Enterprise Solutions Inc.

LEADERSHIP THROUGH QUALITY, INNOVATION, & UNSURPASSED CUSTOMER SERVICE

"Specializing in MAXIMIZING your ROI and LOWERING the TCO of your IT investments"

Sample Report

WebSphere Audit

Findings

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1 INTRODUCTION

Enterprise Solutions Inc. (“ESI”) had a CNC consultant, remotely connect and review XYZ Corp WebSphere configuration for purposes of identifying any setup issues that may be contributing to the performance problems XYZ Corp’ overseas end-user community are experiencing within the Oracle EnterpriseOne application.

The purpose of this document is to deliver our findings uncovered during this initial audit. It is not intended to deliver complete rollout strategies, technological design, or project planning issues except at a high level. The information contained herein is intended to present our findings and recommendations for improvement based on our findings.

2 INITIAL SCOPE & REQUIREMENTS

XYZ Corp contracted Enterprise Solutions, Inc. to perform an independent assessment to:

1. Remotely audit their Oracle EnterpriseOne WebSphere installation in order to identify issues that may be contributing to the performance issues they are experiencing.
2. Deliver a report of our findings along with recommendations for improvement.
3. During this stage of the assessment we were not to fix any of the problems we uncovered.

3 ASSESSMENT PROCESS – REVIEW

The assessment process is fairly straight forward. We started by connecting to XYZ Corp network through a VPN connection and then reviewed XYZ Corp WebSphere installation as it relates to their EnterpriseOne application and performance.

The components of the WebSphere installation as it relates to their EnterpriseOne application and performance include;

1. Oracle WebSphere application components
2. Oracle CNC components related to "J" environments

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3. Oracle iSeries components related to web client optimization

Upon completion of this review we documented findings and recommendations contained here in.

Deliverable Review

Our deliverables, usually within 3 business days, was to include the following:

A detailed report that includes;

1. A complete breakdown of our findings from the above analysis.
2. Any errors and omissions within the current J.D. Edwards technical setup that need to be addressed to improve data integrity
3. Recommendations on how to reconfigure your current J.D. Edwards installation to resolve existing business issues.
4. Proposed changes within the setup of the JDE system and related architecture that would maximize the relationships of current business processes, infrastructure, and strategic direction as they relate to the scope of this audit.

*** This Audit does not include application setup issues or report configuration issues which may also account for some of the performance issues**.

4 REVIEW J.D. EDWARDS WEBSPHERE APPLICATION COMPONENTS

4.1 XXXX SERVERS

WebSphere is configured with X J.D. Edwards application server(s). This allows for support X path codes.

4.2 XXXX SIZE

The initial XXXX size, X MB, is equivalent to X. This is the XXXX configuration from Oracle for J.D. Edwards' application servers.

4.3 XXXX

The WebSphere XXXX I is configured with a minimum of X maximum of X. XXXX performance enhancements can be achieved by XXXX to eliminate XXXX creation/de-allocation activity after startup. A XXXX of min/max of XXXXX support XX – XXX users.

4.4 XXXX

The Oracle Red Paper entitled 'Performance Tuning EnterpriseOne and WebSphere 5.0.2' discusses the XXXX algorithms used by the XXXX, and the effect of XXXX collection on system performance. The following command line parameters have been found to achieve more consistent system performance.

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XXXX – This option disables XXXX for the specified XXXX. It prevents reloading of the XXXX have been lost.

XXXXX – If XXXX times are too long, test this argument which reduces XXXX times resulting from XXXX collection and makes them more consistent as the XXXX rises.

XXXX – If, at XX% occupancy, the frequency of XXXX great, change the setting of –XXXX. The default is X. This means the XXXX Server will try to maintain X% XXXX .

XXXX of these command line parameters are currently specified for XXXX.

5 REVIEW J.D. EDWARDS CNC COMPONENTS RELATED TO "J" ENVIRONMENTS

5.1 XXXX.INI FILE

5.1.1 [XXXX PXXXX]

The XXXX parameters of minimum X, maximum X, growth X, XXXX are XXXX settings for XYZ Corp's anticipated user load.

The XXXX parameter has been increased from X to X . While this will ease load by minimizing XXXX, the higher value XXXX. This setting has a XXXX impact on overall system performance, and should be driven by internal timeout policies.

The XXXX parameter has appropriately been increased from X minutes to X minutes. Decreasing the frequency of XXXX can have a positive impact on performance. Consider increasing this setting to XXXX minute interval.

5.1.2 [XXXX PROPERTIES]

The XXXX parameter is currently configured for X minutes. This forces the XXXX connection to be XXXX for that duration, and can create unnecessary system overhead. This option should XXXX

The XXXX parameter is commented out, resulting in the default setting of 'XXXX'. In a production environment, this XXXX unnecessary. XXXX performance enhancement can be achieved by un-commenting this entry, and configuring a setting of 'XXXX'.

5.2 XXXX.INI FILE

5.2.1 [XXXX]

The XXXX parameter confirms that XXXX server is being XXXX. This should be changed to provide XXXX. The reason for this has to do with the nature of WebSphere's XXXX behavior. XXXX code into XXXX. Subsequent XXXX, potentially resulting in XXXX executing against XXXX.

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5.2.2 [XXXX]

The parameter is configured with the default value of XXXX. While this is XXXX for the current system user load, it should be XXXX in the future.

5.2.3 [XXXX]

The XXXX parameter is configured with the default value of XXXX. While changing this parameter to XXXX will result in additional system XXXX, namely XXXX, the XXXX impact typically results in an improved XXXX experience. Greater usability is achieved by being able to XXXX

5.3 J XXXX. XXXX

The parameters configured in this file are optimal for a typical production system. Minimal performance enhancement can be achieved by commenting out the XXXX entries.

