CICOD 1.0

Business Support System

Fully Intergrated Modules with the option to choose!

The Electricity Distribution **Business Use Case**



















KEY PERFORMANCE INDICATORS







MOBILE AND ONLINE





Business Support System

Fully Intergrated Modules with the option to choose!

Content

- 3 Customer Care
- 4 Commercial
- **6** Customer Segmentation
- 6 Operations And Maintenance
- Finance/Accounts
- 8 Vendor Finance
- Audit And Compliance
- Projects
- Inspection And Quality Assurance
- 12 Human Resource (HR)
- Corporate Communications
- Information and Communication Technology (ICT)



CUSTOMER CARE

Business Process and Use:

Call Centre

- The CRM module provides quick access to all Customers details
- Check customer billing invoice over a period of time
- Create and view complaints for customers
- Check customers payment history
- Anonymous fault reporting
- Anonymous fraud reporting

Work Force Manager (WFM)

- Manage customer complaints effectively
- Update customers on the progress of the complaints lodged.
- Provide access to customer details such as billing information, payment invoice and ticket lists.
- Generate NERC reports

Selfcare (Used by Customers)

- Meter ordering
- Bill payments
- View payment history
- Faults and Complaints reporting
- Add multiple accounts
- Pay into multiple accounts





BUSINESS PROCESS AUTOMATION

Features

- Work Order Management
- Queue Management
- Issue Tracking
- Ticket Management
- Internal Communication
- External Communication
- Customer Management
- Team Management
- File Management
- Inventory Approval Management
- Schedule Management
- Resource Allocation Management
- Reports



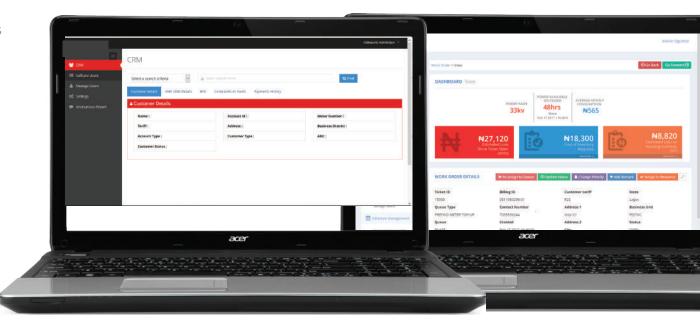
Features

- Customer Details
- Payment History
- Fault and Complain History
- Report Complain or Faults
- Anonymous Report



Features (Used by Customers)

- Meter Ordering
- Payment History
- Fault Reporting
- Report Complains
- Paybill Payment
- Get Transaction Receipt
- Add Related Accounts



CICOD SYSTEMS

COMMERCIAL/BILLING

Business Process and Use:

EMCC, Customer Management and Billing

- Forecast revenue based on power purchased and optimized distribution
- View power availability
- Tariff management
- Adjustments
- Manage customer load profile for un-metered customers
- AMR for enegry audit
- Meter reading
- Mediation Data- Where readings for Offline PostPaid Meter Readings, Online PostPaid Meter Readings, Offline Prepaid Vend are submitted
- Estimated Consumption simulation
- Enumeration Capture & validation of customers.
- Approval and Rejection of customer network assets
- Customer Index number generation
- Asset marking

Work Force Manager (WFM)

- Customer order fullfilment of meters/meter rollout management
- Resource management for customer engagement i.e meter installation and prioritised fault resolution
- Manage disconnection and reconnection orders
- Opportunity cost analysis on late fault resolution and awaiting inventory in store



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Features

- Forecast
- Bulk Purchase & Distribution Management
- Asset Provisioning
- Manage Power
- Consumption Measurement
- Outage Management
- Power on-Demand Scheduler
- Energy Audit
- Unified Advanced Metering
- Infrastructure Interface
- Customer Network Broadcast
- Customer Account Management
- Power Availability Management
- Customer Enumeration

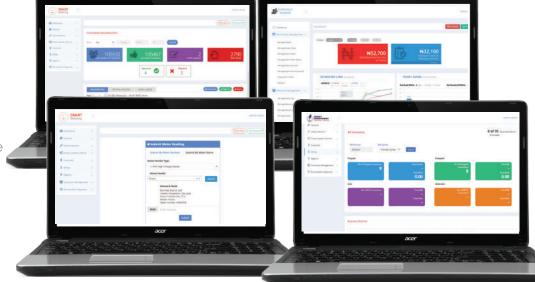


Features

- User Management
- Product / Tariff Management
- Customer Management
- Accounts Receivable
- Dunning
- Billing
- Adjustments Kwh or Amount,
- Promotions Discounts or Rewards
- Grid Meter Readings
- Distribution Transformer Readings
- Mediation Data: Offline PostPaid Meter Readings
 Online PostPaid Meter Readings
 Offline Prepaid Vend kwh
 Online Prepaid Vend & Load- kwh
- Est. Consumption Simulation
- Bill simulation
- Deliquency Report

