

Confidential

Artinsoft Consulting Services

Vertex Supervisor

Ready Status Report

Day 1 – January 15, 2008

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Status Report

Achievements

- Got an overview of both the Omega and Supervisor applications. The Supervisor is a standalone desktop application used for the configuration and monitoring of the Omega application.
- The interaction between Supervisor and Omega is done in two ways:
 - Direct data manipulation on the database
 - Post XML code to Omega's ASP pages, to interact with Omega's components.
- ArtinSoft will create a list the Omega ASP pages used by Supervisor.
- The long-term goal is to create a new application based on a Service Oriented Architecture. The migration is an interim solution to quickly move away from VB6 and into .NET.
- The ideal timeframe for the Supervisor migration project would be same timeframe as for the Omega migration project, or shortly after it.
- For the project, the migrated version of the Supervisor could work at first with the current version (VB6) of Omega. The final version needs to work with the migrated version of Omega.
- The development and maintenance of the application is done at Vertex office in Cheltenham, U.K.
- The migrated application will need to support Windows 2000, Windows XP and potentially Windows Vista. Windows Vista support is not a definitive requisite yet.
- There is a circular reference between the Security and SecurityMgtInterface VB6 projects. They need to be combined in a single project as part of the migration project.
- ADO needs to be converted to ADO.NET. For this, there are two alternatives:
 - Convert it directly to the SQLClient ADO.NET Provider
 - Use the ADO.NET Common architecture that is currently being developed at ArtinSoft. Because of the architecture of this solution, using a RecordHelper class that extends the regular .NET DataSet, Vertex is concerned that it may become a training issue. ArtinSoft will provide a code example to Vertex on how this migration proposal works.
- For the migration project, the Supervisor code will be frozen. Any modification to the application that needs to take place during the migration will be done by Vertex on the VB6 application and then re-applied on the .NET version once they get it back.
- Vertex is considering creating automated test cases using Compuware Test Partner. There is concern that the test cases may not work on the migrated C# code. To address this potential problem, Vertex created a small VB6

application and the corresponding Test Partner test scripts. This application will be migrated by ArtinSoft to verify if the test scripts work on it after the migration.

- Manual test cases are recommended as an alternative should the Test Partner scripts fail on the sample application.
- The source code for Supervisor would be sent to ArtinSoft on a Visual Source Safe database archive via FTP. The project would take place at ArtinSoft's offices in San Jose, Costa Rica.
- The requirements for performing the migration are:
 - A SQL Server 2005 database
 - An application server running the Omega Application
 - Desktops with Windows XP (2000 and Vista for testing)
 - .Net 2.0 development tools
- The target language would be C# and the .NET Framework 2.0
- Supervisor uses the same users as the Omega application. It stores the users and different access privileges in the database, and validates against the database.
- Ran the assessment tool on the application. In order to get the tool to run, two files were removed from the projects:
 - Super\Classes\RegistryAssist.cls from Supervisor.vbp
 - MSGOCX\Classes\RegistryAssist.cls from MSGOCX.vbp
- The preliminary statistics on the application are:

<i>Project</i>	<i>Total Lines</i>	<i>Design Lines</i>	<i>Code Lines</i>	<i>Comment Lines</i>	<i>Blank Lines</i>
MSGOCX	9,671	542	6,391	1,244	1,494
OSGInterfaces	386	16	134	160	76
Security	778	24	291	290	173
SecurityMgt	69	8	24	24	13
Supervisor	220,173	41,993	115,028	27,627	35,525
Total	231,077	42,583	121,868	29,345	37,281

- The total amount of effective lines of code is made up of the Design and Code Lines. For the Supervisor project, this is **164,451** Lines of Code.
- The results on the table do not consider the RegistryAssist.cls files removed.

Open Issues

- Send a list of the ASP pages used by Supervisor to Vertex. This can be found out by looking for the RunASP method calls.
- Migrate a small VB6 application to validate the testing approach.
- Send Vertex sample code of the migration from ADO to ADO.NET Common

architecture.