

## Websphere Operational Decision Management Documentation

This IBM® Redpaper Redbooks® publication introduces the IBM System z® New Application License Charges (zNALC) pricing structure and provides examples of zNALC workload scenarios. It describes the products that can be run on a zNALC logical partition (LPAR), reasons to consider such an implementation, and covers the following topics: Using the IBM WebSphere Application Server Liberty profile to host applications within an IBM CICS® environment and how it interacts with CICS applications and resources Security technologies available to applications that are hosted within a WebSphere Application Server Liberty profile in CICS How to implement modern presentation in CICS with a CICS Liberty Java virtual machine (JVM) server How to share scenarios to develop Liberty JVM applications to gain benefits from IBM CICS Transaction Server for IBM z/OS® Value Unit Edition Considerations when using mobile devices to interact with CICS applications and explains specific CICS technologies for connecting mobile devices by using the z/OS Value Unit Edition How IBM Operational Decision Manager for z/OS runs in the transaction server to provide decision management services for CICS COBOL and PL/I applications Installing the CICS Transaction Server for z/OS (CICS TS) Feature Pack for Modern Batch to enable the IBM WebSphere® batch environment to schedule and manage batch applications in CICS This book also covers what is commonly referred to as plain old Java objects (POJOs). The Java virtual machine (JVM) server is a full-fledged JVM that includes support for Open Service Gateway initiative (OSGi) bundles. It can be used to host open source Java frameworks and does just about anything you want to do with Java on the mainframe. POJO applications can also qualify for deployment using the Value Unit Edition. Read about how to configure and deploy them in this companion Redbooks publication: IBM CICS and the JVM server: Developing and Deploying Java Applications, SG24-8038 Examples of POJOs are terminal-initiated transactions, CICS web support, web services, requests received via IP CICS sockets, and messages coming in via IBM WebSphere MQ messaging software.

This book constitutes the refereed proceedings of the Second International Conference on Decision Support Systems Technology, ICDSST 2016, held in Plymouth, UK, May 23-25. The theme of the event was “Decision Support Systems Addressing Sustainability & Societal Challenges”, organized by the EURO (Association of European Operational Research Societies) working group of Decision Support Systems (EWG-DSS). The 15 full papers presented in this book were selected out of 51 submissions after being carefully reviewed by internationally experts from the ICDSST 2016 Program Committee and external invited reviewers. The selected papers are representative of current and relevant research activities in various areas of decision support systems, such as sustainability and societal challenges; risk management and project portfolio management; business intelligence and knowledge management; and technologies to improve system usability.

IBM® Business Process Manager (IBM BPM) is a comprehensive business process management (BPM) suite that provides visibility and management of your business processes. IBM BPM supports the whole BPM lifecycle approach: Discover and document Plan Implement Deploy Manage Optimize Process owners and business owners can use this solution to engage directly in the improvement of their business processes. IBM BPM excels in integrating role-based process design, and provides a social BPM experience. It enables asset sharing and creating versions through its Process Center. The Process Center acts as a unified repository, making it possible to manage changes to the business processes with confidence. IBM BPM supports a wide range of standards for process modeling and exchange. Built-in analytics and search capabilities help to further improve and optimize the business processes. This IBM Redbooks® publication provides valuable information for project teams and business people that are involved in projects using IBM BPM. It describes the important design decisions that you face as a team. These decisions invariably have an effect on the success of your project. These decisions range from the more business-centric decisions, such as which should be your first process, to the more technical decisions, such as solution analysis and architectural considerations.

Today enterprises must strive to improve their competitiveness in a changing environment. To reach this objective it is necessary for companies to evaluate their performances and to combine modelling, business process re-engineering and benchmarking techniques. This book demonstrates the successful combination and implementation of these various techniques.

Advanced Case Management with IBM Case Manager

IBM Software for SAP Solutions

Creating Integrated IBM WebSphere Solutions using Application Lifecycle Management

Governing Operational Decisions in an Enterprise Scalable Way

Using IBM Operational Decision Manager: IMS COBOL BMP, COBOL DLIBATCH, and COBOL MPP

In today's competitive, always-on global marketplace, businesses need to be able to make better decisions more quickly. And they need to be able to change those decisions immediately in order to adapt to this increasingly dynamic business environment. Whether it is a regulatory change in your industry, a new product introduction by a competitor that your organization needs to react to, or a new market opportunity that you want to quickly capture by changing your product pricing. Decisions like these lie at the heart of your organization's key business processes. In this IBM® Redpaper™ publication, we explore the benefits of identifying and documenting decisions within the context of your business processes. We describe a straightforward approach for doing this by using a business process and decision discovery tool called IBM Blueworks Live™, and we apply these techniques to a fictitious example from the auto insurance industry to help you better understand the concepts. This paper was written with a non-technical audience in mind. It is intended to help business users, subject matter experts, business analysts, and business managers get started discovering and documenting the decisions that are key to their company's business operations.

