

Simplifying Integration with IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise

Integration challenges

DataPower XI50x value proposition

Architecture patterns and case study



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Simplifying Integration with IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise Alex Louwe Kooijmans,Bill Hines,Karan Punwani,Barry Silliman,Pradeep Thomas,Nigel Williams,IBM Redbooks,2011-09-29 This IBM Redpaper™ publication illustrates how the IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise provides a secure fast cost effective easy to manage all in one enterprise application integration solution On top of all the benefits that the DataPower XI50 and XI52 already provide incorporating the DataPower XI50z into zEnterprise also provides a number of additional benefits Exploitation of the high speed intraensemble data network IEDN connecting the zEnterprise Blade Extension zBX with the zEnterprise central processor complex CPC either a zEnterprise 196 z196 or zEnterprise 114 z114 Secure incorporation of the DataPower XI50z appliance into a virtual local area network VLAN on the zBX Unified management of the DataPower XI50z along with other blades and optimizers using a common management tool A centralized computing model resulting in more efficient use of floor space lower energy costs and a lower total cost of ownership TCO The DataPower XI50z provides a variety of powerful integration scenarios specifically for older mainframe applications making it a natural choice to include the appliance in your centralized zEnterprise server This publication is intended for potential and actual users of the DataPower XI50z

IBM WebSphere DataPower SOA Appliance Handbook Bill Hines,John Rasmussen,Jaime Ryan,Simon Kapadia,Jim Brennan,2008-12-24 Expert Guide to Deploying Using and Managing DataPower SOA Appliances IBM WebSphere DataPower appliances can simplify SOA deployment strengthen SOA security enhance SOA performance and dramatically improve SOA return on investment In this book a team of IBM's leading experts show how to make the most of DataPower SOA appliances in any IT environment The authors present IBM DataPower information and insights that are available nowhere else Writing for working architects administrators and security specialists they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems IBM WebSphere DataPower SOA Appliance Handbook begins by introducing the rationale for SOA appliances and explaining how DataPower appliances work from network security and Enterprise Service Bus perspectives Next the authors walk through DataPower installation and configuration then they present deep detail on DataPower's role and use as a network device Using many real world examples the authors systematically introduce the services available on DataPower devices especially the big three XML Firewall Web Service Proxy and Multi Protocol Gateway They also present thorough and practical guidance on day to day DataPower management including monitoring configuration build and deploy techniques Coverage includes Configuring DataPower's network interfaces for common scenarios Implementing DataPower deployment patterns for security gateway ESB and Web service management applications Proxying Web applications with DataPower Systematically addressing the security vulnerabilities associated with Web services and XML Integrating security with WebSphere Application Server Mastering DataPower XSLT custom

programming Troubleshooting using both built in and external tools *Set Up Security and Integration with the DataPower XI50z for zEnterprise* Rufus Credle,Libor Cada,Karan Punwani,Noriyuki Samejima,Pradeep Thomas,Corrado Troncone,IBM Redbooks,2011-12-20 This IBM Redbooks publication discusses the new IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise™ that bridges the gap between mainframe and distributed The DataPower XI50z a multifunctional appliance within the zEnterprise BladeCenter Extension zBX is managed with a single point of control which can help to streamline operations and maintenance The DataPower XI50z simplifies the translation of your existing formats to XML hardware acceleration for easier communication and connectivity This book will help you install tailor and configure the new attributes for implementing a zEnterprise ensemble network The zEnterprise System introduces internal virtual networks VLANs and additional networking attributes that need to be addressed Also we describe the planning considerations for the internal virtual networks and external networks This book is for anyone who wants an understanding of the security on the zEnterprise that focuses on the usage of the XI50z Network Security Services As you can expect from an IBM Redbooks publication we provide several integration use cases that you are able to use immediately within a production environment for example the XI50z connecting with and using WebSphere MQ WMQ connecting with CICS connecting with IMSTM and connecting with DB2 *IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 4: Security and Policy-Based Networking* Rufus P. Credle Jr.,Uma Maheswari Kumaraguru,Gilson Cesar de Oliveira,Micky Reichenberg,Georg Senfleben,Rutsakon Techo,Maulide Xavier,IBM Redbooks,2016-02-10 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication is for people who install and support z OS Communications Server It explains how to set up security for your z OS networking environment Network security requirements have become more stringent and complex Because many transactions are from unknown users and untrusted networks careful attention must be given to host and user authentication

