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# Oracle GoldenGate 11g Implementer's guide

Design, install, and configure high-performance data replication  
solutions using Oracle GoldenGate

*Foreword by Dr. Volker Kuhr, Oracle Advanced Customer Support,  
Team Leader for Distributed Databases*

**John P. Jeffries**

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# Oracle Goldengate 11g Implementers Guide

**John P. Jeffries**



## **Oracle Goldengate 11g Implementers Guide:**

**Oracle GoldenGate 11g Implementer's Guide** John P. Jeffries, 2011  
John P. Jeffries, 2011-02-22 Design install and configure high performance data replication solutions using Oracle GoldenGate with this book and eBook

**Oracle GoldenGate 12c Implementer's Guide** John P. Jeffries, 2015-07-27 GoldenGate exchanges data among systems in a timely manner and meets the demand for real time access to information regardless of volume The new release 12c includes an optimized database intelligent and integrated delivery capabilities expanded heterogeneity and tighter security Perform zero downtime data migration to on premise or public cloud with GoldenGate s feature rich portfolio Start with the installation and learn the design concepts and enhanced configuration of GoldenGate 12c Exploit new 12c features to successfully implement GoldenGate on your enterprise Dive deep into configuring GoldenGate for high availability DDL support and reverse processing Build fast secure robust scalable technical solutions by tuning data delivery and networks Finally enrich your data replication knowledge by learning the troubleshooting tips

**Oracle GoldenGate 11g Handbook** Robert G. Freeman, 2013-06-05 Master Oracle GoldenGate 11g Enable highly available real time access to enterprise data in heterogeneous environments Featuring hands on workshops Oracle GoldenGate 11g Handbook shows you how to install configure and implement this high performance application You ll learn how to replicate data across Oracle databases and other platforms including MySQL and Microsoft SQL Server and perform near zero downtime migrations and upgrades Monitoring performance tuning and troubleshooting are also discussed in this Oracle Press guide Install and configure Oracle GoldenGate Implement Oracle GoldenGate one way replication Configure multitarget and cascading replication Use bidirectional replication to build a heterogeneous database infrastructure Secure your environment control and manipulate data and prevent errors Configure Oracle GoldenGate for Oracle Clusterware and Oracle Real Application Clusters Use Oracle GoldenGate with MySQL and Microsoft SQL Server Perform near zero downtime upgrades and migrations Use Oracle GoldenGate Monitor and Oracle GoldenGate Director Ensure data quality with Oracle GoldenGate Veridata Implement nondatabase integration options

**Oracle Goldengate 12c Implementer's Guide** John Parsons Jeffries, 2015 The book is aimed at Oracle database administrators project managers and solution architects who wish to extend their knowledge of GoldenGate The reader is assumed to be familiar with Oracle databases No knowledge of GoldenGate is required

**Oracle Business Intelligence Applications: Deliver Value Through Rapid Implementations** Simon Miller, William Hutchinson, 2013-07-05 Implement Oracle Business Intelligence Applications Provide actionable business intelligence across the enterprise to enable informed decision making and streamlined business processes Oracle Business Intelligence Applications Deliver Value Through Rapid Implementations shows how to justify configure customize and extend this complete package of BI solutions You ll get a technical walkthrough of Oracle Business Intelligence Applications architecture from the dashboard to the data source followed by best practices for maximizing the

powerful features of each application You will also find out about stakeholders critical to project approval and success Optimize performance using Oracle Exalytics In Memory Machine Deliver timely financial information to managers with Oracle Financial Analytics Enable a streamlined demand driven supply chain via Oracle Supply Chain and Order Management Analytics Provide end to end visibility into manufacturing operations with Oracle Manufacturing Analytics Optimize supply side performance through Oracle Procurement and Spend Analytics Use Oracle Human Resources Analytics to provide key workforce information to managers and HR professionals Track the costs and labor required to maintain and operate assets with Oracle Enterprise Asset Management Analytics Maintain visibility into project performance via Oracle Project Analytics Provide actionable insight into sales opportunities using Oracle Sales Analytics Enable superior customer service with Oracle Service Analytics