Decision making is a critical function in any enterprise. The decision-making process that is enhanced by analytics can be described as consuming and collecting data, detecting relationships and patterns, applying sophisticated analysis techniques, reporting, and automation of the follow-on action. The IT system that supports decision making is composed of the traditional "systems of record", "systems of engagement", and the "systems of insight". This IBM® Redbooks® Solution Guide introduces the concept of systems of insight based on what is detailed in the IBM Redbooks publication "Systems of Insight for Digital Transformation," SG24-8293, found at: <http://www.redbooks.ibm.com/redpieces/abstracts/sg248293.html?Open>

This completely refreshed IBM Redbooks® publication provides a detailed introduction to the latest capabilities for business event processing with IBM® CICS® V5. Events make it possible to identify and react to situations as they occur, and an event-driven approach, where changes are detected as they happen, can enable an application or an Enterprise to respond in a much more timely fashion. CICS event processing support was first introduced in CICS TS V4.1, and this IBM Redbooks® publication now covers all the significant enhancements and extensions which have been made since then. CICS Transaction Server for z/OS provides capabilities for capturing application events, which can give insight into the business activities carried out within CICS applications, and system events, which give insight into changes in state within the CICS system. Application events can be generated from existing applications, without requiring any application changes. Simple tooling allows both application and system events to be defined and deployed into CICS without disruption to the system, and the resulting events can be made available to a variety of event consumers. CICS events can amongst other things be used to drive processing within CICS, to populate dashboards that are provided by IBM Business Monitor and to search for patterns in events using IBM Operational Decision Manager. This IBM Redbooks® publication is divided into the following parts: Part 1 introduces event processing. We explain what it is and why you need it, and discuss how CICS makes it easy to both capture and emit events. Part 2 of the book focuses on the details of event processing with CICS. It gives a step-by-step guide to implementing CICS events, along with the environment used in the examples. Part 3 provides some guidance on governance and troubleshooting for CICS events, and describes how to integrate CICS events with IBM Operational Decision Manager and IBM Business Monitor. The Appendices include additional reference information.

This book constitutes the refereed proceedings of the International RuleML Symposium, RuleML 2012, held in Montpellier, France, in August 2012 - collocated with the 20th biennial European Conference on Artificial Intelligence, ECAI 2012. The 14 full papers, 8 short papers and 2 track papers presented together with 2 keynote talks were carefully reviewed and selected from numerous submissions. The accepted papers address topics such as business rules and processes; rule-based event processing and reaction rules; rule-based policies and agents on the pragmatic web; rules and the semantic web; rule markup languages and rule interchange; and rule transformation, extraction and learning.

Practical Cloud-Native Java Development with MicroProfile

Analyze More, Act Faster, and Get Continuous Insights

Develop and deploy scalable, resilient, and reactive cloud-native applications using MicroProfile 4.1

Modelling Techniques for Business Process Re-engineering and Benchmarking

Concepts and Resources for Managers

Gain a competitive edge with IBM Streams Turn data-in-motion into solid business opportunities with IBM Streams and let Streaming Analytics with IBM Streams show you how. This comprehensive guide starts out with a brief overview of different technologies used for big data processing and explanations on how data-in-motion can be utilized for business advantages. You will learn how to apply big data analytics and how they benefit from data-in-motion. Discover all about Streams starting with the main components then dive further with Stream instillation, and upgrade and management capabilities including tools used for production. Through a solid understanding of big in motion, detailed illustrations, Endnotes that provide additional learning resources, and end of chapter summaries with helpful insight, data analysts and professionals looking to get more from their data will benefit from expert insight on: Data-in-motion processing and how it can be applied to generate new business opportunities The three approaches to processing data in motion and pros and cons of each The main components of Streams from runtime to installation and administration Multiple purposes of the Text Analytics toolkit The evolving Streams ecosystem A detailed roadmap for programmers to quickly become fluent with Streams Data-in-motion is rapidly becoming a business tool used to discover more about customers and opportunities, however it is only valuable if have the tools and knowledge to analyze and apply. This is an expert guide to IBM Streams and how you can harness this powerful tool to gain a competitive business edge.

