Energy Software

Release Notes

VERSION 10.0

June 2022

Energy Software

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W Energy Software Version 10.0 is an integrated solution for the oil & gas industry, offering a full product suite across the Midstream, Upstream, and Transportation/Liquids Management segments. Version 10.0 continues to build upon the highly successful prior releases and offers diverse set of features across the product suite.

W Energy Software release notes provide information on the features and improvements in each release.

The features documented in these release notes are all features added between 8.0 and the initial release of 10.0. Some of these changes may already be on your current client-specific branch.

What's New in Version 10.0?

In addition to improved performance and greater stability and usability, version 10.0 users will find new features in the following modules:

- Accruals
- AFE
- Contract Management
- Division Order
- Financials
- Fixed Assets
- Interfaces
- JIB
- Land
- Materials Inventory
- ONRR
- Payouts
- Purchase Orders

Three new modules are available with Version 10.0:

- Asset Retirement Obligations (ARO)
- Expense Reports
- Production Accounting

Global Features

Performance Improvements

- Changed database isolation level for reduced locking and improved DB performance (allows queries to read and write to the same tables at the same time, without locking)
- Added service to clean up cancelled and long-running grid queries automatically, to prevent DB locking (User will get a status message saying 'Grid request timed out' if grid query was running more than 5 mins- note, the timeout threshold is configurable)
- Added core data layer caches to improve memory allocation performance in Go
- Added concurrent buffered insert methods to improve large-data process performance
- Background the clearing step for DOJ/Split/Transfers to improve user experience and performance
- Added code to detect processes that were flushed by devops and force them to safely clear their data
- Reduced the risk of deadlocking on GL Distributions when copying/deleting large amounts of selected data (>1000 records)
- Improved DO locking mechanisms to make more resilient to failure
- Added date picker to some company grids to improve performance (Payable Results, Owner Amounts, DOJ Results, Payments Results) that will be retained when going to other Disbursement pages, like the choose dates picker on asset level grids
- Improved performance and reliability of DO operations like suspense, release, transfer
    - On transfer/Release/Suspense, added a default transfer level of ‘automatic’ that will bypass validations for transfer level
    - On Transfers index page, added progress information
        - On transfers index page, on the ‘owner interest from’ and ‘owner amount from’ grids, added "Transfer Stage", "Stage Progress %", and "Est Remaining in Stage" columns.
        - Stages are, "Preparing", "LOI Transfer", "OA Transfer", "Rebuild CA", and "Complete" (note: for a transfer that has LOI and Owner Amounts, it will complete a stage for LOI transfer and then a stage for OA transfer)
- Improved performance of Update Check Input
- Improved performance of AR/AP creation (importing) - 4400 AR Invoices created in 13 seconds
- Improved performance of JIB Billing/JIB Final
- Improved performance of Financial Interface
- Improved performance of AR/AP/JE Posting
- Improved bulk insert speed and reliability for all Go processes

- Improved runtime and memory consumption of Apply DO, DO Journal, JIB, Financials
- Improved runtime of large DO Journal run from 6 hours -> 1 hour (25 million results)
- Added multi-threaded processing (called 'Chairman') for transfers and posting
    - Configurable number of rescue workers dedicated to transfer/posting providing the ability to queue up multiple transfers that are then broken into chunks and processed in parallel
- Fixed various bugs in processing, especially Apply DO, DOJ, JIB, Payment Releaser
- Added columnstore indexes to the following tables, improving grid, process, and report performance
    - jib_audit_data
    - journal_results
    - journal_results_archived
    - gl_distributions
    - financial_integrations
    - summarization_trace_xrefs
    - gl_transactions
    - owner_amounts
    - allocated_results
    - allocated_results_archived
    - payable_results
    - upstream_lines_of_interest
    - contract_values
    - contract_values_archived
- The following Results Pages/Grids which populate from a columnstore DB table will load mass amounts of data quickly and filter quickly, as well. Processes that populate these tables were updated to account for the new columnstore indexes.
    - Physical Results/Allocation Results
    - Contractual Results/Contract Split Results
    - Contractual Results/Contract Fixed Results
    - Contractual Results/Valuation Results
    - Accounting Results/Journal Results
    - ONRR Results/ONRR Allocation Results
    - ONRR Results/ONRR Valuation Results
    - Accruals/Accrual Allocation Results
    - Accruals/Accrual Split Results
    - Accruals/Accrual Fixed Results
    - Accruals/Accrual Valuation Results
    - Accruals/Accrual Journal Results
    - Disbursements/Payable Results

