

iMaxSOFT Corporation

VerticoData - Enterprise Security Solution

Quick User Guide

Business Partner



ORACLE PARTNER



An Absolute Secure Technology

iMaxSOFT Corporation

October 4, 2015

www.imaxsoft.com

Telephone: 1-408-253-8808

P. O. Box 1222, Cupertino CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

Preface

This document is a quick reference guide for iMaxsoft/VerticoDATA Demonstration Portal. The iMaxsoft/VerticoDATA Demonstration Portal is developed as a running specification to identify the needs of sensitive and privacy data protection and security for ORACLE enterprise users.

Audience of this document is intended for CIO, IT security staff, ORACLE DBA, and Chief Security Officer.

Enterprise is morally and legally liable for leaks of personal private and sensitive information. Tighter legal responsibilities and hefty fines have drawn corporate top management attention to this serious issue. But rushing for a quick fix may lead you to a bigger security problem down the road. For example, when 'users login information' got hacked, 100,000 user-login-names and passwords were stolen, then you immediately revamp your customer's login process by adding instant text messaging and email confirmation process, sounds pretty promising, but you have just doubled your customer's sensitive information from "name and password" to "name, password, confirmation email, and mobile phone number". The end result is that you spent more investment doubling your liabilities and getting no guarantee of hacking free. You should always focus on 'how did the breach occur?' first, over 99 percent, it is an inside job, tighten-up your internal security procedure and deploy a **precision security solution** is the most effective option. Also, the rule of thumb for mitigating security risk is to stop collecting un-needed private and sensitive customers' information.

The root cause of today's data security problem is the high demands of customers services fulfillment. Huge data banks are forming in lighting speed and their sizes grow exponentially every second. Failure to safeguard data banks will lead you to a dream hotbed for hackers.

So, is that true, the quicker to adopt modern and advanced technology, the bigger the chances to be hacked. It is always risky to leverage new technologies for maintaining business competitive edge, but if you don't, you may loss your business completely. Today's technology requires so many elements that we can ever imagined, we all know how big the task is to simply conduct a thorough inventory of our hardware devices, so **how broad** your sensitive data security solution would be, to every internal and external device node, it is humanely impossible. VerticoDATA is a solution that protects the origin source of your sensitive and privacy data bank, and provides the **last line of defense** for your sensitive information.

Prepared by:

iMaxSOFT VerticoDATA Development Team
October 2015, Saratoga California USA

Copyright © iMaxSOFT Corporation 2015, All Rights Reserved.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA **iMaxSOFT**

VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

Login



Home • News • Security Solution • Modernization • **Login** Tuesday 20th of October 2015 11:59:03 AM

iMaxSOFT
VerticoDATA - Enterprise Security Solutions

Enterprise Applications | **iMaxSOFT VerticoDATA** | ORACLE | Absolute Secure

Hundreds of millions of sensitive privacy data were stolen more frequently than ever, what should we do?
The security decision making has been moving up to board of directors, CEOs, CFOs, CIOs and CSOs, the top-level executives. The possible brand and financial ramifications of a breach are simply too great to risk.

Our primary supported platform is ORACLE database and LINUX, HP/UX and UNIX operating systems.
Our security solution is 100% transparent to enterprise applications, old and new.
Our security tool is able to protect data hacking and stealing, and is also able to repair and recover damaged data promptly in real-time.
Our security technology is self-trained and self-learned, it detects, alerts and blocks abnormal activities and suspicious programs on database and application servers.
We cannot stop and eliminate cybercrimes 100%, our data is always vulnerable, but an intelligent security solution mitigates our security risks by providing accurate and traceable forensic information for prompt alert.
To have a security vendor hijacking our enterprise's comprehensive security infrastructure is ABSOLUTELY NOT ACCEPTABLE. We must be able to master our own security solution, to manage our own priorities, and to control our own destination per our own security requirements.

VerticoData
An Absolute Secure Enterprise Security Solution

Public - About iMaxsoft - Terms - Privacy - Home
©2015 iMaxsoft Corporation P.O. Box 1222, Cupertino CA 95015

VerticoDATA demonstration portal, you must click on the 'Login' to enter the demonstration.

Home • News • Security Solution • Modernization • **Login** Tuesday 20th of October 2015 12:37:57 PM

iMaxSOFT
VerticoDATA - Enterprise Security Solutions

Enterprise Applications | **iMaxSOFT VerticoDATA** | ORACLE | Absolute Secure

Login

Email

Password

Public - About iMaxsoft - Terms - Privacy - Home
©2015 iMaxsoft Corporation P.O. Box 1222, Cupertino CA 95015

Click on the button 'Add a New Login?' to create a new login if you are a new user. Click on 'Forgot Password?' if you don't remember your password, a temp will be generated and email to you. Or simply provide your email and password to login.

Home • News • Security Solution • Modernization • **Login** Tuesday 20th of October 2015 12:38:59 PM

iMaxSOFT
VerticoDATA - Enterprise Security Solutions

Enterprise Applications | **iMaxSOFT VerticoDATA** | ORACLE | Absolute Secure

Register Now

*Email

This is going to be your login.

*Confirm Email

Make sure your email again to confirm.

*Password

Minimum 8 characters to login.

*Confirm Password

Make sure your password again to confirm.

*Verification

Letters are not case-sensitive and do not contain numbers.

*Terms
iMaxsoft Terms of Service
Last Revision: October 14, 2015

1. Acceptance of Terms
iMaxsoft provides a web-based web filtering platform that allows Webinars to search, create and share a collection of online resources, including advertisements and various email services. Continued benefits are "The Service" subject to the following Terms of Service ("TOS"), by agreement of using:
 I agree with the above terms and am over 13 years old

Public - About iMaxsoft - Terms - Privacy - Home
©2015 iMaxsoft Corporation P.O. Box 1222, Cupertino CA 95015

'Add a New Login?', be sure to enter your password twice. The Verification field is not case sensitive and **doesn't** contain numbers. You need to agree on the Terms of accessing our VerticoDATA demonstration portal.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

Main Menu

Alert - LIVE DATA BREACHING on these 15 ORACLE servers ...

Washington, DC	Chick, FL	Lantern, OH
Pasadena, CA	Charlotte, NC	Thibodaux, LA
Palmdale, CA	Jefferson, OR	Jeffersonville, IN
Shreveport, LA	Hickory, TN	Trenton, NJ
St. Louis, MO	Holbrook Park, IL	Memphis, TN

WARNING - Highly Suspicious Data Accessing on these 15 ORACLE servers ...

White Mountain, AK	Little America, WY	Jacksonville, MN
Monticello, NH	Stowe, VT	Saint Michaels, MD
Subsidiary, MD	Camden, NH	Northville, SD
Shreveport, LA	Anna, OH	Hayward, CA
Falco, PA	Berks, SD	Cham, VT

There are 169 ORACLE servers, here is the list of all ...

Apex, NC	Farmington Falls, ME	Falco, PA
Ashe, NC	Farmington, VT	Flora, AZ
Alton Bay, NH	Fairfax, VA	Forestburg, LA
Andover, MA	Franklin Springs, GA	Fort Polk, LA
Ann Arbor, MI	Franklin, VA	Fort Worth, TX
Anna, OH	Galveston, TX	Fort Lauderdale, FL
Anniston, AL	Georgetown, KY	Ralph, AL
Anniston, AL	Georgetown, KY	Raymond, SD
Arden, NC	Georgetown, KY	Raymond, VT
Arden, NC	Georgetown, KY	Raymond, VT
Arden, NC	Georgetown, KY	Raymond, VT

Once you have successfully logged in to VerticoDATA demonstration portal, a list of all your ORACLE database servers are shown, and potential data breach alerts and warnings are also grouped and marked separately.

You may click on a server from the list via its location and perform further security breach investigation.

This page can be customized according to the configuration and setup of your data center and cloud hosting site, and integrated it into your enterprise central operation console. Security monitor is becoming the core focus of today's IT infrastructure.

How well an enterprise protecting their customers' sensitive and privacy information drives the faith of the business and its survival.

VerticoDATA - Enterprise Security Solutions

Home Washington,DC DBServer Logout

VerticoData ORACLE SECURITY MONITOR

- Scan Excessive Access
- Scan Abnormal Access
- Scan Malicious Access
- Alert Excessive Access
- Alert Abnormal Access
- Alert Malicious Access
- Analysis EPH Breaches
- Analysis Malicious Programs
- Analysis Long Transactions

VerticoData ORACLE TOOLSET

- DBAPlus
- DBAdvisor
- DBRescuer
- ORACLE Configuration and Setup
- VerticoDATA Configuration and Setup
- Viewer Tracer Document Management

Home Washington,DC DBServer Logout

This is the main menu of a specific ORACLE database server, i.e. database server at Washington, DC. This main menu has 2 sections, one is a security monitor and the other one is a set of ORACLE secure tools.

Security monitor demonstrates some core features of VerticoDATA, i.e. data leak detection, malicious access prevention, and cyber breach real-time blocking.

The secure ORACLE toolset is designed to allow end-users, business constituents and associates to securely and efficiently move sensitive and privacy data on the net and across mobile devices. Traditional user authentication and access authorities are a small portion of today's comprehensive enterprise security solution.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An **Absolute Secure** Enterprise Security Solution

An **Absolute Secure** Enterprise Security Solution

Server Specific Main Menu

The screenshot shows the 'Server Specific Main Menu' interface. At the top, it displays 'iMaxSOFT VerticoDATA - Enterprise Security Solutions' and the user 'LEETSAL - Lee Tsai' with the date 'Tuesday, 20th of October 2015 01:44:30 PM'. Below this is a navigation bar with 'Home', 'Washington,DC, DBServer', and 'Logout'. The main content area is titled 'iMaxSOFT DBServer: WASHINGTON, DC' and 'VerticoData ORACLE SECURITY MONITOR'. It features a grid of icons for various security functions: Scan Excessive Access, Scan Abnormal Access, Scan Malicious Access, Alert Excessive Access, Alert Abnormal Access, Alert Malicious Access, Analysis EPHI Breaches, Analysis Malicious Programs, and Analysis Long Transactions. Below this is another section titled 'VerticoData ORACLE TOOLSET' with icons for DBAPPlus, DBAdvisor, DBRescuer, ORACLE Configuration and Setup, VerticoDATA Configuration and Setup, and Viewer Tracer Document Management. At the bottom, there is a footer with 'Home Washington,DC, DBServer Logout' and '©2015 iMaxsoft Corporation'.

VerticoDATA is the last line of safeguard that secures the source and the origin of sensitive privacy data bank.

VerticoDATA can be **privately labeled** and customized as an integral part of the enterprise comprehensive security solution. VerticoDATA can also be enterprises' security forensic experts, auditors and operators thru IMAXSOFT's cloud data center, which is a VerticoDATA security hosting services center, and these services provide 24 by 7 access to enterprise' security information worldwide from web and mobile.

VerticoDATA manages all enterprises' ORACLE applications and databases from a central control console, any potential security breaches and threats will be immediately alarmed and alerts will be delivered to designated security officials promptly.

This panel layout is **generic**, and it can be easily customized and integrated into the central enterprise operation console.

VerticoDATA offerings include a pre-built UI (user interface) as a general purpose model for enterprise's IT to adopt easily, and a set of **building blocks** which are used to established a proprietary security solution that meets each enterprise's specific business needs.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Threats Scanner



VerticoDATA demonstration includes 3 basic groups of threat scans from a database server. The excessive access, the abnormal access and the malicious access of sensitive and non-sensitive data from an ORACLE database server.



Excessive Access Scan

The **excessive access scanner** scans for database accesses that are exceeding VerticoDATA access security threshold rules, for example, a process reads or changes more sensitive or non-sensitive records than a pre-set of limits., a process takes longer than historical averaged time to run, or a user's connection time exceeds its allowable time, and so on.