**Oracle 11g Streams Implementer's Guide** Ann L. R. McKinnell, Eric Yen, 2010-01-19 Annotation From smaller businesses through to huge enterprises \_ users all over the world often require access to data 24 hours a day Distributed database systems proliferate the world of data sharing providing an ability to access real time data anywhere anytime Oracle Streams a built in feature of the Oracle database is a data replication and integration feature critical to the success and wellbeing of enterprises in today s fast moving economy This book provides the reader with solid techniques to master Oracle Streams technology and successfully deploy distributed database systems This book quickly goes over the basics and gets you up and running with a simple Oracle 11g Streams environment It will serve as an excellent companion to the Oracle Streams Administration Guide It is intended for Oracle database architects and administrators and provides in depth discussion on must know information for the design implementation and maintenance of an Oracle Streams environment The book does not attempt to regurgitate all the information in the Oracle Streams Administration Guides but rather provides additional clarification and explanation of design implementation and troubleshooting concepts that are often elusive in Streams documentation It also identifies helpful tools and Oracle resources to add to your knowledge base as well as tried and tested tricks and tips to help you tame Oracle Streams The book starts by introducing and explaining the components of Oracle Streams and how they work together It then moves on logically helping you to determine your distributed environment requirements and design your Streams implementation to meet those requirements Once these concepts are discussed the book moves to configuration and basic implementation examples to help solidify those concepts It then addresses advanced features such as tags down stream capture and conflict resolution You then move on to maintenance techniques such as documenting the environment effectively planning and implementing changes to the environment and monitoring and troubleshooting the environment When you have studied the techniques and completed the hands on examples you will have an understanding of Oracle Streams core concepts and functionally that will allow you to successfully design implement and maintain an Oracle Streamed environment

**Oracle Goldengate 11g Complete Cookbook** Ankur Gupta, 2013-09-25 Oracle Goldengate 11g Complete Cookbook follows the Cookbook style Each

recipe provides step by step instructions with various examples and scripts This book provides the necessary information to successfully complete most of the possible administration tasks Oracle Goldengate 11g Complete Cookbook is aimed at Database Administrators Architects and Middleware Administrators who are keen to know more about Oracle Goldengate Whether you are handling Goldengate environments on a day to day basis or using it just for migration this book provides the necessary information required to successfully complete your administration tasks The reader is expected to have some knowledge of Oracle databases

**Oracle Goldengate 12c** Fawzi Alswaimil, 2017-06-02 This book covers Oracle Database 11g Oracle Database 12c MySQL and Microsoft SQL Server It includes related Oracle Database features for readers trying to prototype or implement Oracle GoldenGate What you will learn from the book Oracle GoldenGate fundamentals modular architecture flexible and scalable configuration and installation options This is the foundation for all new Oracle GoldenGate users Oracle GoldenGate initial data load techniques for a heterogeneous environment including initial load using the Recovery Manager RMAN suitable for a VLDB environment Learn how to configure Oracle GoldenGate instance for query offloading Reports are diverted to an Oracle Database instance for an operational Data Warehouse running 10x faster Find out how to configure Oracle GoldenGate for high availability using bi directional topology Learn how to implement internal and user defined Conflict Detection and Resolution CDR necessary to operate active active Oracle GoldenGate environments Deployment of Oracle GoldenGate Veridata Installation and configuration of the Repository Installation and configuration of the agent on source and target systems Configuration of Oracle GoldenGate to determine Out Of Sync tables Use of Oracle GoldenGate for performing Near Zero Downtime Upgrade Migration Learn the use of the Recovery Manager RMAN cloning to prepare the database for upgrade Learn how to configure Oracle GoldenGate on a heterogeneous environment composed of Oracle Database 12c Non CDB MySQL and Oracle Database 12c CDB Learn how to use Oracle GoldenGate performing data transformation for the operational data store Learn how to install configure and use Oracle GoldenGate Management Pack Learn in depth about Oracle GoldenGate Director and Oracle GoldenGate Monitor Integration of Oracle GoldenGate with Oracle Data Guard Migration from Oracle Streams to Oracle GoldenGate Configuration of Oracle GoldenGate for best performance using Integrated Capture and intermediate systems Learn how to Configure Data Definition Language DDL replication

