

Legacy Mainframe Transition Tools Matrix

HP has assembled this listing to help identify software and services useful in transitions from IBM mainframes to HP platforms. Description of column contents:

- Partner: Partner names in alphabetical order
- Data Migration: Offerings that move data from the IBM databases and flat files to other platforms
- Integration/Offload: Offerings that help with integration or offloading from the IBM platform
- JCL/JOBS: Offerings that can run JCL or convert JCL. Offerings that provide a replacement for batch
- Languages: Different compiler offerings. Offerings that can migrate a language. 4GL Offerings.
- Utilities: Offerings that replace or migrate IBM utilities
- Development Environment: Offerings that provide development environments across multiple platforms
- Target Platforms: HP-UX, Linux or Windows
- Services: Services that are offered in conjunction with the other offerings

Partner	Data Migration	Integration/Offload	JCL	Languages	Utilities	Development Environments	Target Platform	Services	Contact Information
Acucorp®, Inc.	The extend@6 suite of development and modernization tools and technologies for COBOL business applications, including: <ul style="list-style-type: none"> • ACUCOBOL-GT® Vision File System • Acu4GL® for DB2 • Acu4GL for Informix • Acu4GL for Sybase • Acu4GL for Oracle • Acu4GL for MS SQL • Acu4GL for ODBC • AcuSQL® for MS SQL • AcuSQL for DB2 	ACUCOBOL-GT applications can communicate with backend mainframe CICS applications, TP systems and databases.		The extend 6 suite of development and modernization tools and technologies for COBOL business applications, including: <ul style="list-style-type: none"> • ACUCOBOL-GT. 		The extend 6 suite of development and modernization tools and technologies for COBOL business applications, including: <ul style="list-style-type: none"> • ACUCOBOL-GT Development System • AcuBench® • COBOL Virtual Machine™ 	<ul style="list-style-type: none"> • HP-UX 10.20, 11.0 RISC (32- and 64-bit), 11.22i 1.6 (32- and 64-bit), 11i RISC (32-and 64-bit) • SuSE ES 7 and 8 • Red Hat EL v. 3 • MS Windows 2000, 2000 Server, 2003, NT, TS/Citrix, and XP • HP Tru64 UNIX 3.2, 4.0 and 5.1 • OpenVMS 7.3 	Professional Services including: <ul style="list-style-type: none"> • Conversion of character-based applications to GUI applications • Legacy COBOL to web connectivity • Legacy COBOL to client-server migrations • Joint application development • Legacy COBOL migration to open systems • COBOL application connectivity to RDBMS • Application maintenance, enhancement and management • Legacy extension <p>Acucorp works with a variety of service providers to implement enterprise software solutions that focus on Legacy extension and modernization, application interoperability/integration and development and system migration.</p>	Joe Seiley, Director, Strategic Partnerships jseiley@acucorp.com (858) 689-4427

