Five tips for SAP clients in the Middle Eastern Oil and Gas industry

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value through innovation

Challenge 1:
Expensive, slow and risky full system refreshes

Traditional SAP refreshes in the Oil and Gas industry can take an extended period of time, consume massive storage, and expose sensitive data to non-production systems – a compliance red flag under new regional privacy mandates.

Tip: Refresh smarter with DSM

EPI-USE Labs' Data Sync Manager™ (DSM) software suite enables lean, time-sliced subsets of Production data to be refreshed in hours instead of weeks.

- Only copy the most relevant transactional periods
- Include all dependent Business Objects to maintain data integrity
- Reduce disk usage and storage costs by orders of magnitude

Example: Shell reduced its SAP refresh cycle from six weeks to just five days with Data Sync Manager.

Challenge 2:
Accuracy under Production Sharing Accounting (PSA)

In the Middle Eastern region, PSA models dominate the Oil and Gas industry. SAP systems must track complex allocation rules, cost recovery, and joint venture reporting. Inaccuracies here can delay projects and damage state-contractor trust.

Tip: Ensure allocation accuracy in test systems

DSM creates Production-like test clients where PSA allocation rules, month-end runs, and revenue-sharing logic can be tested reliably.

- Copy isolated wells, measuring points, and ownership records with all related data
- Validate allocation scenarios in non-production before releasing to Production
- Prevent month-end bottlenecks by provisioning data on demand

Challenge 3:
Upstream and downstream data complexity

- **Upstream:** Billions of records for wells, measuring points, and ownership changes make refreshes impractical.
- **Downstream:** Highly integrated processes (Material Masters, Pricing Conditions, delivery networks) break if copied in isolation.

Tip: Balance scope and integrity

DSM allows you to:
- Slice data by business object (e.g. a single Well Completion with its complete data set)
- Use Client Sync to create lean clients with all master data but limited recent transactions
- Maintain dependencies automatically, ensuring downstream testing behaves like Production

Challenge 4:
Data privacy and compliance in non-production

Regional regulators now demand data masking for sensitive financial, personal, and ESG-related data. Manual masking is slow, error-prone, and inconsistent.

Tip: Automate compliance with Data Secure

Data Secure™, part of the Data Sync Manager Suite, provides built-in scrambling rules aligned to local laws, plus the flexibility to define custom rules.

- Mask sensitive fields (e.g. partner names, allocations) while preserving realistic formats
- Apply consistent policies across all non-production systems
- Achieve audit readiness with repeatable, automated compliance

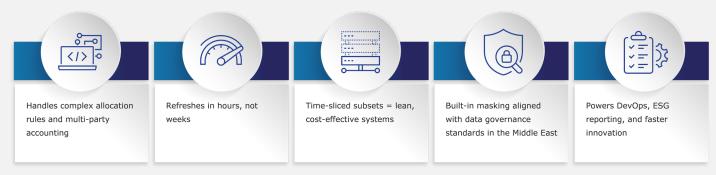## Challenge 5:
Slow testing cycles in a DevOps world

Reality: Oil and Gas operators in the Middle Eastern region are pursuing digital transformation, automation, and ESG reporting. But full refresh cycles stall DevOps, slowing innovation and transformation projects.

Tip: Enable DevOps with rapid data provisioning

DSM supports rapid, repeatable data provisioning:

- Create on-demand, selective data copies for agile development and testing
- Support shorter release cycles with automated refreshes
- Enable continuous innovation without the overhead of full system copies

The DSM advantage

Handles complex allocation rules and multi-party accounting	Refreshes in hours, not weeks	Time-sliced subsets = lean, cost-effective systems	Built-in masking aligned with data governance standards in the Middle East	Powers DevOps, ESG reporting, and faster innovation

With Data Sync Manager (DSM), we can help our Oil & Gas clients to create secure data for non-production environments.

Request a demo

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