  - Disbursements/Payment Results
  - Disbursements/Journal Split Owner Results
  - Disbursements/Owner Amounts
    - 3 sec to load 3 accounting date's data (72 million records)
    - 5 sec to load totals by clicking the 400+ link on bottom right side of grid
    - 2-3 secs to filter
  - Sorting performance was out of scope for this release, so sorting or filtering while sorted will affect performance and could take an additional 30-60 secs
  - Disbursements/DO Journal Results
    - 3 sec to load 12 accounting date's data (73 million records)
    - 6 sec to load totals by clicking the 400+ link on bottom right side of grid
  - Division Orders/Transfer, Suspense, Release/LOI and Owner Amounts grids (note, these grids did not get the persisting 'choose dates' like the Disbursements results grids did- they just load mass amounts of data quickly)
  - JIB Reconciliation/JIB Audit Data
  - Accounts Payable/AP Invoices/edit/GL Distributions
  - Accounts Receivable/AR Invoices/edit/GL Distributions
  - General Ledger/Journal Entries/edit/GL Distributions
  - Financial Inquiry/ Transaction Inquiry
  - Financial Inquiry/Income Statement
  - Financial Inquiry/Balance Sheet
  - Financial Inquiry/Cash Transactions
- Improved the performance of the following grids:
  - Cost Allocation Results
  - Direct Cost Results
  - Overhead Results
  - Owner Billing results
  - Cost Recovery Results
  - JIB Financial Results
  - JIB Prepayments
  - JIB Unbilled Charges
  - Overhead Results
    - Owner Suspense Results
    - Vehicle Results

Global Changes

Pre-filtering Requirement

To improve performance on various grids throughout the application with large datasets, we have included pre-filtering requirements. The following list includes all screens where we added pre-filtering and provides the pre-filter type used.

Screen	Pre-Filter Type
Disbursements → Owner Amounts	Choose Dates (Accounting Date)
Disbursements → Payable Results	Choose Dates (Accounting Date)
Disbursements → DO Journal Results	Choose Dates (Accounting Date) & Filter to Start
Disbursements → Payments Results	Choose Dates (Accounting Date)
JIB Reconciliation → Cost Allocation Reconciliation	Filter to Start
Land Agreements → Agreements	Filter to Start
Land Agreements → Tracts	Filter to Start
Land Agreements → Sub-Tracts	Filter to Start
Accounts Payable → AP Invoices	Filter to Start
Accounts Payable → AP Payments	Filter to Start
Accounts Payable → Revenue Payments	Filter to Start
Accounts Payable → Land Payments	Filter to Start
Accounts Receivable → AR Invoices	Filter to Start
Accounts Receivable → AR Apply	Filter to Start
General Ledger → Journal Entries	Filter to Start
Financial Inquiry → Transaction Inquiry	Filter to Start (Company, Fiscal Year)
Financial Inquiry → Open Receivables	Filter to Start
Financial Inquiry → Open Payables	Filter to Start
Financial Inquiry → Income Statement	Filter to Start (Company, Fiscal Year)
Financial Inquiry → Balance Sheet	Filter to Start (Company, Fiscal Year)
Financial Inquiry → Cash Transactions	Filter to Start (Company, Fiscal Year)
Financial Inquiry → Detailed Trial Balance Inquiry	Filter to Start

Global Grid changes

Due to the large datasets and the fact that more grids are having to have the show 400 limit at a time restriction, the jump to bottom of results icon was removed from all grids.

Global Partitioning

Added company-level partitioning to the application.

New Processes

Added new BA Statement Export process

Config Changes

To prevent servers from running into space issues, made a change so that users will have to add features.log_performance: true if they want to write to the performance_logger.log.

Added the ability to turn Calc Trace on and off with the trace:enabled: <true> or <false> config.

Hardware and Software Requirements

The major performance improvements released with Bob result in new technical requirements for user environments.

Accruals

Updated Accrual Logic

Provided users with the ability to accrue for payments that will be generated from the Disbursement processes using updated accrual logic. Updated logic includes volume estimation and rate estimation and improvements to the accrual journal capabilities.

A new Accrual Setup screen was added under Asset Setup that allows users to customize the logic used for each Asset uniquely instead of applying a single logic to all Accrual processes. For example, Users can choose Estimate All Measured volumes to estimate all measured product /usages that exist on prior months on a meter.

Optimized Accrual Splits Export Query

Added a filter to improve the performance of this query.

