

AFFINITY SUITE meterflow

Meter Data Management



The new benchmark

The background

We identified an opportunity to use the technology in our proven Affinity Suite components to load, validate, store and provide smart meter interval and event data to external systems. The challenge was to build a platform that could process the enormous data volumes at speed, without requiring correspondingly large investment in new hardware.

The place

IBM Power Systems Benchmark Center, Montpellier, France, 2011.

The test

Could Affinity Meterflow offer linear scalability of up to 100 million meters to load and process meter data at 30 minute intervals in less than 8 hours?

The result

The answer was a resounding yes. Daily end-to-end processing times remained constant for one hundred million meters over a 31 day period, irrespective of the amount of data stored. End to end processing for ten million meter points was completed in 36 minutes, on a single server.

This is unprecedented performance at ten times the speed of existing benchmarks.

Overview

The business demands posed by changes to energy industry structures and the potential introduction of smart grids requires powerful, scalable solutions.

Energy companies know that the mass roll-out of smart meters will introduce a flood of interval and event data. Affinity Meterflow® meets these huge demands for data processing performance and enables the smooth interaction with business processes involving other parties in de-regulated energy markets.

How does it work?

Meterflow is built upon proven Affinity Suite® components, that are tried and tested in some of the most complex and demanding energy dataflow handling scenarios in the world. Meterflow manages enormous volumes of sequential meter readings and interval data in a rapid and reliable manner, without requiring extensive investment in IT infrastructure.

Meterflow provides a single platform for traditional and smart meter related processes and has the flexibility to adapt to local markets and conditions.

Key features

Power

- Full processing run for ten million meters in 36 minutes
- Benchmarked up to one hundred million meter points

Flexibility

- Packaged support for local markets

Integration

- An integrated platform for traditional and smart metering
- Rich integration with SAP, Oracle and other enterprise platforms
- Remote meter management capability

Systems work better when they have Affinity.

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Affinity Suite[®]

is the enterprise data management suite from AMT-SYBEX. Each solution integrates and orchestrates enterprise data, so your business processes work better.



AMT-SYBEX

We create enterprise software for the global infrastructure and energy industries.

Leading businesses rely on our domain experience, product ingenuity and partnerships.

Making your data work harder.