SAP is a market leader in enterprise business application software. SAP solutions provide a rich set of composable application modules, and configurable functional capabilities that are expected from a comprehensive enterprise business application software suite. In most cases, companies that adopt SAP software remain heterogeneous enterprises running both SAP and non-SAP systems to support their business processes. Regardless of the specific scenario, in heterogeneous enterprises most SAP implementations must be integrated with a variety of non-SAP enterprise systems: Portals Messaging infrastructure Business process management (BPM) tools Enterprise Content Management (ECM) methods and tools Business analytics (BA) and business intelligence (BI) technologies Security Systems of record Systems of engagement The tooling included with SAP software addresses many needs for creating SAP-centric environments. However, the classic approach to implementing SAP functionality generally leaves the business with a rigid solution that is difficult and expensive to change and enhance. When SAP software is used in a large, heterogeneous enterprise environment, SAP clients face the dilemma of selecting the correct set of tools and platforms to implement SAP functionality, and to integrate the SAP solutions with non-SAP systems. This IBM® Redbooks® publication explains the value of integrating IBM software with SAP solutions. It describes how to enhance and extend pre-built capabilities in SAP software with best-in-class IBM enterprise software, enabling clients to maximize return on investment (ROI) in their SAP investment and achieve a balanced enterprise architecture approach. This book describes IBM Reference Architecture for SAP, a prescriptive blueprint for using IBM software in SAP solutions. The reference architecture is focused on defining the use of IBM software with SAP, and is not intended to address the internal aspects of SAP components. The chapters of this book provide a specific reference architecture for many of the architectural domains that are each important for a large enterprise to establish common strategy, efficiency, and balance. The majority of the most important architectural domain topics, such as integration, process optimization, master data management, mobile access, Enterprise Content Management, business intelligence, DevOps, security, systems monitoring, and so on, are covered in the book. However, there are several other architectural domains which are not included in the book. This is not to imply that these other architectural domains are not important or are less important, or that IBM does not offer a solution to address them. It is only reflective of time constraints, available resources, and the complexity of assembling a book on an extremely broad topic. Although more content could have been added, the authors feel confident that the scope of architectural material that has been included should provide organizations with a fantastic head start in defining their own enterprise reference architecture for many of the important architectural domains, and it is hoped that this book provides great value to those reading it. This IBM Redbooks publication is targeted to the following audiences: Client decision makers and solution architects leading enterprise transformation projects and wanting to gain further insight so that they can benefit from the integration of IBM software in large-scale SAP projects. IT architects and consultants integrating IBM technology with SAP solutions.

This IBM® Redbooks® publication provides performance tuning tips and best practices for IBM Business Process Manager (IBM BPM) V8.5.5 (all editions) and IBM Business Monitor V8.5.5. These products represent an integrated development and runtime environment based on a key set of service-oriented architecture (SOA) and business process management (BPM) technologies. Such technologies include Service Component Architecture (SCA), Service Data Object (SDO), Business Process Execution Language (BPEL) for web services, and Business Processing Modeling Notation (BPMN). Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere® Application Server infrastructure. As a result, Business Process Manager solutions benefit from tuning, configuration, and best practices information for WebSphere Application Server and the corresponding platform Java virtual machines (JVMs). This book targets a wide variety of groups, both within IBM (development, services, technical sales, and others) and customers. For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor, this document proves a useful reference. The book is useful both in terms of best practices during application development and deployment and as a reference for setup, tuning, and configuration information. This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution performance can be improved.

Today many organizations face challenges when developing a realistic plan or schedule that provides the best possible balance between customer service and revenue goals. Optimization technology has long been used to find the best solutions to complex planning and scheduling problems. A decision-support environment that enables the flexible exploration of all the trade-offs and sensitivities needs to provide the following capabilities: Flexibility to develop and compare realistic planning and scheduling scenarios Quality sensitivity analysis and explanations Collaborative planning and scenario sharing Decision recommendations This IBM® Redbooks® publication introduces you to the IBM ILOG® Optimization Decision Manager (ODM) Enterprise. This decision-support application provides the capabilities you need to take full advantage of optimization technology. Applications built with IBM ILOG ODM Enterprise can help users create, compare, and understand planning or scheduling scenarios. They can also adjust any of the model inputs or goals, and fully understanding the binding constraints, trade-offs, sensitivities, and business options. This book enables business analysts, architects, and administrators to design and use their own operational decision management solution.

Systems of Insight for Digital Transformation: Using IBM Operational Decision Manager Advanced and Predictive Analytics

Making Better Decisions Using IBM WebSphere Operational Decision Management

Concepts, Coroutines, Ranges, and more

Decision Management Systems

IBM Business Process Manager V8.5 Performance Tuning and Best Practices

In this IBM® Redbooks® publication we describe how to build an advanced business application from end to end. We use a fictional scenario to define the application, document the deployment methodology, and confirm the roles needed to support its development and deployment. Through step-by-step instructions you learn how to: - Define the project lifecycle using IBM Solution for Collaborative Lifecycle Management - Build a logical and physical data model in IBM InfoSphere® Data Architect - Confirm business rules and business events using IBM WebSphere® Operational Decision Management - Map a business process and mediation using IBM Business Process Manager - Use IBM Cognos® Business Intelligence to develop business insight In addition, we articulate a testing strategy using IBM Rational® Quality Manager and deployment options using IBM Workload Deployer. Taken together, this book provides comprehensive guidance for building and testing a solution using core IBM Rational, Information Management, WebSphere, Cognos and Business Process Management software. It seeks to demystify the notion that developing and deploying advanced solutions is taxing. This book will appeal to IT architects and specialists who seek straightforward guidance on how to build comprehensive solutions. They will be able to adapt these materials to kick-start their own end-to-end projects.