AFE

Added AFE Intercompany Functionality

In order to enable AFE Intercompany functionality, the following changes were made:

Updated the AFE Net Interest logic to calculate a net interest for all lines of interests related to all BAs on the new company_business_associates table. This change applies to the DOI Sync process on the AFE index screen and on Update of an AFE. When the Net Interest Calculation detects more than 1 internal company has an interest on the division order, the Multiple Internal Interests flag on the AFE Header is set to 'true'.

Modified the AFE Reclass Process so that it processes at the AFE level not the Company Level. The process will reclass all unreclassed AFE actuals records whose AFE Number is in the selected Unprocessed AFE Reclass records.

Modified the AFE Reclass Finalize process to finalize all `afe_reclass_results` related to a given AFE record, regardless of what company the results are booked to.

Updated Importer Functionality

Enhanced the AFE Project importer to allow users to mass update existing AFE projects via an importer (similar to our COA or BA importer).

Added functionality to the AFE Importer so that users can mass update AFEs via the importer, update an AFE Budget at the same time that they are uploading the AFE Header and insert a user-defined AFE number.

Updated the AFE Budget Importer so users can mass update the AFE's Gross Budget via the importer.

Asset Retirement Obligations (ARO)

ARO is a new module released with Bob that allows users to use the W application to outline the legal obligation associated with the retirement of an asset.

ARO Screens

The following screens were added as a part of this new module:

- **AROs** The primary data entry screen for the module
- **ARO Layers** Allows users to forecast cash flows and cash flow probability from an ARO over time. ARO Layers are defined on the ARO Edit screen. The ARO screen allows users a quick way to view and drill down into Cash Flow Layers.
- **ARO Results** Displays the results from the sets of ARO processes.
- **ARO Process Control** The entry point for running the ARO processes: Creation, Accretion, Layer Revision, and Settlement
- **ARO Permissions** Controls user permissions for various ARO actions
- **Liability Actuals** Displays liabilities tied to an ARO. It sources legacy data from an upload process and current data from the financials module (via GL Transactions).

ARO Processes

The Finalize process for each of the processes below creates integration records for the Financials module (visible on Financial Interface / Interface Inquiry, financial_integrations table) from the ARO Results being finalized. Once complete, the posting engine to converts these integration records into Journal Entries in the financials module.

Creation

The Creation processes act on and creates results for “new” AROs

Accretion

The Accretion processes act on and creates results for “new” ARO cash flow layers that accretion has not yet stopped.

Layer Revision

The layer revision processes act on and creates results for AROs with “new” cash flow layers.

Settlement

The settlement processes act on and creates results for AROs that have activity in Liability Actuals.

Contract Management

Contract Terms Functionality

- Added functionality so that users can create custom terms that are assigned to Contract Templates and are then automatically populated on a Terms tab when a Contract Template is chosen during Contract creation.
- Added a Contract Template Setup screen in Global Setup to determine which terms appear for a contract.
- Added a Terms tab to the Contracts screen where the custom terms will appear.
- Added 3 new Code Tables to support this functionality: Contract Term Class, Contract Term Definitions, and Contract Terms.

New Contract Setup Screen

Added a Contract Setup screen as a Global Setup menu item. Contract Setup allows users with access to the screen to determine which Contract Fields are enabled/required based on Contract Type.

Enhanced Contract Copy Functionality

Enhanced the Contract Copy function so that users can choose which fields they want to be copied when copying contracts.

PEC Interface

Provided the ability for W to interface with PEC and retrieve Health and Safety Compliance and Insurance data from PEC.

Contact Status change

When the contract_workflow config is set to true, the Contract Status field on the Contracts grid pulls the status from contracts.workflow_status instead of contracts.contract_status_id.

New Validations

The following new validations were added during contract execution:

- The application checks to see that if there is a parent contract, it is not also listed as a child contract. If this happens, the following validation occurs "Contract number <contracts.number> cannot be assigned as both Parent and Child contract. Please modify your Relationships before Executing."
- The application validates that the Contract Begin Date (if entered because it is not required) is not before the Effective From Date. If it is, the following validation occurs “Contract Begin Date cannot be before Effective From Date.

Contract Dedication for Meters

Added the ability to dedicate meters to contracts. Requires the contract_dedications_midstream_fields feature config to be set to True.

Division Order

Effective Dated Burden Groups

Enhanced Burden Group Owners to include Effective Dates in order to prevent unnecessary creation of additional burden groups for each change in WI. Division Order validations now ensure that effective dates of the for the Lines of Interest tie to the corresponding effective dates of the Burden Group Interest Owners. If a client utilizes the tag feature, the validations ensure integrity of the owner number, role function, interest type, effective date, and tag value.

