



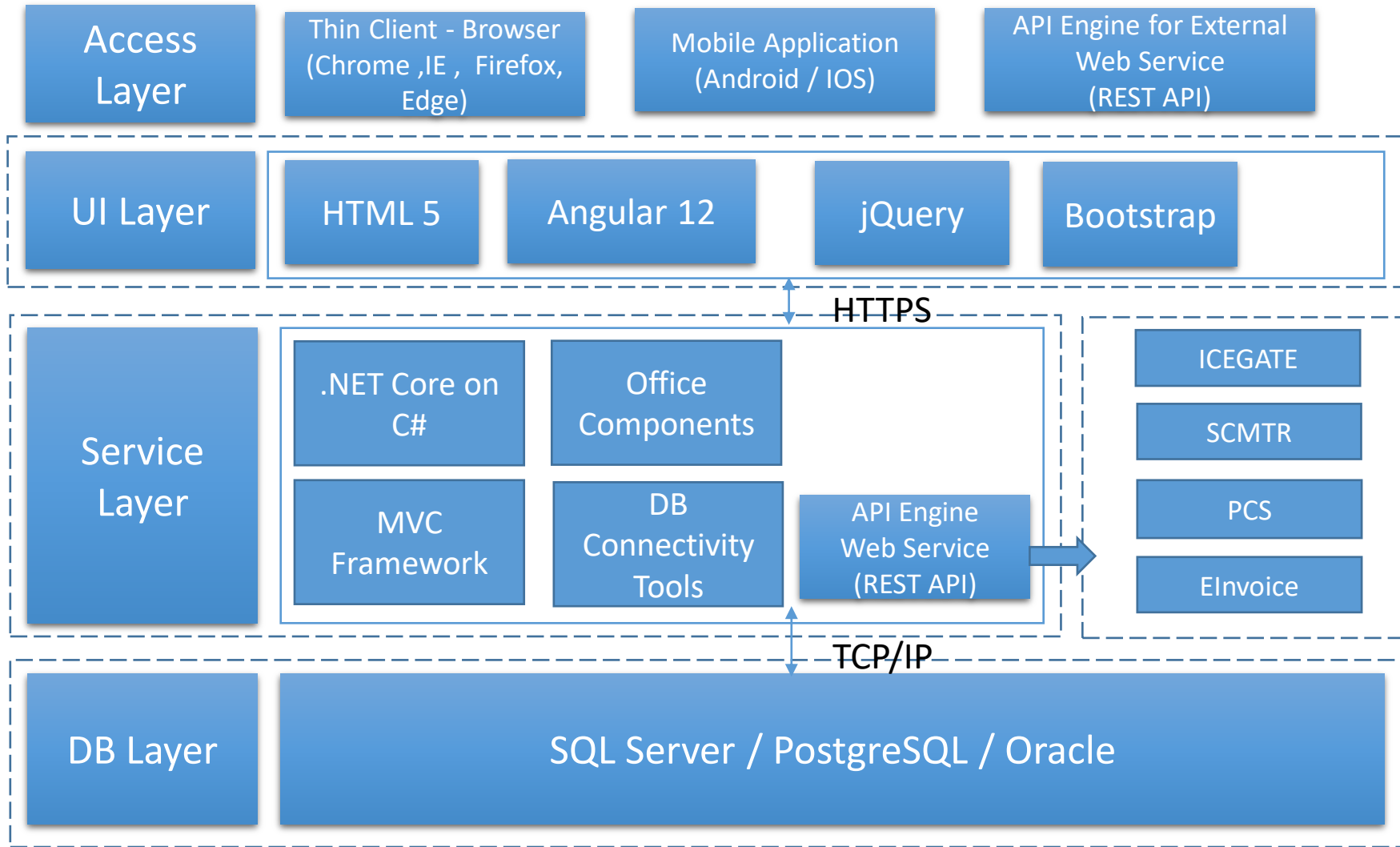
**VnVCS**  
V&V Comptech Systems

# CFSMag<sup>+</sup> Enterprise Edition

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One step solution for Logistics

### Solution Architecture – CFSMag Enterprise Edition



- Support Chrome, IE, Firefox and Microsoft Edge Browser
- User friendly UI with multi thread process
- Support Android and IOS Mobile
- Device Independent
- API Engine – Open to Interface with external entities
- Extendable to microservices, Kubernetes framework deployment in Google Cloud Platform
- Secured with VAPT compliances
- Fast Process with N-tire Architecture.