**Expert Oracle GoldenGate** Ben Prusinski, Steve Phillips, Shing Chung, 2011-10-07 Expert Oracle GoldenGate is a hands on guide to creating and managing complex data replication environments using the latest in database replication technology from Oracle GoldenGate is the future in replication technology from Oracle and aims to be best of breed GoldenGate supports homogeneous replication between Oracle databases It supports heterogeneous replication involving other brands such as Microsoft SQL Server and IBM DB2 Universal Server GoldenGate is high speed bidirectional highly parallelized and makes only a light impact on the performance of databases involved in replication The authors share their experience in the form of tutorials on designing and implementing all types of Oracle GoldenGate environments You ll learn

methods for tuning Oracle GoldenGate performance You ll discover GoldenGate s utility as a migration and extract transform load ETL tool You ll learn to configure highly available environments involving GoldenGate Real Application Clusters and Data Guard From installation to design to implementation and troubleshooting Expert Oracle GoldenGate helps you master all aspects of using and applying Oracle GoldenGate as the replication tool of choice in your environment Explains all aspects of using GoldenGate for replication Covers homogeneous heterogeneous and bidirectional replication Shows the use of GoldenGate for data migration and extract transform load ETL      Oracle Database 12c The Complete Reference Bob Bryla, Kevin Loney, 2013-08-05 Master the Cutting Edge Features of Oracle Database 12c Maintain a scalable highly available enterprise platform and reduce complexity by leveraging the powerful new tools and cloud enhancements of Oracle Database 12c This authoritative Oracle Press guide offers complete coverage of installation configuration tuning and administration Find out how to build and populate Oracle databases perform effective queries design applications and secure your enterprise data Oracle Database 12c The Complete Reference also contains a comprehensive appendix covering commands keywords features and functions Set up Oracle Database 12c or upgrade from an earlier version Design Oracle databases and plan for application implementation Construct SQL and SQL Plus statements and execute powerful queries Secure data with roles privileges virtualization and encryption Move data with SQL Loader and Oracle Data Pump Restore databases using flashback and the Oracle Database Automatic Undo Management feature Build and deploy PL SQL triggers procedures and packages Work with Oracle pluggable and container databases Develop database applications using Java JDBC and XML Optimize performance with Oracle Real Application Clusters      **Pro Oracle GoldenGate for the DBA** Bobby Curtis, 2016-08-24 Take a simple approach to learning the Oracle GoldenGate product This approach provides the in depth perspective of GoldenGate from an implementer s viewpoint however also addresses why the management viewpoint is important as well Your journey through this book includes and architecture discussion of GoldenGate and the benefits of purchasing GoldenGate from a management perspective Then the book quickly moves into advanced implementation components associated with GoldenGate You ll find many use cases and instructions throughout the book to help with everything from easy to complex GoldenGate implementations An Oracle GoldenGate implementation generally consists of a group project involving both business and technical resources Pro Oracle GoldenGate for the DBA provides the viewpoint from the DBA s vantage point This approach provides the components of who what why when and how in defining the implementation and support of a GoldenGate project The success of most technical projects require the support of multiple resource groups and Pro Oracle GoldenGate for the DBA supplies the insight for the DBA member to understand the implementation and support process Takes you through justification installation and support Provides the DBA perspective toward a successful a result Covers from basic toward increasingly advanced implementations What You Will Learn Understand the core architecture of data replication using Oracle GoldenGate Implement a one way setup of a classic

capture and an integrated capture and replication Design architect and implement a multi master replication model Replicate unsupported data types using tokens Manage and troubleshoot multiple GoldenGate implementations New features of GoldenGate supported in Oracle 12c Who this Book is For Pro Oracle GoldenGate for the DBA is aimed squarely at Oracle database administrators who find themselves involved in GoldenGate integration projects The book provides the DBA view into such projects helping database administrators toward successful implementations and solid business results