WI to TIK Interest Transfers

Enhanced the Transfer process to allow for transfers of WI owners to TIK owners. When a WI to TIK transfer takes place, all owners in the lifecycle are time-sliced at the As of Date of the transfer. This allows for appropriate DI calculation to take place before and after the date of the transfer.

DI Calculation Updates for Arkansas

Enhanced how DI is calculated for Arkansas DOs in order to properly distribute revenue. Updated the Division Order Upload Template and added validations to support this feature.

When the following conditions are present, alternate logic is used for the DI Calculation field.

- The do_arkansas_royalty" config is True
- New checkbox on DO Header 'AR Division Order' is True
- At least 1 LOI has an Interest Type where the new Interest Type field 'AR Royalty' is True

When a user clicks 'Run Interest Calculations' the following logic occurs for the calculation of the DI field:

- An Owner's DI equals their NRI for any Line of Interest that has an Interest Type where AR Royalty = TRUE.
- The DI for all other Interest Types uses current logic for calculation.

Optimized Rebuild Contract Allocations Process

Moved the Rebuild function from the Contract Allocations screen to the Asset Process Control screen and made it a normal batch process. Rebuild from CA was also included on the ONRR-specific process control screen.

Expense Reports

This is a new module that offers users a process for submitting expenses that are eligible for reimbursement.

This module provides users with the ability to:

- Enter, approve, and audit expense reports
- Search for expense reports and audits with an inquiry process
- Interface to financials to account for expenditures and reimburse employees

Financials

1099 Reporting

Added complete 1099 reporting functionality and updated it to include changes made for 2021 reporting.

Multi-Bank Functionality

Added functionality so that multiple banks can be used for payment types (Check, ACH and Wire), AP, Revenue (disbursements) and Land. A new code table, Bank Formats, was added that contains all bank formats used in the Payments Release process.

Clients moving from check flavor to multi-bank functionality should reference the Multi-Bank Setup helpsheet provided with the release.

International Banking Instructions

Added the following optional columns to the ACH-Offline and Wire-Offline payment types: SWIFT Number, IBAN Number Intermediary Bank, and Intermediary Bank Swift Number.

Positive Pay File Changes

Updated Positive Pay File to export as .xlsx or csv.

Made a change so that Positive Pay files are generated for all companies when 'Create Positive Pay Files' process is run, regardless of which company the user is currently seeing in the header.

Payment Obligations Changes

Made a change to allow users to select both Operator and Participant Business Associates when entering payment and non-payment obligations.

Updated mapping from Open Invoice

Updated the mapping between Open Invoice and the financial_integrations table

AR Posting Behavior Changes

Added the ability to change the posting behavior of AR Invoices. When the features.ar_posting_sign_flip config is true, the application multiples the Current Amount by -1 and the Trans Ref Amount by -1.

Revenue Remittance File Updates

Updated the Revenue Remittance file to include Gross Well Price.

Updated the file to include a Payor column.

Release Payments Changes

The release payments process is now listed in the Company Process Control / Process Control Log for the Company that was active when the release was performed.

In order to prevent duplicates, users can only release payments one at a time for each remittance type (but a different user can release a payment for a different remittance type at the same time).

Improved the processing time of the Release Payments process.

Added a new config key_passphrase setting to the payment_export_ftp config to allow payment releaser files to export to the sftp using key files that require a passphrase.

AP Invoice Changes

Added a new config (single_pay_check_offline_invoices) that allows users to choose whether AP invoices with a payment type of 'Check - Offline' should be treated as if Single Pay is true when AP payments are created for them (config is set to true) or to treat Check - Offline invoices as single pay, unless they are explicitly flagged so (config is set to false). The default is false which is a change from the previous functionality.

Gave users the ability to upload multiple GLD lines to an AP Reclass invoice in draft status.

AP Payment File Changes

Added a new Invoice record to the Wells Fargo Payment Manager payment file format. This new invoice record will only be generated where the AP Payment's remittance type is AP.

Made a change to source the Additional Name field from the ap_payments.attention field.

Affiliate Accounting Date Lag

Added affiliate_accounting_date_lag config so that users can control the accounting month that the operating company and their affiliates book their financial entries. For JIB Final, the accounting month = JIB Accounting Month + the number of months specified in the affiliate_accounting_date_lag to the JIB process date. For DO Journal, the accounting date = the accounting date set on the company process control + the number of months specified on the affiliate_accounting_date_lag configuration.

