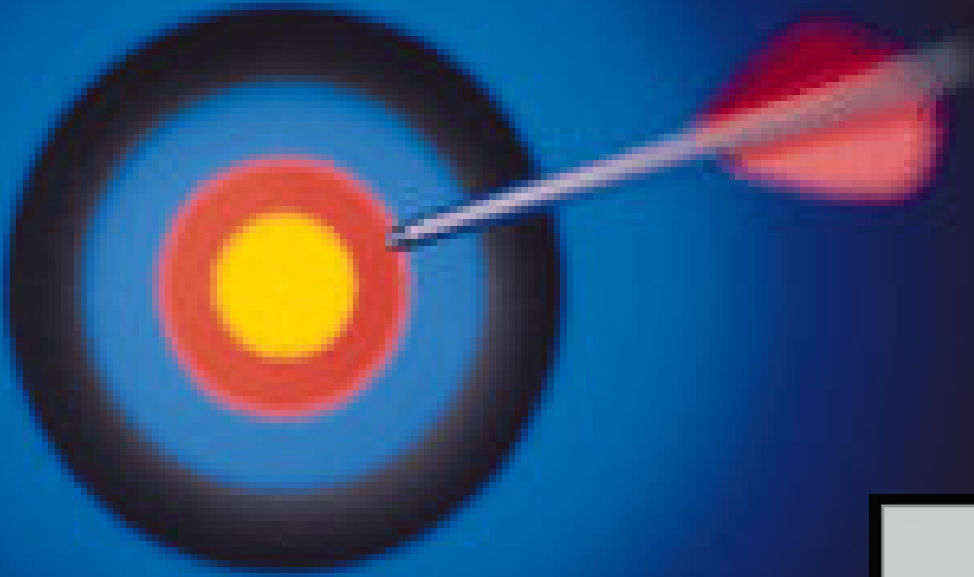


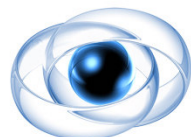
A Multi tool, Multi Platform DW / ETL Expertise



Data Warehousing Series

Ascential DataStage Parallel Extender

Performance Evaluation for Wells Fargo



CS SOLUTIONS, INC.
Shaping Ideas, Building Solutions

WWW.CSSOLUTIONSINC.COM



CS Solutions, Inc. (CSSI) is a preferred solution provider to **Wells Fargo** and a value added system Integration partner for **Ascential DataStage**.

Wells Fargo was evaluating DataStage Parallel Extender (DS) XE 6.0 Beta. As a leading System Integration Provider, Ascential and Wells Fargo chose CSSI to do the Beta testing of the product. The purpose of this evaluation was to verify whether the product in its integrated form would work in Wells Fargo's environment, to identify the process and performance improvement areas.

The Beta test includes Parallel Extenders (aka Viper) integration the integrated version of Torrent Software's Orchestrate Parallel Extract, Transform and Loading Tool (Torrent Software's Acquisition by Ascential Software) with Ascential Software's DataStage (ETL) tool product set. The test also includes Additional functionality to be included with subsequent releases of DS XE aka Rattlesnake and COBRA before final release of DataStage XE 6.0 the fully integrated version of DataStage and Orchestrate ETL product tool set.

Background and Target:

Wells Fargo uses Data stage XE, an Extraction, Transformation and Loading (ETL) tool from Ascential. Wells Fargo uses certain business rules to transform the data and produces an output file, which is used for loading to the database. The DataStage Server Job was taking several hours to build the output file. To reduce the time taken by DataStage to load the output file, Wells Fargo redesigned their ETL application using a C program. The C program reads the input file, performs processing using business rules to transform the data and produces an output file. This approach helped in reducing the job time drastically but involves additional job.

In the mean while, Wells Fargo wanted to test Ascential's new product, Parallel Extender, which enables parallel processing, and more scalable data integration. This is supposed to replace the C Program and its related processes while subsequently reducing the processing time on evaluation.



CSSI's Role:

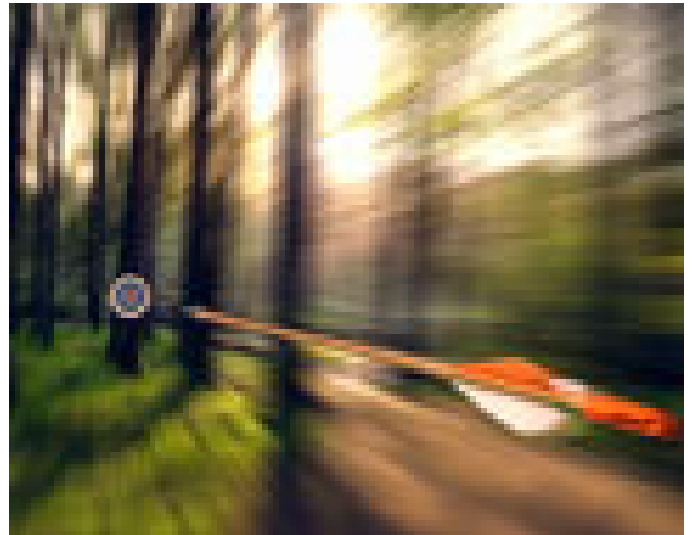
CSSI as a third party agency worked on this evaluation process. Its role is manifold.