data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book *IBM z/OS V2R2 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking* Bill White, Octavio Ferreira, Teresa Missawa, Teddy Sudewo, IBM Redbooks, 2017-03-21 For more than 50 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications IBM z Systems the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP/IP Internet protocol suite TCP/IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP/IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP/IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP/IP implementations The IBM z OS Communications Server TCP/IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP/IP This IBM Redbooks publication is for people who install and support z OS Communications Server It explains how to set up security for your z OS networking environment With the advent of TCP/IP and the Internet network security requirements have become more stringent and complex Because many transactions are from unknown users and untrusted networks such as the Internet careful attention must be given to host and user authentication data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book For more information about z OS Communications Server base functions standard applications and high availability see the other following volumes in the series IBM z OS V2R2 Communications Server TCP/IP Implementation Volume 1 Base Functions Connectivity and Routing SG24 8360 IBM z OS V2R2 Communications Server TCP/IP Implementation Volume 2 Standard Applications SG24 8361 IBM z OS V2R2 Communications Server TCP/IP Implementation Volume 3 High Availability Scalability and Performance SG24 8362 This book does not duplicate the information in these publications Instead it complements those publications with practical implementation scenarios that might be useful in your environment For more information about at what level a specific function was introduced see z OS Communications Server New Function Summary GC31 8771 [IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking](#) Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2016-02-10 For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing

centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication explains how to set up security for the z OS networking environment Network security requirements have become more stringent and complex Because many transactions come from unknown users and untrusted networks careful attention must be given to host and user authentication data privacy data origin authentication and data integrity We also include helpful tutorial information in the appendixes of this book because security technologies can be quite complex

IBM z/OS V1R11 Communications Server TCP/IP Implementation Volume 4: Security and Policy-Based Networking Bill White, Mike Ebberts, Demerson Cilloti, Gwen Dente, Sandra Elisa Freitag, Hajime Nagao, Carlos Bento Nonato, Matt Nuttall, Frederick James Rathweg, Micky Reichenberg, Andi Wijaya, Maulide Xavier, IBM Redbooks, 2010-04-26 Note This PDF is over 900 pages so when you open it with Adobe Reader and then do a Save As the save process could time out Instead right click on the PDF and select Save Target As For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors providing among many other capabilities world class state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks

publication explains how to set up security for your z OS networking environment With the advent of TCP IP and the Internet network security requirements have become more stringent and complex Because many transactions come from unknown users and from untrusted networks such as the Internet careful attention must be given to host and user authentication data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book For more specific information about z OS Communications Server base functions standard applications and high availability refer to the other volumes in the series IBM z OS V1R11 Communications Server TCP IP Implementation Volume 1 Base Functions Connectivity and Routing SG24 7798 IBM z OS V1R11 Communications Server TCP IP Implementation Volume 2 Standard Applications SG24 7799 IBM z OS V1R11 Communications Server TCP IP Implementation Volume 3 High Availability Scalability and Performance SG24 7800 In addition z OS Communications Server IP Configuration Guide SC31 8775 z OS Communications Server IP Configuration Reference SC31 8776 and z OS Communications Server IP User s Guide and Commands SC31 8780 contain comprehensive descriptions of the individual parameters for setting up and using the functions that we describe in this book They also include step by step checklists and supporting examples It is not the intent of this book to duplicate the information in those publications but to complement them with practical implementation scenarios that might be useful in your environment To determine at what level a specific function was introduced refer to z OS Communications Server New Function Summary GC31 8771

Optimizing Cost and Reducing Complexity with IBM SOA Connectivity Jim Hoskins,2010 **WebSphere eXtreme Scale v8.6 Key Concepts and Usage Scenarios** Jonathan Marshall,John Pape,Kristi Peterson,Greg Reid,Fabio Santos B. da Silva,Federico Senese,IBM Redbooks,2013-09-24 IBM WebSphere eXtreme Scale provides a solution to scalability issues through caching and grid technology It provides an enhanced quality of service in high performance computing environments This IBM Redbooks publication introduces WebSphere eXtreme Scale and shows how to set up and use an eXtreme Scale environment It begins with a discussion of the issues that would lead you to an eXtreme Scale solution It then describes the architecture of eXtreme Scale to help you understand how the product works It provides information about potential grid topologies the APIs used by applications to access the grid and application scenarios that show how to effectively use the grid This book is intended for architects who want to implement WebSphere eXtreme Scale The original edition of this book was based on WebSphere eXtreme Scale version 6 1 It was published in 2008 and described as a User s Guide This second edition updates the information based on WebSphere eXtreme Scale version 8 6 and covers key concepts and usage scenarios **IBM WebSphere DataPower SOA Appliances** ,2008 **IBM DataPower Handbook** Bill Hines,Ozair Sheikh,John Rasmussen,Jim Brennan,2015-06-26 This is Volume I of the long awaited second edition of the bible and expert guide to deploying using and managing IBM DataPower Gateway Appliances Updated for firmware v7 2 DataPower appliances can simplify deployment strengthen security enhance performance and dramatically improve return on

investment for many use cases such as mobile Web API legacy cloud and SOA Web Services In this book a team of leading experts show how to make the most of DataPower appliances in any IT environment The authors present DataPower information and insights that are available nowhere else Writing for working architects administrators developers and security specialists they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems The Handbook begins by introducing the rationale for appliances and explaining how DataPower appliances work from network security and other perspectives Next the authors work through installation and configuration This second edition contains invaluable new sections on virtual appliances performance the latest generation of hardware and firmware as well as comprehensive updates to the first edition content Subsequent volumes will dive deep into areas including network configuration development security appliance management and problem determination

