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# Oracle® Application Express Security

BUILDING SECURE  
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# Hands On Oracle Application Express Security Building Secure Apex Applications

**Francis Mignault, Luc Demanche**



## **Hands On Oracle Application Express Security Building Secure Apex Applications:**

Hands-On Oracle Application Express Security Recx,2013-04-09 An example driven approach to securing Oracle APEX applications As a Rapid Application Development framework Oracle Application Express APEX allows websites to easily be created based on data within an Oracle database Using only a web browser you can develop and deploy professional applications that are both fast and secure However as with any website there is a security risk and threat and securing APEX applications requires some specific knowledge of the framework Written by well known security specialists Recx this book shows you the correct ways to implement your APEX applications to ensure that they are not vulnerable to attacks Real world examples of a variety of security vulnerabilities demonstrate attacks and show the techniques and best practices for making applications secure Divides coverage into four sections three of which cover the main classes of threat faced by web applications and the forth covers an APEX specific protection mechanism Addresses the security issues that can arise demonstrating secure application design Examines the most common class of vulnerability that allows attackers to invoke actions on behalf of other users and access sensitive data The lead by example approach featured in this critical book teaches you basic hacker skills in order to show you how to validate and secure your APEX applications E-Book Only Hands-on Oracle Application Express Security Austwick,2013 Oracle Application Express for Mobile Web Applications Roel Hartman,Christian Rokitta,David Peake,2013-06-12 Oracle Application Express for Mobile Web Applications is an action driven book taking you by the hand through all required steps in building your very own web application that will run on phones tablets and other mobile devices Because you ve built every piece of it yourself you will know exactly how every tiny part is used and how you can tweak it to your own or your customer s taste Oracle Application Express is widely known in the Oracle community as a great tool for creating web applications suitable for desktop browsers Features have now been added to open up the world of mobile browsing bringing the simplicity and expressiveness of Application Express to bear in developing applications to run with an almost native look and feel on platforms such as iOS Android and Windows Phone Oracle Application Express for Mobile Web Applications helps you translate your knowledge of Oracle Application Express into developing for mobile devices The book and its running example provide all the knowledge you need to create professional looking mobile web applications Takes you through building a mobile web application from start to finish Gives insight into the components necessary for a professional looking mobile application Helps you become an even better and more all round Oracle Application Express developer **Oracle Application Express by Design** Patrick Cimolini,2017-11-01 Learn the many design decisions that must be made before starting to build a large Oracle Application Express APEX application for the cloud or enterprise One of APEX s key strengths is the fact that it is a Rapid Application Development RAD tool This is also a major weakness when it tempts developers to start coding too soon Small applications that consist of tens of pages can be coded without a lot of design work because they can be re factored quickly when design

flaws are discovered Design flaws in large cloud and enterprise applications that consist of hundreds or thousands of pages are not so easy to re factor due to the time needed to redevelop and retest the application not to mention the risk of breaking functionality in subtle ways Designing a large application before coding starts is a profitable exercise because a thoughtful design goes a long way in mitigating cost overruns and schedule slippage while simultaneously enhancing quality This book takes into account perspectives from other non developer stakeholders such as maintenance developers business analysts testers technical writers end users and business owners Overlooking these perspectives is one of the chief causes of expensive rework late in the development cycle Oracle Application Express by Design illustrates APEX design principles by using architecture diagrams screen shots and explicit code snippets to guide developers through the many design choices and complex interrelationship issues that must be evaluated before embarking on large APEX projects This book Guides you through important up front APEX design decisions Helps you to optimize your design by keeping all stakeholders in mind Explicit code examples show how design impacts cost schedule and quality What You Will Learn Pick and choose from the list of designs before coding begins Bake optimal quality into the underlying fabric of an APEX application Think and design from outside the developer s narrow perspective Optimize APEX application designs to satisfy multiple stakeholder groups Evaluate design options through hands on explicit code examples Define and measure success for large cloud and enterprise APEX applications Who This Book Is For APEX developers and development teams