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Attunity, Inc.	<ul style="list-style-type: none"> Attunity Connect Attunity Federate Attunity Stream 	<ul style="list-style-type: none"> Attunity Connect Attunity Federate Attunity Stream 				<ul style="list-style-type: none"> Attunity Studio 	<ul style="list-style-type: none"> HP Nonstop HP OpenVMS HP-UX Windows Linux <p><i>Bi directional data movement support on all platforms</i></p>	Attunity provides data integration and migration services for both customers and partners (sub contracting)	Mark Walls mark.walls@attunity.com (781) 213-5237
Ascential Software	Ascential Enterprise Data Integration Suite	Ascential Enterprise Data Integration Suite				Ascential Enterprise Data Integration Suite	<ul style="list-style-type: none"> HP-UX Windows Linux NonStop 	A full complement of service offerings package with our iterations methodology	Bill Doss bill.doss@ascential.com (925) 348-0871
Compuware	<ul style="list-style-type: none"> File-AID/MVS File-AID/IMS File-AID/DB2 File-AID/RDX File-AID/CS DBA-Xpert File-AID/Data Solution 	<ul style="list-style-type: none"> Xpediter/DevEnterprise Xpediter/TSO Xpediter/CICS Fault Manager Abend-AID Strobe/iStrobe 	<ul style="list-style-type: none"> File-AID/MVS 	<ul style="list-style-type: none"> Xpediter Cobol Xpediter PL1 Xpediter ALC Uniface OptimalJ DevPartner for VB, C, C+, C++, Java and .NET 	<ul style="list-style-type: none"> File-AID/Batch 	<ul style="list-style-type: none"> OptimalJ Uniface DevPartner Vantage QACenter and CARS 	<ul style="list-style-type: none"> HP-UX Windows NT/2000/XP UNIX 	Compuware Professional Services <ul style="list-style-type: none"> Installation Implementation Training – Classroom Training – Onsite Support Services Development Services 	Jim Stewart jim.stewart@compuware.com (313) 227-1995
Genus Software, Inc.	High Speed Data Connectivity Infrastructure (HSDCI)—Bi-directional UPLOAD and Transfer of Data into and out between NS SQL and other databases (DB2, UDB, Oracle, SQL Server etc.) fast, efficiently and in parallel without disrupting other online applications.	Same as “Data Migration” column					<ul style="list-style-type: none"> IBM-AIX-DB32 UDB HP-UX-Oracle SUN Solaris-Oracle NT-SQLServer NonStop 	Genus provides onsite/off-site professional services for customization, integration, training, and other development services	Genus Contact: Om Gupta om@genussoft.com (408) 257 8705 HP Contact: Larry Mendoza larry.mendoza@hp.com (408) 285 5054 10080 N. Wolfe Road, Suite # SW3-301, Cupertino, CA 95014 www.genussoft.com

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Informatica Corporation	<ul style="list-style-type: none"> • Enterprise Data Integration Solutions • Powercenter-Data Integraation Software • Powerexchange <p>PowerExchange provides access to all critical enterprise data systems—including mainframe, midrange relational databases, and file-based systems—as a standalone service or as a tightly-integrated product with Informatica PowerCenter.</p> <p>PowerExchange eliminates the need for organizations to manually code data extraction programs and ensures that mission-critical operational data can be leveraged across the enterprise</p> <p>Informatica can deliver changed data capture in a packaged software solution for mainframes and mid-range systems. With its unique ability for moving transaction-consistent data in near-real time between legacy DBMSs and</p>	<p>Powerexchange Batch Platform Options:</p> <ul style="list-style-type: none"> • DB2 • IMS • VSAM • ADABAS • IDMS • Datacom • Flat Files • MQ Series • IBM • BMC IMS • DB2 Back up Extract <p>Mid Range:</p> <ul style="list-style-type: none"> • AS400/DB2 • HP 3000 Turboimage • Flat Files • MQ Series <p>UNIX and Windows:</p> <ul style="list-style-type: none"> • Oracle • SQL Server • DB2 UDB • Sybase • Informix • C-ISAM • ADABAS • Flat Files • MQ Series 					<ul style="list-style-type: none"> • HP-UX (PA RISC) • Integrity 64-bit (HP-UX 11i v2) • Windows • Linux • Non-Stop 	<p>Professional Services including:</p> <p>Informatica Professional Services offers a full range of assistance to our customers in deploying enterprise decision support solutions. Using their proven methodology, Informatica Velocity.</p>	<p>Curt Burkhead Global Alliance Manager- Informatica cburkhead@informatica.com (940) 728-1101</p>