- Understand Wells Fargo's processes and work with Ascential to evaluate the parallel capability
- Prepare a testing strategy and test plan
- Set up testing infrastructure to match Wells Fargo's environment and to meet the product requirement in its DW Center of Excellence at St.Paul, MN.
- Test the product in Wells Fargo's environmental conditions and processes
- Share the results with Wells Fargo and Ascential DataStage
- Share the ideas for improvement to Wells Fargo in its Process side and to Ascential to improve its products capability

A testimony to our multi technology ETL capability and to our capability to enhance the efficiency of an existing environment

CSSI prepared the test strategy and test plan approved by both Wells Fargo and Ascential. CSSI team of experts set up the test bed comprises of multi plat form environment with multiprocessor capabilities.

CSSI conducted more than 60 tests to understand the Parallel Extender's behavior based on Wells Fargo's process and Wells Fargo provided data. The process helped in accomplishing several performance-tuning tests to achieve good data quality for this ETL application. CSSI has emulated various strategies in reducing the processing time through these tests



Three in One Results

“ Because of your enthusiasm and dedication to detailed communications, we logged and fixed approximately 93 bugs and incorporated another 15 product enhancements. Other issues were raised, which were resolved by further clarification. Furthermore, 45 enhancement requests were logged for incorporation into future product releases.”...

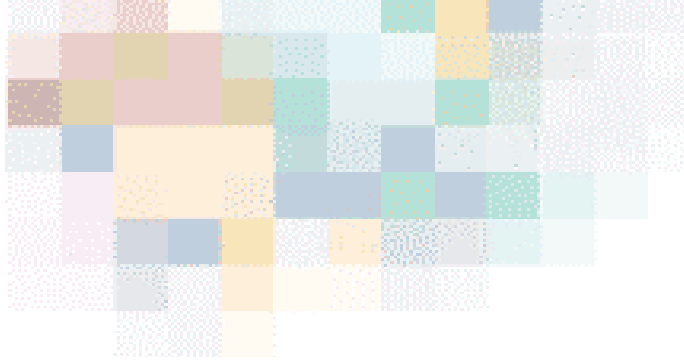
CSSI shared the results with Wells Fargo and Ascential. Wells Fargo will use the results of this test to estimate the value of Data Stage with Parallel Extender Capability to process large volume ETL applications. CSSI also provided its expertise in improving its processes for better performance.

Ascential has used the outcome to further improve the product offering.



“Because of your methodical and systematic testing efforts and your willingness to work closely and cooperatively with our Field Sales Engineers, Consultants, Corporate Support and Engineering, the DS XE 6.0 product has benefited with the incorporation of numerous fixes and enhancements.”

– Eve Hofert, Program Manager, DS XE
Ascential Software



CS Solutions, Inc. (CSSI) is an end-to-end IT services organization. It services clients in areas such as Application development, Maintenance, Product development and end-to-end ETL / Data Warehousing and product Life Cycle services

CSSI offers suite of engagement models for the benefits of its clients. Its classical Global Delivery Models gets quick ROI and Low Total cost of ownership for the clients.

- Onsite
- Onsite – Offshore Global Delivery Model
- Offshore
- Professional Services

CSSI has carried out large projects and provided solutions for various Fortune 1000 customers across several verticals such as Financial Services, Telecom, Retail, Manufacturing and Healthcare.

CSSI has 9+ years of experience in:

- Data Management and DW/BI solutions:
 - Enterprise Data Warehouse Architecture
 - DW and BI Solutions
 - Expertise in
 - Ab Initio, ETL * Extract, Informatica, DataStage, MS SQL OLAP
 - MicroStrategy / Business Objects / Cognos / Crystal Reports
 - Internet Application Development Technologies
 - .Net Framework, J2EE, Web Services, XML etc
 - Websphere, Web Logic, Oracle Application Server, I Planet etc
- Middleware development using
 - C, C++, VC++
- Legacy application maintenance and conversion
- Windows, Unix, MVS, IMS etc
- Databases
 - Oracle, Teradata, DB2 UDB, Sybase, MS SQL Server

CSSI has a Project Management and Global Delivery methodology that has been built and meticulously matured over six years of experience with leading-edge technologies in the areas of Data Acquisition, Data Modeling, Data Management, and Meta-data Management, Application development, Enterprise application maintenance and support to deliver innovative, sure-fire solutions to its customers assuring on time delivery, lower total cost of ownership (TCO), higher returns on investment (ROI) and faster time to market.

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