Abnormal Access Scan

The **abnormal access scanner** scans for database accesses occurred that are not within permissible time windows, for example, after normal working hours, weekends and holidays. VerticoDATA detects database access patterns that do not match their respective historical access patterns, and database access methods that do not comply with their historical normal access methods, i.e. a process that has never accessed credit card information, or a process execution logic is suddenly changed.



Malicious Access Scan

The **malicious access scanner** scans for a program, a script, a procedure, a subroutine, or a SQL statement that has never been registered in VerticoDATA Central Intelligent DNA Dictionary. We need to quickly identify this abnormal object, whether it is a new program, a Trojan implant, a SQL injection, or a run-away ghost process.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Excessive Access Scan



Excessive Access Scan

iMaxSOFT ORACLE Data Breaches Scanner
LEETSAI - Lee Tsai Sunday 28th of October 2015 01:11:32 PM

Home Newport.KY DB Server Logout Black

Threat scanner: privacy data security threat and suspicious breach

Check-in Selected Discard Selected Check-in All Discard All

LastAccessed	Lines	EPHI's	Select	Checkbox	Security Vault	Check-in or Discard
Oct 24 12:47	32	1	<input type="checkbox"/>	155024_120321_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155014_144707_daemon_wdmonsrv_27367.sql		
Oct 24 12:30	32	1	<input type="checkbox"/>	155014_172128_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155014_221330_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155014_221330_daemon_eqipplus_19693.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155018_132007_daemon_wdmonsrv_27367.sql		
Oct 24 12:30	32	1	<input type="checkbox"/>	155018_132014_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155018_132024_daemon_eqipplus_18716.sql		
Oct 24 12:30	20	none	<input type="checkbox"/>	155018_132038_oracle_eqipplus_18732.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155018_132045_daemon_wdmonsrv_27369.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155018_132123_daemon_eqipplus_18716.sql		
Oct 24 12:30	10	none	<input type="checkbox"/>	155018_132128_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155018_132208_daemon_wdmonsrv_27369.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155018_132214_daemon_eqipplus_18716.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155019_085517_daemon_eqipplus_24971.sql		
Oct 24 12:30	20	none	<input type="checkbox"/>	155019_085523_oracle_eqipplus_24991.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155019_085560_daemon_wdmonsrv_27367.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155019_085539_daemon_eqipplus_25003.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155019_114743_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	4	none	<input type="checkbox"/>	155019_114752_daemon_wdmonsrv_27366.sql		
Oct 24 12:30	8	none	<input type="checkbox"/>	155019_175822_daemon_eqipplus_27679.sql		
Oct 24 12:30	20	none	<input type="checkbox"/>	155019_175827_oracle_eqipplus_27695.sql		

22 new threats found!

Check-in Selected Discard Selected Check-in All Discard All

Home Newport.KY DB Server Logout Black

©2015 iMaxsoft Corporation

VerticoDATA Excessive Access Scanner scans for ORACLE database sensitive and non-sensitive data accesses that do not comply with access security rules.

This preliminary summary reports basic attributes of potential threats, which includes access time, accessor name, access program name, and whether sensitive and privacy data (EPHI¹) is affected.

Security officer may optionally transferring those of interested logs from each individual database server into enterprise level central security vault for further investigation.

You may use VerticoDATA's **building blocks** to create an automated process that pre-screens and transfers potential threats into your security vault.

The check-in and discard logic and customization building blocks are also applied to **Abnormal Access Scan** and **Malicious Access Scan**.

Footnotes:

1. EPHI - Electronic Patient Health Information, it is a term used in healthcare industry. We use it as an example term of Sensitive and Privacy Data.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

VerticoDATA - Threats Alert



Excessive Access Alert



Abnormal Access Alert



Malicious Access Alert

Once threats are checked into VerticoDATA security vault, alerts are generated according to the attributes of the threats, and alerts are routed to the proper personnel for further investigation.

The **excessive access alerts** are those database accesses that are exceeding VerticoDATA access security threshold rules, for example, a process reads or changes more sensitive or non-sensitive records than a pre-set of limits., a process takes longer than historical averaged time to run, or a user's connection time exceeds its allowable time, and so on.

The **abnormal access alerts** are those database accesses occurred that are not within permissible time windows, for example, after normal working hours, weekends and holidays. VerticoDATA detects database access patterns that do not match their respective historical access patterns, and database access methods that do not comply with their historical normal access methods, i.e. a process that has never accessed credit card information, or a process execution logic is suddenly changed.

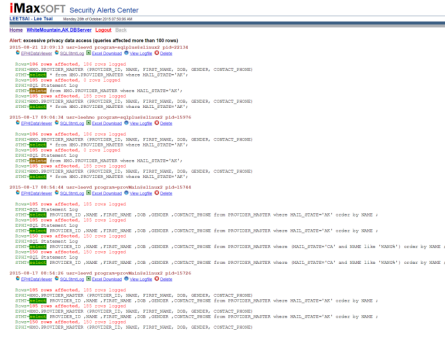
The **malicious access alerts** are those database access from a program, a script, a procedure, a subroutine, or a SQL statement that has never been registered in VerticoDATA Central Intelligent DNA Dictionary. We need to quickly identify this abnormal object, whether it is a new program, a Trojan implant, a SQL injection, or a run-away ghost process.

VerticoDATA

iMaxSOFT VerticoDATA Quick User Guide An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Excessive Access Alert



The excessive access alert contains a list of potential threats that need further investigation for possible sensitive data breaches.

A summary view of incidents is shown chronologically. Each sensitive data access exceeded its respective access control threshold, i.e. maximum number of records per fetch, is pre-processed by VerticoDATA threat diagnosis engine for security staff for further investigating.

In the demo, each access alert is raised due to it has touched or affected more rows than allowed whether is sensitive or non-sensitive data related.

iMaxSOFT VerticoDATA Tracefile, Setting and Configuration



EPHIDataViewer is a full list of all sensitive data that are affected (read or write) of an incident which can lead to a serious data leak and database sabotage.

Log SQL DML¹ statement is no longer an answer to today's highly sophisticated hacking skills, it doesn't truly reflect the impact to your sensitive data, you have no idea how many rows are physically transferred out to the accessor, and what data are actually viewed by the accessor. More often hackers are only focused on those persons of interest, which is a lot more difficult task to prevent and requires **high precision-driven technology** to detect.

A simple SELECT may cause ORACLE database core engine to fetch and to cache a lot more rows for performance and concurrency reason, but they are not necessary all been read by the accessor. **What exactly are read** is always a big challenge of today's security solution.

Footnotes:


1. DML is data manipulation language, in general, they are SELECT, INSERT, UPDATE and DELETE.


iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA - Excessive Access Alert



 **Excel Download** allows you to download EPHI data of this specific process to your local storage along with VerticoDATA **Tracker**, so that the downloaded doc is traceable no matter where it goes. The document tracker solution needs to be purchased separately and is an customizable option.

 **View Logfile** allows you to examine the raw meta-data from our logfile, which is the base of all VerticoDATA analysis. It is one per process unit which is generated from a complete-run of a program, a script, or a procedure, or is generated from a logical process cycle from a daemon process.


```

iMaxSOFT VerticoDATA Tracker, Setting and Configuration
...
Process: 104532 10/24/2015 10:45:32 AM (UTC-07:00)
...

```

Once you are familiar with and master the format of our logfile meta-data, you may apply your own intelligent forensic logic and rules, generate your own alerts, and build your own security vault.

The **meta-data format** is copyrighted, and iMaxsoft owns its sole proprietary right. iMaxsoft reserves the right to freely make changes to the meta-data format without the consents of its customers.

 **Delete** allows you to remove this incident from your security vault.

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Threats Intelligent Analyzer



VerticoDATA security vault is built for you to explore potential threats, to investigate the footprint of suspicious attacks, to diagnose the causes of data leaks, to assess the severity of a data breaches, and to detect and to block potential security vulnerability.



EPHI Breaches Analysis

EPHI Breaches Analysis allows you to perform sensitive data breach research. Your historical sensitive and privacy access information is the most valuable assets for early breach discovery which can significantly reduce the chances of future more serious attacks.



Malicious Programs Analysis

Malicious Programs Analysis allows you to protect your data from being accessed by unknown and un-registered programs. There are hundreds of thousands of back doors that are reserved and created by hardware and software vendors to conduct real-time upgrades, debugging, performance tuning, storage devices synchronization, and many other viable purposes. Unfortunately, back doors are your worst vulnerabilities for hackers. At any given second, a hacker may trying to plant a Trojan onto your server which can be used to hijack your servers and to attack your precious sensitive and privacy data without any visible trace.



Long Transactions Analysis

Long Transactions Analysis allows you to monitor and to control your sensitive and privacy data access within a pre-set of constraints. No general users can access data crossing certain boundaries, or exceeding certain time-limits. There is no way to 100% stop cyber-crimes, but you certainly can manage and mitigate the risks and damages to the minimum.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Sensitive and Privacy Data Breaches



EPHI Breaches Analysis

iMaxSOFT Security Threats Analyzer
LEETSAI - Lee Tsai Wednesday, 4th of November 2015 10:27:10 AM

Home Kanazaville.UT.DBServer Logout Back

Threat analyzer: privacy data security threat and suspicious breach!

Month	Year	Day	Time	User	Process	Log Type	Action
Nov	2015	02	12:38:39	daemon	vdmonsvr	27665	Download
Nov	2015	02	12:38:19	daemon	vdmonsvr	27665	Download
Nov	2015	02	12:38:13	daemon	vdmonsvr	27662	Download
Nov	2015	02	12:37:37	daemon	vdmonsvr	27660	Download
Nov	2015	02	12:37:33	daemon	vdmonsvr	27661	Download
Nov	2015	02	12:37:24	daemon	vdmonsvr	27666	Download
Nov	2015	02	12:37:13	daemon	vdmonsvr	27665	Download
Nov	2015	02	12:37:10	daemon	vdmonsvr	27662	Download
Nov	2015	02	12:37:04	daemon	vdmonsvr	27660	Download
Oct	2015	10	17:54:01	daemon	vdmonsvr	22485	Download
Oct	2015	10	12:03:21	daemon	vdmonsvr	27669	Download
Oct	2015	10	12:03:21	daemon	vdmonsvr	27669	Download
Oct	2015	10	12:09:13	leevid	sqlplus	22134	Download
Aug	2015	17	09:04:34	leeetho	sqlplus	15976	Download
Aug	2015	17	08:55:09	leevid	provfltan	15768	Download
Aug	2015	17	08:54:44	leevid	provfltan	15744	Download
Aug	2015	17	08:54:26	leevid	provfltan	15726	Download
Aug	2015	17	08:53:00	leevid	provfltan	15703	Download
Aug	2015	13	13:00:10	daemon	vdmonsvr	5419	Download
Aug	2015	11	10:41:55	daemon	vdmonsvr	16965	Download
Jul	2015	11	16:11:57	daemon	vdmonsvr	29655	Download
Jul	2015	11	09:02:19	daemon	vdmonsvr	29632	Download
Jul	2015	11	09:02:14	daemon	vdmonsvr	29631	Download
Jun	2015	30	12:27:07	leevid	dbaig	1269	Download
Jun	2015	23	10:38:06	leevid	sqlplus	4819	Download
Jul	2015	07	13:02:42	daemon	vdmonsvr	6523	Download
Jul	2015	04	13:02:37	daemon	vdmonsvr	6520	Download

EPHI Breaches Analysis allows you to conduct sensitive data breaches research. Electronic Patient Health Information (EPHI) is a synonym of Sensitive and Privacy Data in USA healthcare industry.

Suspicious breaches are isolated and reported for security staff to conduct further analysis to assess the seriousness of potential threats to the sensitive and privacy data.