*Mastering Oracle GoldenGate* Ravinder Gupta, 2016-11-01 Master Oracle GoldenGate technology on multiple database platforms using this step by step implementation guide Learn about advanced features to use in building a robust high availability replication system Provided are detailed illustration of Oracle GoldenGate concepts GoldenGate tools and add ons as well as illustrative examples The book covers Oracle GoldenGate for Oracle database and also discusses setup and configuration for other common databases such as IBM DB2 SYBASE ASE MySQL and Microsoft SQL Server The technology landscape is fast changing and Mastering Oracle GoldenGate stays current by covering the new features included in Oracle GoldenGate 12c The book covers both classic capture and integrated capture as well as delivery Also covered are Oracle GoldenGate security and performance tuning to keep your system secure and performing at its best You will learn to monitor your GoldenGate system using tools that come with Oracle GoldenGate management pack as well as using shell scripts Troubleshooting is well illustrated with examples Covering Oracle GoldenGate technology across common database brands Discussing high performing and secure replication environments Speaking to replication in Big Data and cloud computing environments What You Will Learn Implement Oracle GoldenGate for real time replication Secure and tune your replication environment for high performance Administer your Oracle GoldenGate environment Learn troubleshooting approaches with help of examples Make use of GoldenGate Management Pack and its API Feed live data into Big Data and cloud based systems Who This Book Is For Database professionals who have chosen to ride the Oracle GoldenGate roller coaster for real time replication solutions The book is for beginners as well as professionals who are willing to master the leading replication technology in the industry It is an excellent choice for professionals who are implementing or maintaining Oracle GoldenGate replication environments on any of the major database management system platforms **Zero Downtime Database**

**Upgrade and Active Active Replication Using Oracle GoldenGate 11g Release 2** Kashif Aslam, 2012-07-12 A Must Have Guide for using Oracle GoldenGate in Oracle Database Upgrade and Bi Directional Replication Projects Harness the power of Oracle GoldenGate 11gR2 robust tool and use Oracle GoldenGate for your next Database Upgrade Project or for your High Availability requirements Your next Oracle Database Upgrade project should not be nerve wrecking and scary rather you can perform your Oracle Database Upgrade without extensive downtime with full end to end functional and performance testing capabilities Moreover Oracle GoldenGate provides you rollback capabilities like none other in case of a failed Database Upgrade If you are planning to implement High Availability or Disaster Recovery solution you can utilize Oracle GoldenGate

Bi directional capabilities to not only provide you High Availability and Disaster Recovery solution but also enable you to use your other database for Read Write activity for better utilization of resources Written by Kashif Aslam who himself has performed multiple database upgrades using Oracle GoldenGate and also has implemented multiple Oracle GoldenGate replication projects including 4 way Multi Master Active Active replication this book provides step by step instructions with screenshots and sample codes to fully enable you to perform Oracle database Upgrade using Oracle GoldenGate and also setup Active Active Bi Directional replication along with detailed examples of configuring conflict detection and resolution methodologies

*Maximum Availability Architecture (MAA) with Oracle GoldenGate MicroServices in HUB Architecture*

Lucia Hustatyova, 2023-09-25 A step by step guide for designing implementing and managing Oracle GoldenGate with HUB Architecture

**KEY FEATURES** Learn how to use the REST API command line solutions and web interface to manage Oracle GoldenGate Microservices Architecture Configure Oracle GoldenGate Microservices for disaster recovery and high availability architecture Learn how to monitor and troubleshoot Oracle GoldenGate Microservices Architecture