5.4 I XXXX

The XXXX parameter is configured with the default value of X. This results in a WebSphere check for updated objects XXXX. In a production environment XXXX, and a WebSphere XXXX generally recommended XXXX. Change this parameter to X.

The XXXX is configured with the default value of XXXX. Change this parameter to XXXX, for the same reasons as described in the XXXX parameter explanation above.

The XXXX parameter is configured with the default value of XXXX. This results in all XXXX activity XXXX. The XXXX is much better suited for this activity, and has separate system resources available to handle this load. Except in cases where the XXXX server is XXXX, this parameter should be changed to XXXX.

5.5 O XXXX

The XXXX and XXXX environments appropriately have a XXXX for XXXX execution on XXXX.

The P XXXX and P XXXX environments have XXXX to execute on XXXX. While this is a by product of the default configuration that was delivered with EnterpriseOne 8.9, it adds system XXXX thick client workstations to XXXX enterprise server, and has been removed XXXX delivered with EnterpriseOne 8.X Delete or inactivate XXXX

5.6 R XXXX

XXXX, is a new integration component delivered with EnterpriseOne. By default a number of active XXXX, were delivered with EnterpriseOne 8.9. This results in system slowness during XXXX. Unless using XXXX, these XXXX should be XXXX using the XXXX application.

5.7 ISERIES XXXX

5.7.1 [XXXX]

The XXXX parameter is configured with the default value of X. This prevents the XXXX on port XXXX from XXXX process with which to offload XXXX communications. Increase this parameter to X to allow XXXX.

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The XXXX parameter is currently configured with a value of XX. Any changes to the XXXX in any of XXXX sections, as discussed in the remainder of this document, require XXXX

5.7.2 [XXXX] (XXXX)

The XXXX parameter is currently configured with the value of X. This parameter should be increased to a value equal that of the XXXX expected XXXX server.

The XXXX parameter is currently configured with the default value of XXXX. As a general rule of thumb, this parameter should be configured to be XX% of the XXXX for XXXX kernel XXXX (with a minimum of X), to avoid the XXXX user from experiencing a system delay while XXXX.

5.7.3 [XXXX] (XXXX)

The XXXX Processes parameter is currently configured with the value of X. This parameter should be set to a minimum value of X per X concurrent XXXX users.

The XXXX Processes parameter is currently configured with the default value of X. As a general rule of thumb, this parameter should be configured to be XX% of the XXXX for this XXXX definition (with a minimum of X), to avoid the initial XXXX delay while the XXXX is initialized.

5.7.4 [XXXX] (XXXX)

The XXXX Processes parameter is currently configured with the value of x. This parameter should be set to a minimum value of x per XXXX.

The XXXX Processes parameter is currently configured with the default value of x. As a general rule of thumb, this parameter should be configured to be xx% of the XXXX for this XXXX (with a minimum of 1), XXXX system delay while the first XXXX.

6 REVIEW J.D. EDWARDS ISERIES COMPONENTS RELATED TO WEB CLIENT OPTIMIZATION

6.1 XXXX CONNECTIONS

The XXXX facilitate all EnterpriseOne client XXXX and XXXX connections to the XXXX. The XXXX command should be used to monitor the XXXX statistics during XXXX loads. Adjustments can be made XXXX entries of the XXXX description. The current configuration of XXX initial, XX additional when XXXX, an allowed XXXX of XXXX and a maximum XXXX is more than adequate for the observed activity during XXXX.

6.2 XXXX CONFIGURATION

All XXXX are configured with a setting of XXXX with the exception XXXX. While this line description is configured with XXXX, it will not be detrimental to system performance as it does not appear to be used for any EnterpriseOne XXXX.

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6.3 XXXX CONFIGURATION

All EnterpriseOne components are currently configured to utilize XXXX resources from the XXXX. While this may lead to periods of XXXX system utilization in the event of XXXX from XXXX jobs, there appears to be sufficient XXXX to handle the XXXX system XXXX. Consideration should be given to defining XXXX for EnterpriseOne XXXX, EnterpriseOne XXXX (XXXX), and EnterpriseOne XXXX (XXXX) XXXX. Not only will this diminish XXXX contention, but it will provide system administrators with the ability to XXXX system demands XXXX.

7 CONCLUSION

XYZ Corp contracted Enterprise Solutions, Inc. to perform an independent assessment to:

> Audit their Oracle EnterpriseOne WebSphere installation in order to identify issues that may be related to the performance issues they are experiencing.

During this audit we uncovered many issues that should be addressed and they are outlined in detail under Sections 4, 5 and 6 of this document. Despite these issues, it is our opinion the overall configuration of XYZ Corp Oracle EnterpriseOne WebSphere installation is XXXX. XXXX number of areas that will benefit from these configuration changes recommended above, XXXX catastrophic if left undone.

The cumulative benefit of these changes will result in improved system response time, especially as additional concurrent users are added to the system. Since XXXX are critical, they XXXX scheduled XXXX.

As with all system configuration changes, these recommendations should only be implemented after XXXX, this allows XXXX success.

Furthermore, it is recommended that all configuration changes be tested against XXXX prior to XXXX. This will be more feasible after the configuration of an XXXX

There may be other issues that we uncover in the future as this is a preliminary report. It is also important to note that this is not a one time fix, but more so, the first steps required to lay a solid foundation for future performance and maintenance of EnterpriseOne. Performance tuning is typically an ongoing effort and should be scheduled for review on a regular basis.

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