This Redpaper introduces the integration between two IBM products that you might like to consider when implementing a modern agile solution on your Z systems. The document briefly introduces Operational Decision Manager on z/OS and Machine learning on z/OS. In the case of Machine Learning we focus on the aspect of real-time scoring models and how these can be used with Business Rules to give better decisions. Note: Important changes since this document was written: This document was written for an older release of Operational Decision Manager for z/OS (ODM for z/OS). ODM for z/OS 8.9.1 required the writing of custom Java code to access a Watson Machine Learning for z/OS Scoring Service (this can be seen in ). Since that time ODM for z/OS version 8.10.1 has been released and much improves the integration experience. Integrating the two products no longer requires custom Java code. Using ODM for z/OS 8.10.1 or later you can use an automated wizard in the ODM tooling to: Browse and select a model from Watson Machine Learning Import the Machine Learning data model into your rule project Automatically generate a template rule that integrates a call to the Watson Machine Learning scoring service Download and read this document for: Individual introductions to ODM for z/OS and Machine learning Discussions on the benefits of using the two technologies together Information on integrating if you have not yet updated to ODM for z/OS 8.10.1 For information about the machine learning integration in ODM for z/OS 8.10.1 see "IBM Watson Machine Learning for z/OS integration" topic in the ODM for z/OS 8.10.x Knowledge Center at: [https://www.ibm.com/support/knowledgecenter/en/SSQP76\\_8.10.x/com.ibm.odm.zos.develop/topics/con\\_ml\\_integration\\_overview.html](https://www.ibm.com/support/knowledgecenter/en/SSQP76_8.10.x/com.ibm.odm.zos.develop/topics/con_ml_integration_overview.html)

For MIS specialists and nonspecialists alike, a comprehensive, readable, understandable guide to the concepts and applications of decision support systems.

Programming with C++20 teaches programmers with C++ experience the new features of C++20 and how to apply them. It does so by assuming C++11 knowledge. Elements of the standards between C++11 and C++20 will be briefly introduced, if necessary.

However, the focus is on teaching the features of C++20. You will start with learning about the so-called big four Concepts, Coroutines, std::ranges, and modules. The big four a followed by smaller yet not less important features. You will learn about std::format, the new way to format a string in C++. In chapter 6, you will learn about a new operator, the so-called spaceship operator, which makes you write less code. You then will look at various improvements of the language, ensuring more consistency and reducing surprises. You will learn how lambdas improved in C++20 and what new elements you can now pass as non-type template parameters. Your next stop is the improvements to the STL. Of course, you will not end this book without learning about what happened in the constexpr-world.

Architect's Guide to IBM CICS on System z

A Software Architect's Guide to New Java Workloads in IBM CICS Transaction Server

Systems of Insight Overview

Annual Department of Defense Bibliography of Logistics Studies and Related Documents

IBM Intelligent Operations Center V1.5 to V1.6 Migration Guide

Competition is becoming more intense and decision makers are encountering increasing complexity, rapid change, and higher levels of risk. In many situations, the solution is more and better computerized decision support, especially analytics and business intelligence. Today managers need to learn about and understand computerized decision support. If a business is to succeed, managers must know much more about information technology solutions. This second edition of a powerful introductory book is targeted at busy managers and MBA students who need to grasp the basics of computerized decision support, including the following: What are analytics? What is a decision support system? How can managers identify opportunities to create innovative computerized support? Inside, the author addresses these questions and some 60 more fundamental questions that are key to understanding the rapidly changing realm of computerized decision support. In a short period of time, you'll "get up to speed" on decision support, analytics, and business intelligence.

