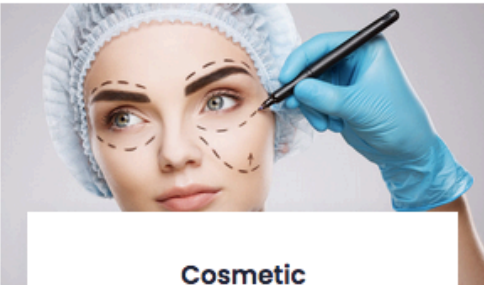
Aakash Healthcare Super Speciality Hospital — We care, He cures
NICE signed the Agreement with Aakash Healthcare, Delhi
January 16, 2019

Apollo HOSPITALS
NICE signed the Agreement with Apollo Hospital – PAN India
January 12, 2019

Fortis
NICE signed the Agreement with Fortis Hospital – PAN India
March 10, 2019

BLK Super Speciality Hospital
NICE signed the Agreement with BL Kapoor Hospital, Delhi
May 22, 2019

sarvodaya HOSPITAL
NICE signed the Agreement with Sarvodaya Hospital, Delhi
April 20, 2019

IBS HOSPITALS CURE.CARE.COMPASSION
NICE signed the Agreement with IBS, Delhi
May 14, 2019

asian Institute of Medical Sciences
NICE signed the Agreement with Asian Hospital, Delhi
May 14, 2019

QRG Health City
NICE signed the Agreement with QRG Hospital, Delhi
May 14, 2019

NAYATI HEALTHCARE — FOR HEALTH FOR HUMANITY
NICE signed the Agreement with Nayati Hospital, Delhi
May 14, 2019

NICE SKYMED

GTI InFotel

NICE
SKYMED

Skilled Nursing Facility(SNF)

A skilled nursing facility (SNF) is an in-patient rehabilitation center staffed with trained medical professionals. Nice's SNF caters to Medical Tourism Patients coming to India for treatment.

Read More »

Senior Care @ Home(SC@H)

NICE provides meticulous care to elderly people whose children are living abroad due to the dynamicity of schedules or for better prospects in life and cannot be with their parents to look after their medical needs.

Read More »

Telemedicine

Telemedicine is the distribution of health-related services and information via electronic information and telecommunication technologies.

Read More »

GTI Healthcare IT Major Implementation:

- Directorate of Health Services, Govt. of Delhi: Healthcare & HIMS Services
- NHM, UP State Telemedicine Services: EMR, Telemedicine, CPP, etc.
- AIIMS
- Rajiv Gandhi Cancer Institute
- Chacha Nehru Bal Chikitsalaya

GTI's Telemedicine Solution caters to:
- Population of over 220,000,000 in the state of UP
- Implemented for NHM (National Health Mission)
- Project includes
  - Teleconsultancy: Medical Call Center
  - Electronic Medical Record (EMR)
  - Central Patient Portal (CPP)

Government of
National Capital Territory of Delhi

Directorate of Health Services (DHS) of Government NCT of Delhi provides health care facilities at primary and secondary level to the citizens of Delhi through various types of health outlets.

GTI's Hospital Information & Management System (HIMS) caters to:

- Over 10,000,000 patients
- Over 5,000 hospital beds
- Across several hospitals and Healthcare providers

DHS

- **GTB hospital**
  - **Vivek Vihar clinic**
  - **Nand Nagri clinic**
- **Dr. Headgewar hospital**
  - **HSMC clinic**
- **JPC Hospital**
  - **Gautam Puri clinic**
- **BJRM Hospital**
  - **Wazirpur iclinic**
- **MV Hospital**
  - **Rohini clinic**
- **Sanjay Gandhi Hospital**
  - **Rohini clinic**
- **LBS hospital**
  - **Khirpur clinic**
- **DCB Hospital**
  - **Keshav puram clinic**
- **NCJ Memorial hospital**
  - **Polyclinic**
- **SRHC Hospital**
  - **Narela clinic**

CMMI Level 5

GTI InFotel

Government of
National Capital Territory of Delhi

- Turnkey solution including HIMS software, hardware, network, manpower and O&M
- Govt. of Delhi Health Analytics being provided by GTI

GTI's Solution caters to:
- 12 Hospitals under DHS with over 3500 beds
- Over 1,00,00,000 (one crore) patients/year for over four (4) years: **one of the largest such solution deployed in the country**
- HIMS solution deployed across hospital, Mohalla Clinics and Poly clinics
- Turnkey solution including HIMS software, hardware, network, manpower, service and O&M
- Govt. of Delhi Health Analytics