Estimate Consumption

Bill Cycle



CUSTOMER **SEGMENTATION**

Residential / Business / Government Postpaid / Prepaid

Business Process and Use:

Work Force Manager (WFM)

- View Customer transaction history
- Create complaints for customers.
- Enables quick resolution of all customer complaints on queue
- Assigns work orders to various resources for resolution.
- Manage field resource

EMCC is used to:

- Monitor and review all consumption data against energy audit before approval for billing
- Export the readings for billing purpose
- Validate power availability on customer feeder

Android terminal

- Provides access to customer details on the field
- Capture Meter Image and Submission of meter readings
- Bills payment processing
- Spot Billing

Work Force Mobile

- Used by dedicated field force for quick resolutions and approvals from back office
- Used to view and request materials from store

CICOD SYSTEMS



Features

- Work Order Management
- Queue Management
- Issue Tracking
- Ticket Management
- Internal Communication
- **External Communication**
- **Customer Management**
- Team Management
- File Management
- Inventory Approval Management
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- Resource Allocation Management
- Reports



Features

- Forecast
- Bulk Purchase & Distribution Management
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Features

Bill Payments

Generate Voucher

Generate Token

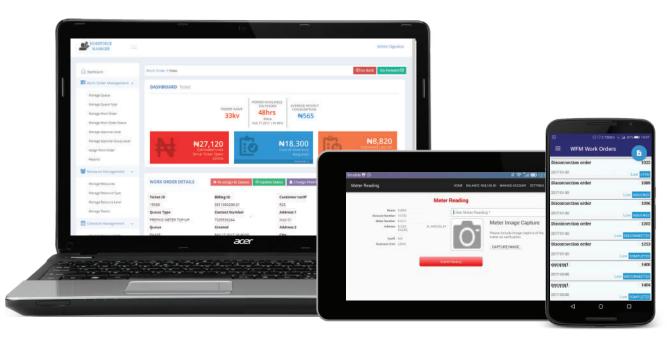
Report Faults

- **Features** Customer Management Work Order Management
 - Meter Reading
 - Request Inventory

 - Internal Communication

WORKFORCE

- Extenal Communication
- Location Management



OPERATIONS AND MAINTENANCE

Planned Maintenance/Fault Management Protection and Testing/Power System Control

Business Process and Use:

Work Force Manager (WFM)

- Enables the timely management and tracking of faults from creation to resolution
- Approval process management for requesting materials from store
- Field resource utilization tracking and optimization
- Permit request and authorization lifecycle management
- Internal communication issues logging
- Generate report

EMCC

- Records power purchase
- Manage power distribution between injection substations and feeders based on business intelligence
- Single view AMR recording versus District Substation Operator actions
- Automatic load schedule management
- Define and monitor high priority feeders (Always ON)
- Automated on/off feeders for transmission outage
- Log reason for outage
- Records feeder load, grid meter reading and power availability
- Network Broadcast on fault

Work Force Mobile

- Used by dedicated field force for quick resolutions on fault issues
- Request for permit and report fault
- Used to view and request materials from store
- Internal communication issues logging

CICOD SYSTEMS



Features

- Queue Management
- Fault Lifecycle Management
- Resource Allocation Management
- Work Order Management
- IssueTracking
- Ticket Management
- Schedule Management
- Customer Management
- File Management
- Internal Communication
- External Communication

Reports



FIELD FORCE MANAGEMENT

Features

- Work Order Management
- Meter Reading
- Request Inventory
- Internal Communication
- Extenal Communication
- Location Management



- Forecast
- Bulk Purchase & Distribution Management
- Asset Provisioning
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REVENUE RECOVERY /ASSURANCE AND FRAUD MANAGEMENT

Business Process and Use:

EMCC is used to:

- Manage Delinquency report

Work Force Manager (WFM)

- Create disconnection work orders from delinquency list uploaded/generated,
- Manage disconnection/reconnection process
- Assign disconnection work orders to resource

Work Force Mobile

- Manage disconnection work orders
- _ Generates order id for IGR payments

Unified Collection Gateway (UCG)