**DESCRIPTION** Oracle GoldenGate is a software product that allows you to replicate data from one database to another If you are interested in using Oracle GoldenGate Microservices OGG MA in HUB configuration for database upgrade migration and data replication then this book is a valuable resource for you This book provides a step by step guide for designing and implementing an Oracle GoldenGate Microservices architecture in a hub configuration with high availability HA and disaster recovery DR capabilities It begins by explaining the architecture of Oracle GoldenGate Microservices and then provides real world examples of how it can be used to upgrade or migrate databases replicate data and monitor the environment Moving on the book includes detailed instructions on how to install and configure Oracle GoldenGate Microservices as well as how to use the REST API command line and web interface to manage the solution Lastly the book provides a practical example of how the architecture can be used to achieve HA and DR for data replication By the end of the book you will be a confident and knowledgeable OGG MA user who is able to design implement and manage Oracle GoldenGate Microservices Architecture solutions for your organization

**WHAT YOU WILL LEARN** Understand the architectural design of OGG MA in HUB configuration using ACFS Set up monitoring for OGG MA with Oracle Cloud Control Use the REST API in OGG for automation Check and verify data consistency with Veridata Perform patching without extended downtime by using high availability capabilities Learn how to handle errors during data replication in ACFS or OGG extract replicat processes

**WHO THIS BOOK IS FOR** This book is for technical professionals database administrators and engineers who want complete control over their Oracle GoldenGate Microservices environment

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REST API for Automation 8 Bi Directional Replication Setup OGG in HUB Architecture Setup and Preparation 9 Bi Directional Replication Setup OGG in HUB Architecture 10 Monitoring OGG in HUB Architecture Setup Veridata 11 Monitoring OGG in HUB Architecture Execute Veridata and Configure Cloud Control 12 Patching Oracle OGG in HUB Architecture 13 Troubleshooting OGG in HUB Architecture 14 Disaster Recovery Setup OGG in HUB Architecture *Oracle GoldenGate 12C Certified Implementation Specialist Certification Prep Guide : 350 Questions & Answers* CloudRoar Consulting Services,2025-08-15 Prepare for the Oracle GoldenGate 12C Certified Implementation Specialist exam with 350 questions and answers covering data replication configuration monitoring performance tuning troubleshooting and integration best practices Each question includes practical examples and explanations to ensure exam readiness Ideal for database administrators and data replication specialists OracleGoldenGate DataReplication Configuration Monitoring PerformanceTuning Troubleshooting Integration ExamPreparation TechCertifications ITCertifications CareerGrowth ProfessionalDevelopment DBASkills OracleDB ITSkills **Working with Oracle GoldenGate 12c** Gavin Powell,2019-01-25 This book teaches the basics of Oracle GoldenGate which is a product that is used to simplify the process of Oracle Database Replication GoldenGate can be used for reporting failover high availability live reporting data warehousing and BigData ETL process as well as connecting to multiple other data sources outside of Oracle Database such as SQL Server MySQL Teradata PostgreSQL and many others The purpose of GoldenGate and its popularity is its ability to make the highly complex architecture of database replication into a much more simplistic task This book teaches the reader how to use Oracle GoldenGate from installation to troubleshooting *Oracle GoldenGate With Microservices* Y. V. Ravi Kumar,Mariami Kupatadze,Konstantin Kerekovski,Tridib Das,2020-02-20 A step by step guide to practising Oracle GoldenGate High Availability HA options Microservices and Real Time downstream techniques \_DESCRIPTION The book starts with a brief introduction about Oracle GoldenGate with Microservices and how to configure high availability using various methods Oracle GoldenGate Microservices Architecture MA is a similar architecture based on REST APIs which enable us to configure monitor and manage Oracle GoldenGate services using a web based user interface Each module supports a specific business goal and uses a simple lightweight and well defined interface to communicate with other sets of services Oracle GoldenGate can interact with custom conflict resolution routines that customers write to satisfy their business rules KEY FEATURES Understand how and when they re used classic Vs Microservices Learn how to use real time downstream methods based on the environment Learn how to solve Oracle GoldenGate OGG Conflict Detection and Resolution CDR in bi directional active replication Learn how to implement high availability for mission critical systems using Oracle GoldenGate XAG components Learn how to set up bi directional replication between pluggable databases PDBs in a multi tenant environment Learn how to use differently typed of replicates in pluggable databases PDBs in a multi tenant environment WHAT WILL YOU LEARN By the end of the book you will come across a few case studies about how to use Microservices Kubernetes REST APIs in Oracle