#	HOSPITAL NAME	# of Beds	# OF PATIENTS AS OF 2015			
			OPD NEW REGNS.	SPECIAL CLINIC REGNS	CASUALTY REGNS.	NO OF IPD REGNS
1	Guru Teg Bahadur Hospital	1,500	1,361,687	162,176	237,737	78,065
2	Babu Jagjiwan Ram Hospital	100	503,340	28,612	137,465	12,250
3	Baba Saheb Ambedkar Hospital	500	1,009,198		128,171	47,809
4	Deep Chand Bandhu Hospital	100				
5	Dr. Headgeware Hospital	200	189,707		423,921	18,060
6	Dr. NC Joshi Hospital	30	167,000		14	
7	Jag Parvesh Chandra Hospital	300	629,435		75,224	11,422
8	Kanti Nagar Mother & Child	100	49,568			256
9	Lal Bahadur Shastri Hospital	100	657,121	12,774	190,438	18,723
10	Maharishi Valmiki Hospital	150	322,831	6,011	92,142	9,179
11	Sanjay Gandhi Hospital	376	697,772	10,123	112,955	27,228
12	SRHC Hospital	200	475,691	-	23,765	8,031
	TOTAL	3,656	6,063,350	219,696	1,421,832	231,023

CMMi Level 5

GTI InFotel

NHM, UP Tele Consultancy across the state catering to 220 million

Teleconsultation Partner — GTI Infotel

उत्तर प्रदेश सरकार की ओर स
टेली-मेडिसिन केन्द्रों की सौ
निःशुल्क सेवाओं का जन-जन को लाभ

Video consul
REMOTE HEALTH CARE

Shri Yogi Adityanath, Hon'ble CM, UP
Inagurates GTI's Telemedicine Project at Lucknow

UP Tele Consultancy Contract Under NHM	• Project awarded by the Government of UP & implanted across the state of UP catering to a population of 220 million. The services has been envisaged and designed by NHM.
Dial 104 Call Center	• GTI has developed and operates the Medical Call Centres through toll free health helpline which provides medical advice and health related information to users who connect by dialling 104 in the state of UP.
Medical Call Center with Doctors, Consular and ANM/GNM	• The Medical Call Centres, having sitting capacity of a minimum of 50 call operators including Paramedics, Counsellors, AU Doctors & MBBS Doctors for providing the Services. It is being extended to 200 seats.
Central Patient Portal	• To store EMR of patients and their consultation history.

HEALTH SERVICES

MEDICAL ADVICE

- Information on disease conditions, health facilities available in the particular regions, advice on local epidemics and prevention etc. and suggestive medication.
- Basic health advice that does not require any advanced medical suggestion through paramedics.
- Medical doctors (MBBS)/ AU doctors provide advice on medical conditions. All such advices shall be issued on e-prescription digitally signed by the doctor issuing the prescription. The e-prescription shall be shared with patients and with nearest Public Healthcare Facility/ government medicine

COUNSELLING & INFORMATION

- Family Planning – advice to eligible couple as per defined protocols.
- Rehabilitation counselling (Alcohol, Drugs, Smoking);
- Psychological counselling (Anxiety, Depression, suicidal tendencies, chronic diseases like cancer etc.);
- Stigmatized diseases (HIV, AIDS, Leprosy).
- Non-communicable diseases - Prevalent lifestyle diseases conditions, its symptoms, precaution and prevention.
- Nutrition and hygiene related Information.
- Women and child care information.

REFERRALS & INFORMATION DIRECTORY

- Health care services / facilities.
- Hospitals, Pharmacies and Diagnostic centers;
- Rehabilitation centers.
- Referrals to Public Healthcare Facilities.

MEDICAL EMERGENCIES

Assist Authority in taking faster action during medical emergencies such as disaster/epidemic breakout by sharing health information etc.

TECHNOLOGY DEVELOPED

& DEPLOYED
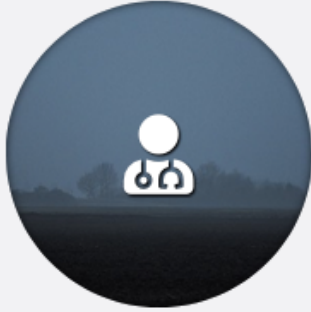
ELECTRONIC MEDICAL RECORD (EMR)

GTI has developed an EMR especially for Tele-Consultation. The EMR is integrated with Central Patient Portal. The EMR registers a patient, record medical history and any other detail as be required. The EMR is developed in compliance with Electronic Health Record guidelines issued by Ministry of Health and Family Welfare, Government of India. It has the following major functionalities:

○ Generate & Maintain Aadhaar number based Unique Health Identifier (UHID) and in the absence of Aadhaar, mobile number or Ration card number shall be used.
○ Progress note digitally signed at the end of every consultation by the
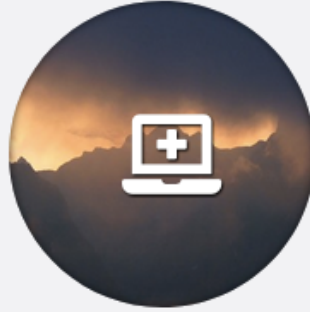
CENTRAL PATIENT PORTAL

GTI has also developed a Central Patient Portal that shall store electronic medical records ("EMR") of all patients, maintain a record of consultations carried out as a part of telemedicine project, maintain a record of availability and utilisation of manpower deployed as a part of telemedicine project and execute other operations. It has the following major functionalities:

○ Registration details of the patient.
○ Schedule of consultations for the next two days at every Patient Node.
○ Utilization of specialists/doctors/ paramedic/ counsellors and other manpower deployed as a part of telemedicine project.

AI BASED ALGORITHMS & CDSS

GTI is developing an AI based Algorithm & Clinical Decision Support System (CDSS) for a Tele-Medicine Medical Consultant to improve their online treatment and reduce the time spent with each patient. It will have the following functionalities:

○ Standardized and validated algorithms
○ Disease summaries that cover major prevalent diseases in India, for use by the staff while providing the Services.
○ Understand the population, geographical, disease and weather related parameter for each patient call.
○ Understand the patient demographic & Symptom.

MEDICAL CALL CENTER

The Medical Cell center solution deployed by GTI provides the interface to the users and helpdesk operators for logging, tacking, resolution & closing of calls. The services and information will be provided in Hindi or English language. An administrator to receive call, transfer to appropriate agent/doctor, record call, enter patient information, such as name, age, as per authority's demand etc. That information is then stored, and shared with other users as appropriate. It shall also alert the medical staff when a patient that requires different treatment is admitted, such as some with an infectious disease. The Solution consists of:

Other Major Healthcare implementations

Medical Call Center & EHR

- Implemented India's first medical call center catering to Calls from several stake holders including
  - Patients
  - Physicians
  - Roster Management
  - Equipment Management
  - O&M
  - Appointments
- GTI VistA EHR Implementation
  - Several EMR modules Implemented
  - Machine Integrations
  - eMLC
  - CPRS
  - Vitals
  - Intake/Output
  - Manpower to handle the Clinical Operations

VistA EHR based BMS

- North India's leading 600 bed Cancer Hospital
- GUI based Bed Management System deployed across Clinicians, Registration, Finance, Accounts integrated with VistA EHR
- GUI displayed on Video Wall for information to Staff at various locations .
- View availability of the beds graphically incorporating all the blocks & wards where the Administrator is be able to view the complete hospital including all the Blocks & Wards.
- Mirth Integration Engine used
- Integration with existing HIS systems

HIMS

- Chacha Nehru Bal Chikatsalaya
- Largest Children Hospital in NCT, Delhi with 215 beds
- Complete HIMS implementation including
  - Registration: ADT (Admission, Discharge & Transfer)
  - Radiology
  - Lab
  - Pharmacy
  - Inventory
  - Cloud based
  - Portal Access
  - Manpower to handle the Clinical Operations

GTI ERP Products/Services & Major Implementation:

PRODUCTION MGMT

Improve production scheduling with visibility into products, parts, components and ubassemblies availability and inventory levels.

INVENTORY MGMT

Easily identify finished goods, components, and raw materials associated with a recall by lot number, serial number, and other identifiers as they move up and down the supply chain.

TRANSIT MGMT

Enables transit visibility - stock status across the storage locations and intransit stock status visibility.

DISTRIBUTION MGMT

Enables automation of inward and outward stock process at the distributor end. Handling sales returns as well as financial modules.

CUSTOMER MGMT

Enable customer to verify the authenticity of the product. This module has is available on mobile and across all platforms.

LOYALTY PROGRAM

Andriod/iOS based system featuring analytics, Geo mapping, authorization & much more.

ANTICOUNTERFEIT

Feedback on the unauthenti- cated codes. The UID that is not available in the databas will create a RED flag when scanned.

ANALYTICS

Reports include Production planned vs actual metrics, stock ageing report, In transit report, channel dispatch report, FIFO viloation report, user activity report & much more.