Asset Journal to Financials Update

Added integration from Asset Journal results to Financials to include cost center and accruals flag for monthly reversal.

Mass Change Updates

Provided users with the ability to mass select AP Invoices, AR Invoice, and JEs and then mass Submit, Archive or Delete selected entries.

Added the ability to mass reverse a set of Journal Entries.

New Bank Format

Added new PNC Bank Format

Column changes

The following columns were added to the Journal Components screen: Interface Source, BA Entity Type, Affiliate Function and Affiliate Name.

The following columns were added to the Journal Results screen: Selected, Interface Source, BA Entity Type, Affiliate Number, Affiliate Name, Affiliate Function and Cost Center.

The following columns were added to the GL Distributions screen for individual journal entries to allow Material Transfers to send more information to GL Distributions: Item Code, Item Description, Serial Number, Item Condition Code, Secondary Quantity and Secondary UOM. The External Interface Lines template was also updated to include these fields.

Validation changes

Removed Company/Cost Center Validation and Company/AFE Validation when posting system generated entries. Validations only occur when the intracompany flag is set to False. This allows multiple internal companies to have interest in a given Cost Center/AFE.

Removed a validation that was preventing users from uploading AFE numbers with special characters in the External Interface.

Fixed Assets

Tax Depletion Process Updates

Updated the Tax Depletion Process to calculate a depletion rate by well based on lease agreements used for year-end processing and again for an amendment later in the year. Updates were made to the Production/Reserves Uploader to allow production upload and to the Results screen to show the derived depletion rate. The safe harbor rate was modified to affect all reserves and not just PUD reserves.

Depreciation Schedule Changes

Changed the logic when creating new Fixed Assets via the uploader to use the As Of date so that schedules are not limited to starting in the current calendar month.

Rebooking functionality

Added the ability to reverse and rebook same month UOP results and same month Schedule results.

Updated FA Staging Process

Updated the FA Staging process to only pull in transactions where the cost center type of the cost center on the transaction has "Include in FA Staging"

Interfaces

Open Invoice Changes

Added functionality to pull approved AP invoices from Open Invoice and allow client-specific mapping from the XML to W Energy Software.

Added a new block to the OI config that drives the Company Name and DUNS number passed to OI as part of the export for AFEs and Cost Centers.

Added functionality to end timestamps for Payment Dates sent to Open Invoice.

Added use_earliest_account_period config to modify accounting date on OI Invoice Sync based on open accounting months.

Added mapping for tax jurisdiction

Added code to prevent the application from creating an open invoice when a process errors out so that duplicate invoices aren't created when the process is run again.

Added functionality to interface Materials Inventory Item Catalog into Open Invoice

Updated logic to use post to company when company override is provided in the invoice details record

Added the ability to enter a new informational value called 'OI Price Book Identifier' on a Vendor Role so that when a PO is interfaced to OI with a given vendor, include the OI Price Book Identifier in the currently unused 'Contract' field on the x

Added the ability to receive OI invoices using AP/Vendor role on BA

Updated the AP Invoice integration from OI to pull the second quantity UOM from the Items Catalog Table

Made changes so that QTY1 and QTY 2 on the sales tax lines, which represent Quantity and Secondary_quantity in AP Invoices GLD, are defaulted to zero on the sales tax lines.

Landdox API Changes

Made Landdox performance improvements so that a DO can be checked out and updated while Landdox is still syncing previous change without locking the records

Changed Landdox contact matching logic so that matching is done as BA number to Landdox Ven Number and so that only BAs with a role type of Interest Owner are synched.

Payment Manager Changes

Added FTPS support for payment files

Created a new Payment Manager Company ID field in the Company Payment tab that will allow the payment manager file to reflect the different companies making payments

JIB

Intercompany and Affiliate Billing Functionality

Made updates to the JIB module to handle both intercompany billing and affiliate billing.

For intercompany billing, the application uses an intercompany account to facilitate the billing transactions on both the operator's general ledger and the other internal companies' general ledger. In this method, no receivable or payable is created to move cash, instead the movement of funds is tracked in the intercompany account and companies can then use the balance in that account to sweep funds between companies.

For affiliate billing, the application does not use an intercompany account to facilitate the billing transactions all internal companies, instead, a receivable is created on the operating company to represent a cash obligation from the other affiliate companies, similar to an external owner. On the Affiliate company, a payable will be created to represent a liability to the operating company.

Drilling Overhead Month Lag Config

Standard JIB Drilling Overhead logic derives the number of days in the month by looking one month behind the JIB Processing Date. The drilling_month_offset config to allow users to define the number of months that JIB drilling overhead logic should look back.