Each potential incidence's activities are fully diagnosed and logged via VerticoDATA threat protection engine. You will learn when and how the breach was found, what and how many sensitive and privacy data were affected, and the user who was responsible for it.

A historical trend analysis can be done easily in diagrams by user, by process, by time window, by access point (i.e. IP), by data volume, and by data content.

The most difficult threats to detect are those deeply implanted Trojan processes which are invisibly co-existence with your normal operations, the routine threat behavior monitoring and analysis is the only way to dig them out before catastrophic damage.

There is no silver bullet for cybercrimes and data leaks preventions. A good security solution needs to be able to intelligently collect and analyze all aspects of data access methods and their contents, needs to be able to segregate those suspicious ones from good ones, and needs to be able to learn and tune its security rules via security staffs' decisions.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Malicious Programs



Malicious Programs Analysis

Malicious Programs are extremely difficult to detect, they can name itself to comply with your naming standard and can hibernated themselves for a long time before attacks.

iMaxSOFT Security Threats Analyzer

LEETSAI - Lee Tsai Wednesday 4th of November 2015 11:37:06 AM

Home Kanarrville.UTDBServer Logout Back

Threat analyzer: un-authorized accessor and malicious program!

Mon, Nov 02 2015

```
1 Program Module and SQLStmt Trace: 2015-11-02 12:35:39 (daemon.vdmansvr:27666)
2 Program Module and SQLStmt Trace: 2015-11-02 12:35:43 (daemon.vdmansvr:27666)
3 Program Module and SQLStmt Trace: 2015-11-02 12:35:43 (daemon.vdmansvr:27666)
4 Program Module and SQLStmt Trace: 2015-11-02 12:37:37 (daemon.vdmansvr:27666)
5 Program Module and SQLStmt Trace: 2015-11-02 12:37:39 (daemon.vdmansvr:27666)
6 Program Module and SQLStmt Trace: 2015-11-02 12:37:42 (daemon.vdmansvr:27666)
7 Program Module and SQLStmt Trace: 2015-11-02 12:37:43 (daemon.vdmansvr:27666)
8 Program Module and SQLStmt Trace: 2015-11-02 12:37:45 (daemon.vdmansvr:27666)
9 Program Module and SQLStmt Trace: 2015-11-02 12:37:46 (daemon.vdmansvr:27666)
```

Sat, Jul 11 2015

```
11 Program Module and SQLStmt Trace: 2015-07-11 09:02:18 (daemon.vdmansvr:28659)
12 Program Module and SQLStmt Trace: 2015-07-11 09:02:14 (daemon.vdmansvr:28659)
```

Thu, Jun 30 2015

```
12 Program Module and SQLStmt Trace: 2015-06-30 12:27:07 (leedi:dbag1250)
```

Thu, Jun 23 2015

```
11 Program Module and SQLStmt Trace: 2015-06-23 10:38:06 (leedi:aglpus:4823)
```

Sat, May 30 2015

```
14 Program Module and SQLStmt Trace: 2015-05-30 11:47:55 (daemon.vdmansvr:18104)
15 Program Module and SQLStmt Trace: 2015-05-30 11:47:50 (daemon.vdmansvr:18104)
16 Program Module and SQLStmt Trace: 2015-05-30 11:48:26 (leedi:ipocv:18026)
17 Program Module and SQLStmt Trace: 2015-05-30 11:48:12 (leedi:ipocv:18026)
18 Program Module and SQLStmt Trace: 2015-05-30 11:48:57 (leedi:ipocv:18026)
19 Program Module and SQLStmt Trace: 2015-05-30 11:48:59 (leedi:ipocv:18026)
20 Program Module and SQLStmt Trace: 2015-05-30 11:49:57 (leedi:ipocv:18026)
21 Program Module and SQLStmt Trace: 2015-05-30 11:49:51 (leedi:ipocv:18026)
22 Program Module and SQLStmt Trace: 2015-05-30 11:49:56 (leedi:ipocv:18026)
```

Fri, May 29 2015

```
21 Program Module and SQLStmt Trace: 2015-05-29 11:00:47 (oracle:aglpus:10307)
```

Sun, May 24 2015

```
24 Program Module and SQLStmt Trace: 2015-05-24 14:27:43 (daemon.vdmansvr:14174)
25 Program Module and SQLStmt Trace: 2015-05-24 14:28:27 (daemon.vdmansvr:14174)
26 Program Module and SQLStmt Trace: 2015-05-24 14:11:14 (daemon.vdmansvr:17401)
27 Program Module and SQLStmt Trace: 2015-05-24 14:10:54 (daemon.vdmansvr:17401)
28 Program Module and SQLStmt Trace: 2015-05-24 14:10:55 (daemon.vdmansvr:17401)
29 Program Module and SQLStmt Trace: 2015-05-24 14:10:54 (daemon.vdmansvr:17401)
```

Sat, May 23 2015

```
31 Program Module and SQLStmt Trace: 2015-05-23 16:03:57 (daemon.vdmansvr:22250)
32 Program Module and SQLStmt Trace: 2015-05-23 14:51:23 (leedi:ipocv:21363)
33 Program Module and SQLStmt Trace: 2015-05-24 14:48:32 (leedi:ipocv:141223)
```

Thu, May 21 2015

```
33 Program Module and SQLStmt Trace: 2015-05-21 13:06:30 (daemon.vdmansvr:55374)
```

VerticoDATA program DNA technology is the core to detect malicious process effectively. Our approach is to catch malicious programs during their hibernation or when they are in act. VerticoDATA intelligent engine quarantines and segregates malicious processes, procedures and scripts, and remove them before they attack.

VerticoDATA program DNA technology is only applied to ORACLE database accesses. You may leverage VerticoDATA source code and customization service offerings to extend the technology to your entire IT operation.

iMaxSOFT VerticoDATA Tracefile, Setting and Configuration

LEETSAI - Lee Tsai Wednesday 4th of November 2015 11:38:48 AM

Home Kanarrville.UTDBServer Logout Back

[6] Purpose - security breach alerts on restricted programs and tools

- Reports executed Oracle queries and their corresponding issued program, sub-program, shared library, and sub-module. Example, if a super user creates a restricted program 'logplu' to 'foolpu', and then run it as 'foolpu', this common case tells us safe-guarding program name only is not sufficient for entire security breach. The "track trace" in this report is a guarantee for catching "foolpu" type security breach.
- This report is also a useful debug and development tool for IT. It correlates Oracle queries and application logic into one comprehensive view, therefore developers can easily to trace problem from a production environment. This report can be triggered ON/OFF in real-time mode for a specific running process (PID).

Copyright(s) iMaxsoft Corp. 2013 All Rights Reserved.

Report: VerticoDATA SQLStat Flow Trace

File: 2015-11-02 12:37:06

Logon: daemon: vdmansvr@linux2: daemon.VDRTA2:

```
[--TRACK] [1] /usr/local/vdmansvr/bin/igw64/vdmansvr->_like_start_main-
~/user/leedsai/leedsai/igw64/vdmansvr
```

```
[ 1] select * from "HR"."EMP_DETAILS_VIEW";
[ 2] select * from "HR"."EMP_DETAILS_VIEW";
[ 3] select * from "HR"."PROVIDER_MASTER";
[ 4] select * from "HR"."PROVIDER_MASTER";
```

```
---End Report---
Home Kanarrville.UTDBServer Logout Back
©2013 iMaxsoft Corporation
```

An active list of all ORACLE database access processes can be created via VerticoDATA program DNA scanner, and VerticoDATA maintains the accuracy of the list by automatically applying adjustments from each program's execution statistics.

In a production environment, the ORACLE application execution footprints are rarely changed. The VerticoDATA patent pending program DNA dictionary can be quickly established and be validated with near zero performance degradation.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Unexpected Long Transactions



Long Transactions Analysis

```
iMaxSOFT VerticoDATA Tracefile, Setting and Configuration
LEETAI - Lee Yee
Copyright (c) iMaxsoft Corp. 2013 All Rights Reserved.
Report: VerticoDATA Performance Monitor
Time : 2013-11-02 12:37:10
Group: damon, subserver@linux2, damon, VORTEX2
--> [DCI] 7 [ms] OCISetPrepare_VWait
select * from 'BMO' 'BMOV_SECURITY_CHECK';
--> [DCI] 8 [ms] OCISetPrepare_VWait
select * from 'BMO' 'BMOV_SECURITY_CHECK';
--> [DCI] 9 [ms] OCISetPrepare_VWait
select * from 'BMO' 'BMOV_SECURITY_CHECK';
--> [DCI] 10 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 11 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 12 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 13 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 14 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 15 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 16 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 17 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 18 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 19 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 20 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 21 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 22 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 23 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 24 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 25 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 26 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 27 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 28 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 29 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 30 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 31 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 32 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 33 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 34 [ms] OCISetPrepare_VWait
select * from 'VORTEX2' 'M_BRI1';
--> [DCI] 35 [ms] OCISetPrepare_VWait
select * from 'VORTEX2' 'M_BRI1';
--> [DCI] 36 [ms] OCISetPrepare_VWait
select * from 'VORTEX2' 'M_BRI1';
--> [DCI] 37 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 38 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 39 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 40 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 41 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 42 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 43 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 44 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 45 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 46 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 47 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 48 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 49 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 50 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 51 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 52 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 53 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 54 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 55 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 56 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 57 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 58 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 59 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 60 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 61 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 62 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 63 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 64 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 65 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 66 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 67 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 68 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 69 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 70 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 71 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 72 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 73 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 74 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 75 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 76 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 77 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 78 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 79 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 80 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 81 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 82 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 83 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 84 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 85 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 86 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 87 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 88 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 89 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 90 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 91 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 92 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 93 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 94 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 95 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 96 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 97 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 98 [ms] OCISetPatch_VWait (row=2/2)
--> [DCI] 99 [ms] OCISetPatch_VWait (row=1/2)
--> [DCI] 100 [ms] OCISetPatch_VWait (row=2/2)
-- End Report --
Home Kanarville.JT@Server Logout [Exit]
```

Defining a **Long Transaction** is clearly a challenge. The criteria of a long transaction can be a database query that runs over a certain amount of time, a process that accesses a database exceeding its historical average runtime, or an unknown procedure that accesses a sensitive data table over a long while.

To define allowable runtimes for all your transactions is impossible and is not feasible, but it is vital not to alert security staff when a sensitive data access has been taking enormous amount of time to execute.

To block threats in-time is the best strategy for risk mitigation. But, how long is too long, what action needs to be taken when a long transaction occurred, why long transaction is a potential security threat. In years of our experience, the most commonly threats caught are those activities occurred irregular and abnormal, the long transaction scenario falls into this criteria and is one of the most important quantitative measurement for identifying abnormality.

A comprehensive operation statistics warehouse is required to conduct precise preventive measurement for securing your precious data. VerticoDATA collects runtime statistics and creates your proprietary security forensic information warehouse automatically. VerticoDATA powerful forensic analytical building block can be leveraged to develop your own threats detection solution.

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - FREE ORACLE Toolset



In order to effectively safeguard your sensitive data bank, you must limit the usages of any general purpose database access tools to a small and controlled personnel, i.e. ORACLE query tool sqlplus, data import and export utilities, data warehouse utilities, and many more.

Database security is beyond a simple user authentication procedure, the “when and what can be accessed by who” security strategy is no longer sufficient to protect a database from hacking and leaking, instead the **‘content access traceability’** is a lot more powerful and feasible strategy for threats prevention in today’s highly technological driven IT infrastructure.

Any dynamic general purpose tools from ORACLE, third-party vendors, or home-grown, must comply your enterprise security standard, these utilities must be capable to log and trace activities and contents of your sensitive data in and out from its data source, and an user defined routine is callable to format and to store auditable information to your central security vault.

VerticoDATA threat analytical tool, the broader auditing information are logged to VerticoDATA security vault, the more accurate threats are predicted.