Written by leading MicroProfile experts, this book provides you with best practices for building enterprise-grade cloud-native applications using MicroProfile 4.1 and running them on Open Liberty with Docker, Kubernetes, and Istio Key Features Apply your knowledge of MicroProfile APIs to develop cloud-native applications Use MicroProfile Health to provide the startup, liveness, and readiness status of your enterprise application Build an end-to-end stock trader project and containerize it to deploy to the cloud with Istio interaction Book Description In this cloud-native era, most applications are deployed in a cloud environment that is public, private, or a combination of both. To ensure that your application performs well in the cloud, you need to build an application that is cloud native. MicroProfile is one of the most popular frameworks for building cloud-native applications, and fits well with Kubernetes. As an open standard technology, MicroProfile helps improve application portability across all of MicroProfile's implementations. Practical Cloud-Native Java Development with MicroProfile is a comprehensive guide that helps you explore the advanced features and use cases of a variety of Jakarta and MicroProfile specifications. You'll start by learning how to develop a real-world stock trader application, and then move on to enhancing the application and adding day-2 operation considerations. You'll gradually advance to packaging and deploying the application. The book demonstrates the complete process of development through to deployment and concludes by showing you how to monitor the application's performance in the cloud. By the end of this book, you will master MicroProfile's latest features and be able to build fast and efficient cloud-native applications. What you will learn Understand best practices for applying the 12-Factor methodology while building cloud-native applications Create client-server architecture using MicroProfile Rest Client and JAX-RS Configure your cloud-native application using MicroProfile Config Secure your cloud-native application with MicroProfile JWT Become well-versed with running your cloud-native applications in Open Liberty Grasp MicroProfile Open Tracing and learn how to use Jaeger to view trace spans Deploy Docker containers to Kubernetes and understand how to use ConfigMap and Secrets from Kubernetes Who this book is for This book is for Java application developers and architects looking to build efficient applications using an open standard framework that performs well in the cloud. DevOps engineers who want to understand how cloud-native applications work will also find this book useful. A basic understanding of Java, Docker, Kubernetes, and cloud is needed to get the most out of this book.

Systems of record (SORs) are engines that generates value for your business. Systems of engagement (SOE) are always evolving and generating new customer-centric experiences and new opportunities to capitalize on the value in the systems of record. The highest value is gained when systems of record and systems of engagement are brought together to deliver insight. Systems of insight (SOI) monitor and analyze what is going on with various behaviors in the systems of engagement and information being stored or transacted in the systems of record. SOIs seek new opportunities, risks, and operational behavior that needs to be reported or have action

taken to optimize business outcomes. Systems of insight are at the core of the Digital Experience, which tries to derive insights from the enormous amount of data generated by automated processes and customer interactions. Systems of Insight can also provide the ability to apply analytics and rules to real-time data as it flows within, throughout, and beyond the enterprise (applications, databases, mobile, social, Internet of Things) to gain the wanted insight. Deriving this insight is a key step toward being able to make the best decisions and take the most appropriate actions. Examples of such actions are to improve the number of satisfied clients, identify clients at risk of leaving and incentivize them to stay loyal, identify patterns of risk or fraudulent behavior and take action to minimize it as early as possible, and detect patterns of behavior in operational systems and transportation that lead to failures, delays, and maintenance and take early action to minimize risks and costs. IBM® Operational Decision Manager is a decision management platform that provides capabilities that support both event-driven insight patterns, and business-rule-driven scenarios. It also can easily be used in combination with other IBM Analytics solutions, as the detailed examples will show. IBM Operational Decision Manager Advanced, along with complementary IBM software offerings that also provide capability for systems of insight, provides a way to deliver the greatest value to your customers and your business. IBM Operational Decision Manager Advanced brings together data from different sources to recognize meaningful trends and patterns. It empowers business users to define, manage, and automate repeatable operational decisions. As a result, organizations can create and shape customer-centric business moments. This IBM Redbooks® publication explains the key concepts of systems of insight and how to implement a system of insight solution with examples. It is intended for IT architects and professionals who are responsible for implementing a systems of insights solution requiring event-based context pattern detection and deterministic decision services to enhance other analytics solution components with IBM Operational Decision Manager Advanced.

IBM® Operational Decision Management (ODM) is a family of products used by IT and business users to create and manage business decision logic throughout their organization. This IBM Redpaper™ publication offers advice on all aspects of performance, including hardware, architecture, authoring, quality of service, monitoring, and tuning. The advice is based upon preferred practices and experience gained from real customer situations. This paper is aimed at a wide ODM audience, including IBM employees and customers, and provides useful information to both new and experienced users. Although the product family is known as IBM WebSphere® Operational Decision Management (WODM), at V8.0, with V8.0.1 the name is now simply IBM Operational Decision Manager (ODM). The performance information in this paper is based on V8.0 of this product family and differences introduced with V8.0.1 are pointed out.

