

# IBM Informix Developer's Handbook

Learn application development with  
supported APIs, drivers, and interfaces

Understand Informix supported  
programming environments

Follow practical examples to  
develop an Informix application



Whei-Jen Chen  
Krishna Doddi  
Manoj Ghogale  
David Jay  
Javier Sagrera

# Ibm Informix Developers Handbook Ibm Redbooks

**Bill Ogden**



## **Ibm Informix Developers Handbook Ibm Redbooks:**

**IBM Informix Developer's Handbook** Whei-Jen Chen, Krishna Doddi, Manoj Ghogale, David Jay, Javier Sagrera, IBM Redbooks, 2011-01-17 IBM Informix is a low administration easy to use and embeddable database that is ideal for application development. It supports a wide range of development platforms such as Java™, .NET, PHP and web services enabling developers to build database applications in the language of their choice. Informix is designed to handle RDBMS data and XML without modification and can be extended easily to handle new data sets. This IBM Redbooks publication provides fundamentals of Informix application development. It covers the Informix Client installation and configuration for application development environments. It discusses the skills and techniques for building Informix applications with Java, ESQL/C, OLE DB, .NET, PHP, Ruby on Rails, DataBlade and Hibernate. The book uses code examples to demonstrate how to develop an Informix application with various drivers, APIs and interfaces. It also provides application development troubleshooting and considerations for performance. This book is intended for developers who use IBM Informix for application development. Although some of the topics that we discuss are highly technical, the information in the book might also be helpful for managers or database administrators who are looking to better understand their Informix development environment.

**Solving Business Problems with Informix TimeSeries** Vaibhav S Dantale, Tony Hays, Anup Nair, Jacques Roy, IBM Redbooks, 2012-09-21 The world is becoming more and more instrumented, interconnected and intelligent in what IBM terms a smarter planet, with more and more data being collected for analysis. In trade magazines, this trend is called big data. As part of this trend, the following types of time-based information are collected: Large data centers support a corporation or provide cloud services. These data centers need to collect temperature, humidity and other types of information over time to optimize energy usage. Utility meters referred to as smart meters allow utility companies to collect information over a wireless network and to collect more data than ever before. IBM Informix TimeSeries is optimized for the processing of time-based data and can provide the following benefits: Storage savings. Storage can be optimized when you know the characteristics of your time-based data. Informix TimeSeries often uses one third of the storage space that is required by a standard relational database. Query performance. Informix TimeSeries takes into consideration the type of data to optimize its organization on disk and eliminates the need for some large indexes and additional sorting. For these reasons and more, some queries can easily have an order of magnitude performance improvement compared to standard relational. Simpler queries. Informix TimeSeries includes a large set of specialized functions that allow you to better express the processing that you want to execute. It even provides a toolkit so that you can add proprietary algorithms to the library. This IBM Redbooks publication is for people who want to implement a solution that revolves around time-based data. It gives you the information that you need to get started and be productive with Informix TimeSeries.

**IBM Midmarket Software Buying and Selling Guide** Linda May Patterson, IBM Redbooks, 2010-07-12 The IBM Midmarket Software Buying and Selling Guide is tailored

specifically to help the management and IT staff of small and midsize businesses evaluate how the IBM midmarket portfolio can provide simple and cost effective solutions to common business problems Along with a midmarket customer focus this IBM Redpaper™ publication is designed to help IBM teams and Business Partners be more effective in serving small and midsize businesses We illustrate how IBM software for the midmarket can help businesses use the Web to reduce expenses improve customer service and expand into new markets We cover the IBM software offering for the midmarket which includes what the software does the platforms it runs on where to find more information and how it can help your business become more profitable IBM Business Partners often keep a printed copy of this guide in their briefcases for software references Customers can view this guide online and look up software value messages and IBM product family offering comparisons IBM Sales Representatives can print parts of this guide as leave behinds for customers to give them extra collateral on midmarket software of interest To make sure that you have the latest version of this guide download it from this web address <http://www.redbooks.ibm.com/abstracts/redp3975.html> Open **IBM Informix Developer's Handbook** Whei-Jen Chen,2010 *Getting Started: Journey to Modernization with IBM Z* Makenzie Manna,Ravinder Akula,Matthew Cousens,Pabitra Mukhopadhyay,Anand Shukla,IBM Redbooks,2021-03-15 Modernization of enterprise IT applications and infrastructure is key to the survival of organizations It is no longer a matter of choice The cost of missing out on business opportunities in an intensely competitive market can be enormous To aid in their success organizations are facing increased encouragement to embrace change They are pushed to think of new and innovative ways to counter or offer a response to threats that are posed by competitors who are equally as aggressive in adopting newer methods and technologies The term modernization often varies in meaning based on perspective This IBM Redbooks publication focuses on the technological advancements that unlock computing environments that are hosted on IBM Z to enable secure processing at the core of hybrid This publication is intended for IT executives IT managers IT architects System Programmers and Application Developer professionals **IBM WebSphere Everyplace Access V5 Handbook for Developers and Administrators Volume I** Juan Rodriguez,Anna Gangitano,Christian Kirsch,Marty Lassiter,Manuel Rodriguez,Gianfranco Rutigliano,Gregg Sanders,Guillermo Villavicencio,2005 This IBM Redbooks publication is part of a series of four volumes related to WebSphere Everyplace Access Version 5.0 These Redbooks will help you plan install administer and develop mobile applications to run in a WebSphere Everyplace Access Version 5.0 environment The information provided in these Redbooks target business to employee B2E enterprise applications but most of the scenarios presented will apply to business to consumer B2C applications as well In these Redbooks you will find step by step examples and scenarios showing ways to integrate your enterprise applications into a WebSphere Everyplace Access environment using the WebSphere Studio Site Developer and the Everyplace Toolkit as well as extending your online and offline application capabilities to use other advanced functions In this book you will also find step by step sample installation and administration procedures to help you get online and access