Owner Exceptions Uploader

Added new uploader for owner exceptions data

Cost Center Allocation Enhancement

Added the ability to allocate charges from a cost center to multiple allocation definitions depending on the type of charge

Field Changes

On the To Cost Centers tab of a Cost Allocation, the "To Company" field auto populates with the company specified on the specified Cost Center (occurs only when the CC is selected).

Validation Changes

Added a new error message that occurs when cost center IDs are invalid

Added two new configs that allow users to customize whether AFEs are checked in Cost Allocation

Land

Ownership Graph

Added a graph to show transfer history to the Interests, Payment Obligations, and Rates grids.

Jeffersonian and Non-Jeffersonian Legal Description

Updated the Jeffersonian and Non-Jeffersonian Legal Descriptions throughout the Land module to only have Quarter 1, Quarter 2, Quarter 3, Quarter 4, and Quarter 5 fields. The Quarter Calls field was removed.

Agreement Stages

Enhanced land agreement stage functionality so that land agreements iterate through the stages 1-3 in order. Added a new stage 4 (Re-approval Required). Added the ability to reset stages and exclude stages based on the setup in Agreement Setup Field Settings.

New Inquiry Categories

Added the following items to the Category List on the Inquiry Categories grid: Provision Type, Block, Section, and Original Lessor.

Land Approvals

Added a requirement that users leave a comment and a manual recommendation via the comment before the record can be advanced to the next stage.

Rental Recoupment

Added the ability to make rental payments from the lease agreement, tie the lease agreement and division order together, and set up the same owner and owner number in land and division order. The division order can then be tied to royalty payments, and users can track which lease they can recoup from and track royalty payments. JIB can credit back the working interest owners.

Materials Inventory

Min/Max Tracking

Added new Inventory Outside Min/Max that allows the user to see which items need to be reordered or which exceed maximum allowed quantity.

Default Inventory Status and Condition Code

Added a new option in the inventory statuses code table that allows users to select one of the codes as the default option. This default status is populating the to and from (if applicable) status on a material transfer edit line. The status on the material transfer edit line remains editable to allow users to choose a status other than the default.

Automatic Material Transfer Creation from Financials

Added new Generate GL Material Transfers process so that Material Transfers in and Material Transfers Out are automatically created when financial vouchers are posted.

Updates to Material Inventory Transactions

Enhanced the application to handle Journal transactions for property-level inventory. This enhancement includes:

- A new config, inventory_average_by_serial_number
- UI changes throughout the module
- Changes to the way Inventory Transactions are created in cases where a Cost Center involved in the Material Transfer has a Cost Center Type that has a value of FALSE in the new Yard/Warehouse field
- Updates to the Finalize Inventory Transactions process to populate Division Order on the Interface Inquiry rows and GL Distributions that it creates, using the Division Order from the Inventory Transactions row that was used to create that Interface Inquiry or GL Distributions row
- An evaluation of Fair Market Value and Average Net Book Value based on data from pre-existing Inventory Balances and from the Item

Transfers on the Executed Material Transfer

Item Description in Material Transfers Screen

Added Item Description to the Material Transfer Lines screen and the Material Transfer edit screen.

Item Catalog Data Uploader

Added new Uploader to upload data to the Item Catalog screen.

Group Fixed Assets by New Materials Inventory Fields

Added new columns to the Fixed Assets screens so that Item Code, Item Description, and Item Serial Number data flows through the Fixed Assets module.

Field Changes

Added two new fields, Secondary Order Unit and Secondary Quantity, to Inventory Balances so that users can track secondary units of measure. These new fields will not affect calculations within Materials Inventory.

Added From Location Description, From Sub-location Description, To Location Description, and To Sub-location Description fields to the Material Transfers grid, Material Transfers lines grid, and Inventory Transactions grid.

Updates to the Create Transfer Modal.

Added To and From AFE Number columns.

Validation Changes

Removed a validation that didn't allow material transfers to have the same To and From Account codes.

Auto Populate AFEs on Material Transfers

Added a relationship between Well Completion and Inventory Locations that AFEs are auto populated in the Item Transfers Grid

ONRR

New Screens in ONRR Module Mapping

Added Search and Mass Rate Update screens

OGOR vs ONRR Specific Reporting Entities

New field with "ONRR", "OGOR" and "Both" as options. During the ONRR Reporting Entity Calc process, any Reporting Entities that have "OGOR" selected are ignored. During the Format OGOR process, any Reporting Entities that have "ONRR" selected are ignored.