SAP

CMMI Level 5

The system implements the use of a QR code based methodology that will provide

- accurate and timely decision support
- data collection and dissemination of information for each of its facilities, and any future facilities.
- complete material tracking
- ability to take strategic marketing decisions.
- Track all primary, secondary and tertiary (Can, Carton, Buckets, pallet)
- Deployed across 10 Plants catering to 100 million production per year

System Design features:

- End-to-end journey of the SKU (from plant to retail outlet/consumer)
- Live inventory tracking at each node
- Stock freshness at each node (% of stock 1-day old, 1-week old etc.)
- Avg. time spent in transit between each node along with ownership for delay
- Restricted information and access levels for different stakeholders in the supply chain
- Tracking re-use of any SKU in supply chain
- Compatible with auto-cartonizer and auto-palletizer on filling lines

Current Production Process

1. Label Applicator

2. Oil Filling machine

3. Weight Checking Machine

4. Pick & Place Machine

5. Taping Machine

6. Pallettization

PROCESS & MODULES: From Production to Anti-Counterfeit

- Label Printing Module
- Production Modules
- Inventory Module
- Warehouse Management
- Transit Module
- Distribution Modules
- Loyalty Program Module
- Analytics Module

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SERVO ® 100% PERFORMANCE. EVERYTIME.

QR code printing through web Application

Vendor prints QR code supplies to plant	Plant puts the label on the Cans/Buckets

GTI Scanner scans QR

On Produciton line	before putting in the Carton

Cans to be put in the Cartons

Automatic filling	Manual filling	Parent Child Mapping

Cartonization

Carton	Taping

Printing TIJ

Printer prints the QR Code	Carton is put on Pallett

Pallet is scanned using GTI handheld scanner
Parent child mapping

Ware House Management System
Internal Stock Tranfer Memo

Transit Management handheld scanner

Dispatch Slip and Invoice	Party wise Pick List

Dispatch Activities and SMS & Email to Distributor
Print Gate Pass

DMS
CIP/CFA receives and scans the Cartoon using handheld

Loyalty Program

mechanic	Retailer	consumer

Mobile App

Anti counerfiet	RED YELLOW GREEN

Integration Approach

Garment ERP: Modules

SKY APPARELS LIMITED

- 500 Linking Machine
- Capacity: 10,000pc /day
- 175 Stoll Automatic Knitting Machine , 7 to 14 gg
- 35 Stoll Automatic Knitting Machine, 10 to 16 gg
- 10 Automatic Knitting machine for Neck
- Total: 210 Machines
- Capacity: 200,000 pieces/ per month

MERCHANDISING
- Track complete Product Life cycle right from sampling to order delivery.
- Create Costings, Budgets, BOM sheets.
- Track Product Development.
- Do Post Shipment Costing and profitability analysis.

PROCUREMENT
- Create Purchase orders for material purchase as well as job work.
- Track Inventory.
- Track purchases and deliveries.
- Perform Vendor rating as well as smart allocation of purchase orders based on defined business rules.

PAYROLL
- Cloud based Payroll software no setup needed.
- Configurable leave, deductions and allowances.
- Configurable reports for specific needs of the company.
- Create Cost Centers to track manpower costs for each department.

PRODUCTION PLANNING
- Cloud based planning tool. No setup required and can be started in a matter of minutes.
- Visual based Production planning.
- Ideal for any manufacturing unit for optimizing the machine and manpower utilization.
- Get Planned Vs. Actual Costs.

SHIPPING
- Invoice and Packing List formats of over 80 big retailers already there.
- Track pre and post shipment documents.
- Back to Back LC, Insurance and Freight tracking.

FINANCIAL ACCOUNTING
- All standard accounting reports such as P&L, B&S, Trial Balance etc.
- Linked with purchase and production modules to ensure all bills are linked with actual operations.
- Multi Currency.

PRODUCTION
- Track production right from issue to shop floor to receipt in Finished Goods Warehouse.
- Perform Quality and production analysis.
- Track outsourced and in-house production.
- Perform Planned Vs. Actual production costs on a daily, weekly and monthly basis.
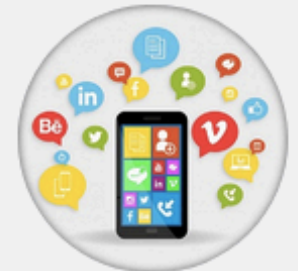
MOBILE APP
- Get reports and performance metrics on the mobile at any time anywhere.
- Perform real time verification/authentication of purchase orders, costings etc.
- Get "Event" based notifications such as when a certain material is received, or certain failure occurs.

ERP implemented at Sky Apparel, Dhaka, Bangladesh

Merchandising

- From PO receipt from client
- Creation of BOM
- BOM breakdown
- Stock check
- RFQ generation

Purchase Order

- for procurement of Raw material for specific order following the Merchandising
- Approvals
- LC and Bank module
- Shipment tracking
- Printing of POs

Inventory & Warehouse Management

- Complete WMS management system
- Raw material and finished good
- ABC classification
- Printing modules

Production

- Knitting, trimming, linking, mending, washing, labeling, ironing and QC
- QR/bar code implement for each part for track and trace of the garment sub-parts and
- finished good followed by cartonizations
- Scanning Printing of QR codes

Payroll

- Payment based on the quantity produced by the worker
- Quantity tracked by using the QR codes.
- Scanning and database access of QR codes for payments and record
- Employee daily & monthly summary

Shipment

- Based on client requirement
- BOM followed
- QR/Bar code tracked and traced

GTI GIS/GPS Products/Services & Major Implementation:

GPS Tracking: Features

INCREASE DRIVER ACCOUNTABILITY

Our GPS tracking devices manage historical track, Off-hour monitoring, speed alerts, over stoppage alerts.