VerticoDATA offers a full set of building blocks and libraries, you may create proprietary database access utilities with embedded security functions for all your internal and external enterprise users.

The subsequent pages illustrate sample utilities that are created on top of VerticoDATA security platform and their respective security measurements.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - FREE Secure Tools



DBAPlus

DBAPlus - a database dynamically access tool. Data query, data manipulation, database structure manipulation, data piping, access control, and etc.



DBAdvisor

DBAdvisor - a database table spaces and partitions management tool. Data storage allocation analysis and access performance impact analysis.



DBRescuer

DBRescuer - a real-time data recovery tool. Roll back and damaged data on a production database. Redo and undo any data damages in a live production database environment.



ORACLE Setup

ORACLE setup and configuration required for VerticoDATA core engine.



VerticoDATA Setup

VerticoDATA can be configured dynamically via runtime parameters which can be set thru environment or a configuration file.



Document Tracer

Document Tracer is a technology invented by iMaxsoft to track the transmission of sensitive documents among you, your customers, and your business constituents and partners.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAPlus

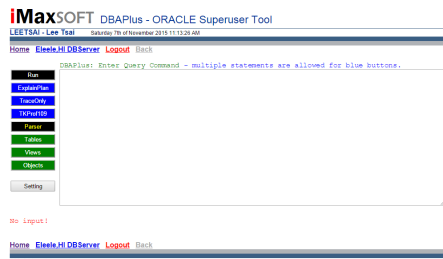


DBAPlus

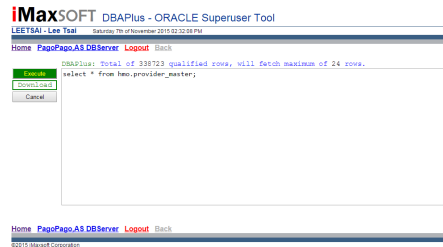
DBAPlus - a database dynamically access tool, which serves end-users, IT staff, DBA and security officers for database structure maintenance, performance analysis, data analysis and manipulation, data piping, access control, and etc.

DBAPlus contains built-in security measurements as followings:

1. seamlessly interact with VerticoDATA core engine to track and log auditing information for threats control
2. performance evaluation and turning assistance
3. run-away query and long transaction prevention
4. enterprise global settings for user access time constraint, and retrieved data volume control
5. web and mobile version of sqlplus (full functions)



The main menu of DBAPlus contains 5 main functions, Secure SQLPLUS, Query Performance Tuner, SQL Parser, Database Structure and Data Quick Scanner, and DBAPlus Environment Settings.



Secure SQLPLUS - you may enter any valid DDL and DML in the text box, then hit **RUN** button, a confirmation page will be displayed with statistic information and wait for you to hit EXECUTE, DOWNLOAD or CANCEL button.

EXECUTE will continue and finish the query (DDL or DML) and show results if there are rows found and fetched.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAPlus



iMaxSOFT DBAPlus - ORACLE Superuser Tool

LEET3487 - Lee Teap Saturday 10 of November 2012 10:40 PM

Home PageFusionAS DB Server Logout Help

Run DBAPlus: Enter Query Command - Multiple statements are allowed for blue buttons.
select * from dbms_xplogi_mstr;

Execute
TraceOnly
TKProf109
Execute
View
Cancel
Setting

NOTE: More than 24 rows are qualified, but only 24 rows are displayed.

```
==== |====
PROVIDER_ID      = 00791104
ALTERNATE_ID1   = 91104
ALTERNATE_ID2   =
ALTERNATE_ID3   =
ALTERNATE_ID4   =
ALTERNATE_NAME  =
SECURITY_TYPE   = 000
PROVIDER_TYPE   = P
STATUS          = AC
MEMBER_CAPACITY = 0
MEMBER_COUNT    = 0
MEMBER_ACCEPTANCE = V
SALFRAIDOP      = 96
MODE            = BISHOP
MIDDLE_NAME     =
FIRST_NAME      = D. GRANT
PHONETIC_KEY    = B01
```

DOWNLOAD will transfer fetched data to your local storage. Or you may CANCEL the query.

Query Performance Tuner - depends on the database structure, the ORACLE kernel optimizer, and how a query is constructed, the user query can be tuned for efficiency and performance.

Valuable statistics information are provided from ORACLE kernel query analyzer and optimizer at different stages of a query execution. Of course the most accurate estimate is to gather information after the query is completely done, but in most cases we need to know the guesstimate of a query before it starts draining database resources.

VerticoDATA provides you 3 ways to evaluate a query and get different degree of guesstimated runtimes before execution, they are **ExplainPlan**, **TraceOnly**, and **TKProf109**. The ExplainPlan is using ORACLE "EXPLAIN PLAN FOR <your query>;" and then display the result from table dbms_xplain.display. The TraceOnly is using the feature "set autotrace traceonly;" from ORACLE sqlplus. The TKProf109 is using ORACLE tkprof utility, temporarily sets "ALTER SESSION SET SQL_TRACE = TRUE", and reads the ORACLE trace logfile afterwards.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAPlus



iMaxSOFT DBAPlus - ORACLE Superuser Tool

ExplainPlan example.

LEETSAI - Lee Test | 10/11/2015 11:28:50 AM

Home | Eleeta.HI DBServer | Logout | Back

DBAPlus: Enter Query Command - multiple statements are allowed for blue buttons.

```
select * from "SYS"."ALL_TABLES";
```

Execution Plan

```

-----
| Id | Operation | Name | Rows | Bytes | Cost (CPU) | Time |
-----
* 0 | SELECT STATEMENT | | | | | |
* 1 | FIXED TABLE FULL | X$SPPOV | 359 | 816K | 979 (7) | 00:00:12 |
* 2 | MERGE JOIN | | | | | |
* 3 | MERGE JOIN CARTESIAN | | | | | |
* 4 | MERGE JOIN OUTER | | | | | |
* 5 | MERGE JOIN OUTER | | | | | |
* 6 | MERGE JOIN OUTER | | | | | |
* 7 | TABLE ACCESS FULL | USERS | 111 | 377K | 4 (0) | 00:00:01 |
* 8 | MERGE JOIN | | | | | |
* 9 | TABLE ACCESS FULL | USERS | 111 | 377K | 4 (0) | 00:00:01 |
* 10 | MERGE JOIN OUTER | | | | | |
* 11 | MERGE JOIN OUTER | | | | | |
* 12 | MERGE JOIN | | | | | |
* 13 | MERGE JOIN | | | | | |
* 14 | TABLE ACCESS FULL | SYS | 15 | 31K | 6 (0) | 00:00:01 |
* 15 | TABLE ACCESS FULL | SYS | 2772 | 389K | 595 (3) | 00:00:08 |
* 16 | TABLE ACCESS FULL | SYS | 2772 | 389K | 595 (3) | 00:00:08 |
* 17 | INDEX PART FULL SCAN | I_ORA2 | 15 | 31K | 6 (0) | 00:00:01 |
* 18 | INDEX PART FULL SCAN | I_ORA2 | 70503 | 553K | 59 (0) | 00:00:01 |
* 19 | BUFFER SORT | | 1 | 55 | 704 (8) | 00:00:10 |
* 20 | FIXED TABLE FULL | X$SPPOV | 1 | 26 | 0 (0) | 00:00:00 |
* 21 | NESTED LOOPS | | 1 | 22 | 2 (0) | 00:00:01 |
* 22 | INDEX RANGE SCAN | I_ORA2 | 1 | 8 | 0 (0) | 00:00:00 |
* 23 | INDEX RANGE SCAN | I_ORA2 | 1 | 13 | 0 (0) | 00:00:01 |
* 24 | FIXED TABLE FULL | X$SPPOV | 1 | 26 | 0 (0) | 00:00:00 |
* 25 | INDEX RANGE SCAN | I_ORA2 | 1 | 26 | 0 (0) | 00:00:00 |

```

Predicate Information (identified by operation id):

iMaxSOFT DBAPlus - ORACLE Superuser Tool

TraceOnly example.

LEETSAI - Lee Test | 10/11/2015 11:32:48 AM

Home | Eleeta.HI DBServer | Logout | Back

DBAPlus: Enter Query Command - multiple statements are allowed for blue buttons.

```
select * from "SYS"."PROV_SPECIALTY";
```

Execution Plan

```

-----
| Id | Operation | Name | Rows | Bytes | Cost (CPU) | Time |
-----
* 0 | SELECT STATEMENT | | | | | |
* 1 | TABLE ACCESS FULL | PROV_SPECIALTY | 321K | 59K | 2469 (1) | 00:00:10 |

```

Statistics

```

-----
0 recursive calls
0 block gets
30337 consistent gets
978 physical reads
0 redo size
6764820 bytes sent via SQL*Net to client
230713 bytes received via SQL*Net from client
2346 SQL*Net roundtrips to/from client
0 sorts (memory)
0 sorts (disk)
321590 rows processed

```

iMaxSOFT Corporation

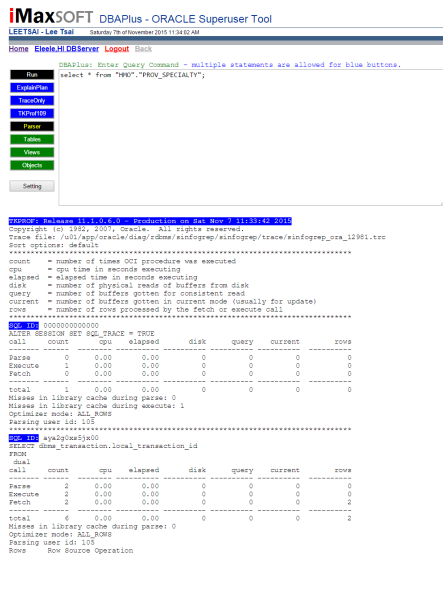
Tel: (408) 253-8808
 Fax: (408) 253-4008
 E-mail: lee@imaxsoft.com
 www.imaxsoft.com
 P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

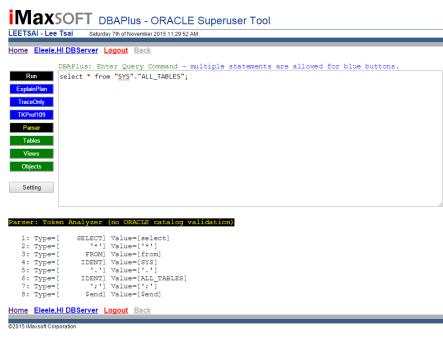
iMaxSOFT
VerticoDATA Quick User Guide
An **Absolute Secure** Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAPLus



TKProf109 example.



Query Parser - this is an extremely important feature, and it should be used in conjunction with **ExplainPlan**, **TraceOnly**, or **TKprof109** in order to precisely identify whether a query is touching sensitive data objects from your database or not.

Query performance run tree contains a detail list of all accessed objects, so it is the best place to start investigate whether a particular query accesses your sensitive data source or not. In many case the sensitive data objects are hidden in complex views or are renamed to difference objects, the run tree from ExplainPlan, TraceOnly and TKProf109 breaks query to its base objects.

Parser and performance techniques are also part of VerticoDATA building blocks provided for you to integrate to your applications and create your access secure shield.

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAPlus



iMaxSOFT DBAPlus - ORACLE Superuser Tool
LEETSAI - Lee Tsai Saturday 7th of November 2015 11:14:10 AM

Home Eleete.HI DBServer Logout Back

DBAPlus Settings:

1. Maximum rows to be fetched is 24 per query, change to rows.
2. Perform query pre-execution explain plan? Yes No
Show query's guessimate execution time before executing the query.
3. Get total row-count before query's data fetching? Yes No
Show query's total number of qualified rows before executing the query.
4. Query execution time limit is 20 CPU seconds, reset to CPU seconds.
Specifies the maximum time (in seconds) allowed for a long query. 0 is unlimited.
5. Maximum number of characters per line per row, reset to characters.
If query row length exceeds above number, each row will be shown as one column per line.