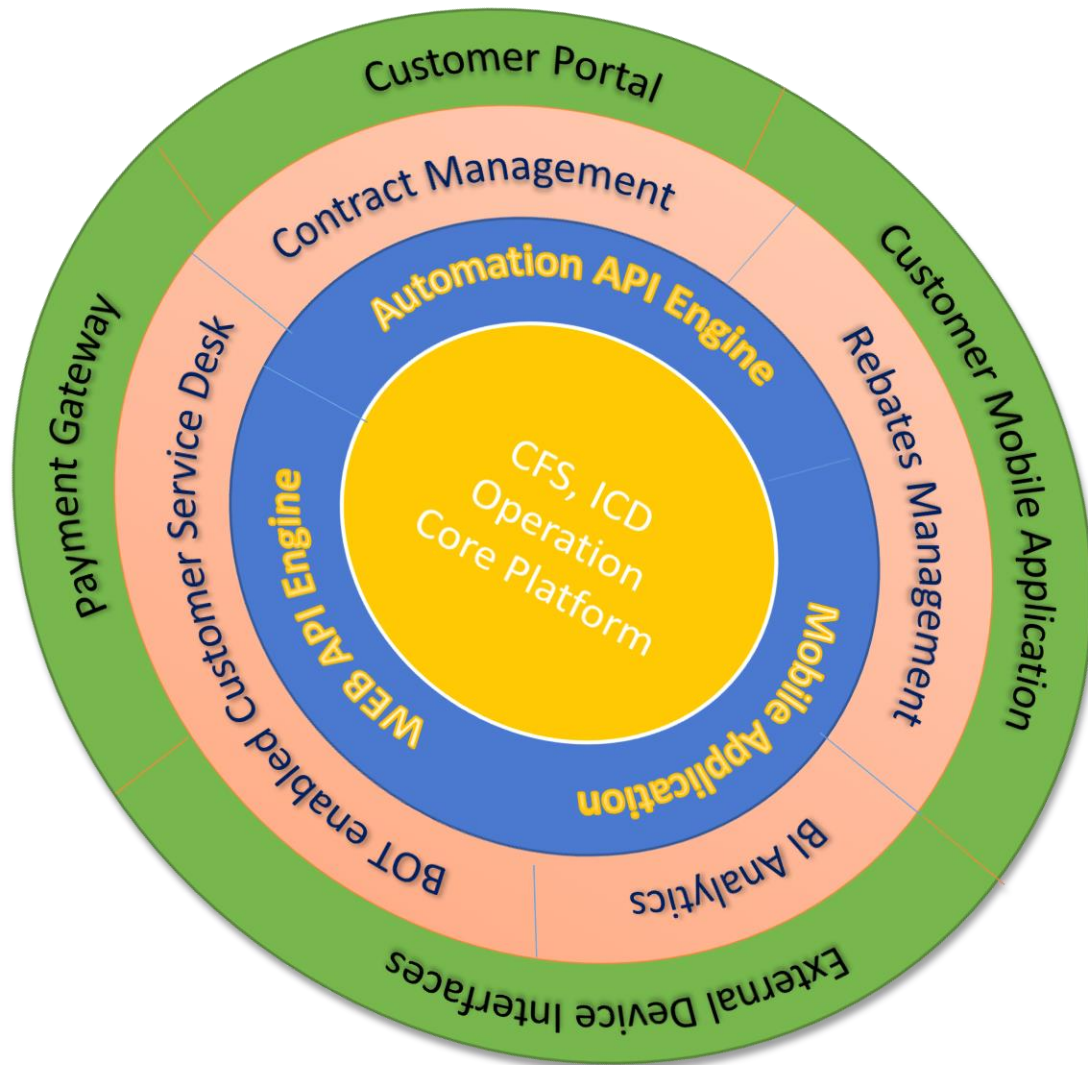
## Securities

- System certified with VAPT Compliance along with VAPT Report
- Internal audit process maintains each and every activity recorded with time and user
- Audit trail at all transactions and configuration modifications, maintain all change management records along with user information and timestamp with modified data information
- HTTPS protocol secure the system from hacking and other interference
- User control and access control availed in the system to provide limited usage to the user
- Internal algorithm facility availed to avoid data level security

## Document Management System

- DMS provides to load scan copies of information at each and every level of operation
- DMS provides to take container damage photos, Surveyor, CHA photo who take the cargo and container and plug in to respective operation
- User friendly document review for each and every document respect to container and cargo
- System facilitate to view the document audits, whenever any scrutiny comes from customs or any other bodies.

