DATA SHEET

MICRO FOCUS SERVER™ FOR SOA

Business Challenge

COBOL applications run at the heart of corporate IT organizations. These systems are typically running critical applications such as order processing, payroll, billing, CRM and much more. Such systems require high availability, high performance and robustness. The Micro Focus COBOL Server platform has proven itself the best choice for such applications hundreds of times over more than 30 years.

With today's heterogeneous IT systems, few business systems can now exist in isolation and a Service Oriented Architecture(SOA) offers a powerful and managed environment for distributing and co-ordinating processing across multiple systems. Micro Focus Server for SOA provides a native COBOL environment for building and deploying Web Services.

Product Overview

Micro Focus Server for SOA supports the large-scale integration of COBOL services across the enterprise. By supporting Web services, Micro Focus Server provides an open approach to the deployment of COBOL business processes within a SOA environment. Since direct COBOL Web services deployed with Micro Focus Server are standards-based, they can be consumed from any language on any platform that acts as a Web service client including Java, Microsoft .NET languages and COBOL. No third-party application servers or Web servers are required for the deployment of direct COBOL Web services, minimizing costs while increasing the agility of existing COBOL business logic.

Server for SOA includes the capabilities of Server for .NET allowing the deployment of managed and verifiable COBOL applications on the .NET platform and easy integration with other .NET languages.

Other products in the Micro Focus Server group include:

- **Micro Focus Server for COBOL** enables COBOL applications to be deployed on multiple platforms.
- **Micro Focus Server for .NET** enables COBOL applications to be deployed under the Microsoft .NET Framework.
- **Micro Focus Server Enterprise Edition** adds the ability to deploy applications migratedfrom the IBM Mainframe including CICS, IMS and JCL code.

Key Benefits

- COBOL-centric web service hosting application server uses proven company assets in new, more productive and flexible ways
- Ability to deploy COBOL as Web Services with no third-party technology reduces complexity and costs
- Integrate COBOL with .NET and J2EE to take advantage of the latest and greatest tools and technologies

Detailed Feature Overview

IMPROVED RELIABILITY, AVAILABILITY AND SERVICEABILITY

Micro Focus deployment software has evolved over more than thirty years. Because of this innovation evolution, customer can rest assured knowing that an application performs its intended function reliably, day in and day out. On occasion, however, systems can fail for many reasons, which is why Micro Focus Server also provides advanced production recovery capabilities to ensure service is restored in the shortest possible time.

The transaction support within Micro Focus Server for SOA provides an environment for enabling the effective recovery of aborted or failed services. It provides a separate program execution space for each COBOL program or service being run thus reducing the risk of a program exception affecting the rest of the system. Service recovery is further hastened by the provision of full journal facilities and options for the backup, restoration and importing of server data.

OPTIMIZED APPLICATION PERFORMANCE

The demand for increased application processing is constant. This is partially satisfied by the continued increase in processor power, but customers demand greater reliability and faster recovery when things do go wrong. Micro Focus Server is designed with performance and scalability in mind. When coupled with the ability to run native machine code instructions generated from a single source base, it provides the ability to utilize the full performance capabilities of the 32-bit or 64-bit deployment platform.

CROSS PLATFORM APPLICATION SUPPORT

Micro Focus Server delivers intermediate code support for applications that are operating system independent. Micro Focus Run-Time

System (RTS) engine provides the programmer with full intermediate code portability from a single set of COBOL source code. This is the COBOL equivalent of the Java byte code with RTS performing, similar functions of the Java Virtual Machine or the .NET Common Language Run-time (CLR). In this way, we achieve the 'write once, run anywhere' characteristic that has been an intrinsic part of Micro Focus COBOL since its inception over 30 years ago.

DELIVERING COBOL WEB SERVICES ACROSS THE ENTERPRISE

Micro Focus Server is the deployment engine for direct COBOL Web services created with Net Express or Server Express. By acting as a SOAP Server, Micro Focus Server enables the deployment of COBOL Web services without requiring any third-party software. This minimizes the technology stack and ensures a scalable transactional environment for the reliable execution of COBOL Web services. Such COBOL Web services can then be consumed not only by COBOL clients, but by other appropriate standards-based Web service client software, regardless of language and platform.

COMPREHENSIVE ADMINISTRATION TOOLING

The browser-based administration facility provides a comprehensive set of options to control and manage the operation of the Micro Focus Server and the services deployed within it. Using the administration facility, production recovery can be eased with the ability for server configuration to be saved, restored, imported, or deleted. Individual services can be deployed, started, stopped, edited, and deleted providing full user control of service deployment. Problem tracking and diagnosis is aided by the journal and statistics maintained by Micro Focus Server during program execution.

MONITORING AND CONTROL

Micro Focus Server includes the ESMAC (Enterprise Server™ Monitoring and Control) Console to monitor and control the product including service execution processes, services, packages, etc. In support of capacity planning, ESMAC provides real-time monitoring and transactional performance measurements (for example, tasks per minute, average length of task, etc.) for use in predicting required.

The Eclipse developer can not only debug applications on their local machine but also those on remote servers running Micro Focus Server. Remote debugging supports Windows 32 bit Eclipse debuggers connecting to 64 bit applications or from Windows to UNIX and Linux applications. This allows the application to be debugged running in an environment as close to production as possible – particularly important if the application needs to connect to systems or resources only available on the remote system.

MULTIPLE DEBUGGING OPTIONS

FaultFinder
When applications fail in production, regular debugging techniques to locate the problem often do not work. The source code might not be available or the problem cannot be easily reproduced. FaultFinder is designed to provide the help needed in these critical situations. It provides a snapshot of the application, just at the point where the application failed, and provides fully configurable and comprehensive fault diagnostic information.

Consolidated Tracing Facility (CTF)
CTF is a tracing infrastructure that quickly and easily produces diagnostic information detailing the operation of Micro Focus software components on the applications. A number of key components are enabled to provide information using the Consolidated Tracing Facility which outputs trace events (in binary or test formats) to one or more output destinations. The binary trace files created on both platforms by the binfile emitter are viewed using the CTF Viewer installed inNet Express or the Micro Focus Eclipse option.

WEB SERVICE CLIENT SUPPORT

Micro Focus Server now includes Web service COBOL client support for the consumption of Web services from COBOL. Using this support, a standards-based Web service (for example, a Web service created by .NET or IBM Websphere, or a Micro Focus direct COBOL Web service deployed with Micro Focus Server) can be invoked directly from COBOL without going through any other language or technology.

OTHER KEY FEATURES

Comprehensive Data Access Options

- **OpenESQL** to access ODBC data sources from COBOL
- **COBOL with XML** allows creation, consumption and update of XML documents using familiar COBOL syntax
- **Data Management** with Rebuild enables quick repair of corrupt index files and easily changing of file formats.
- **32-bit or 64-bit** deployment options for Windows, Linux and Windows

Technical Specifications

Windows® XP, Windows Vista, Windows Server 2008, Windows Server™ 2003, or Windows 2000

UNIX/Linux Components - Operating System requirements vary depending on the specific platform. See http://supportline.microfocus.com/productreleaselevels/unix.asp for details.

For additional information please visit: www.microfocus.com