Include in ONRR Data Pull checkbox

Added new "Include in ONRR Data Pull" checkbox on the Asset edit screen. During the ONRR Data Pull, only Allocation Results from Assets where this checkbox is checked are pulled.

Delete ONRR Reporting Entity

When an ONRR Reporting Entity is deleted, all well contributions, gas plants, and lease allocations associated with it are also deleted.

Updates to Generate ONRR 2014 Results

Update Generate ONRR 2014 Difference Check to Ignore Royalty Volume and Royalty Energy

Payouts

JIB Unbilled Charges

JIB Unbilled Charges are included in Cost Balances on Payout Results

Production Accounting

This is a new application module that contains the functionality for capturing and analyzing production data.

Well Status Allocation

Added a new Well Status screen to capture Well Status at either a Well or Well Completion level that is effective for part or all of a production period. The Well Status on the Well Completion can either be derived from the associated Well or captured independently.

Added a new tab on the Well Completion screen to display all date effective statuses for a Well Completion.

Added an uploader for this screen that allows users to load date effective well statuses.

Tickets for Production Accounting

The system generates volumes from inventory and sales readings from tanks to use in production accounting. Multiple tickets on a single meter can generate different dispositions (usages) in leveled volumes. Free water will be recorded from any ticket that has a free water volume associated with it.

Run Tickets Importer

Updated the importer so that it allows the import of the additional measurement fields added to calculate Net Volume on meter tickets and Physical Inventory records.

Ratio Adjusted Allocation Strategy

Added Adjustment Numerator and Adjustment Denominator columns to the Allocation Methods grid. These adjustments allow a ratio to be created based on any of the available Well Test products which is then multiplied by the volume of the product/usage specified on the Allocation Method to create the basis that is used to allocate.

Backup Allocation Method

A new backup allocation method was added for situations where the initial allocation method generates a basis of 0.

FIFO Allocation Changes

Updated the allocation options enabled via the secondary_allocation config. This update limits the primary allocation to the basis volume and uses the backup allocation method to allocate the remainder of the product being allocated.

Updated the system with the ability to do a single allocation for any allocation group of tanks being allocated by adding new Group Type functionality to determine which groups will use the new allocation logic and create a single From Meter record in the allocation process.

PAV Measurement Source Priority

PAV measurement source priority will be used to determine which volumes flow through the allocation processes.

Well Downtime Allocation Adjustment

Allow allocations to be adjusted by the number of hours that are flowed during a day or the month.

Fuel Equipment Volume Allocation

Provided the ability to allocate fuel from a piece of equipment (meter) based on a defined fuel rate. The fuel is calculated as part of the allocation to determine total fuel used based on hours flowed.

Statement Volume on Tickets

Final statement volume is included on the Run Ticket after the ticket volume has been verified with the purchaser/hauler.

Tubing and Casing Pressure on Colorado Form 7

Updated the Colorado Form 7 report to include tubing pressure and casing pressure for injected volumes.

Added a new global screen, Well Parameters, to store production attributes of well completions. The Upload File button on this screen allows users to upload new well parameters.

Lease Use Calculation Logic

Added the Allocate Fuel Use Type field to allow users to choose to use the Max or Average Flowtime for lease use calculation.

Purchaser Reference

Added Purchaser Reference checkbox to the Allocation Setups screen. This check box will require the allocation basis volumes to have matching purchaser references to the volumes being allocated. If this checkbox is selected, and the purchaser reference does not match on a given well despite having the correct product/usage, then allocation will not occur.

Tank Strapping

- Added new columns to the Tank Strapping tab on the Physical > Meters page to capture the detail needed.
- Added the ability to populate two tables if a tank has multiple roof settings.
- Added new Tank Strapping chart tab that appears once the strapping items are entered.
- Provided the ability for the user to gauge the tank and allow that inventory to roll forward until a new gauging is populated.
- Added columns in the Physical Inventory grid (under Transportation setup) to capture daily tank gauging.
- Added columns in the Meter Run Tickets window to capture open and closed gauged reading. Provided the ability to user run tickets to amend the physical tank inventory.

Purchase Orders

Email Purchase Order to Vendor

Added functionality so that when the Send to Vendor button is clicked, the application sends an e-mail to the e-mail address on the Vendor role that has a PDF of the PO attached.

