

BS2000/OSD MAINFRAME MIGRATIONS

FACT SHEET

AT A GLANCE

Astadia's automated BS2000/OSD migration is the solution organizations need to optimally reuse existing applications when migrating to Linux, UNIX, or Windows. The BS2000/OSD mainframe has many unique features not found on other systems, and Astadia's solution leverages the strengths of this architecture to produce functionally equivalent target applications that can be easily maintained by the original developers. Furthermore, the migrated application is constructed from leading enterprise technology from Oracle, Microsoft, and Open Source so it can be cost-effectively integrated into the most modern data centers.

SERVICE HIGHLIGHTS

Astadia's BS2000/OSD mainframe migration is a versatile solution providing existing BS2000/OSD customers the option to completely migrate their applications to UNIX, Linux, or Windows platforms. This is also an all-in-one solution that can take care of all BS2000/OSD technologies: starting from the core data stores, over the 3GL and 4GL programming environments, including their transaction processing and screen handling systems, all the way to the JCL and utilities steering batch operations.

Native Technologies / No Emulation

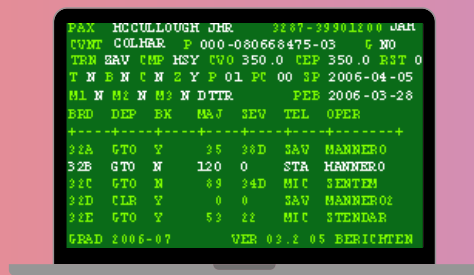
Astadia's core mission is to help organizations liberate their valuable and reliable business applications from their dependency upon non-strategic, legacy technologies. We ensure that migrated applications actually use technologies that are widely recognized and accepted as native on the chosen target platform instead of choosing to emulate the source platform technologies on another platform.

Whenever the functional equivalence promise forces the introduction of components into the migrated application that could be perceived as non-native on the target platform, we offer a clear modernization path whereby our customers can eliminate these components for good.

Target Technologies

Astadia is always looking to implement new alternatives, both on request by our customers or because we feel they make sense from an understanding of the general software industry. Here is an overview of the most prominent technology mappings in Astadia's BS2000/OSD mainframe migrations:

Source	Target
VSAM/ISAM UDS Leasy ADABAS	Oracle DB2 SQL Server
openUTM	openUTM Application / web server
FHS/IFG	9750 Java Swing .Net WPF
COBOL Natural	Any COBOL dialect Java (under development) C#
Assembler	COBOL or C
Fortran	Fortran
C/C++	C/C++
JCL (SDF/ISP)	Perl PowerShell
OSD	Linux Windows UNIX



Batch Processing

Batch tasks and jobs are replaced by processes on the target platform. While the BS2000/OSD provides extra support for tasks through “task IDs” and “task switches”, the notion of a “task” does not exist on Linux, Unix, and Windows.

Astadia migration provides the full scope of OSD support for tasks and other runtime features through its batch compatibility framework.

JCLs and the ISP and SDF commands they contain are converted to an appropriate scripting language on the target platform, such as Perl. One-to-one conversions to native scripting can help ease the transition of BS2000/OSD developers and operators to the new platform while offering an open environment from which to modernize these jobs or shorten the daily batch execution window.

Astadia also provides its own BS2000/OSD “Console” for open systems, offering more control and better monitoring of converted batch programs.

For jobs started via an operator command, an interactive shell launch or a console message can be used. For replacing batch schedulers like AVAS™ or UC4™, BS2000 customers have a range of leading commercial products on open systems from which to choose.

Online Transaction Processing

Astadia BS2000/OSD migration supports integration with Fujitsu’s OpenUTM™ product on open systems or, alternatively, the lightweight TP server functionality developed by Astadia.

Users have the choice to keep their 9750 and 9763 terminal emulators after the migration or replace them with rich clients based on .Net or Java technology. UPIC and BeanConnect clients can also be retained or migrated to web services.

AUTOMATED TESTING

No migration project can succeed without the confidence that the migrated system is ready for production and this confidence can only be built by testing the migrated system extensively and repeatedly.

TestMatch is the product that Astadia has built to reduce the time and effort needed to complete this crucial testing phase:

- TestMatch avoids the requirement to manually create test scenarios for the complete application;
- TestMatch limits the application end-user involvement in the project to acceptance testing.

➔ [Get the TestMatch Fact Sheet to learn more.](#)

Astadia is the market-leading mainframe modernization consulting and systems integration boutique. A worldwide IT consulting firm, we specialize in moving IBM and Unisys mainframe applications and databases to distributed and cloud platforms.

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