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	distributed RDBMSs, Informatica can keep disparate databases synchronized and maintain one image of data among different applications. By providing for both bulk data movement and changed data capture, Informatica allows either scheduled batch data movement or near-zero latency integration.								
LegacyJ	<p>LegacyJ provides data connectivity and mapping technology. One of these technologies is CA-Datacom plug-in.</p> <p>LegacyJ also has mapping facilities for VSAM data sets to SQL</p>	<p>LegacyJ provides as part of the LegacyJ Transaction Suite a BMS to HTML conversion capability.</p> <p>The facility can offer static conversion or dynamic conversions to HTML while maintaining all the PF Key capabilities while running in Netscape, IE or Mozilla browsers.</p>	<p>JCL, JES2 for Job Scheduling and print spooling will need to be implemented in a system specific context such as scripts or BAT files.</p>	<p>LegacyJ supports all versions of mainframe COBOL either on MVS, 390 or VSE systems</p> <p>In most cases no changes are required to compile and redeploy CICS COBOL applications.</p>	<p>LegacyJ does not provide the standard MVS utilities. Since it is believed that the processes, PROCLIBs and other standard 390 capabilities will need to be addressed in an OPEN framework.</p>	<p>LegacyJ Transaction Suite comes standard with an Eclipse based IDE. The IDE is available on Linux, HP-UX (PA-RISC, IA-64), Linux and other Unix systems. The IDE contains language sensitive editor, debug tool, deploy tool, and many other productivity features.</p>	<p>Any Java enabled platform using any J2EE Application Server.</p>	<p>Training, Consulting</p>	<p>LegacyJ Sales: LH Couch sales@legacyj.com www.legacyj.com (408)-583-2000 phone (408)-583-0566 fax</p>

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Micro Focus	Micro Focus Migration and Transformation Consortium partners	Mainframe Express Enterprise Edition provides best-in-class, Windows-based mainframe development tools, including seamless extension to J2EE, .NET or Web services.	Full support for IBM JCL CLIST and REXX emulation. Allows for testing including views of JES spool.	<ul style="list-style-type: none"> Enterprise COBOL for z/OS, COBOL for OS/390, COBOL for MVS, COBOL/370, VS COBOL II (Releases 2, 3 and 4) and OS/VS COBOL IBM LE, PL/I and Assembler for IBM ESA/390 and z/OS instruction set 	<ul style="list-style-type: none"> Source level debugger SCM interface Data file editor CICS, IMS TM/DB, DB2 assembler emulators Remote data access (VSAM, QSAM, DB2 and IMS DB) Remote source access EBCDIC and ASCII support. 	Mainframe Express provides equivalent functionality to IBM and 3 rd party mainframe-based tools such as CA-InterTest and Compuware Abend-AID, File-AID and XPEDITER.	To enable integration with: <ul style="list-style-type: none"> S/390, S/370, z/Series or 100% compatible computer IBM OS/390 v2.4 or higher (including z/OS) 	<ul style="list-style-type: none"> Micro Focus Professional Services. Micro Focus Service Partner Program Please see http://www.microfocus.com/partners/	Please visit http://www.microfocus.com/contact/ for detailed contact information according to your location.
	Micro Focus Migration and Transformation Consortium partners	Micro Focus Net Express, Server Express and Enterprise Server enable you to dramatically lower hardware and software costs with "Lift and shift" migration of IBM mainframe COBOL/CICS applications to contemporary platforms.	Early support for IBM JCL on distributed platforms to reduce the amount of change required to support mainframe batch on distributed platforms.	<ul style="list-style-type: none"> Enterprise COBOL for z/OS, COBOL for OS/390, COBOL for MVS, COBOL/370, VS COBOL II (Releases 2, 3 and 4) and OS/VS COBOL 	<ul style="list-style-type: none"> Source level debugger SCM interface Data file editor Native CICS EBCDIC and ASCII support Java Connector Support Native Web services XML syntax support 	Net Express® with .NET and Server Express are leading COBOL development environments for extending core business processes to distributed platforms.	HP-UX, Linux and Windows for 32-bit and 64-bit, Itanium (HP and Linux) and many others.	<ul style="list-style-type: none"> Micro Focus Professional Services. Micro Focus Service Partner Program Products listed require Mainframe Transaction Option (MTO), which is only available from authorized resellers. Please see: http://www.microfocus.com/partners/	Please visit http://www.microfocus.com/contact/ for detailed contact information according to your location.