Regulatory Tax

The following regulatory tax functionality was added:

- Colorado Royalty Reporting
- Colorado Production Reporting
- Louisiana Production Reporting
- Texas Production Reporting
- Southern Ute Severance Taxes
- Wyoming State Taxes
- Arkansas State Taxes

The following enhancements were made to our existing regulatory functionality:

Format New Mexico Taxes Performance Improvements

Added an index and refactored code to improve the performance of the Format New Mexico Taxes process so that it is 2.5x faster than before the enhancement.

Additional Lease Type

Added State option to the list of regulatory lease types

Split Districts Enhancement

In order to handle cases where multiple Tax Rates and Exemption Rates exist on the same meter, a new table was added to manage Tax Rates, and the ability to generate Tax Results rows during Calculate Taxes by Pun Suffix in addition to by meter and contract.

OGOR Changes

- Added new fields on the Company Regulatory Reporting Tab for OGOR Authorized Contact Name, Phone Number, and Phone Extension
- Made changes to populate T1 trailer records with data from new OGOR fields
- Made changes to populate column F of each header row with the ONRR Payor Name from the Regulatory Reporting tab of the Company
- Added the ability to attach more than one Gas Plant to an OGOR Reporting Entity
- Updated Days Produced logic to be derived from the Flow Hours on Allocation Results

New DR 0021P Report

Added a new report for DR 0021P Monthly Estimated O&G Severance Tax

New DR 461 Report

Added a new report for DR 461 Report - Monthly Return of CO O&G Withheld

Revenue Accounting

ARAP Suppression

The 0 Value suppression logic in the AR/AP process is the same regardless of when run on a Main or non-Main timeline.

Fee Recovery

ARAP respects fee recovery logic and does not retrieve records marked as “Do Not Recover”.

CPFA Template File

Made changes to the CPFA Template file

Transportation

Daily and Monthly Allocation

Separated the transport allocation process into Daily and Monthly processes so that both frequencies can be used for a single asset.

Added new Run Through Date process option to allow users to determine what days on which processes will be run.

Added logic so that both Monthly and Daily processes can allocate volumes and run tickets.

Allocation Adjustments

Added new Allocation Adjustments screen where users can reallocate previous month receipts in the current month.

Batch Allocation

Added functionality to allocate transportation results by a specified Batch ID. Two new screens were added to capture the Linefill (inventory) by each Batch ID, as well as Over/Short associated with each Batch ID.

Exclude Tickets from PLA

Added the ability to exclude specified tickets from the PLA calculation.

Upstream Revenue Accounting

Apply DO

Improved performance of Apply DO process

Company Level Distribution PPAs

Added functionality to Process Prior Period Adjustments at an owner level, where volume/value calculations do not change

Revenue Intercompany/Affiliate

Enhanced the Revenue/Disbursements module to handle both intercompany or affiliate Revenue business cases and accounting patterns. The following changes were made as a result of this enhancement:

- Updated Apply Division Orders to handle updates made to how Internal Company/BA relationships are configured

- Updated the Owner Netting process to handle updates made to how Internal Company/BA relationships are configured
- Updated DO Journal Components to add new Owner Amount Statuses and an Interface Control option
- Added Parent Company Code to DO Journal Results grid
- Updated the DO Journal Interface Process to handle Intercompany/Affiliate Accounting, updated logic on how Parent Company Code field is set, and added a new interface control option.
- Updated the Financial Interface process to generate the necessary Financial Objects/Entries related to the new Owner Netting AP Invoice functionality and the new DO Journal Component Interface Control option.

New Revenue Remittance Reporting Table

Created a new revenue_remittance_detail_rpt table that is populated when the Release Revenue Payments (when the features.reporting.remittance_detail config is true). This table is populated with the same data in the revenue remittance file for record types 33, 34, 35, and 38. This reporting table reduces the time spent updating the Revenue Remittance Cognos Report when the file logic changes.

Multiple Owners per Meter

Added new functionality to allow an interest Owner to have multiple Marketers per Meter.

CI 1/8th Pass Through Functionality

Added c_disburse_on_interest_type config to allow users to distribute Pass Through checks to multiple different Interest Types where AR Royalty = TRUE.

Enhanced Owner Netting Logic

Added the owner_netting_net_all_interest_types config to allow all interest types to net out during the Owner Netting process.

DO Bank Interface

Improved performance when running DO Bank Interface from Company Process Control.

Added apply_flip_value_sign_to_quantity config so that when this config is true, the Quantity field in DO Journal Results follows the **Flip Sign** flag in DO Journal Components.

Validations added

If, after running DO Journal, there are missing owner amounts, a validation will occur that will prevent any further processes from being run. A link in the validation will direct the user to the list of Owner Amounts without corresponding journal entries.