**Expert Oracle Application Express Security** Scott Spendolini,2013-06-28 Expert Oracle Application Express Security covers all facets of security related to Oracle Application Express APEX development From basic settings that can enhance security to preventing SQL Injection and Cross Site Scripting attacks Expert Oracle Application Express Security shows how to secure your APEX applications and defend them from intrusion Security is a process not an event Expert Oracle Application Express Security is written with that theme in mind Scott Spendolini one of the original creators of the product offers not only examples of security best practices but also provides step by step instructions on how to implement the recommendations presented A must read for even the most experienced APEX developer Expert Oracle Application Express Security can help your organization ensure their APEX applications are as secure as they can be

**Oracle Application Express: Build Powerful Data-Centric Web Apps with APEX** Arie Geller,Brian Spendolini,2017-05-05 Develop Robust Modern Web Applications with Oracle Application Express Covers APEX 5.1 Easily create data reliant web applications that are reliable scalable dynamic responsive and secure using the detailed information contained in this Oracle Press guide Oracle Application Express APEX Build Powerful Data Centric Web Apps with APEX features step by step application development techniques real world coding examples and best practices You will find out how to work with the App Builder and Page Designer use APEX themes responsive and mobile included templates and wizards and design and deploy custom web apps New and updated features in APEX 5.0 5.1 are thoroughly covered and explained Understand APEX concepts and programming fundamentals Plan and control the

development cycle using HLD techniques Use APEX themes and templates including Universal Theme Use APEX wizards to rapidly build forms and reports on database tables Build modern dynamic and interactive user interface using the Page Designer Increase user experience using Dynamic Actions Ajax included Build and utilize the new APEX 5.1 Interactive Grid Implement App Logic with APEX computations validations and processes Use automatic built in and manual DML to manipulate your data Handle security at browser application and database levels Successfully deploy the developed APEX apps

**Applied Oracle Security: Developing Secure Database and Middleware Environments** David Knox, Scott Gaetjen, Hamza Jahangir, Tyler Muth, Patrick Sack, Richard Wark, Bryan Wise, 2009-11-05 Cutting edge techniques from leading Oracle security experts This Oracle Press guide demonstrates practical applications of the most compelling methods for developing secure Oracle database and middleware environments You will find full coverage of the latest and most popular Oracle products including Oracle Database and Audit Vaults Oracle Application Express and secure Business Intelligence applications Applied Oracle Security demonstrates how to build and assemble the various Oracle technologies required to create the sophisticated applications demanded in today's IT world Most technical references only discuss a single product or product suite As such there is no roadmap to explain how to get one product product family or suite to work with another This book fills that void with respect to Oracle Middleware and Database products and the area of security

**Oracle Application Express Administration** Francis Mignault, Luc Demanche, 2016-10-22 Succeed in managing Oracle Application Express APEX environments This book focuses on creating the right combination of scalability high availability backup and recovery integrity and resource control The book covers everything from simple to enterprise class deployments with emphasis on enterprise level requirements and coverage of cloud and hybrid cloud scenarios Many books cover how to develop applications in Oracle APEX It's a tool with a fast growing user base as developers come to know how quick and easy it is to create new applications that run in a browser However just getting an application off the ground is only a small part of a bigger picture Applications must be supported They must be available when users need them They must be robust against disaster and secure against malicious attack These are the issues addressed in Oracle Application Express Administration These are the issues that when tackled successfully lead to long term success in using Oracle APEX as a rapid application development toolset Readers of this book learn how to install the Oracle APEX engine in support of small scale projects such as at the departmental level and in support of enterprise level projects accessed by thousands of users across dozens of time zones Readers learn to take advantage of Oracle Database's underlying feature set in regards to application scalability and performance integrity security high availability and robustness against failure and data loss Oracle Application Express Administration also describes different cloud solutions integration with Oracle E Business Suite and helps in taking advantage of multitenancy in Oracle Database 12c and beyond Covers important enterprise considerations such as scalability robustness high availability Describes cloud based application deployment scenarios Focuses on creating the right

deployment environment for long term success What You Will Learn Install upgrade and configure robust APEX environments Back up and recover APEX applications and their data Monitor and tune the APEX engine and its applications Benefit from new administration features in APEX 5.0 Run under multi tenant architecture in Oracle Database 12c Manage the use of scarce resources with Resource Manager Secure your data with advanced security features Build high availability into your APEX deployments Integrate APEX with Oracle E Business Suite Who This Book Is For Architects administrators and developers who want to better understand how APEX works in a corporate environment Readers will use this book to design deployment architectures around Oracle Database strengths like multi tenancy resource management and high availability The book is also useful to administrators responsible for installation and upgrade backup and recovery and the ongoing monitoring of the APEX engine and the applications built upon it

