

**Hadoop Meets Job Scheduling with Launch of Cisco Tidal Enterprise Scheduler 6.1**

October 31, 2012 - IDC Link

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Commercial adoption of Big Data, self-service, and orchestration technologies is accelerating an ongoing transformation across the \$2.2 billion worldwide job scheduling software market, as the technology moves from focusing on static time-based scheduling toward dynamic optimization of complex business processes and compute workflows. The major job scheduling vendors have been actively evolving their products to focus on event-driven process and workload optimization for some time, but the recent rise of Big Data represents a potential killer app to drive renewed interest in this market.

The recently released [Cisco Tidal Enterprise Scheduler 6.1](#) is well timed to address Big Data process optimization challenges with the introduction of several important new capabilities including:

- A Hadoop adapter with API integration into some of the most frequently executed Hadoop jobs, specifically Sqoop, Hive, HDFS Data Mover, and MapReduce
- Integration with Amazon EC2 and S3 with an eye toward enabling seamless support of public cloud and private in-house Hadoop processing flows
- An iPhone app targeted at mobile IT administrators that need to check errors and alerts and quickly start, stop, and resume jobs
- A self-service portal for business analysts and end business users that have multiple requests for ad hoc reports that would formerly have needed to be addressed by IT staff

Cisco Tidal Enterprise Scheduler's self-service portal uses the same technology (acquired from newScale) that is used by the Cisco Intelligent Automation for Cloud platform. IDC expects that although not specifically announced with the 6.1 release, Cisco will continue to integrate the Tidal Enterprise Scheduler with both

Cisco Intelligent Automation for Cloud and Cisco UCS Manager over time in order to enable IT teams and business analysts to automatically optimize business process flows and infrastructure provisioning using the same service catalog and self-service portal. This level of integration will be particularly important as Big Data users seek to optimize cost and performance by dynamically matching Big Data compute, storage, and network capacity with business process and real-time data analysis requirements.

IDC believes Hadoop support will quickly become a market driver for the next generation of job scheduling process optimization solutions. As Big Data implementations mature and expand, more and more businesses will struggle to optimize the handling of highly variable and complex data sets rapidly enough to impact critical real-time business decisions. Multiplied by dozens or even hundreds of simultaneous analyses, it quickly becomes impossible for human staff to manually keep up with the ever increasing flood of stop, start, reset, resume, and related data processing requests.

Simultaneously, IDC expects the use of these tools by business analysts will expand. Historically, job scheduling tools were used almost exclusively by highly skilled experts to define time- and calendar-based parameters and sequences to manage complex, multi-step compute tasks and workflows. In a Big Data world, business analysts and Big Data scientists will become important advocates and users of process optimization technology. They will rely on business-friendly self-service portals to help design and orchestrate real-time sequences of compute tasks and unstructured data management tasks including data acquisition, transfer, filtering, transformation, and reporting. Mobile apps are likely to be in demand as well.

Fast, accurate, and affordable Big Data analytics will be critical to keeping many businesses competitive and agile in the future. Already, many existing job scheduling customers are expanding the use of job scheduling into Big Data environments. Potential customers are taking a hard look at how to use this new generation of process optimization technology to best automate and control complex workloads across physical, virtual, cloud computing, and storage resources.

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