Home Eleete.HI DBServer Logout Back
©2015 iMaxSOFT Corporation

VerticoDATA **DBAPlus query runtime configuration** - a secure query tool provides a secure environment for users to safely conduct sensitive and non-sensitive accesses to and from databases. Any security measures are invisible to your end-users and are so comprehensive that you are not only can monitoring the traffic of data accesses, but also know the exact content accessed by users.

VerticoDATA DBAPlus setting demonstrates the fundamental requirements for a secure query tool.

1. limit the maximum number of fetched rows returned from users' queries
2. show query's guessimate runtime before its execution, so that users know the approximately execution time of their queries to avoid long-queries
3. show query's total qualified row count before its execution, so that users know the exact size of result set before commit it
4. limit the maximum time that is permitted for each query, this will prevent any run-away long queries
5. many others ,,,

The goal is to pre-set your enterprise security rules at tool level, so that your end-users can openly and freely access your database without accidentally stepping on any your security land-mines.

Today's sophisticated security hacking techniques has changed the way how we manage and distribute traditional tools and utilities. The old fashion and closed environment tools and utilities are the most vulnerable to data leaks and cyber attacks.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA **iMax**SOFT

VerticoDATA Quick User Guide
An **Absolute Secure** Enterprise Security Solution

An **Absolute Secure** Enterprise Security Solution

VerticoDATA - DBAPlus



DBXray - "how comprehensive and secure the DBXray is" drives the success rates of your IT database centric application development.

In order to seamlessly synchronizing your software development team and be sure all members are always on the same page, your must have a secure tool that acts as a focal point and can be accessed 24 by 7, from anywhere and any devices internet and mobile.

VerticoDATA has created a set of tools that you can deployed as it or enhance them by adding more control and more database objects. DBXray contains database TABLE structure and data management, database VIEW structure and data management, and database PROCEDURE, TRIGGER, and SEQUENCE objects structure management.

TABLE name list, DBXray groups tables by their associated schemas. A **"first | prev 500 | next 500 | last"** is displayed for schema that contains more than 500 tables.

You may view each TABLE **structure** by clicking on the name of the table. A separate tab is opened for showing the table structure in details. You can switching between these 2 tables for viewing other tables.

If you click on the **ViewData** link, the table content will be shown, the maximum number of rows displayed depends on the settings set via hitting **Setting** button.

```
iMaxSOFT DBAPlus - ORACLE Superuser Tool
LEEFSAI - Lee Tsai          Saturday, 7th of November 2013 11:14:48 AM
Home  Ezele.HI.DBServer  Logout  Search
-----
DBAPlus: Enter Query Command - multiple statements are allowed for blue buttons.
-----
No input!
DBAPlus: command: refresh all caches
-----
1  CDDSPR              43 tables
2  CDDSPR              43 tables
3  CDDSPR              43 tables
4  CDDSPR              43 tables
5  SCHEM_CDDSPR       432 tables
6  SCHEM_CDDSPR       432 tables
7  SCHEM_CDDSPR       432 tables
8  SCHEM_CDDSPR       432 tables
-----
9  I_MAXDATA_PROVIDER_MASTER 3 tables - expanded
10 I_MAXDATA_PROVIDER_MASTER 3 tables
11 I_MAXDATA_PROVIDER_MASTER 3 tables
-----
12 SCHEM              1 tables
13 SCHEM              1 tables
14 SCHEM              1 tables
15 SCHEM              1 tables
16 SCHEM              1 tables
17 SCHEM              1 tables
18 SCHEM              1 tables
19 SCHEM              1 tables
20 SCHEM              1 tables
21 SCHEM              1 tables
22 SCHEM              1 tables
23 SCHEM              1 tables
24 SCHEM              1 tables
25 SCHEM              1 tables
-----
```

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAPIus



iMaxSOFT DBAPIus - ORACLE Superuser Tool

LEEYSAI - Lee Tsai Saturday 7th of November 2015 11:16:17 AM

Table Name: HMO.PROV_SPECIALTY

Column Attributes - 12 columns

Column Name	Column Type	Column Length	Column Nullable
PROVIDER_ID	CHAR	10	NOT NULL
PRIORITY_ID	NUMBER	38	NOT NULL
SPECIALTY_CODE	CHAR	6	NOT NULL
EFFECTIVE_DATE	CHAR	8	NOT NULL
EXPIRATION_DATE	CHAR	8	NOT NULL
CERTIFICATION_ID	CHAR	20	NOT NULL
GEO_CERTIFIED	CHAR	20	NOT NULL
STATUS	CHAR	4	NOT NULL
USER_ENTERED	CHAR	40	NOT NULL
DATE_TIME_ENTERED	CHAR	12	NOT NULL
USER_UPDATED	CHAR	40	NOT NULL
DATE_TIME_UPDATED	CHAR	12	NOT NULL

1 associated index:

Index Name	Index Type	Index Columns
PROVSPECIDM_Q2 (UNIQUE)	UNIQUE	PROVIDER_ID SPECIALTY_CODE

©2015 Maxsoft Corporation

DBXray - TABLE structure display (on a separate tab)

iMaxSOFT DBAPIus - ORACLE Superuser Tool

LEEYSAI - Lee Tsai Saturday 7th of November 2015 11:16:47 AM

Home **Execute SQL Server Logout** [Back](#)

DBAPIus: Enter Query Command - multiple statements are allowed for blue buttons.

select * from 'HMO"."PROV_SPECIALTY";

Buttons: ExecuteSQL, ExecuteOnly, Execute, Tables, Views, Objects, Settings

DBAPIus: more than 21 rows are qualified, but only 21 rows are displayed

```

1 ---
PROVIDER_ID = C0792777
PRIORITY = 0
SPECIALTY_CODE = PS
EFFECTIVE_DATE =
EXPIRATION_DATE =
CERTIFICATION_ID =
GEO_CERTIFIED =
STATUS =
USER_ENTERED = LEETSOB
DATE_TIME_ENTERED = 19990211136
USER_UPDATED = LEETSOB
DATE_TIME_UPDATED = 19990211136

2 ---
PROVIDER_ID = C0792777
PRIORITY = 0
SPECIALTY_CODE = PS
EFFECTIVE_DATE =
EXPIRATION_DATE =
CERTIFICATION_ID =
GEO_CERTIFIED =

```

DBXray - TABLE content display. If each row content can be fit in a pre-set (Setting) line size, then each row is displayed horizontally, otherwise each row is displayed vertically with column name on the left and data on the right.

iMaxSOFT DBAPIus - ORACLE Superuser Tool

LEEYSAI - Lee Tsai Monday 9th of November 2015 02:23:30 PM

Home **Execute SQL Server Logout** [Back](#)

DBAPIus: Enter Query Command - multiple statements are allowed for blue buttons.

select provider_id, name from hmo.provider_master where name != ' ';

Buttons: ExecuteSQL, ExecuteOnly, Execute, Tables, Views, Objects, Settings

DBAPIus: more than 21 rows are qualified, but only 21 rows are displayed

```

SEQ PROVIDER_ID NAME
-----
1 #16387101 "CHSP" BROWNSH
2 #19954401 "P" DAME
3 #70248000 "MY DOC" POOPHILL PEDIATRIC MEDICAL
4 #744601 BRIDGY GARCIA
5 #19918029 (HESLEY)
6 #19918029 (HESLEY)
7 #19928001 (BREYVILLE)
8 #11446000 (THOMAS) HUNN
9 #11449501 (CHI) KIRINO
10 0000 ** JORDAN CENTER
11 0124 **KOLSON & RECTAL SURG
12 0141 **NANCY JOHNSON MD MB
13 0445 **JOSH COMBLE MD PA
14 0151 **NICHOLE MARY FOOT CLT
15 0142 **METRO UROLOGY CLINIC
16 0101 **POWER PROGRAM CLINIC
17 0107 **PERSONNEL EYE/OPTICAL
18 0146 **STONARD HERNANDEZ
19 0111 **ST PAUL EYE CLINIC
20 0141 **STODOLSKA PHYSICIAN
21 #15345401 AGS
22 0000
23 #17229401 FERRER
24 #12312909 00983163

```

DBXray - horizontally display.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAdvisor



DBAdvisor - a database storage space management tool. DBAdvisor offers you a global view of the layouts of tables, indexes, tablespaces, and partitions. The appropriate allocation and mapping of logical data structure and physical storage is crucial for database performance.

DBAdvisor assists you to manage the allocation of logical database structures and physical storage spaces. The logical database structure is referred to tables and indexes, and the physical storage is referred to tablespaces, partitions, and OS data files. The physical storage contains devices with variant access speeds, and the properties of logical tables are variant from the size of tables, the access methods of tables, the indexes of tables, the partitions of tables, and the usages of tables. Properly mapping of logical structure and physical storage drives the overall performance of your database.

Tablespace Usage - based on the tablespace name you entered, either a full or a partial tablespace name, a list of qualified tablespaces is shown along with their respective usage statistics.

You may click on a specific tablespace from *main tab* for a detail analysis report which is shown in a separated *second tab*, and you may switch back to the *main tab*, and select another tablespace whose detail report is refreshed to the *second tab*. You may go between *main* and *second* tabs for tablespace name list and their respective tablespace usage detail report.

iMaxSOFT DBAdvisor - ORACLE Space Manager
LEETSAI - Lee Tsai Monday 23rd of November 2015 10:13:01 AM

Home Palau.PW.DBServer Logout Back

DBAdvisor: ORACLE Tablespace and Partitionspace Manager

Tablespace Usage Tablespace Name or Partitioned Table Name:

TBSUsage Download Enter tablespace name for tablespace space management; enter partitioned table name for partition space control.

Partition Usage A full or a partial name is allowed; enter nothing for all. For demo, defaults are 'TBS%' for tablespace and 'FACT%' for partitioned table name.

PIUsage Download

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

iMaxSOFT DBAdvisor - ORACLE Space Manager
LEETSAI - Lee Tsai Monday 23rd of November 2015 12:01:44 PM

Home Palau.PW.DBServer Logout Back

DBAdvisor: ORACLE Tablespace and Partitionspace Manager

Tablespace Usage Tablespace Name or Partitioned Table Name: TBS%M

TBSUsage Download Enter tablespace name for tablespace space management; enter partitioned table name for partition space control.

Partition Usage A full or a partial name is allowed; enter nothing for all. For demo, defaults are 'TBS%' for tablespace and 'FACT%' for partitioned table name.

PIUsage Download

RESULT: 4 rows selected.

SEQ	Tablespace Name	Used MB	Free MB	Total MB	Part.	Free
1	TBS_P001	4,527	3,473	10,000	10B	
2	TBS_P002	4,000	400	10,000	10B	
3	TBS_P003	4,000	400	10,000	10B	
4	TBS_P004	4,000	400	10,000	10B	

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAdvisor

iMaxSOFT DBAdvisor - ORACLE Space Manager

LEETSAI - Lee Tsai Monday 23rd of November 2015 12:38:18 PM

DBAdvisor - Tablespace Name: TBS_HMO

TBS_HMO Tablespace Free Space: 2,475 MB of 18,000 MB

3,473 MB Free
14,527 MB Used



TBS_HMO Tablespace Usage Distribution: 14,527.44 MB

INDEX=12,409.69 MB
TABLE=2,117.75 MB



RESULTS: 37 rows selected.