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TIBCO Software Inc	<p>TIBCO Substation ES subscribes to and publishes data to TIBCO Rendezvous and other TIBCO messaging applications on behalf of transaction processing systems (such as CICS and IMS) that are running within the OS/390 operating system environment.</p> <p>The main features of Substation ES are described below.</p> <ul style="list-style-type: none"> Serves as the arbitrator for exchanging data between TIBCO messaging applications, running anywhere on the network and CICS and IMS transaction processing applications, running in the OS/390 environment Provides a flexible set of system initialization parameters and configuration settings that control how Substation ES operates and define how data is transformed between TIBCO messaging applications and 	<ul style="list-style-type: none"> The TIBCO Adapter for Files OS/390 (see also TIBCO Adapter for Files AS/400) supports file operations on OS/390 datasets and communicates with other applications enabled for TIBCO Rendezvous. TIBCO Adapter for CICS is part of the TIBCO ActiveEnterprise™ suite of products, and provides a modular, event-driven approach to the distribution and integration of information across multiple platforms and application environments. TIBCO Adapter for ActiveDatabase software (the adapter) allows data changes in a database to be sent as they occur to other databases and applications. TIBCO BusinessWorks is a scalable, extensible, and 	See TIBCO Substation ES information for JCL Support.		TIBCO Adapter for MQSeries facilitates message flow between MQSeries applications, TIBCO applications such as TIBCO BusinessWorks or other adapters, and compatible third-party applications such as a JMS-enabled application. The adapter takes messages received from applications, transforms the message if necessary, and then places this data on an MQSeries queue where it can be accessed by MQSeries applications. Conversely, the adapter extracts data from an MQSeries queue and converts it into a TIBCO wire format for consumption by external applications that subscribe to this data. Request-Response interactions are also supported between TIBCO-	The TIBCO Rendezvous OS/390 software allows applications running on IBM OS/390 systems to pass information between TIBCO Rendezvous enabled applications that communicate through the TIBCO Rendezvous message passing facilities. This message passing is implemented through one or more long running batch tasks (described as network daemons in other TIBCO publications) that receive TIBCO Rendezvous messages from the network. These daemons can be run under the traditional OS/390 MVS environment, or alternatively can be run in the Unix System Services USS (sometimes referred to as Open Edition) environments. Rendezvous daemons filter incoming messages according to their subjects and route these messages to applications (that	<ul style="list-style-type: none"> TIBCO Substation ES—OS/390 V2R6 and up TIBCO Adapter for Files OS/390—OS/390 V2R6 and up TIBCO Rendezvous OS/390—OS/390 V2R6 and up TIBCO Adapter for CICS—Windows 2000 TIBCO Adapter for ActiveDatabase (DB2 on OS/390 or AS/400)—HP-UX 11 and 11i, Linux, Windows TIBCO Adapter for MQ—HP-UX 11i, Linux, Windows TIBCO BusinessWorks—HP-UX 11, 11i, Itanium support for 11iV2 (11.23), Linux, Windows TIBCO Enterprise Message Service—HP-UX 11, 11i, Itanium support for 11iV2 (11.23), Linux, Windows, Tru64 (Alpha) 	<p>Mike Zivkovic mike.zivkovic@hp.com</p> <p>Please visit www.tibco.com for contact options according to your location.</p>	

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	<p>the transaction processing systems.</p> <ul style="list-style-type: none"> Translates data between TIBCO messaging applications and the CICS and IMS transaction processing systems. The data mappings are specified through a series of transformation configuration panels that define how each field is to be converted based on the direction in which the data is being exchanged. Provides tracing, logging, auditing and exception handling. Provides feedback on data transformations, operational exceptions and process execution to TIBCO messaging applications. 	<p>easy to use integration platform that allows you to develop integration projects.</p> <ul style="list-style-type: none"> TIBCO Enterprise Message Service includes support for Java Message Service 1.1 (JMS) is a Java framework specification for messaging between applications. Tibco SmartPGM on NonStop 			<p>enabled applications, such as TIBCO Rendezvous and TIBCO Enterprise for JMS, and MQSeries.</p> <p>Tibco SmartSockets runs on NonStop and with the ZLE architectures, provides real time data store for Tibco BusinessWorks</p>	<p>register interest in a subject or group of subjects). Applications that incorporate TIBCO Rendezvous API function calls into their processing logic must supply the TIBCO Rendezvous API library during the pre-link edit phase of the compilation. Application programs can then publish and subscribe to messages through the batch tasks running on OS/390 to other TIBCO Rendezvous applications anywhere in the network.</p>			