- Track order id payments

CICOD SYSTEMS



BUSINESS PROCESS AUTOMATION

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- Bulk Purchase & Distribution Management
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- Manage Power
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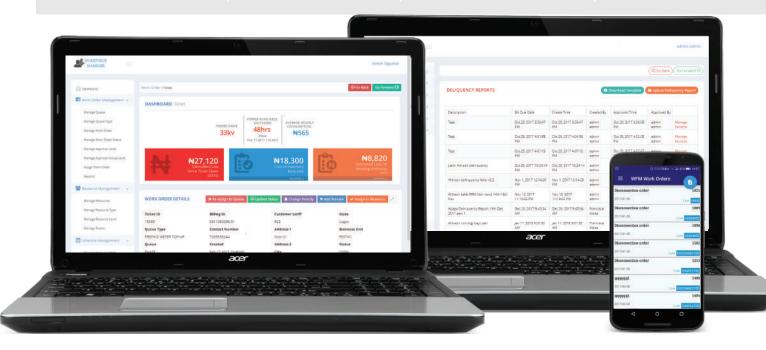
Features

- Real-time Cash Management
- Cash Office Management
- Revenue Assurance
- Real Time Bank Balance (Zenith Bank Xpath)
- Reports Dashboard
- Channel Partner Management
- Global Accelerex POS Integration (Straight Through Processing)
- Real-time NIBBS Ebills
- Real-time Interswitch Quickteller.com
- Real-time Web Payment
- Real-time SMS Payment
- Real-time Voucher Electronic Wallet

FIELD FORCE MANAGEMENT

WORKFORCE

- Work Order Management
- Meter Reading
- Request Inventory
- Internal Communication
- Extenal Communication
- Location Management



CICOD SYSTEMS

FINANCE/ACCOUNTS

Business Process and Use:

Unified Collections Gateway (UCG)

- Provides single view treasury dashboard across all bank accounts and collection channels
- Provides channel partner and wallet management
- Monitors cash intake and cash in transit
- -Reconcilation management
- -Monthly variance reporting
- Real time collection (Prepaid and Postpaid) tracking per channels
- Real time IGR tracking (Loss of revenue, penalty and reconnection fee)

Work Force Manager (WFM)

- Lifecycle management of uncredited payment complaints from customers
- Internal workorder request and approval

Inventory Management System (IMS)

- Budget Usage trend on materials
- Validation of new goods recieved into the store
- Asset management

PC Terminal

- Cashier terminal for collections using cash or card
- Report customers compalints from cash office
- Raise internal fault from cash office
- Customer management



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CRM - PC

- Real-time Voucher
- Electronic Wallet

Features

Bill Payments*

Generate Token

Report Faults



Features

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STOCK LIFECYCLE MANAGEMENT

Features

- Stock Management
- Provisioning
- Inventory Lifecycle (Track & Track)
- Alerts
- Reports
- Multi Store Management
- Bin Card view of Material
- Inventory Accounts
- Export data as Spreadsheet
- Fine Categorization of Material
- Material reservation for Issuance
- Issuance of Material and Waybill
- Printout

Standalone and Integratable to other

System

IMS



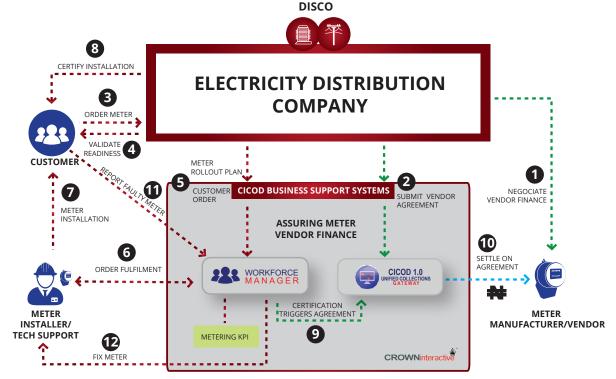


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VENDOR FINANCE

Business Process and Use:

- 1 Negotiate Vendor Finance: Negotiate with meter vendors to supply and install meters on-demand and get paid monthly from the revenue generated from the meter.
- 2 Submit Vendor Agreement: Terms of the agreement to be setup on the system.
- 3 Order Meter: Customer may therefore order meters from the DISCOs channels online, customer care office or via channel partners and these orders are submitted into Work Force Manager (WFM).
- 4 Validate Readiness: The DISCOs visits the customer to validate the request and readiness of the property. The DISCOs shall also be required to do the same for their meter rollout plan.
- 5 Meter Rollout Plan & Customer Order: Successfully validated customers are then updated in WFM with a status confirming the metering order.
- **6 Order Fulfilment:** The meters are then shipped to an agreed DISCO location and programmed ready for installation.
- **7 Meter Installation:** The installer agrees an installation date with the customer. On the installation date, the meter is picked up and taken to the customer premise for installation. The installer provides a status update on the system.