TRACK YOUR FLEET IN REAL TIME

Our Gpstracking devices manage Speed and direction, Current Vehicle Status, Driving View, Street/Satellite View

ORGANIZE YOUR BUSINESS

Gpstracking devices keeps your schedules, invoices, quotes, customer information, and more, in one location, the cloud, so it's available to you anytime and anywhere.

LOCATION ACCESS FROM ANYWHERE

Manage and communicate with your fleet from any device so that you are always on top of what's happening.

IMPROVE FLEET-WIDE PRODUCTIVITY

Know where your drivers are and what they are doing at all times to maximize output. Through our devices you can quickly delve directly into the location and direction of each vehicle.

CUSTOMIZE YOUR GPS FLEET TRACKING DATA

Receive the information you want, when you want it, the way you want to see it.

TRACK START/STOP TIMES OF DRIVER ROUTES

Gpstracking devices track driver routes.

REDUCE FLEET COST

Our Gpstracking devices manage ideal Time,Start/Stop Reports,Ignition Reports,Maintenance Reports.

GPS/GIS: Other Modules
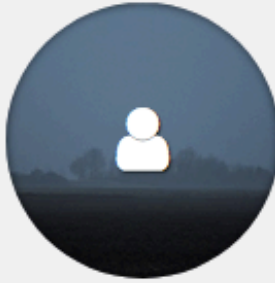
ADMIN MANAGEMENT MODULE

In Admin management module you will be creating your company account. All the details about your company like General details, Registration details and Other details of the branch or division of your company could be entered through this form.
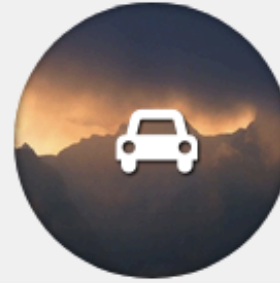
OPERATION MANAGEMENT MODULE

Operation management module in GTI ERP for fleet management provides a collaborative environment for performing day-to-day tasks. Operation Management module covers Daily Vehicle Transactions. This module helps track the vehicle and availability.

TYRE INVENTORY MANAGEMENT MODULE

Inventory of Tyre in GTI ERP for fleet management is maintained through tyre inventory management module section. Here every details of new tyre is captured along with manufacturer name, tyre number, branch where it is received etc.
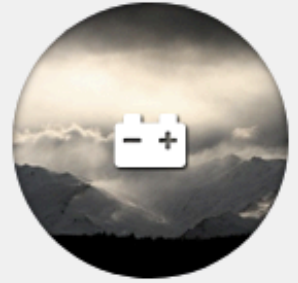
BATTERY MANAGEMENT MODULE

Battery Management Module gives you clear visibility to the integrated effect of current and future supply and demand, thereby enabling you to make better decision about purchase and reduce excess and obsolete inventories.
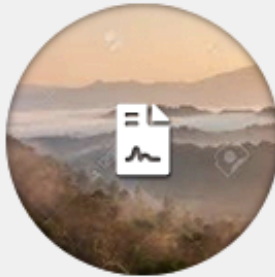
CONTRACT MANAGEMENT MODULE

Contract Management module in GTI ERP for fleet management is a transportation contract management tool designed to boost business power by cutting down on manual workload. It is user-friendly transport contract management tool and can easily be integrated with your business systems.
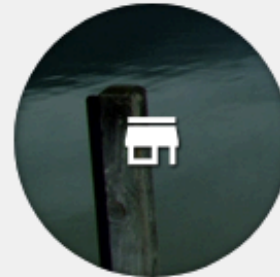
STORE MANAGEMENT MODULE

Stores management module provides a powerful and flexible set of features to help you manage and report your inventory information. Inventory Management in GTI ERP for fleet management facilitates processes of maintaining the appropriate level of stock in a warehouse.
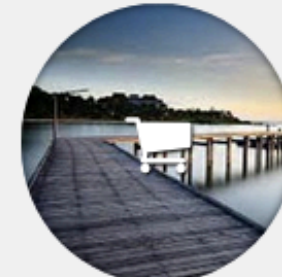
PURCHASE MANAGEMENT

Purchase management module in GTI ERP for fleet management streamlines procurement of required Vehicle spare parts and other Non Inventory Materials. Purchase module is tightly integrated with the inventory control and production planning modules.