## Application Framework



- **Core Application** covers all the operations and business processes
- **Automation API Engine** covers RFID, Barcode, QR Code, Equipment interface processes
- **Mobile Application** covers Real time data capture using RDT, VMT and mobile data entry at operational areas
- **WEB API Engine** covers Data exchange process for Customs, ICEGATE, SCMTR, PCS, UN EDIFACT or any other Statutory related data exchanges
- **Contract Management** – covers contract definition related to sales respect to customer, cargo, vessel, periodic and many more base
- **Rebate Management** – extension of contract management, defines rebates to direct and indirect stake holders
- **Customer Service Desk** is related to customer complaint management and tracking along with BOT facility
- **BI Analytics** covers data analysis based on all information data bank
- **Customer Portal** – covers system access to external users along with data exchange process
- **Customer Mobile Application** – extension of customer portal, which covers mobile application for external users along with data exchange
- **External Device Interfaces** covers API for interfaces with external devices like GPS on truck, FASTag kind of interfaces
- **Payment Gateway** covers payment gateway interface with customer portal

## Core Platform Modules

### CFSMag+ Enterprise Edition Core Application Modules Covers

- Import, Export, Bond, Empty Container; Cargo and DOMESTIC Operation
- Barge Operation, ROAD and Rail Transportation
- Empty Yard Module and Container Repair Module
- Rail Terminal and Rail Service, hub and spoke business process
- Rail Siding Operation for 3<sup>rd</sup> Party ICDs and 3<sup>rd</sup> Party Rakes
- Complete Fleet Management interface with GPS Devices
- Warehouse Management with 3PL activities
- Liquid Terminal, Project Cargo, 3<sup>rd</sup> Party Inventory Management and Break Bulk Cargo Management
- Gate Automation for Container and Cargo
- Yard Automation with Planning and Management and Way Bridge Integration
- Online Data capturing for Yard and Warehouse Operation using RFID and Bar Codes
- Stores Management integrate with Container Repair Operation
- Resource Management including Human Resource and Equipment

## CFSMag+ Core Module

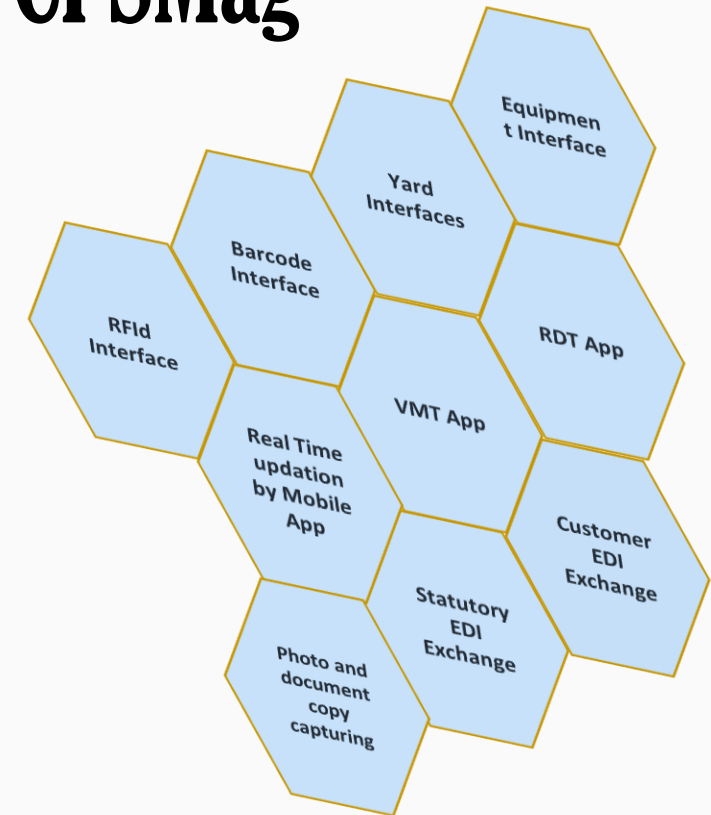


## Automation Platform Modules

### CFSMag+ Enterprise Edition Automation Modules Covers

- Automation process which involves RFId Interfaces, Barcode, QR Code scanning in Gate, Yard and Warehouse process
- Equipment and Driver management using RFId of Equipment and Driver card interface automation
- Internal Mobile Application for real time data updation at gate, yard, warehouse and customs operation for container and cargo service
- HHT / RDT interface for real time data updation
- VMT interface for internal vehicle drivers for container and cargo movements job allocations
- Source data reconciliation and interfaces by PCS, ICEGATE, SCMTR and UN EDIFACT respect to operation and customs process