- 8 **Certify Installation:** The DISCOs are required to certify every installations done by the vendor before the meter is confirmed as meter commissioned. The DISCO stall be required to certify the meters within an agreed period.
- Ocertification Triggers Agreement: Once the status has been certified, the contract agreement is triggered for that customer. This officially entitles the Vendor to the agreed share of the customer's payments from the DISCO's portion of the revenue.
- Settle on Agreement: The settlement report is then made available to the bank for settlement to the vendor as agreed.
- **Report Faulty Meter::** The customer reports a fault on the meter using any of the channels link through to WFM.
- Support Faulty Meter: The dedicated technical support team of the vendor respond in resolution to the meter fault based on the agreed SLA of a working meter within the duration of the contract agreement.

AUDIT AND COMPLIANCE

Business Process and Use:

Work force manager

- Lifecycle management of internal and external fraud complaints
- Ensure compliance to business processes
- Generate audit trail reports on automated business process activities

Unified Collection Gateway (UCG)

- Financial audit transaction trail





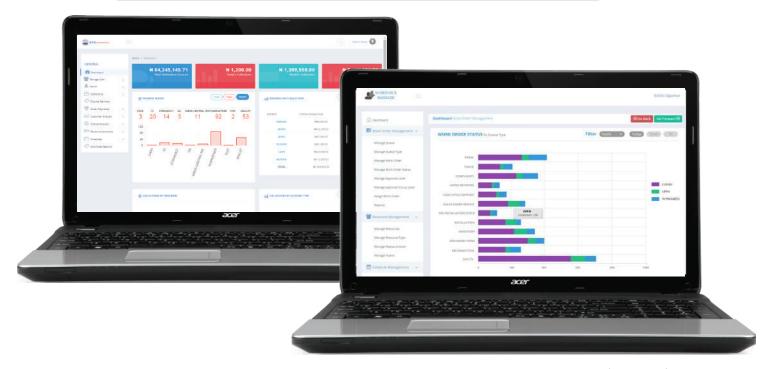
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PROJECTS

Business Process and Use:

Inventory Management Systems (IMS)

- Budget and Proposal creation
- Stock level assesement for planning
- Recommend new Inventory

Work Force Manager (WFM)

- Assigns work orders to project officers
- Inventory request and approval for project execution.

- Tracks the progress of the work order and add remarks for internal communication.

CICOD SYSTEMS



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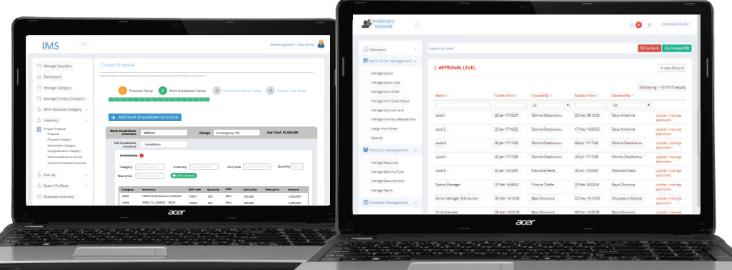


STOCK LIFECYCLE MANAGEMENT

Features

- Stock Management
- Provisioning
- Inventory Lifecycle (Track & Track)
- Stock Level Alerts
- Reports
- Multi Store Management
- Bin Card view of Material
- Inventory Accounts
- Export data
- Supplier Management
- Material reservation for Issuance
- Issuance of Material
- Waybill Printout
- *Project Material Costing
 Standalone and Integratable to ERP Systems

*Coming soon



INSPECTION AND QUALITY ASSURANCE

Business Process and Use:

Inventory Manager System (IMS)

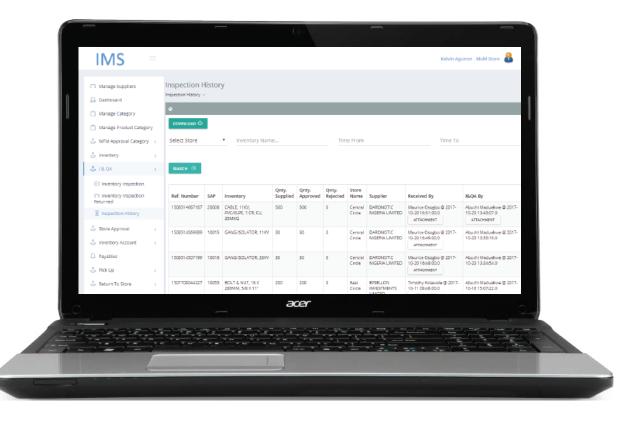
- Inventory tracking of items received into store
- Quality assesment and approval of inventory received into store
- Monitoring of inventory usage
- Quality check on items returned and transferred across stores.