*Expert Oracle Application Express* John Scott,Doug Gault,Raj Mattamal,Anton Nielsen,Martin DSouza,Dimitri Gielis,Roel Hartman,Francis Mignault,Dietmar Aust,Michael Hichwa,Denes Kubicek,Dan McGhan,Sharon Kennedy,2011-08-04 Expert Oracle Application Express brings you groundbreaking insights into developing with Oracle's enterprise level rapid development tool from some of the best practitioners in the field today Oracle Application Express APEX is an entirely web based development framework that is built into every edition of Oracle Database The framework rests upon Oracle's powerful PL/SQL language enabling power users and developers to rapidly develop applications that easily scale to hundreds even thousands of concurrent users The 13 authors of Expert Oracle Application Express build their careers around APEX They know what it takes to make the product sing developing secure applications that can be deployed globally to users inside and outside a large enterprise The authors come together in this book to share some of their deepest and most powerful insights into solving the difficult problems surrounding scalability globalization configuration and lifecycle management and more You'll learn about debugging and performance deep secrets to customizing your application user interface how to secure applications from intrusion and about deploying globally in multiple languages Expert Oracle Application Express is truly a book that will move you and your skillset a big step towards the apex of Application Express development Presents best practices and development insights from leading experts in the field Addresses globalization scalability security and other concerns of enterprise level development Shows how to customize APEX for your own application needs

**Beginning Oracle Application Express** Rick Greenwald,2011-03-16 This book shows you how to master Application Express to build effective web based Oracle database applications The author provides hands on step by step guidance on the complete development process through creating customizing and extending the application In addition to presenting how to build a simple application this guide also details reporting and charting themes and templates and security Additionally it demonstrates how to use packaged applications and how to work with multiple applications Data migration and integration with the Oracle environment is also discussed

*Beginning Oracle Application Express 5* Doug Gault,2015-12-30 Whether you're new to Oracle or an old hand

who has yet to test the waters of APEX Beginning Oracle Application Express 5 introduces the processes and best practices you ll need to become proficient with APEX The book shows off the programming environment the utilities and tools available and then continues by walking through the process of building a working system from the ground up All code is documented and explained so that those new to the languages will not be lost After reading this book power users and programmers alike can quickly put together robust and scalable applications for use by one person by a department by an entire company Beginning Oracle Application Express 5 introduces version 5 of the popular and productive Oracle Application Express development platform Called APEX for short the platform enables rapid and easy development of web based applications that make full use of Oracle Database The release of APEX 5 brings major new changes to the page builder an enhanced universal theme better RESTful web services support enhanced application packaging and the many redesigned wizards give a new and fresh feel to the user interface Covers brand new functionality in APEX 5 Provides fully documented and explained example code Guides you through creating a working and fully deployable application

**Extending Oracle Application Express with Oracle Cloud Features** Adrian Png,Heli Helskyaho,2022-09-03 This book shows Oracle Application Express APEX developers how to take advantage of Oracle Cloud Infrastructure OCI features for APEX that might otherwise go missed You will learn how to use OCI features for data science tasks such as detecting anomalies in your data training machine learning models and much more The book provides an in depth look at Oracle Cloud features and demonstrates how they can be easily integrated into an APEX application While the book focuses on developing for APEX the approaches covered in the book are also applicable to any other modern web developer framework for applications running on the OCI platform For many organizations the database is the heart of operations Those who opt to invest in the Oracle Database can learn from this book how to maximize their return on investment The book begins with an introduction to OCI and help on setting up your OCI developer environment From there you ll begin with security by learning to provide single sign on via the Oracle Identity Cloud Service Subsequent chapters take you through cloud focused features such as Object Storage Oracle Function Oracle Machine Learning REST Services and Oracle Cloud Anomaly Detection You ll even learn to troubleshoot email delivery services What You Will Learn Be aware of Oracle Cloud Infrastructure features for developers Integrate with cloud native services such as cloud based object storage and serverless functions Enhance APEX applications with machine learning features Implement Natural Language Processing and Anomaly Detection Algorithms Troubleshoot email delivery services when sending emails using the APEX\_MAIL package Design and implement an APEX environment that is secure Who This Book Is For APEX developers who are looking to extend their application s capabilities using features and resources available through the Oracle Cloud and cloud solutions architects who support development teams and help design and implement architectures that benefit business operations