your enterprise applications from PDAs such as Pocket PCs and Palm devices The book includes topics such as product installation administration instant messaging implementation device management and how to establish secure connections A basic knowledge of Java technologies such as servlets JavaBeans EJBs JavaServer Pages JSPs as well as XML applications and the terminology used in Web publishing is assumed **IBM WebSphere Everyplace Access V5 Handbook for**

**Developers and Administrators Volume II** Juan Rodriguez, George Kroner, Gianfranco Rutigliano, Sung-Ik Son, Guillermo Villavicencio, 2005 This IBM Redbooks publication is part of a series of four volumes related to WebSphere Everyplace Access Version 5.0 These Redbooks will help you plan install administer and develop mobile applications to run in a WebSphere Everyplace Access Version 5.0 environment The information provided in these Redbooks target business to employee B2E enterprise applications but most of the scenarios presented will apply to business to consumer B2C applications as well In these Redbooks you will find step by step examples and scenarios showing ways to integrate your enterprise applications into a WebSphere Everyplace Access environment using the WebSphere Studio Site Developer and the Everyplace Toolkit and extend your online and offline application capabilities to use other advanced functions In this book you will also find step by step sample scenarios illustrating procedures to develop online applications using WebSphere Studio Site Developer and WebSphere Application Site Developer along with the WebSphere Everyplace Toolkit Sample scenarios also include offline applications using Offline Portal Content and Forms Transcoding and DB2e applications using the WebSphere Studio Device Developer A basic knowledge of Java technologies such as servlets JavaBeans EJBs JavaServer Pages JSPs as well as XML applications and the terminology used in Web publishing is assumed The following IBM WebSphere Everyplace Access V5 Handbook for Developers and Administrators Redbooks are part of this offering Volume I Installation and Administration SG24-6462 Volume II Application Development SG24-6463 Volume III E Mail and Database Synchronization SG24-6676 Volume IV Advanced Topics SG24-6677 Please note that the additional material referenced in the text is not available from IBM **Digital Transformation with IBM Application Discovery** Suman Gopinath, IBM Redbooks, 2017-09-28 This IBM Redpaper™ publication describes how IBM Application Discovery AD complements IBM z/OS Connect Enterprise Edition and IBM Developer for z Systems in making older mainframe applications available to the digital world By using a sample scenario this publication primarily focuses on how the functionality of AD can be used to discover application programming interface API candidates and how z/OS Connect can easily create an API out of the mainframe program It also describes how IBM Developer for z Systems acts as the tool that links the entire transformation

*IBM System z Personal Development Tool Messages and Codes* Bill Ogden, IBM Redbooks, 2016-08-29 This IBM Redbooks publication provides all the messages that are associated with IBM System z Personal Development Tool IBM zPDT operation in a single reference source This edition is intended for zPDT Version 1 Release 6 commonly known as GA6 but should be useful for all zPDT releases **IBM**

**i 7.2 Technical Overview with Technology Refresh Updates** Ryan Cooper, Dwight Harrison, Takahiro Ichikawa, Siripong

Prukpaiboon,Edward Satio,Jiri Sochr,Tom Vernailen,2016 This IBM Redbooks publication provides a technical overview of the features functions and enhancements that are available in IBM i 7.2 including all the available Technology Refresh TR levels from TR1 to TR3 This publication provides a summary and brief explanation of the many capabilities and functions in the operating system It also describes many of the licensed programs and application development tools that are associated with IBM i The information that is provided in this book is useful for clients IBM Business Partners and IBM service professionals that are involved with planning supporting upgrading and implementing IBM i 7.2 solutions