## CFSMag+ Automation Modules

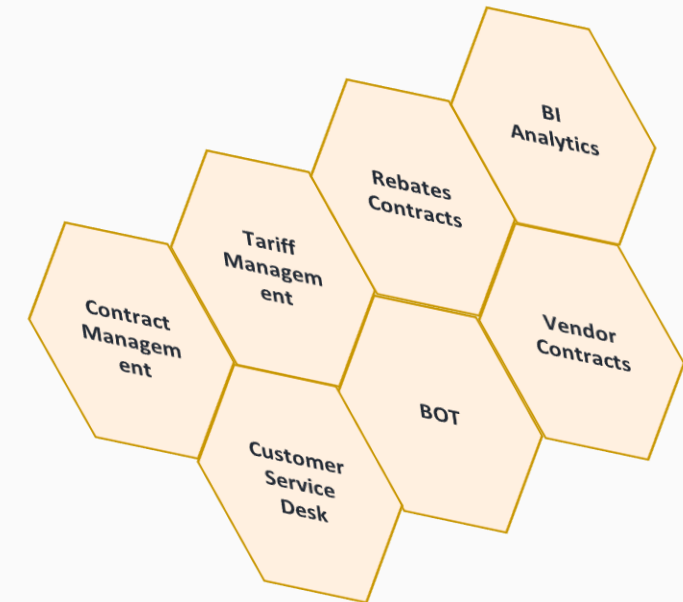


## Sales and Customer Management Platform Modules

### CFSMag+ Enterprise Edition Sales and Customer Management Modules Covers

- Customer Contract Configuration, Approval process
- Customer Tariff Management
- Rebates Management for Direct and Indirect Stake holders
- Customer Service Desk, for issues related logging for customers
- BOT for customer interaction
- Vendor Contract Management along with Transportation and Operations

## CFSMag+ Sales and Customer Management Modules





## Customer Interaction Platform Modules

### CFSMag+ Enterprise Edition Customer Interaction Modules Covers

- Faceless Process Enabled
- Customer Portal and Customer Mobile Application enable customer to access the limited data
- All Inventory, Gate process, Billing related to customer data enabled
- Service Request updation, pre-advice, DO and any information updation directly in the Portal
- Proforma Invoice for customer to view respect to customer billing
- Payment gateway interface facility to online payment collection
- External EDI Engine Interface for outsider like ODEX etc