**Oracle APEX 20 Full Stack Set For Beginners** Riaz Ahmed,2020-08-06 A three book set for absolute beginners who want to become dynamic web developers This three book set

combines the titles No Code Oracle APEX For Thirteen To Ninety SQL and PL SQL For Everyone and Oracle APEX 20 For Beginners Together these three books will provide a solid foundation to anyone who has the desire to develop dynamic data driven web applications quickly with no low code features of Oracle APEX Oracle APEX is a low code application development framework Low code is a software development approach that enables the delivery of applications faster and with minimal hand coding Low code framework helps you create complete applications visually with the help of drag and drop interface and wizards Rather than writing thousands of lines of complex code and syntax low code platforms allow you to build complete applications with modern user interfaces integrations data and logic quickly and visually Oracle APEX is one such area You can use Oracle APEX free of charge either as part of an existing Oracle Database license or running in the free Oracle Database 18c XE product Oracle APEX empowers you to build incredible apps and solve real problems And you won't need to become an expert in a vast array of web technologies such as HTML CSS JavaScript and more Oracle APEX is capable to do the heavy lifting for you You just need to focus on the problem to be solved The book No Code Oracle APEX For Thirteen To Ninety Build Your First Web App without Writing a Single Line of Code is for anyone who wants to become a web developer but is scared of writing tons of code and is looking for the easiest track to start with I compiled this book for everyone especially teens to make web application development fun for them rather than a nightmare The SQL and PL SQL languages are too voluminous and exposure of every aspect of these huge languages is a very tedious task Keeping aside the least utilized features the book SQL and PL SQL For Everyone is rolled out to focus on the more operational areas of the language It is meant to help you learn SQL and PL SQL quickly by yourself It follows a tutorial approach wherein hundreds of hands on exercises are provided augmented with illustrations to teach you SQL and PL SQL in a short period of time Oracle APEX 20 For Beginners is my eleventh book on Oracle Application Express APEX written for the latest version Just like my previous books that exposed the technology to thousands around the globe this next level book is also aimed at beginners who wish to learn from self paced professional guidance and need a solid foundation in Oracle APEX

**Oracle Application Express - Pro Hacks (First Edition)** Riaz Ahmed, 2019-10-09 First things first Grab this book only if you have some basic knowledge of Oracle Application Express APEX and possess some hands on experience with this rapid web application development tool If you don't then I encourage you to read my latest book Create Rapid Web Application in Oracle Application Express 19 ISBN 9781094779096 which is written for absolute beginners The word hacking has a bad reputation in the computing world This term is generally used to break into computer systems and create havoc Among developers though the term hack refers to a quick solution to a problem or an intelligent way to get something done And the term hacker is used for someone who is creative and possesses technical chops to get things done This book is an attempt to reclaim the word and pass creative stuff on to the inexperienced It exhibits professional approach to various problems you face while developing applications in Oracle APEX and provides quick ways to learn new things about the technology Oracle APEX is

evolving and you get exciting new features with every new release to develop latest data centric web apps fast The main objective of this book is to help you practically evaluate these features to polish your development skills The topics covered in this book are not documented in APEX manuals Not only the book provides pro tricks to develop professional looking web apps but it also saves the time you spend on the Internet to search these solutions This book is meant to provide a new way of perceiving Oracle APEX Whether you are looking for a new technique to include in your application a solution to a common problem or just some insight into Oracle APEX I am sure you will find the stuff provided in this book helpful and exciting