Decision Support, Analytics, and Business Intelligence, Second Edition  
 Discovering the Decisions within Your Business Processes using IBM Blueworks Live  
 6th International Symposium, RuleML 2012, Montpellier, France, August 27-29, 2012. Proceedings  
 A Bibliography of Documents Issued by the GAO on Matters Related to ADP, IRM & Telecommunications  
 A Bibliography of Documents Issued by the GAO on Matters Related to ADP

**IBM® Operational Decision Manager (ODM) is an implementation of a Business Rule Management System (BRMS). It enables you to create, manage, test, and govern business rules and events. You can store these in a central repository where multiple individuals and software products can access them. IBM ODM Version 8.0 provides support for IBM® IMSTM COBOL programs. This IBM Redpaper™ publication walks you through a step-by-step approach for using IBM ODM for rules management from an IMS COBOL MPP, BMP, or DL/IBATCH program.**

**In a world where product lifespans are often measured in months, the IBM® Transaction Processing Facility has remained relevant for more than four decades by continuing to process high volumes of transactions quickly and reliably. As the title of this book suggests, the z/TPF system uses open, standard interfaces to create services. Integration of new applications with existing z/TPF functions is a key factor in extending application capabilities. The ability for service data objects (SDO) to access the z/TPF Database Facility (z/TPDF) provides a framework for data application program development that includes an architecture and application programming interfaces (APIs). SDO access to z/TPDF provides remote client applications with access to z/TPF traditional data. In the simplest terms, service-oriented architecture (SOA) is a means by which Like, or Unlike, systems can communicate with one another despite differences between each system's heritage. SOA can neutralize the differences between systems so that they understand one another. SOA support for z/TPF is a means by which z/TPF can interact with other systems that also support SOA. This book discusses various aspects of SOA in the z/TPF system, including explanations and examples to help z/TPF users implement SOA. IBM WebSphere® Application Server was chosen as the partner system as a means of demonstrating how a world class transaction server and a world class application server can work together. This book shows you how you can exploit z/TPF as a transaction server, participating in a SOA structure alongside WebSphere Application Server. This IBM Redbooks® publication provides an introduction to z/TPF and the technologies critical to SOA. z/TPF is positioned as a provider or consumer in an SOA by supporting SOAP processing, communication bindings, and Extensible Markup Language (XML). An example is used to show how z/TPF can be used both as a Web service provider and as a consumer. A second example shows how to use WebSphere Operational Decision Management to apply business rules. A third example shows how business event processing can be incorporated in z/TPF applications. An example is also used to discuss security aspects, including z/TPF XML encryption and the z/TPF WS-Security wrapper. The main part of the book concludes with a discussion of z/TPF in an open systems environment, including examples of lightweight implementations to fit z/TPF, such as the HTTP server for the z/TPF system. The appendixes include information and examples using TPF Toolkit, sample code, and workarounds (with yes, more examples).**

**Organizations face case management challenges that require insight, responsiveness, and collaboration. IBM® Case Manager, Version 5.2, is an advanced case management product that unites information, process, and people to provide the 360-degree view of case information and achieve optimized outcomes. With IBM Case Manager, knowledge workers can extract critical case information through integrated business rules, collaboration, and analytics. This easy access to information enhances decision-making ability and leads to more successful case outcomes. IBM Case Manager also helps capture industry preferred practices in frameworks and templates to empower business users and accelerate return on investment. This IBM Redbooks® publication introduces the case management concept. It includes the reason for and benefits of case management, and why it is different from the traditional business process management or content management. In addition, this book addresses how you can design and build a case management solution with IBM Case Manager and integrate that solution with external products and components. This book is intended to provide IT architects and IT specialists with the high-level concepts of case management and the capabilities of IBM Case Manager. It also serves as a practical guide for IT professionals who are responsible for designing, building, customizing, and deploying IBM Case Manager solutions.**

**This IBM® Redbooks® publication describes how IBM PureApplication™ System supports the creation of virtual systems and virtual applications. PureApplication System does so using a pattern model that enables you to take advantage of predefined, pre-configured, and proven middleware topologies and deployments. This book also presents an abstraction level that focuses on functional capabilities and applications, completely encapsulating the underlying middleware. It describes in detail the model and the associated frameworks in PureApplication System, as well as a methodology and approach toward designing and implementing a custom pattern model. This book shows concrete implementation examples that you can use when creating your own pattern model, paired with a collection of leading practices. This IBM Redbooks publication gives critical guidance to, and serves as a reference for, independent software vendors (ISVs) who want to create patterns for their packaged applications on PureApplication System. Clients who want to extend and enhance their existing patterns can also use this book.**

**z/TPF Application Modernization using Standard and Open Middleware**

**Technical Abstract Bulletin**

**Programming with C++20**

**2nd International Conference, ICDSST 2016, Plymouth, UK, May 23–25, 2016, Proceedings**

**Business Process Management Design Guide: Using IBM Business Process Manager**

IBM® CICS® Transaction Server (CICS TS) has been available in various guises for over 40 years, and continues to be one of the most widely used pieces of commercial software. This IBM Redbooks® publication helps application architects discover the value of CICS Transaction Server to their business. This book can help architects understand the value and capabilities of CICS Transaction Server and the CICS tools portfolio. The book also provides detailed guidance on the leading practices for designing and integrating CICS applications within an enterprise, and the patterns and techniques you can use to create CICS systems that provide the qualities of service that your business requires.