**IBM System z Personal Development Tool: Volume 1 Introduction and Reference** Bill Ogden,IBM Redbooks,2013-06-24 This IBM Redbooks publication introduces the IBM System z Personal Development Tool zPDT which runs on an underlying Linux system based on an Intel processor zPDT provides a System z system on a PC capable of running current System z operating systems including emulation of selected System z I/O devices and control units It is intended as a development demonstration and learning platform and is not designed as a production system This book providing an introduction is the first of three volumes The second volume describes the installation of zPDT including the underlying Linux and a particular z/OS distribution and basic usage patterns The third volume discusses more advanced topics that may not interest all zPDT users The IBM order numbers for the three volumes are SG24 7721 SG24 7722 and SG24 7723 An additional volume SG24 7859 describes the use of zPDT in a Parallel Sysplex configuration The systems discussed in these volumes are complex with elements of Linux for the underlying PC machine z/Architecture for the core zPDT elements System z I/O functions for emulated I/O devices and z/OS providing the System z application interface and possibly with other System z operating systems We assume the reader is familiar with general concepts and terminology of System z hardware and software elements and with basic PC Linux characteristics

**IBM WebSphere Everyplace Access V5 Handbook for Developers and Administrators Volume III** Juan Rodriguez,Anna Gangitano,Gianfranco Rutigliano,Guillermo Villavicencio,2005 This IBM Redbooks publication is part of a series of four volumes related to WebSphere Everyplace Access Version 5.0 These books will help you plan install administer and develop mobile applications to run in a WebSphere Everyplace Access Version 5.0 environment The information provided in these books targets business to employee B2E enterprise applications but most of the scenarios presented apply to business to consumer B2C applications as well These books provide step by step examples and scenarios showing ways to integrate your enterprise applications into a WebSphere Everyplace Access environment using the WebSphere Studio Site Developer and the Everyplace Toolkit as well as extend your online and offline application capabilities to use other advanced functions This book also contains step by step sample scenarios showing ways to synchronize Domino and Microsoft Exchange e Mail servers as well as relational JDBC databases with DB2 Everyplace databases on your client devices such as Pocket PCs and Palm devices A basic knowledge of Java technologies such as servlets JavaBeans EJBs JavaServer Pages JSPs as well as XML applications and the terminology used in Web publishing is

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Client Technology Micro Edition client applications A basic knowledge of Java technologies such as servlets JavaBeans Enterprise JavaBeans as well as database device management and XML applications and the terminology used in Web publishing is assumed Please note that the additional material referenced in the text is not available from IBM **IBM Problem Determination Tools for z/OS** Rufus Credle,Vikram Manchala,Dana Shelton,Kenichi Yoshimura,IBM Redbooks,2013-01-27 IBM Problem Determination PD Tools consists of a core group of IBM products that are designed to work with compilers and run times to provide a start to finish development solution for the IT professional This IBM Redbooks publication provides you with an introduction to the tools guidance for program preparation to use with them an overview of their integration and several scenarios for their use If an abend occurs during testing Fault Analyzer enables the programmer to quickly and easily pinpoint the abending location and optionally the failing line of code Many times this information is all the programmer requires to correct the problem However it might be necessary to delve a little deeper into the code to figure out the problem Debug Tool allows the programmer to step through the code at whatever level is required to determine where the error was introduced or encountered After the code or data is corrected the same process is followed again until no errors are encountered However volume testing or testing with multiple terminals is sometimes required to ensure real world reliability Workload Simulator can be used to perform this type of testing After all of the tests are completed running the application by using Application Performance Analyzer can ensure that no performance bottlenecks are encountered It also provides a baseline to ensure that future enhancements do not introduce new performance degradation into the application This publication is intended for z OS application developers and system programmers

**IBM TotalStorage Solutions Handbook** Bertrand Dufrasne,2005-01-01 Printbegr nsninger Der kan printes 10 sider ad gangen og max 40 sider pr session IBM Software Defined Environment Dino Quintero,William M Genovese,KiWaon Kim,Ming Jun MJ Li,Fabio Martins,Ashish Nainwal,Dusan Smolej,Marcin Tabinowski,Ashu Tiwary,IBM Redbooks,2015-08-14 This IBM Redbooks publication introduces the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today s environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands This information is



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