CICOD SYSTEMS



- Stock Management
- Provisioning
- Inventory Lifecycle (Track & Track)
 Issuance of Material
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- Inventory Approval
- Standalone and Integratable to other System



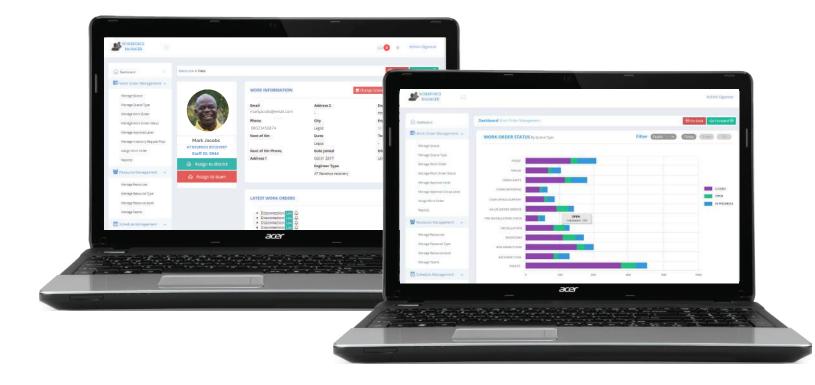
HUMAN RESOURCE (HR)

Business Process and Use:

Work Force Manager (WFM)

- Manage internal issues regarding staff misconduct
- Staff feedback, including suggestions and recommendations
- Manage internal and 3rd party staff validation module for customer remote verification
- Resource availability management
- Resource utilization management
- File management





CORPORATE COMMUNICATIONS

Business Process and Use:

Work Force Manager (WFM)

- Creating and monitoring work orders for complaints received via social media
- Access to customer details

Web Portal

- Informaion and news update

EMCC

- Network Broadcast to profiled customers



WORKFORCE MANAGER

BUSINESS PROCESS AUTOMATION

Staff Verification

Team Management

Inventory Approval Management



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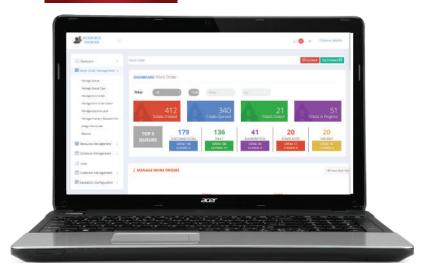
INFORMATION AND COMMUNICATION **TECHNOLOGY (ICT)**

Business Process and Use:

The information technology department serves as the first line of support for all CICOD systems deployed for the DISCO.

Work Force Manager

- The life cycle of all issues raised are managed via the system
- Resources are assigned and tracked via the system





MULTI-PAYMENT SINGLE VIEW



WORKFORCE

FIELD FORCE MANAGEMENT

ASSET ENUMERATION



CUSTOMER MANAGEMENT



ANDRIOD

TERMINAL









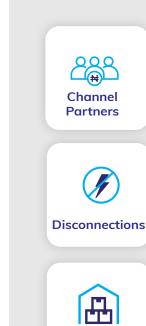
MANAGEMENT INFORMATION SYSTEM DASHBOARD

Business Process and Use:

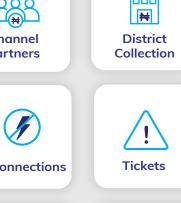
- A real time summary of all key business deliverables to aid in monitoring the DISCO's KPI performance.
- Real time tracking of all customer payments from all Channels: Web, Bank, Mobile, SMS, USSD via cash office, bank payments, voucher management, and over 10 web channel partners integrated to CICOD.
- **Cash in bank** Real time view of DISCO's funds in IGR account, Energy account.
- Collection Efficiency Real time tracking of DISCOs collection efficiency, billing efficiency and cusomer response
- Inventory Life-cycle Management (Stock & Asset Management): Real time tracking of an automated stock management process. Track every material realeased to where it is utilized.







Stores



















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