*Oracle Application Express 3.2* Arie Geller,Matthew Lyon,2010-06-01 Developing data centric web applications can be a real challenge as it is a multi disciplinary process There are many technologies involved in the client side HTML CSS JavaScript and so on the interaction with the database on the server side the typeless nature of the web environment and above all the need to put it all together This needs to be done in a manner that will allow the end users to do their job in the simplest and most efficient way while enriching their user experience How often have you wished that developing such applications could be uncomplicated and straightforward This book will show you that it s possible and teaches you how to do it using Oracle Application Express APEX With this practical guide to APEX you ll learn how to easily develop data centric web applications for the Oracle environment The book covers the development cycle of an APEX application reviewing the major APEX principles and building blocks chapter by chapter It starts with the basic skills you need to get going when developing with APEX Later you will learn advanced issues such as how to build tailor made forms and reports using APEX APIs AJAX and so on It not only deals with the How but also with the Why and before long you will be able to understand APEX concepts and use them to expand and enhance the built in features wizards and tools The book starts with the design phase including building the necessary database objects infrastructure continues with ways to implement the application logic on the server side and the User Interface on the client side whilst showing you how to enhance your applications features and functionality according to your specific needs and it ends with application deployment The book emphasizes and clearly documents areas such as Globalization Localization and developing multi lingual applications and includes a special discussion about Right To Left RTL support for APEX applications documented here for the first time Throughout the book there are many screenshots and snippets of code taken from working APEX applications The book is accompanied by demo APEX applications that you can download and install in your APEX environment thoroughly analyze and learn from as you read the book

[Create Rapid Web Application in Oracle Application Express 19](#) Riaz Ahmed,2019-04-17 This is my eight book on Oracle Application Express APEX written for the latest version Just like my previous books that exposed the technology to thousands around the globe this book is also aimed at absolute beginners who wish to learn from self paced professional guidance and need a solid foundation in Oracle APEX Oracle APEX is an amazing development platform in which you can build robust web applications Not only it provides an environment where you can rapidly develop data centric web

applications it also allows end users to interact with their data via tools like interactive report interactive grid different types of charts maps and more The most convincing way to explore a technology is to apply it to a real world problem Without involving the audience too much into the boring bits the book adopts an inspiring approach that helps beginners practically evaluate almost every feature of Oracle APEX In this book you ll develop an application that demonstrates the use of those features to get hands on exposure of Oracle APEX anatomy The sticky inspirational approach adopted in this book not only exposes the technology but also draws you in and keeps your interest up till the last exercise The ultimate objective of this book is to introduce you to the art of building web applications by iteratively developing the sample database application provided with Oracle APEX from scratch The application demonstrates how to display summary information use reports and forms for viewing updating and adding information include charts and maps to visualize information and create dedicated mobile pages This application has been chosen as an example because you can learn most of the techniques from it for your own future work The primary purpose of this book is to teach you how to use Oracle APEX to realize your own development goals Each chapter in this book explores a basic area of functionality and delivers the development techniques to achieve that functionality By the time you reach the end of the examples in this book you will have a clear understanding of Oracle APEX and will be able to extend the application in almost any direction The short list below presents some main topics of Oracle APEX covered in this book Rapid web application development for desktops laptops tablets and latest smartphones Create comprehensive applications declaratively without writing tons of code Design application pages using Page Designer Create applications with the help of wizards Create custom application pages by adding components manually Use same interface and code to develop applications for a wide array of devices Present data using a variety of eye catching charts Produce highly formatted PDF reports including invoices grouped reports and pivot tables Design and implement a comprehensive security module If you are looking for a concise and concrete Oracle APEX book written for beginners then I must say that this is the book that will return more than what you pay for it Special offer For those who are new to SQL or those who want to strengthen their SQL knowledge I m providing my e book SQL The Shortest Route For Beginners with this book for FREE

**Oracle APEX 4.0 Cookbook** Michel van Zoest, Marcel van der Plas, 2010-12 As a cookbook this book enables you to create APEX web applications and to implement features with immediately usable recipes that unleash the powerful functionality of Oracle APEX 4.0 Each recipe is presented as a separate standalone entity and reading of other prior recipes is not required It can be seen as a reference and a practical guide to APEX development This book is aimed both at developers new to the APEX environment and at intermediate developers More advanced developers will also gain from the information at hand If you are new to APEX you will find recipes to start development If you are an experienced user you will find ways to work smarter and more easily with APEX and enhance your applications A little knowledge of PL SQL HTML and JavaScript is assumed