FUELING MANAGEMENT MODULE

Average fuel consumption from destination to destination for different kind and type of vehicles are captured in the master file. Facility for defining the tolerance limit of fuel consumption from destination to destination is also defined in the master.

GPS Satellites

GPS Signal

GPS Satellites

World Class Mapping Dashboard
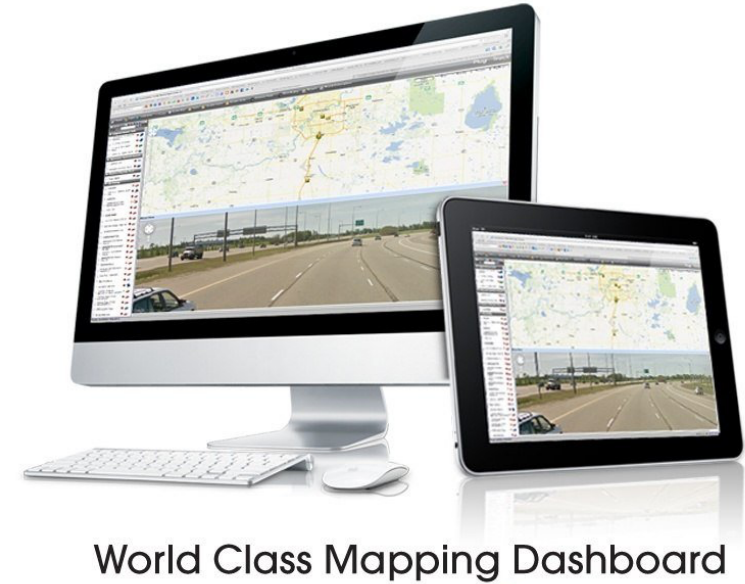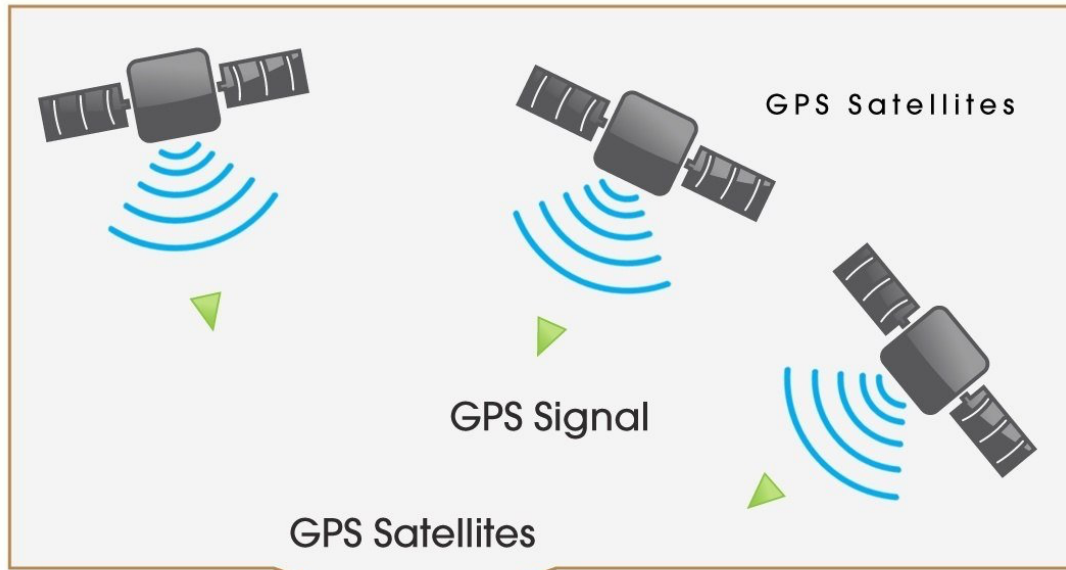
Fleet Vehicles

- Location
- Time
- Voltage
- Speed
- Direction
- RPM
- Fuel Consumption
- Odometer
- Excessive Idling
- Aggressive Acceleration
- Aggressive "Hard Braking"

Real-Time Telematic Reports
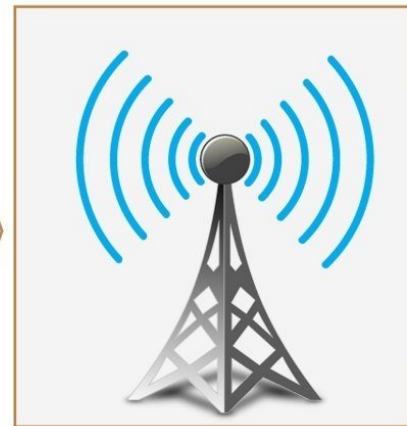
Cellular Wireless Networks