GoldenGate and How to monitor Oracle GoldenGate processes in real time environments This book also helps how to use various file systems like ACFS DBFS and NFS in high availability for Oracle GoldenGate WHO THIS BOOK IS FOR This book is intended for anyone looking for how to set up and configure Uni directional Bi directional replication in mission critical environments either using classic Oracle GoldenGate OR Oracle GoldenGate with Microservices This book also helps various methods to implement real time downstream techniques Table of Contents 1 Introduction to Oracle GoldenGate HA XAG Components 2 Extract and Replicat in Multitenant Environment 3 Consolidated and Cascaded Oracle GoldenGate 4 Introduction to Oracle GoldenGate Methodologies 5 Introduction to Oracle GoldenGate Utilities 6 Bi Directional Replication with Conflict Detection and Resolution CDR 7 Bi directional Replication with Pluggable Databases PDBs in Multitenant Environment 8 Real Time Downstream Database with Multiple Scenarios 9 Oracle GoldenGate Microservices Architecture overview 10 Managing Oracle GoldenGate and Kubernetes 11 Automation Recipes Via Rest APIs 12 Oracle GoldenGate Tuning and Troubleshooting

**Beginning Oracle GoldenGate** Hank Tullis,Paul Elbow,Chaitanya R. Geddam,2015-03-18

Beginning Oracle GoldenGate provides an introduction to Oracle GoldenGate from an implementer s viewpoint The book helps in the implementation of GoldenGate as a tool for moving data in all types of use cases from a simple database copy to high performance replication in real time within an active active scenario The book takes a hands on example based approach with an emphasis on the advanced implementation components that make up so much of the power and capability that GoldenGate offers A GoldenGate implementation generally consists of a group project involving both business and technical resources First a business case must be built showing a proper justification and return on investment Then comes a planning phase and that s followed by implementation and actual use of the tool Beginning Oracle GoldenGate begins from the beginning by helping you make the business case Next the book guides you through the subsequent installation configuration and operation of the product Beginning Oracle GoldenGate helps you learn to replicate using classic capture and integrated capture You ll learn about one way and multi master replication Along the way you ll learn about the GoldenGate Manager and about the Extract and Pump processes and when to use them You ll learn some critical points about the oft overlooked task of creating the target database for a replication process You ll learn about basic maintenance security and types of storage Coverage is also given to metrics reporting and troubleshooting Takes you through justification installation and support Provides multiple perspectives on each implementation approach Starts with basic and discusses more advanced implementations What you ll learn Implement classic capture in a one way setup Build integrated capture and replication scenarios Design architect and implement a multi master replication model Perform heterogeneous replication between multiple database architectures Replicate unsupported data types using tokens Manage and troubleshoot multiple GoldenGate implementations Who this book is for Beginning Oracle GoldenGate is aimed at technical architects database administrators and others who are tasked with implementing data movement across large enterprises Data and its flow are

like blood moving through the veins of the enterprise This is the one must have book for those whose job it is to create and manage that life giving flow of information within a successful business     *Instant Oracle GoldenGate* Tony

Bruzzese,2013-01-01 Filled with practical step by step instructions and clear explanations for the most important and useful tasks Get the job done and learn as you go A how To book with practical recipes accompanied with rich screenshots for easy comprehension This is a Packt Instant How to guide which provides concise and clear recipes for performing the core task of replication using Oracle GoldenGate The book is aimed at DBAs from any of popular RDBMS systems such as Oracle SQL Server Teradata Sybase and so on The level of detail provides quick applicability to beginners and a handy review for more advanced administrators

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, **Oracle Goldengate 11g Implementers Guide** . This immersive experience, available for download in a PDF format ( PDF Size: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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