## CFSMag+ Customer Interaction Modules



## Benefits

### CFS and ICD Modules

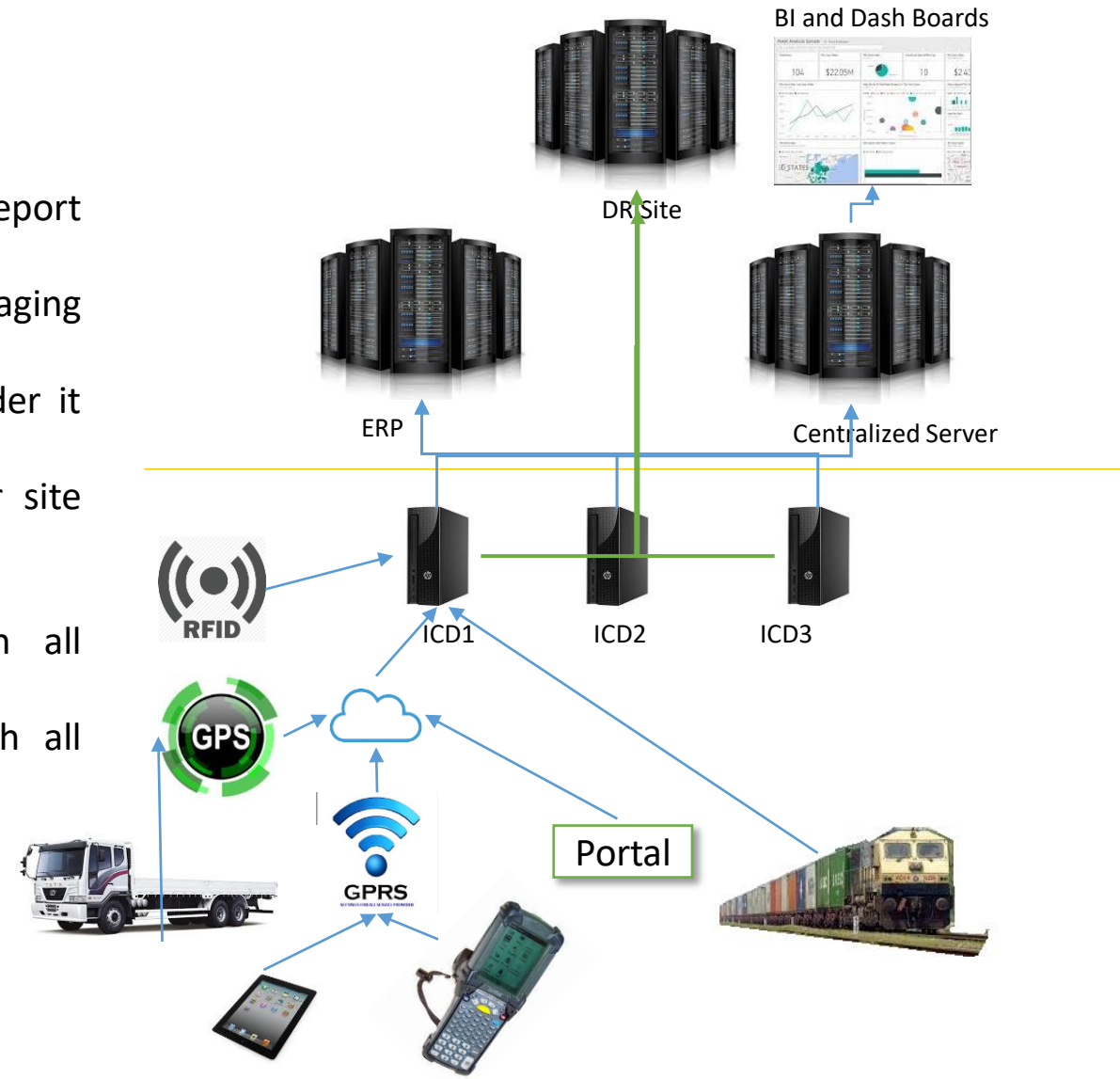
- DMS provides easy way for Documentation Management covers recording scanned documents at all stages through the Portal
- Tight Audit Process covers data changes audit and alerts for changes
- Admin level data change layer with Audit; provides system admin level for data change outside the system with audit trails.
- User Define EDI Engine – Provides rich facility for EDI generation which can be configurable for any EDIs
- Gate, Yard and Warehouse Automation interfaces provides accurate and reliable data
- Customized Billing configuration provides configuration of billing based on customer requirements

### Other Value Added Modules

- Online Data Capturing for surveyors at Rake Operation, Warehouse Operation and other areas avoid repeated data entry and provide online data for all the level
- API for Interface with 3<sup>rd</sup> Party tools like Mobile Apps, SMS, Portals
- BI Solution provides profitability of cycle, sector, commodity, customer, service and much more drill down
- Dash Boards and Reports provides online analysis to the management
- System driven process provides pending queue list for each and every activity to user
- Reefer Management facilitates to record reefer temperature online, allocate plugs and containers
- BOT – Semi automated services for customer

## Proposed Solution with Licensing mechanism

- Single Software, Common Architecture for all the ICDs and CFS
- Location based Database to ease the local operation
- Centralized database replicate local database at centralized server
- Centralized database used for management reports, statistics report avoids load on local system
- ERP Interface with SAP will be carried online using Middle level staging interface
- Warehouse online data capturing using iPad with Bar code reader it connects local server using GPRS
- Handle Terminal for Rake Operation, Yard Operation and other site activities
- Gate Automation using RFId Solution connect with local server
- Equipment Performance capturing using RFId interface with all equipment
- Driver Performance capturing using Card Reader interface with all equipment
- Trailer Tracking using GPS device interface attached with Trailers



## ERP Interface

### CFSMag+ Enterprise Solution interface with INFOR / SAP / SAGE / ACCPAC

#### CFSMag+ Enterprise Interface

- CFSMag+ Enterprise availed facility to interface with ERP systems for
  - Customer Invoices
  - Taxes
  - Tariff Ledger
  - Customer Ledger
  - Payment Collection from Customer
  - Credit Notes and Reconciliation
  - Vendor Payments
  - Expenses Accruals



CFSMag+ EE