Plug N Track GPS Application Servers

Applications

FLEET MANAGEMENT

PASSENGER INFO SYSTEM

CAR RENTAL SYSTEM

MOBILE PHONE TRACKING

GENERATOR MONITORING

RADIO TAXI SOLUTION

AUTO RICKSHAW SYSTEM

OUTDOOR MOBILE ADVERTISING
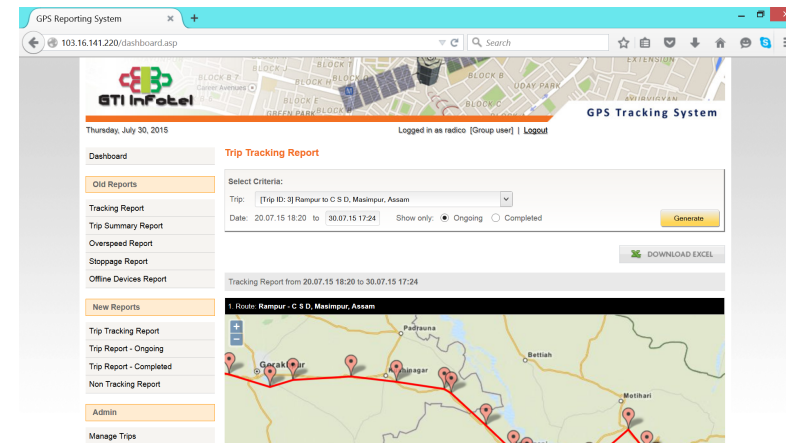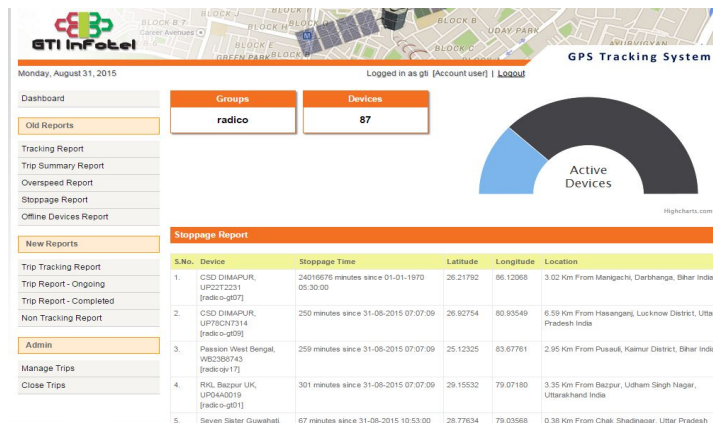
SOLUTION SPECIFIC APPLICATION DEVELOPMENT

Often, off-the-shelf software applications are too generic to support an organization's specific needs efficiently. With a sound data foundation in place, several applications can be purchased, developed, and/or customized to help automate repetitive tasks, perform spatial analyses and modelling. GTI develops these applications to be standalone GIS applications or embedded into an existing application. They can either be Windows-based or web-based applications. GTI develops such solution specific application development
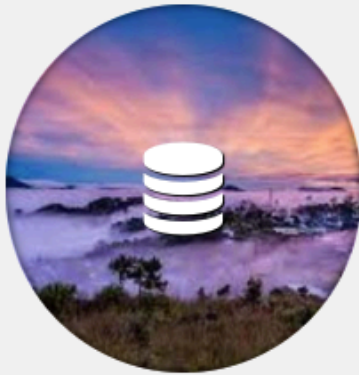
DATA RELATED SERVICES

GTI undertakes GPS, DGPS, Property, Pipeline and Utilities survey and have successfully completed numerous projects. We assist clients in finding appropriate existing data sources and compiling these varied data into a unified GIS database. The following data related services are offered by GTI:

- Data Collection
- Data Migration
- Data Modeling
- Data Creation
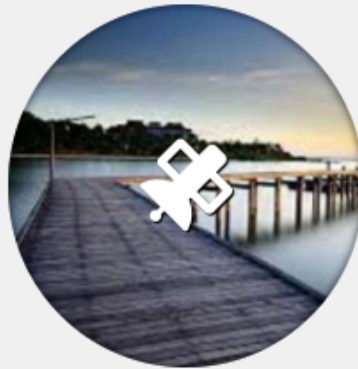
REMOTE SENSING & SATELLITE IMAGE PROCESSING

We specialize in the generation, editing and maintenance of data for GIS and offers the full range of services necessary for successful geospatial data implementation. Our Geo-Spatial services include:

- Pipeline Mapping
- Land use / Land cover Mapping
- Environmental Applications
- Urban Mapping
- Utility Planning
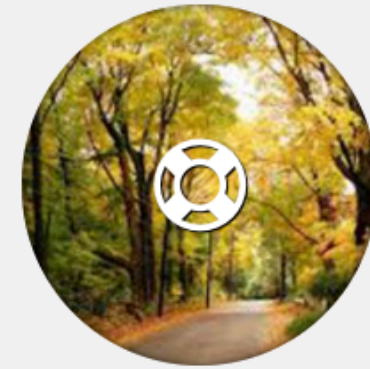
GEOSPATIAL TECHNICAL SERVICES

We specialize in the generation, editing and maintenance of data for GIS and offers the full range of services necessary for successful geospatial data implementation.Our Geo-Spatial services include:

- Conversion
- Data Integration
- Image Processing
- Field Survey
- Mobile Mapping
- Enterprise GIS

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VEHICLE TRACKING SYSTEM(VTS)

GTI providing Vehicle Tracking system with end to solution, scope of work given below:

- Provision of Vehicle Mounted Units and Vehicle Tracking System
- Testing and commissioning of Vehicle Mounted Units and Vehicle Tracking System
- Replacement of Vehicle Mounted Units (whenever required)
- Operation of VMU and providing customized exception reports for end-to-end solution
- Providing services for route mapping.
- Also mobile app to all transporters / concerned IOCL officials for tracking purposes.
- Providing training to officers and distributors/Vendors once in a year.

VERIFICATION OF ROUND THE TRIP DISTANCE(RTD)

- Route mapping using GPS/GIS/Remote Sensing based identification between LPG Bottling Plant/Bulk-LPG Loading Location to other LPG Bottling plants/distributor's godown/ Retail Outlets(ALDS)/Consumer(Bulk LPG).
- Providing GIS Software for RTD Calculation, inter alia having the following specifications;
  - Customization application software.
  - Point to point query.
  - Display of map with route length, route distance and segment wise distance.
  - Display of district wise LPG Godowns/ ALDS/Bulk customers.
  - Display of supply point wise Loading & unloading sources / LPG Bottling plants/ LPG Godowns/ ALDS / Bulk customers.
- Training to IOC personnel/Vendors.

TRAINING

Training on the following aspects provided to IOCL personnel, apart from provision of Administration & User Manuals:

- User Administration – Add/modify/delete users and assignment roles, etc.
- Identifying and plotting new supply or delivery point on the map.
- Identifying and plotting new route from supply to delivery point on the developed GIS map and calculating its distance.
- Master Maintenance - Add/modify/delete various masters like Supply location master, Bulk LPG loading/ unloading sources, LPG Godowns , ALDS & bulk customers, etc.
- Print Management: Above list is only indicative and not exhaustive.
- All the trainings by GTI conducted at IOCL premises, at the option of IOCL's date and time.

GTI InFotel

Major GIS/GPS Case Studies

GEO RTD SYSTEM

ROUTE MAPPING: for identifying the shortest route for transportation between the Origination and end point/retail outlet/destination, asset mapping for the distribution/sales network entities to optimize Clients resources for entire State and of all destinations to which supplies sent from its Origination and from all terminals/depots, that supply petroleum/Gas/Healthcare/FMCG/etc. products across the state (it can be one state or multiple states).

- Round Trip Distance from the point of commencement i.e. a supply depot to destination point i.e. a Go-Down/ALDS & returning back.
- Web based system with the ability to add ALDS based upon the lat/long & generate routes.
- System provides three different all weather motorable routes along with Round Trip Distance from Supply Depot to Go-Down/ALDS using GIS based Route Management Software & Maps.
- System to generate Forms along with POI's in the form of PDF
- Enterprise System provides login access to all levels of user.
- System provides interface to upload all Forms for approval & rejections starting from Field Office going up to GM.
- System provides status report of each Go-Down/ALDS/FO/Plant/Supply points/etc.
- System keeps information of Toll Booths along with Toll Charge.

LIQUOR TRANSPORT SYSTEM

Statutory Obligations of Distilleries/Bottlers (Irrespective of compulsory tracking is enforced or not):

- Follow the prescribed routes/Check post, without any diversion.
- Adhere to transit time prescribed by Excise.
- In case of any partial or total loss in transit, penal Excise Duty is charged from Selling Distillery/Bottler,
  - Which is many times of cost of goods
  - Revenue loss on each shipment is to the company as well as the Excise Department
  - Heavy penalties are levied with onus on the Seller
- Distillery/ Bottler able to exercise control on movement of goods in transit and provide better customer Service.
- In case of any genuine need, mechanical failure or traffic diversion, Seller can make alternate arrangements.
- Facilitates better Management control
- Transparency in operation, logistics & generation of tax revenues

Thank You!

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