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<p>TPS® Systems, Inc.</p>	<ul style="list-style-type: none"> • TPS®/Network File Manager (NFM) is a client/server product designed to facilitate the movement of data and other files throughout a corporate network. • TPS®/Network Transaction Manager (NTM) offers an easily manageable solution to the problem of sending transactions or messages from application to application between different hardware and software systems utilizing multiple protocols. • TPS®/PCA (Protocol Conversion Application) is a software package providing high-function connectivity between SNA devices and a TCP/IP network. 	<p>In addition to TPS/NFM, TPS/NTM, and TPS/PCA, TPS® offers many connectivity products that can be used in integrating and offloading mainframe applications. The most commonly used of these products in a mainframe replacement opportunity are:</p> <ul style="list-style-type: none"> • TPS®/SNA Primary is a product that can be used to make a UNIX platform look like a mainframe to an SNA network. It is an extremely important product when attempting to rehost CICS applications that are dependent on SNA 3270 input. • TPS®/TN3270 Server acts as a gateway between SNA mainframe applications and downstream TN3270 and TN3270E clients connecting via TCP/IP links. 			<p>TPS®/Network File Manager (NFM) can be considered to be a utility type product</p>				<p>Del Delaney Director, Business Partner Development del@tps.com (210) 496 1983 phone (210) 490 6805 fax</p> <p>14100 San Pedro Suite 600 San Antonio, Texas 78232</p>

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Transoft	<ul style="list-style-type: none"> Transoft Legacy Liberator toolset generates data extraction/load programs Transoft U/SQL product provides ODBC/JDBC access to migrated VSAM data 	<p>Transoft use Micro Focus Net Express, Server Express and Enterprise Server to enable you to dramatically lower hardware and software costs with "Lift and shift" migration of IBM mainframe COBOL/CICS applications to contemporary platforms.</p> <p>Products listed require Mainframe Transaction Option (MTO).</p>	Early access support for JCL	<ul style="list-style-type: none"> Enterprise COBOL for z/OS COBOL for OS/390 COBOL for MVS COBOL/370 VS COBOL II (Releases 2, 3 and 4) OS/VS COBOL 	<ul style="list-style-type: none"> Source level debugger SCM interface Data file editor Native CICS EBCDIC and ASCII support Java Connector Support Native Web services XML syntax support 	Net Express® with .NET and Server Express are leading COBOL development environments for extending core business processes to distributed platforms.	HP-UX, Linux and Windows for 32-bit and 64-bit Itanium	<p>Transoft Professional Services has 18+ years migration experience of over 150 proprietary systems to open systems platforms.</p> <p>Transoft evolves new solutions from existing applications to deliver improved business processes, faster with less risk and demonstrably lower cost.</p> <p>Transoft is a Micro Focus Migration and Transformation Consortium partner.</p>	<p>Americas: Dave Roth, VP Business Development droth@transoft.com (858) 587 0467 phone</p> <p>EMEA: Geoff Baker, MD gbaker@transoft.com +44 (0)1753 778000 phone</p> <p>Please visit www.transoft.com for further information.</p>
Unicon Conversion Technologies, Inc.	<p>Automated conversion of:</p> <ul style="list-style-type: none"> SEQUENTIAL VSAM DB2 IMS/DB DL/1 SUPRA CA-DBDATACOM ADABAS <p>To:</p> <ul style="list-style-type: none"> SEQUENTIAL VISION C-ISAM ISAM DB2 MS SQL SERVER ORACLE <p>Including EBCDIC to ASCII conversion</p>	<p>Unicon's migration projects perform total migration of the IBM application to the HP-UX, Linux or Windows platform. The conversion handles all online and batch processes.</p> <p>The converted system is constructed only from the customers chosen components (i.e. Windows, MS SQL Server, ACUCOBOL, HP-UX, Oracle, Micro Focus COBOL)</p> <p>There are no emulation, proprietary file handlers,</p>	<p>The conversion process handles all IBM JCL and PROC files and corresponding PARM files to:</p> <ul style="list-style-type: none"> UNIX/Linux scripts Windows .bat, PERL, VBSCRIPTS, etc. <p>The process handles:</p> <ul style="list-style-type: none"> GDG datasets IDCAMS FILEAID EASYTRIEVE IEBGENER IEFBR14 IKJEFT1B SYNSORT etc 	<ul style="list-style-type: none"> COBOL ASSEMBLER NATURAL IDEAL 	<p>The conversion process handles:</p> <ul style="list-style-type: none"> IDCAMS FILEAID EASYTRIEVE SYNCSORT Etc. 	<p>The programs are converted to the customers chosen COBOL:</p> <ul style="list-style-type: none"> ACUCOBOL Micro Focus Fujitsu <p>The JCL are converted to the customers chosen scripting language:</p> <ul style="list-style-type: none"> UNIX/Linux scripts Windows .bat, PERL, VBSCRIPT etc 	Any HP-UX, Linux or Windows system	<p>Support services are provided as required by the customer from initial review though production running.</p> <p>Unicon also performs conversion projects under subcontract to the prime contractor.</p>	<p>Please visit http://www.uctnet.com for contact options according to your location.</p>