IBM® Intelligent Operations Center is an integrated solution, and a continually evolving platform and set of capabilities. The platform grows as the capabilities increase over time, and new interfaces and integration points are introduced in each release. The purpose of this IBM Redbooks® publication is to guide planners, architects, and implementers through the options that they have, to take advantage of the new capabilities and maximize the benefits of moving to the new release. This book considers what has already been deployed with IBM Intelligent Operations Center V1.5, the benefits of the new version (IBM Intelligent Operations Center V1.6.0.1), and the best way to take advantage of the new capabilities as you transition. IBM Intelligent Operations Center has several integration and extension points for the previous and current versions of the product, which points are documented and described in this book. This IBM Redbooks publication describes options and considerations for the best way to migrate customizations and benefit from the new architecture. Thorough details about the differences between the prior and new versions of the product are provided, to enable a clear understanding of migration choices, options, and preferred practices. This book includes descriptions of the trade-offs for each migration option, and in-depth information about data flows, available tools, and scripting changes that might affect existing IBM Intelligent Operations Center installations. This book is targeted to the following audiences: Line of business managers or stakeholders who are interested in understanding the new features in IBM Intelligent Operations Center V1.6, and who are looking for information about how to plan the migration of their current IBM Intelligent Operations Center V1.5 environments. Architects who need to understand the effect that IBM Intelligent Operations Center V1.6 will have on the architecture of IBM Intelligent Operations Center V1.5 solutions. IT specialists and product specialists who are responsible for implementing the migration of a solution based on IBM Intelligent Operations Center V1.5 to a V1.6 solution. Readers of this book will benefit from the IBM Redbooks publication IBM Intelligent Operations Center 1.6 Programming Guide, SG24-8201.

This IBM® Redbooks® publication provides operations teams with architectural design patterns and guidelines for the day-to-day challenges that they face when managing their IBM Business Process Manager (BPM) infrastructure. Today, IBM BPM L2 and L3 Support and SWAT teams are constantly advising customers how to deal with the following common challenges: Deployment options (on-premises, patterns, cloud, and so on) Administration DevOps Automation Performance monitoring and tuning Infrastructure management Scalability High Availability and Data Recovery Federation This publication enables customers to become self-sufficient, promote consistency and accelerate IBM BPM Support engagements. This IBM Redbooks publication is targeted toward technical professionals (technical support staff, IT Architects, and IT Specialists) who are responsible for meeting day-to-day challenges that they face when they are managing an IBM BPM infrastructure.

Making Better Decisions Using IBM WebSphere Operational Decision Management IBM Redbooks

Decision Support Systems

Optimization and Decision Support Design Guide: Using IBM ILOG Optimization Decision Manager

Flexible Decision Automation for Your Zenterprise With Business Rules and Events

Rules on the Web: Research and Applications

A Practical Guide to Using Business Rules and Predictive Analytics

"A very rich book sprinkled with real-life examples as well as battle-tested advice." —Pierre Haren, VP ILOG, IBM "James does a thorough job of explaining Decision Management Systems as enablers of a formidable business transformation." —Deepak Advani, Vice President, Business Analytics Products and SPSS, IBM Build Systems That Work Actively to Help You Maximize Growth and Profits Most companies rely on operational systems that are largely passive. But what if you could make your systems active participants in optimizing your business? What if your systems could act intelligently on their own? Learn, not just report? Empower users to take action instead of simply escalating their problems? Evolve without massive IT investments? Decision Management Systems can do all that and more. In this book, the field's leading expert demonstrates how to use them to drive unprecedented levels of business value. James Taylor shows how to integrate operational and analytic technologies to create systems that are more agile, more analytic, and more adaptive. Through actual case studies, you'll learn how to combine technologies such as predictive analytics, optimization, and business rules to improve customer service, reducing fraud, managing risk, increasing agility, and driving growth. Both a practical how-to guide and a framework for planning, Decision Management Systems focuses on mainstream business challenges. Coverage includes Understanding how Decision Management Systems can transform your business Planning your systems (with the decision in mind) Identifying, modeling, and prioritizing the decisions you need to optimize Designing and implementing robust decision services Monitoring your ongoing decision-making and learning how to improve it Proven enablers of effective Decision Management Systems: people, process, and technology Identifying and overcoming obstacles that can derail your Decision Management Systems initiative

The IBM® Operational Decision Manager product family provides value to organizations that want to improve the responsiveness and precision of automated decisions. This decision management platform on IBM z/OS® provides comprehensive automation and governance of operational decisions that are made within mainframe applications. These decisions can be shared with other cross-platform applications, providing true enterprise decision management. This IBM Redbooks® publication makes the case for using Operational Decision Manager for z/OS and provides an overview of its components. It is aimed at IT architects, enterprise architects, and development managers looking to build rule-based and business event-based solutions. Step-by-step guidance is provided about getting started with business rules and creating business events by using a scenario-based approach.