SEG	Segment Type	Segment Name	Total KB
1	INDEX	IND_AUCTION_IDM	13,312
2	INDEX	IND_EMPLOYEEID	20,480
3	INDEX	IND_EMPLOYEE	8,192
4	INDEX	IND_EMPLOYEEID	300,720
5	INDEX	IND_EMPLOYEEID	7,168
6	INDEX	IND_EMPLOYEEID	64
7	INDEX	IND_EMPLOYEEID	14,336
8	INDEX	SEDC_MDM_DATE_DIM	9,216
9	INDEX	SEDC_MDM_I10_INTERVAL	114,688
10	INDEX	SEDC_MDM_I10_INTERVAL_FACT	12,490,800
11	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
12	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
13	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
14	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
15	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
16	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
17	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
18	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
19	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
20	INDEX	SEDC_MDM_I10_INTERVAL_FACT	64
21	TABLE	IND_EMPLOYEEID	409,600
22	TABLE	IND_EMPLOYEEID	75,728
23	TABLE	IND_EMPLOYEEID	64
24	TABLE	SEDC_MDM_DATE_DIM	327,680
25	TABLE	SEDC_MDM_DATE_DIM	64
26	TABLE	SEDC_MDM_DATE_DIM	64
27	TABLE	SEDC_MDM_DATE_DIM	1,310,720
28	TABLE	SEDC_MDM_DATE_DIM	46,080
29	TABLE	SEDC_MDM_DATE_DIM	64
30	TABLE	SEDC_MDM_DATE_DIM	64
31	TABLE	SEDC_MDM_DATE_DIM	64
32	TABLE	SEDC_MDM_DATE_DIM	64
33	TABLE	SEDC_MDM_DATE_DIM	64
34	TABLE	SEDC_MDM_DATE_DIM	64
35	TABLE	SEDC_MDM_DATE_DIM	64
36	TABLE	SEDC_MDM_DATE_DIM	64
37	TABLE	SEDC_MDM_DATE_DIM	64

©2015 Microsoft Corporation

iMaxSOFT DBAdvisor - ORACLE Space Manager

LEETSAI - Lee Tsai Monday 23rd of November 2015 01:18:34 PM

Table "SEDC_MDM.DATE_DIM" in tablespace TBS_HMO

```
CREATE TABLE "SEDC_MDM"."DATE_DIM"
(
  "FULL_DATE" DATE NOT NULL ENABLE,
  "DAY_OF_WEEK" NUMBER,
  "DAY_NBR_IN_MONTH" NUMBER,
  "DAY_NAME" VARCHAR2(9),
  "DAY_ABBREV" VARCHAR2(3),
  "WEEKDAY_FLAG" VARCHAR2(7),
  "WEEK_NUMBER_IN_YEAR" NUMBER,
  "WEEK_BEGIN_DATE" NUMBER,
  "WEEK_BEGIN_DATE_REV" NUMBER,
  "MONTH" NUMBER,
  "MONTH_NAME" VARCHAR2(9),
  "MONTH_ABBREV" VARCHAR2(3),
  "QUARTER" NUMBER,
  "YEAR" NUMBER,
  "YEAR_N" NUMBER,
  "LAST_DAY_IN_MONTH_FLAG" VARCHAR2(13),
  "SAME_DAY_YEAR_AGO_DATE" DATE,
  CONSTRAINT "PK1_DATE_DIM" PRIMARY KEY ("FULL_DATE")
)
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT)
TABLESPACE "TBS_HMO"
PARTITION BY RANGE ("FULL_DATE")
(
  PARTITION "TBS_HMO" VALUES LESS THAN (TO_DATE('2015-12-31', 'YYYY-MM-DD'))
)
TABLESPACE "TBS_HMO"
```

©2015 Microsoft Corporation

iMaxSOFT DBAdvisor - ORACLE Space Manager

LEETSAI - Lee Tsai Monday 23rd of November 2015 01:20:03 PM

Index "SEDC_MDM.PK1_DATE_DIM" in tablespace TBS_HMO

```
CREATE UNIQUE INDEX "SEDC_MDM"."PK1_DATE_DIM" ON "SEDC_MDM"."DATE_DIM" ("FULL_DATE")
PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT)
TABLESPACE "TBS_HMO"
```

©2015 Microsoft Corporation

Tablespace Usage Report - the first chart shows tablespace available free space. The second chart shows the mapping of tables and indexes in tablespace used space. A full list of all indexes and tables are show below the charts.

You may click on an index or a table link and a **third tab** is created for a detail specification of the object. You may switch between **second tab** and **third tab** for details of all objects belonged to the specific tablespace.

The **third tab** contains detail specification of table **SEDC_MDM.DATE_DIM**.

The **third tab** contains detail specification of index **SEDC_MDM.PK1_DATE_DIM**.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAdvisor

iMaxSOFT DBAdvisor - ORACLE Space Manager
LEETSJAI - Lee Tsai Monday 23rd of November 2015 10:13:01 AM

Home Palau,PW,DBServer Logout Back

DBAdvisor: ORACLE Tablespace and Partitionspace Manager

Tablespace Usage: Tablespace Name or Partitioned Table Name:
 TBSUsage Download: Enter tablespace name for tablespace space management; enter partitioned table name for partition space control.
 Partition Usage: A full or a partial name is allowed; enter nothing for all. For demo, defaults are 'TBS%M' for tablespace and 'FACT%' for partitioned table name.
 PTUsage Download: Enter tablespace name for tablespace space management; enter partitioned table name for partition space control.

Home Palau,PW,DBServer Logout Back

©2015 iMaxsoft Corporation

Partition Usage - based on the tablespace name you entered, either a full or a partial tale name, a list of qualified partitions is shown along with their respective capacity.

iMaxSOFT DBAdvisor - ORACLE Space Manager
LEETSJAI - Lee Tsai Monday 23rd of November 2015 01:27:38 PM

Home Palau,PW,DBServer Logout Back

DBAdvisor: ORACLE Tablespace and Partitionspace Manager

Tablespace Usage: Tablespace Name or Partitioned Table Name: FACT%
 TBSUsage Download: Enter tablespace name for tablespace space management; enter partitioned table name for partition space control.
 Partition Usage: A full or a partial name is allowed; enter nothing for all. For demo, defaults are 'TBS%M' for tablespace and 'FACT%' for partitioned table name.
 PTUsage Download: Enter tablespace name for tablespace space management; enter partitioned table name for partition space control.

RESULT: 6 rows selected.

SEQ	Tablespace(Partition)	Total KB
1	TBS_MDM_P3(SYS_P151)	3,276,800
2	INDEXI_SEDC_MDM_INT_INTERVAL_USAGE_FACT3	3,276,800
3	TBS_MDM_P3(SYS_P151)	3,276,800
4	INDEXI_SEDC_MDM_INT_INTERVAL_USAGE_FACT3	3,276,800
5	TBS_MDM_P3(SYS_P151)	6,553,600
6	TBS_MDM_P3(SYS_P151)	6,553,600

Home Palau,PW,DBServer Logout Back

©2015 iMaxsoft Corporation

You may click on a specific partition from *main tab* for a detail analysis report which is shown in a separated *second tab*, and you may switch back to the *main tab*, and select another partition whose detail report is refreshed to the *second tab*. You may go between *main* and *second* tabs for partition name list and their respective partition usage detail report.

iMaxSOFT DBAdvisor - ORACLE Space Manager
LEETSJAI - Lee Tsai Monday 23rd of November 2015 02:15:20 PM

DBAdvisor - Tablespace:TBS_MDM_P3 Partition:SYS_P151

TBS_MDM_P3 Tablespace Free Space: 400 MB of 10,000 MB

400 MB Free
 3,200 MB Used
 6,400 MB SYS_P151

SYS_P151 Partition Usage Distribution: 6,400 MB

TABLE PARTITION=6,400 MB

RESULT: 1 row selected.

SEQ	Segment Type	Segment Name	Total KB
1	TABLE PARTITION	SEDC_MDM_INTERVAL_USAGE_FACT3	6,553,600

©2015 iMaxsoft Corporation

The detail analysis report for partition SYS_P151 which is the named tablespace TBS_MDM_P3. The partition SYS_P151 is used only by table SEDC_MDM.INTERVAL_USAGE_FACT3. The is the *second tab*, and you can click on the table link to view its detail specification in *third tab*.

iMaxSOFT Corporation

Tel: (408) 253-8808
 Fax: (408) 253-4008
 E-mail: lee@imaxsoft.com
 www.imaxsoft.com
 P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBAdvisor



iMaxSOFT DBAdvisor - ORACLE Space Manager

LEETSBI - Lee Tsal Monday 23rd of November 2015 02:23:18 PM

Table "SEDC_MDM_INTERVAL_USAGE_FACT3" in partition TBS_MDM_P3(SYS_P161)

```
CREATE TABLE "SEDC_MDM"."SEDC_MDM_INTERVAL_USAGE_FACT3" (
  "MEM_ID" NUMBER NOT NULL ENABLE,
  "READ_DATE" DATE NOT NULL ENABLE,
  "PAGE" NUMBER(10,5) NOT NULL ENABLE,
  "NOTE" VARCHAR2(255),
  "STATUS" NUMBER
) PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS
STORAGE (
  BUFFER_POOL DEFAULT)
PARTITIONSPACE "TBS_MDM_P3"
PARTITION BY RANGE ("READ_DATE") (
  PARTITION "SYS_P161" VALUES LESS THAN (TO_DATE(' 2014-09-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS', 'NLS_CALENDAR=Gregorian'))
  STORAGE(INITIAL 65536 NEXT 1048576 NOEXTENTS 1 NOEXTENTS 2147483648
  PCTINCREASE 0 PRELISTS 1 PRELIST GROUPS 1 BUFFER_POOL DEFAULT)
  TABLESPACE "TBS_MDM_P3" NOCOMPRESS,
  PARTITION "SYS_P162" VALUES LESS THAN (TO_DATE(' 2014-10-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS', 'NLS_CALENDAR=Gregorian'))
  STORAGE(INITIAL 65536 NEXT 1048576 NOEXTENTS 1 NOEXTENTS 2147483648
  PCTINCREASE 0 PRELISTS 1 PRELIST GROUPS 1 BUFFER_POOL DEFAULT)
  TABLESPACE "TBS_MDM_P3" NOCOMPRESS,
  PARTITION "SYS_P163" VALUES LESS THAN (TO_DATE(' 2014-11-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS', 'NLS_CALENDAR=Gregorian'))
  STORAGE(INITIAL 65536 NEXT 1048576 NOEXTENTS 1 NOEXTENTS 2147483648
  PCTINCREASE 0 PRELISTS 1 PRELIST GROUPS 1 BUFFER_POOL DEFAULT)
  TABLESPACE "TBS_MDM_P3" NOCOMPRESS
);
```

©2015 iMaxSOFT Corporation

You may click on an index or a table link and a *third tab* is created for a detail specification of the object. You may switch between *second tab* and *third tab* for details of all objects belonged to the specific tablespace.

The *third tab* contains detail specification of table `SEDC_MDM.INTERVAL_USAGE_FACT3`.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBRescuer



DBRescuer

DBRescuer - a complete security solution does not only detect and block data leaks, but also needs to recover damages caused by data sabotages. DBRescuer integrates with ORACLE logmnr utility, it ties user processes and ORACLE transactions as events, you can search, REDO and UNDO any specific transaction from your iPhone, iPad or a PC.

Thru VerticoDATA building foundation, you can develop an automate recovery process via a set of specific criteria.

DBRescuer **ORACLE SwitchLog** - in order to access most current transactions committed by ORACLE on your database server, VerticoDATA requires you to flush committed transactions from ORACLE redo-logfiles to logmnr archived-logfiles first.

Precisely matching VerticoDATA's audit logs and ORACLE logmnr archived logfiles is crucial for database forward and backward recovery.

DBRescuer **Cache All OPEN** - to minimize the load and the operational intervention on database server, and to speed up transaction search, VerticoDATA caches ORACLE redo and undo transactions to a recovery vault. This action will automatically caches checked-in but un-cached transactions from database server to VerticoDATA recovery vault *all at once*.