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		<p>proprietary screen drivers, or any proprietary middleware layers.</p> <p>The CICS or IMS on-line transactions can be converted to operate on Client Server, Citrix WinFrame, Micro Soft Terminal Server, UNIX and Linux Terminal Emulators, ACUTHIN, or .NET ASPX WEBFORMS environments.</p>	<p>Plus restart facilities, logging, schedulers (CA/7, AUTOSYS, ECS), etc.</p>						
WRQ, Inc.		<p>WRQ Verastream provides a phased migration approach</p> <ul style="list-style-type: none"> • Verastream can integrate HP and IBM platforms within a single web application <p>WRQ's Verastream exposes business functions on host applications as Web Services, Java and .Net components – enabling you to:</p> <ul style="list-style-type: none"> • Create host business functions that are callable through standard development environments • Move web application functionality from mainframes to 				<p>Verastream Developer Kit and Verastream Server Environments</p>	<p>Adapters</p> <ul style="list-style-type: none"> • IBM 3270, typically used with IBM MVS, OS/390, and z/OS hosts • IBM 5250, typically used with IBM AS/400 and i/OS hosts • VT52, VT102, VT220, VT320, and VT420 terminals, typically used with UNIX, Linux, and OpenVMS hosts • HP 2392A and 70092, typically used with HP MPE/ix hosts • CICS Transaction • IMS/TM Transaction • VSAM • IMS/DB • DB2 • DB2/400 • PeopleSoft • SAP • Siebel 	<p>WRQ Consulting Services, Inc. Provides training, mentoring and consulting for WRQ Verastream.</p>	<p>Jana Whitcomb, Strategic Partner Manager janaw@wrq.com (206) 217-7785 phone</p>

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		HP platforms without the need to reengineer the front end web application built using Verastream					<p>Application Program Interfaces</p> <ul style="list-style-type: none"> • Java • JDBC • COM • .NET • SQL • Microsoft BizTalk Server 2004 <p>Component Interfaces</p> <p>JavaBeans</p> <ul style="list-style-type: none"> • COM Objects • .NET Class Libraries • Web Services (J2EE, .NET, XML, SOAP) <p>Verastream Development Kit</p> <ul style="list-style-type: none"> • Windows NT Workstation 4.0 SP6a • Windows 2000 SP4 • Windows XP Professional <p>Verastream Server</p> <ul style="list-style-type: none"> • Red Hat Linux 7.3 and 8.0 for Intel platform • Windows 2003 • Windows XP Professional • Windows 2000 SP4 • Windows NT 4.0 SP6a 		