This book provides detailed guidelines for testing and simulation and describes advanced options for decision authoring. Finally, it describes and documents multiple runtime configuration options. This second edition, SG24-8014-01, of this IBM Redbooks publication updated the information presented in this book to reflect function available in IBM Operational Decision Manager for z/OS Version 8.0.1. It is also important to note that the product name has changed from IBM WebSphere Operational Decision Management for z/OS to IBM Operational Decision Manager for z/OS.

This IBM® Redbooks® publication demonstrates, through a practical solution and step-by-step implementation instructions, how customers can use the IBM Rational® Application Lifecycle Management (ALM) portfolio to build and manage an integrated IBM WebSphere® Application. Building a business application (mobile and desktop) that uses WebSphere Application Server, IBM MQ, IBM Integration Bus (IB), Business Process Management (BPM), Operational Decision Management (ODM), and Mobile. IBM Redpaper™ publication, Rapid deployment of integrated WebSphere solutions in your cloud, REDP-5132, is an extension to this IBM Redbooks publication. Using the same practical solution covered in this Redbooks publication, REDP-5132 demonstrates how the IBM PureApplication® System is a "logical extension" versus a "whole new world", covering PureApplication Patterns and the new PureApplication as a service on Softlayer. The intended audience for this book is architects, developers, administrators, and DevOps personnel.

The IBM® Operational Decision Manager product family provides value to organizations that want to improve the responsiveness and precision of automated decisions. This decision management platform on IBM z/OS® provides comprehensive automation and governance of operational decisions that are made within mainframe applications. These decisions can be shared with other cross-platform applications, providing true enterprise decision management. This IBM Redbooks® publication makes the case for using Operational Decision Manager for z/OS and provides an overview of its components. It is aimed at IT architects, enterprise architects, and development managers looking to build rule-based solutions. Step-by-step guidance is provided about getting started with business rules by using a scenario-based approach. This book provides detailed guidelines for testing and simulation and describes advanced options for decision authoring. Finally, it describes and documents multiple runtime configuration options. This third edition, SG24-8014-02, of this IBM Redbooks publication updated the information presented in this book to reflect function available in IBM Operational Decision Manager for z/OS Version 8.7.1.

Implementing an Advanced Application Using Processes, Rules, Events, and Reports

Creating Composite Application Pattern Models for IBM PureApplication System

Flexible Decision Management with Business Rules on IBM z Systems

Machine Learning with Business Rules on IBM Z: Acting on Your Insights

Streaming Analytics with IBM Streams

This IBM® Redbooks® publication introduces operational decision governance and describes in detail how to implement it using the IBM Operational Decision Manager (ODM) platform. ODM allows businesses to automate and manage day-to-day operational decisions. It provides an integrated repository and management components for line-of-business, subject-matter experts to directly participate in the definition and governance of rules-based decision logic, organized in decision services. Governance of changes to decision services is of particular importance and value. This book describes how organizations can choose between the built-in ODM decision governance framework or a custom governance based on manually managed branches. Related topics, such as access control, permissions and user management, are covered and give a full view on decision service governance. You will find this book valuable if you are using or considering the usage of an operational decision management system in your organization, either with ODM on-premises or ODM on Cloud offerings. This book was written to help assist the following target audience in applying Decision Management technology successfully: IT Project Managers need to understand how decision governance differs from IT Governance, and how ODM straddles both worlds to facilitate agile change. IT Technical Architects need to understand how to architect ODM to sit inside both the IT and business worlds. Business Analysts need to understand the processes for changing business policies using ODM Decision Center. Business Rule Development Teams need to understand the best way to structure rule projects for scalability and maintainability.

Decision management is emerging as an important capability for delivering agile business solutions. Decision management is not a solution in its own right, but must be integrated into the solutions or business processes that it supports. In this IBM® Redpapers™ publication, we describe the recommended best practices and integration concepts that use the business events, business rules, and other capabilities of IBM WebSphere® Operational Decision Management V7.5 (WebSphere ODM) to provide better decision making in those solutions and business processes.

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IBM Operational Decision Management V8.0 Performance Tuning Guide

Flexible Decision Automation for Your ZEnterprise with Business Rules and Events

Event Processing with CICS