DBRescuer **Get Transaction** - you may locate transactions occurred in a period of time, from a specific process, through a specific user login, on a specific database server, or any combination of these search criteria. You may easily customize this powerful tool via VerticoDATA building block.

iMaxSOFT VerticoDATA Tracefile, Setting and Configuration
LEETSAT - Lee Test Monday 23rd of November 2015 02:32:58 PM
Home [Palau.PW.DBServer](#) [Logout](#) [Back](#)

DBRescuer: ORACLE Transaction Security and Recovery

ORACLE SwitchLog A graceful ORACLE switching that flushes redo-logs to archived-logs. VerticoDATA can only restore transactions from ORACLE archived logfiles.

Cache All OPEN VerticoDATA caches UNDO and REDO transactions to a recovery vault (logfile) in SQL executable form which are then used for realtime database repair. This action caches all checked-in but un-cached ORACLE transactions to VerticoDATA recovery vault. (logfile) for better performance.

Get Transaction Period (YYYY/MM/DD): 2015/09/01 - 2015/09/31
Process Name:
Clear and Set Defaults OS User Name:
Cache SELECTED Database Server Name:

Click on the browser address bar to link to UNDO or REDO ORACLE transactions. The 'x' mark denotes that ORACLE transactions' recovery statements have been cached to local recovery vault (logfile).

```

SQL*Plus log 2015-08-21 12:09:31 user-leest program=sqlplus@palau2 pid=29134
SQL*Plus log 2015-08-27 09:04:38 user-leesthms program=sqlplus@palau2 pid=19376
SQL*Plus log 2015-08-23 10:38:06 user-leest program=sqlplus@palau2 pid=4819
SQL*Plus log 2015-09-30 11:40:26 user-leest program=proc@palau2 pid=10089
SQL*Plus log 2015-09-30 11:40:31 user-leest program=proc@palau2 pid=17821
SQL*Plus log 2015-09-29 10:05:16 user-leest program=proc@palau2 pid=5916
SQL*Plus log 2015-09-26 13:49:04 user-leest program=proc@palau2 pid=20326
SQL*Plus log 2015-09-23 14:51:21 user-leest program=proc@palau2 pid=24361
SQL*Plus log 2015-09-22 16:08:51 user-leest program=proc@palau2 pid=14338
    
```

38 transactions found from 9 log events - Oracle READ and WRITE transactions

Home [Palau.PW.DBServer](#) [Logout](#) [Back](#)

©2015 iMaxsoft Corporation

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - DBRescuer



iMaxSOFT VerticoDATA Tracefile, Setting and Configuration
LEETSAL - Lee Tsai Monday 23rd of November 2015 02:32:34 PM

Home Palau.PW DBServer Logout Back

DBRescuer: ORACLE Transaction Security and Recovery

ORACLE SWATCH A graceful ORACLE swatching that flushes redo-logs to archived-logs. VerticoDATA can only rescue transactions from ORACLE archived logfiles.

Cache All OPEN VerticoDATA caches UNDO and REDO transactions to a recovery vault (MySQL) in SQL executables from which are then used for real-time database repair. This action caches all checked-in but un-cached ORACLE transactions to VerticoDATA recovery vault (MySQL) for better performance.

Get Transaction: Period (YYYY/MM/DD): 2015/05/01 - 2015/08/31

Clear and Set Defaults: Process Name: OS User Name: Database Server Name:

Cache SELECTED

Click on the browser color process link to view or redo ORACLE transactions. The 'x' mark denotes that ORACLE transactions' recovery statements have been added to local recovery vault (MySQL).

```
SQL*Net Log 2015-08-21 12:09:13 user=lee@palau program=sqlplus@linux2 pid=22134
SQL*Net Log 2015-08-17 09:04:34 user=lee@palau program=sqlplus@linux2 pid=19376
SQL*Net Log 2015-05-29 10:05:06 user=lee@palau program=sqlplus@linux2 pid=4819
SQL*Net Log 2015-05-30 11:40:26 user=lee@palau program=sqlplus@linux2 pid=18058
SQL*Net Log 2015-05-30 11:15:31 user=lee@palau program=sqlplus@linux2 pid=17921
SQL*Net Log 2015-05-29 10:05:16 user=lee@palau program=sqlplus@linux2 pid=3916
SQL*Net Log 2015-05-26 14:47:04 user=lee@palau program=sqlplus@linux2 pid=20296
SQL*Net Log 2015-05-26 14:15:22 user=lee@palau program=sqlplus@linux2 pid=21361
SQL*Net Log 2015-05-12 16:08:51 user=lee@palau program=sqlplus@linux2 pid=14591
```

38 transactions found from 9 log events - Oracle READ and WRITE transactions

Home Palau.PW DBServer Logout Back

0019 Altered Operation

DBRescuer Clear and Set Defaults - to clear all search fields and set the period to default 2015/05/01 thru 2015/08/31.

DBRescuer Cache SELECTED - caches those un-cached transactions from database server to VerticoDATA recovery vault from the *selected* list.

iMaxSOFT VerticoDATA Tracefile, Setting and Configuration
LEETSAL - Lee Tsai Sunday 5th of November 2015 08:50:48 AM

Home Palau.PW DBServer Logout Back

DBRescuer: ORACLE Transaction Security and Recovery

ORACLE SWATCH A graceful ORACLE swatching that flushes redo-logs to archived-logs. VerticoDATA can only rescue transactions from ORACLE archived logfiles.

Cache All OPEN VerticoDATA caches UNDO and REDO transactions to a recovery vault (MySQL) in SQL executables from which are then used for real-time database repair. This action caches all checked-in but un-cached ORACLE transactions to VerticoDATA recovery vault (MySQL) for better performance.

Get Transaction: Period (YYYY/MM/DD): 2015/05/01 - 2015/08/31

Clear and Set Defaults: Process Name: OS User Name: Database Server Name:

Cache SELECTED

Click on the browser color process link to view or redo ORACLE transactions. The 'x' mark denotes that ORACLE transactions' recovery statements have been added to local recovery vault (MySQL).

```
SQL*Net Log 2015-08-21 12:09:13 user=lee@palau program=sqlplus@linux2 pid=22134
Oracle XID# 1.13.145055 TXNTYPE=W, Rows-Affected=1
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=0
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=0
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=186, ERR#_ID=0001
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=1
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=185
SQL*Net Log 2015-05-30 11:40:26 user=lee@palau program=sqlplus@linux2 pid=18058
SQL*Net Log 2015-05-30 11:15:31 user=lee@palau program=sqlplus@linux2 pid=17921
SQL*Net Log 2015-05-29 10:05:16 user=lee@palau program=sqlplus@linux2 pid=3916
SQL*Net Log 2015-05-26 14:47:04 user=lee@palau program=sqlplus@linux2 pid=20296
SQL*Net Log 2015-05-26 14:15:22 user=lee@palau program=sqlplus@linux2 pid=21361
SQL*Net Log 2015-05-12 16:08:51 user=lee@palau program=sqlplus@linux2 pid=14591
```

38 transactions found from 9 log events - Oracle READ and WRITE transactions

Home Palau.PW DBServer Logout Back

0019 Altered Operation

Transaction Event List - the default list is a list of transaction events occurred in the period of 2015-05-01 thru 2015-08-31 as an example. An event can be a program run, a script, a execution cycle of a daemon process, and etc.

You may view the ORACLE transaction summary by clicking on the event name, and get details of each transaction by clicking on transaction ID.

Get a summary of all executed SQL statements of an event, simply click on the SQLStmtLog link.

iMaxSOFT VerticoDATA Tracefile, Setting and Configuration
LEETSAL - Lee Tsai Sunday 5th of November 2015 08:50:48 AM

Home Palau.PW DBServer Logout Back

DBRescuer: ORACLE Transaction Security and Recovery

ORACLE SWATCH A graceful ORACLE swatching that flushes redo-logs to archived-logs. VerticoDATA can only rescue transactions from ORACLE archived logfiles.

Cache All OPEN VerticoDATA caches UNDO and REDO transactions to a recovery vault (MySQL) in SQL executables from which are then used for real-time database repair. This action caches all checked-in but un-cached ORACLE transactions to VerticoDATA recovery vault (MySQL) for better performance.

Get Transaction: Period (YYYY/MM/DD): 2015/05/01 - 2015/08/31

Clear and Set Defaults: Process Name: OS User Name: Database Server Name:

Cache SELECTED

Click on the browser color process link to view or redo ORACLE transactions. The 'x' mark denotes that ORACLE transactions' recovery statements have been added to local recovery vault (MySQL).

```
SQL*Net Log 2015-08-21 12:09:13 user=lee@palau program=sqlplus@linux2 pid=22134
Oracle XID# 1.13.145055 TXNTYPE=W, Rows-Affected=1
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=0
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=0
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=186, ERR#_ID=0001
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=1
Oracle XID# 1.13.145055 TXNTYPE=D, Rows-Affected=185
SQL*Net Log 2015-05-30 11:40:26 user=lee@palau program=sqlplus@linux2 pid=18058
SQL*Net Log 2015-05-30 11:15:31 user=lee@palau program=sqlplus@linux2 pid=17921
SQL*Net Log 2015-05-29 10:05:16 user=lee@palau program=sqlplus@linux2 pid=3916
SQL*Net Log 2015-05-26 14:47:04 user=lee@palau program=sqlplus@linux2 pid=20296
SQL*Net Log 2015-05-26 14:15:22 user=lee@palau program=sqlplus@linux2 pid=21361
SQL*Net Log 2015-05-12 16:08:51 user=lee@palau program=sqlplus@linux2 pid=14591
```

38 transactions found from 9 log events - Oracle READ and WRITE transactions

Home Palau.PW DBServer Logout Back

0019 Altered Operation

SQLStmtLog link - in order to precisely analyzing the end result of a logical ORACLE transaction, you must have a complete view of all ORACLE SQL statements in their chronological order. For example, the transaction 1.13.94202 deleted 185 rows, but they were all roll-backed, the end result was nothing deleted. But if you simply checking the detail of transaction 1.13.94202 from logmnr archived logfile, you would never be able to tell.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA Quick User Guide

An Absolute Secure Enterprise Security Solution



An Absolute Secure Enterprise Security Solution

VerticoDATA - DBRescuer



```

iMaxSOFT ORACLE Transaction Logger and Rescuer
Transaction Details - click on the colored ORACLE
XID, you will get a detail transaction report
which contains the transaction origin form, the
data it touched, redo executable SQL statements,
undo executable SQL statements, EPHI related
information, the correlation with other SQL statements,
and many more.

REDO SQL statement - statement that was executed
by ORACLE, but the end results depends upon
whether it was COMMITTED or ROLL-BACKED.

UNDO SQL statement - statement that can be
used to undo the above SQL statement. But be
sure that the above SQL statement was committed,
and be sure there are no subsequent updates or
associations to the rows affected by above SQL
statement.

We highly recommend that you develop a integrity
validation program to cross-check the impact
by undoing a SQL statement. VerticoDATA recovery
vault and building blocks can be leveraged for
speedy development of this powerful transaction
integrity checking utility.
    
```

Transaction Details - click on the colored ORACLE XID, you will get a detail transaction report which contains the transaction origin form, the data it touched, redo executable SQL statements, undo executable SQL statements, EPHI related information, the correlation with other SQL statements, and many more.

REDO SQL statement - statement that was executed by ORACLE, but the end results depends upon whether it was COMMITTED or ROLL-BACKED.

UNDO SQL statement - statement that can be used to undo the above SQL statement. But be sure that the above SQL statement was committed, and be sure there are no subsequent updates or associations to the rows affected by above SQL statement.