**Oracle APEX 4.0 Cookbook** Michel Van Zoest, 2011 Annotation Oracle Application Express 4.0 is

a rapid web application development tool that works with the Oracle database Using features like Plug ins and Dynamic Actions APEX helps you build applications with the latest techniques in AJAX and JavaScript The Oracle Application Express 4 0 Cookbook shows you recipes to develop and deploy reliable modern web applications using only a web browser and limited programming experience With recipes covering many different topics it will show you how to use the many features of APEX 4 0 You will learn how to create simple form and report pages and how to enhance the look of your applications by using stylesheets You will see how you can integrate things such as Tag Clouds Google Maps web services and much more in your applications Using Plug ins Dynamic Actions BI Publisher translations and Websheets you will be able to enhance your applications to a new level in APEX This book will show you how to be Agile in the development of your web applications by using Team Development debugging and third party tools After reading this book you will be able to create feature rich web applications in Application Express 4 0 with ease and confidence A practical reference guide with over 70 recipes for every APEX developer

**Oracle Application Express 5. 1 Basics and Beyond** Riaz Ahmed, 2017-01-17 You will find stuff about workspace application page and so on in every APEX book But this book is unique because the information it contains is not available anywhere else Unlike other books it adopts a stimulating approach to reveal almost every feature necessary for the beginners of Oracle APEX and also takes them beyond the basics As a technology enthusiast I write on a variety of new technologies but writing books on Oracle Application Express is my passion The blood pumping comments I get from my readers on Amazon and in my inbox are the main forces that motivate me to write a book whenever a new version of Oracle APEX is launched This is my fifth book on Oracle APEX and the best so far written after discovering the latest 5 1 version As usual I m sharing my personal learning experience through this book to expose this unique rapid web application development platform In Oracle Application Express you can build robust web applications The new version is launched with some more prolific tools to maximize developers productivity Once again I ve left out the boring bits and have adopted the same practical inspirational approach that has exposed the anatomy of Oracle Application Express to thousands of beginners in the past The most convincing way to explore a technology is to apply it to a real world problem In this book you ll develop a sales web application that not only reveals the anatomy of Oracle Application Express but at the same time provides hands on techniques that build a solid foundation for you to become a web developer Since there are lots of changes in the new version all content has been revised to slot in these changes including the features new to version 5 1 The short list below summarizes the features of Oracle APEX 5 1 covered in this book Hands on exposure to the new features such as Interactive Grid Oracle JET Charts the new declarative Master Detail Detail capabilities dozens of new properties and new development procedures Teaches how to rapidly develop data centric web application for desktops laptops tablets and latest smartphones Produce highly formatted PDF reports including invoices grouped reports and pivot tables not covered in any other APEX book Design and implement a comprehensive custom security module unique to this book Step by step instructions to create

mobile version of the application using existing desktop application pages not covered in any other beginner's guide This is a concise yet a concrete book on Oracle Application Express written for those who want to become web application developers The sticky inspirational approach adopted in this book not only exposes the technology but also draws you in and keeps your interest up till the last exercise I'm grateful to all my readers whose helpful feedback enabled me to further polish my work in this edition Special offer For those who are new to SQL or those who want to strengthen their SQL knowledge I'm providing my e book SQL The Shortest Route For beginners with this book for FREE

**Beginning Oracle Application Express 4** Doug Gault, Karen Cannell, Patrick Cimolini, Timothy St Hilaire, Martin DSouza, 2011-07-14 Beginning Oracle Application Express 4 introduces one of the most talked about development platforms to come out of Oracle Corporation in years Oracle Application Express called APEX for short enables rapid and easy development of web based applications that make full use of Oracle Database The release of APEX 4 brings a huge leap forward in terms of functionality and usability for both the developer and the end user Power users and programmers alike can quickly put together robust and scalable applications for use by one person by a department by an entire company Whether you're new to Oracle or an old hand who's yet to test the waters of APEX Beginning Oracle Application Express 4 introduces the processes and best practices you'll need to become proficient with APEX The book shows off the programming environment the utilities and tools available and then continues by walking through the process of building a working system from the ground up While the book assumes a foundational knowledge of SQL and PL SQL all code used is documented and explained so that those new to the languages will not be lost Covers brand new functionality in APEX 4 Provides fully documented and explained example code Guides you through creating a working and fully deployable application

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### **Hands On Oracle Application Express Security Building Secure Apex Applications Introduction**

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