IBM DataPower Handbook Harley Stenzel,Bill Hines,John Rasmussen,Jim Brennan,Ozair

Sheikh,2015-06-27 This is Volume II of the long awaited second edition of the bible and expert guide to deploying using and managing IBM DataPower Gateway Appliances It is updated for firmware version 7 2 DataPower appliances can simplify deployment strengthen security enhance performance and dramatically improve return on investment for many use cases such as mobile Web API legacy cloud and SOA Web Services In this book a team of leading experts show how to make the most of DataPower appliances in any IT environment The authors present DataPower information and insights that are available nowhere else Writing for working architects administrators developers and security specialists they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems This volume concentrates on DataPower networking and features chapters on beginning and advanced networking as well as network level availability

IBM Datapower Handbook Volume III John Rasmussen,Bill Hines,Jim Brennan,Ozair Sheikh,2016-01-12 This is Volume III of the long awaited second edition of the bible and expert guide to deploying using and managing IBM DataPower Gateway Appliances It is updated through firmware version 7 2 and focuses on DataPower development The authors present DataPower information and insights that are available nowhere else Writing for working architects administrators developers and security specialists they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems This volume focuses on all aspects of developing custom code for DataPower including XSLT JavaScript GatewayScript and much more The lead author is a DataPower original employee responsible for creating and developing core sections of the WebGUI and other components of the products firmware and has the experience of performing scores of actual customer implementations This volume walks through an introduction to DataPower development concepts and technologies including XSLT EXSLT JSON REST XQuery and JSONiq and then moves in depth providing a chapter on real world examples The volume concludes by covering development tools and transforming secondary data formats IBM DataPower appliances can simplify deployment

strengthen security enhance performance and dramatically improve return on investment for many use cases such as mobile Web API legacy cloud and SOA Web Services In this book a team of leading experts show how to make the most of DataPower appliances in any IT environment **IBM DataPower Handbook** Bill Hines,Terrill Kramer,Derek Doerr,Len McWilliams,2016-07-11 This is Volume V of the long awaited second edition of the bible and expert guide to deploying using and managing IBM DataPower Gateway Appliances DataPower appliances can simplify deployment strengthen security enhance performance and dramatically improve return on investment for many use cases such as mobile Web API legacy cloud and SOA Web Services In this book a team of leading experts show how to make the most of DataPower appliances in any IT environment The authors present DataPower information and insights that are available nowhere else Writing for working architects administrators developers and security specialists they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems This volume focuses on security hardening your DataPower appliances from both an administrative and messaging perspective It is based on military specifications designed by the United States Department of Defense Subsequent volumes dive deep into areas including intro setup Vol I network configuration Vol II development Vol III B2B and file transfer Vol III *IBM Data Processing Techniques* International Business Machines Corporation. Data Processing Division,1964* **Modification and Documentation of the IBM 360/44 Version of ECAP** Chandler Whitelaw (P.),1969 **Business Continuity Solution with Red Hat OpenShift and IBM Spectrum Virtualize for Public Cloud on Microsoft Azure** IBM,IBM Redbooks,2022-05-17 The focus of this Blueprint is to facilitate the deployment of the hybrid cloud business continuity solution with Red Hat OpenShift Container Platform RHOC on Microsoft Azure Cloud and Container Storage Interface CSI driver plug in for IBM Block Storage and IBM Spectrum Virtualize for Public Cloud SV4PC on Microsoft Azure Cloud This solution is designed to protect the data by using IBM Storage based Global Mirror Replication and the volume replication feature from IBM block storage CSI driver for IBM Storage For demonstration purposes MySQL containerized database is installed on the persistent volume PV that is created on the on premises IBM FlashSystem Storage This storage is connected to the RHOC cluster in the vSphere environment CSI driver plug in for IBM Block Storage FS9100 and SV4PC on Azure is installed on Red Hat OCP on Azure and On premises Red Hat OCP The volume or logical unit number LUN from on premises IBM FlashSystem Storage FS9100 is replicated to IBM SV4PC on Microsoft Azure Cloud by using the IBM storage global mirror replication feature and the IBM CSI volume replication feature The information in this document is distributed on an as is basis without any warranty that is either expressed or implied Support assistance for the use of this material is limited to situations where IBM Spectrum Virtualize for Public Cloud is supported and entitled and where the issues are specific to this Blueprint implementation [Reference Manual](#) International Business Machines Corporation,1962 *Documentation Overview* International Business Machines Corporation,1992 **DataPower XM70 Use Cases and Patterns** ,2009

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