We highly recommend that you develop a integrity validation program to cross-check the impact by undoing a SQL statement. VerticoDATA recovery vault and building blocks can be leveraged for speedy development of this powerful transaction integrity checking utility.

iMaxSOFT Corporation

Tel: (408) 253-8808
 Fax: (408) 253-4008
 E-mail: lee@imaxsoft.com
 www.imaxsoft.com
 P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An **Absolute Secure** Enterprise Security Solution

An **Absolute Secure** Enterprise Security Solution

VerticoDATA - ORACLE Setup



ORACLE Setup

ORACLE Setup - to validate the ORACLE setup for VerticoDATA. The most important one is to turn on ORACLE archived logging facility, it is not only for the sake of high availability, and it is important for VerticoDATA Rescuer utility.

This utility is created on top of VerticoDATA building blocks, and you may easily customize for your own environment.

iMaxSOFT ORACLE Configuration and Setup
LEETSBI - Lee Teal Tuesday, 20th of November 2011 10:14:46 AM

Home [Palau,PW DBServer](#) [Logout](#) [Back](#)

ORACLE Setting and Configuration for VerticoDATA

- Setting Checker: Sanity check of VerticoDATA and Oracle/Logminer environment

ORACLE Initial Settings Verification

- Archive Dest: Set Oracle archive destination directory (one time task)
- Logminer synonyms: Set Oracle logminer synonyms (one time task)
- Logminer supplemental: Set Oracle logminer supplemental log data option (one time task)
- SELECT_CATALOG_ROLE: Grant all users with SELECT_CATALOG_ROLE in order to access v\$session (one time task)

ORACLE Archivelog and Logminer Manager

- Archived logfiles: List logfiles from Archive Destination Directory
- Switch logfile: (send email request) Oracle/ly flush committed transactions from redo-log to archived logfile
- Quick switchlog: (send email request) Oracle/ly flush transactions from redo-log to archived logfile
- Database startup: (super user) Oracle database startup - sysdba is required
- Database shutdown: (super user) Oracle database shutdown - sysdba is required
- Archivemode ON: (super user) Turn on Oracle archivemode - sysdba is required
- Archivemode OFF: (super user) Turn off Oracle archivemode - sysdba is required

Home [Palau,PW DBServer](#) [Logout](#) [Back](#)

©2011 iMaxsoft Corporation

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - VerticoDATA Setup



VerticoDATA Setup

iMaxSOFT VerticoDATA Configuration and Setup

LEETSJAI - Lee Tsai Tuesday 24th of November 2015 10:46:24 AM

Home Palau.PW.DBServer Logout Back



VerticoData Security Policies, Configuration and Data Warehouse



Privacy data audit policies and alert definitions



VerticoDATA audit logging runtime configuration



Security vault data warehouse structure

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

iMaxSOFT VerticoDATA Configuration and Setup

LEETSJAI - Lee Tsai Tuesday 24th of November 2015 11:43:21 AM

Home Palau.PW.DBServer Logout Back

* Copyright ©2015 iMaxSOFT All Rights Reserved. *

VerticoDATA - Electronic Health Protected Information (ePHI) Builder

Report: Sample Policies (for Healthcare)

Syntax: Schema.Table.Column

EPHI(1): ID=2001 NAME=EPHI_PROVIDER_MASTER
FIELD(1): HMO_PROVIDER_MASTER_PROVIDER_ID
FIELD(2): HMO_PROVIDER_MASTER_NAME
FIELD(3): HMO_PROVIDER_MASTER_FIRST_NAME
FIELD(4): HMO_PROVIDER_MASTER_DOB
FIELD(5): HMO_PROVIDER_MASTER_GENDER
FIELD(6): HMO_PROVIDER_MASTER_CONTACT_PHONE

EPHI(2): ID=2002 NAME=EPHI_MEMBER
FIELD(1): HMO_MEMBER_MEMBER_MBR
FIELD(2): HMO_MEMBER_LASTNAME
FIELD(3): HMO_MEMBER_FIRSTNAME
FIELD(4): HMO_MEMBER_DOB
FIELD(5): HMO_MEMBER_SEX
FIELD(6): HMO_MEMBER_INDBIRTH

Alert Triggers:
1. OS=linux/HPDK, User=lee*, Pgm=Any, R/W Access=EPHI_PROVIDER_MASTER(2001)
On linux/hpdk, when ePHI(2001) is accessed by 'lee*' from any program
2. OS=linux/HPDK, User=lee*, Pgm=sqlplus, R/W Access=any Query
On linux/hpdk, when Oracle 'sqlplus' is run by 'lee'

--- <End Report> ---

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

VerticoDATA Setup - VerticoDATA configuration and setup can be grouped into 3 main categories, security rules and policies creation, application and database server runtime environment settings, and VerticoDATA vaults creation and maintenance.

Security Rules and Policies Creation - define sensitive and privacy data from your database, set policies for sensitive and privacy data access, and establish alert thresholds for sensitive and privacy data access violation. *VerticoDATA policy builder* can assist you to quickly define and create rules and policies, and store them into a security rule database.

Application and Database Server Runtime Environment Settings - there are many runtime parameters that can be set to alter VerticoDATA kernel internal logic to best fit your computing environment.

VerticoDATA Vaults Creation and Maintenance - VerticoDATA vaults are created either by pre-defined script or from generated scripts via the security rules and policies engine.

VerticoDATA building block is well documented and can be used to create tools that are best fit to your computing environment and security requirements. *Our sample policy builders include a Microsoft Visual Basic version, a HTML version, and a UNIX Character Mode version.*

iMaxSOFT Corporation

Tel: (408) 253-8808

Fax: (408) 253-4008

E-mail: lee@imaxsoft.com

www.imaxsoft.com

P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Document Tracer



Document Tracer

Document Tracer - sensitive and privacy data access activities for read and write, must be 100% traceable.

In order to 100% protecting sensitive and privacy data, you must know its access activity *origin*, its access activity *traveling map*, and its each and every *accessor's identification*.

With today's powerful encryption and non-editable file feature, any sensitive and privacy reports can be created in a secure form along with a password protection. If we can seamlessly integrate password, encryption and traceability into one black box, then we can easily solve the document traceability issue.

This VerticoDATA proprietary technology is *under developing* and has been scheduled for beta in mid of 2016.

iMaxSOFT Document Manager
LEETSAL - Lee Tsai Tuesday 24th of November 2015 11:48:37 AM

Home Palau.PW.DBServer Logout Back

Document Manager: Document Access Tracking System
You may only trace those documents that were created and distributed by you.

Begin Date: 2012/1/24 End Date: 2015/1/24
Doctor Email: Partial email search is allowed.
Patient Email: leew5 Partial email search is allowed.

OK

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

iMaxSOFT Document Manager
LEETSAL - Lee Tsai Tuesday 24th of November 2015 11:49:57 AM

Home Palau.PW.DBServer Logout Back

Document Manager: 13 records found!

Access Log	Status	Issued Date	Doctor
View Log	Completed	2013-12-16 10:22:14	kanderson@imaxsoft.com(karenanderson)
View Log	Completed	2013-11-08 10:05:25	zbake@imaxsoft.com(Zoettebakke)
View Log	Completed	2013-11-08 10:05:15	kanderson@imaxsoft.com(karenanderson)
View Log	Completed	2013-11-08 10:05:15	kanderson@imaxsoft.com(karenanderson)
View Log	Completed	2013-11-08 10:05:15	zbake@imaxsoft.com(rolandbake)
View Log	Completed	2013-11-08 09:42:18	zbake@imaxsoft.com(rolandbake)
View Log	Completed	2013-11-08 09:42:15	kanderson@imaxsoft.com(karenanderson)
View Log	Completed	2013-11-08 09:42:15	kanderson@imaxsoft.com(karenanderson)
View Log	Completed	2013-11-05 15:50:04	varakawa@imaxsoft.com(richarvarakawa)
View Log	Completed	2013-11-05 15:50:02	macorsa@imaxsoft.com(miriamacorsa)
View Log	Completed	2013-10-19 12:19:43	gasa@imaxsoft.com(潘定晴)
View Log	Completed	2013-10-19 12:19:43	macorsa@imaxsoft.com(miriamacorsa)
View Log	Completed	2013-10-19 12:19:42	zbake@imaxsoft.com(rolandbake)
View Log	Completed	2013-10-19 08:05:37	dave@imaxsoft.com(dave)
View Log	Completed	2013-10-18 11:41:02	macorsa@imaxsoft.com(miriamacorsa)
View Log	Completed	2013-10-18 11:41:02	macorsa@imaxsoft.com(miriamacorsa)

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

iMaxSOFT Document Manager
LEETSAL - Lee Tsai Tuesday 24th of November 2015 01:10:32 PM

Home Palau.PW.DBServer Logout Back

Document Manager: 8 log records found!

Report ID	Access Datetime	Accessor Name
20237	2015-10-30 09:49:11	leetsai
20237	2015-10-12 19:31:17	leetsai
20237	2015-09-21 20:39:54	leetsai
20237	2015-09-21 20:39:54	leetsai
20237	2015-06-13 17:04:35	leetsai
20237	2015-05-15 09:56:53	leetsai
20237	2014-11-22 14:03:26	leetsai
20237	2014-01-22 15:02:05	karenanderson

Action: Received Alerts from Main Oracle Server

Home Palau.PW.DBServer Logout Back

©2015 iMaxsoft Corporation

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA

VerticoDATA

iMaxSOFT
VerticoDATA Quick User Guide
An Absolute Secure Enterprise Security Solution

An Absolute Secure Enterprise Security Solution

VerticoDATA - Conclusion



It is impossible to 100% stop data leaks, what can we do to mitigate our risks?

Facts - we cannot completely prevent threats and data leaks. There is no bullet-proof security solution. Enterprise IT security infrastructure covers hundreds of thousands of devices and people, any access point can be the weakest link, once a link breaks, the entire enterprise will become a vulnerable target for hackers.

What can we do - we must first identify what's our the most sensitive and privacy information, where are they stored, and how do they get created and accessed. Next, we need to layout an access road map of our *sensitive and privacy data* and see whether we can create an isolated and secure domain to streamline the management of *sensitive and privacy data*. At last, an access authorization map is required in order to create a enterprise wide comprehensive security authentication rule base.

For the sake of efficiency, an in-house IT security team is required, and we must understand that conducting a thorough inventory of enterprise's *sensitive and privacy data* is very time consuming. But, in order to protect, we must first know what to protect.

VerticoDATA deployment - VerticoDATA can be deployed as it, and makes enterprise specific customization concurrently. The sooner we deploy VerticoDATA, the quicker VerticoDATA learns and strengthens the quality of enterprise's security rule base.

Security breaches will never go away and it is a forever war. We must learn how to live with it comfortably. When an cyber attack occurs or a data leak incident occurs, as long as we learn it soon enough to reduce our risk to minimum, we win.

We should not act like that our customers' *sensitive and privacy data* is 100% protected and our security system is bullet-proof and data never leaks. When data leaks occurred, we shouldn't downplay the seriousness of those leaks, lie about the impacts to our customers, and misleads our customers with meaningless recovery solution. A successful business ranks the security of customers' *sensitive and privacy data* as the highest priority, and is dead serious about pretesting the invaluable customers' trust and business goodwill.

In today's digital world, the *sensitive and privacy data protection effort* is vital for the survival of a business. Public can be very quickly to loss faith of a business that is not properly protecting their sensitive and privacy data, and a business can be totally destroyed, if a business is not telling their customers and the public the real impacts caused by a data leak promptly and honestly. **Promptly and precisely detection of what has been stolen and leaked is a fundamental requirement of any security solution.** We should never challenge the intelligence of the public.

iMaxSOFT VerticoDATA Development Team
October 2015, Saratoga California USA

Copyright © iMaxSOFT Corporation 2015, All Rights Reserved.

iMaxSOFT Corporation

Tel: (408) 253-8808
Fax: (408) 253-4008
E-mail: lee@imaxsoft.com
www.imaxsoft.com
P. O. Box 1222 Cupertino, CA 95015 USA