

**Oracle Security Alert #49**  
**Dated: 11 February 2003**  
**Updated: 03 March 2003**  
**Severity: 1**

## **Buffer Overflow in Oracle Database Server**

### **Description**

A potential security vulnerability has been discovered in Oracle Database Server. A knowledgeable and malicious user who has authenticated to the database server can exploit this vulnerability in the form of a buffer overflow against Oracle Database Server.

### **Products Affected**

- Oracle9i Database Release 2, Version 9.2.x
- Oracle9i Database Release 1, Version 9.0.x
- Oracle8i Database, Version 8.1.x

Oracle8, Version 8.0.x and Oracle7, Version 7.x and earlier are **not** affected.

### **Platforms Affected**

See Patch Availability Matrix.

### **Required conditions for exploit**

Database authenticated user (i.e., valid login required).

### **Risk to exposure**

Risk to exposure is high, as buffer overflows can lead to serious problems such as denial of service and session capture. Unless you connect the database directly to the Internet (e.g., no intervening application server or firewall), a remote buffer overflow attack via the Internet is, in our opinion, unlikely. This vulnerability is susceptible to an insider attack originated on the corporate Intranet. Note that we strongly recommend that you do not connect your database directly to the Internet.

### **How to minimize risk**

Follow best practices for database, [http://otn.oracle.com/deploy/security/oracle9i/pdf/9ir2\\_checklist.pdf](http://otn.oracle.com/deploy/security/oracle9i/pdf/9ir2_checklist.pdf) & [http://otn.oracle.com/deploy/security/oracle9i/pdf/9i\\_checklist.pdf](http://otn.oracle.com/deploy/security/oracle9i/pdf/9i_checklist.pdf), and for IT deployments of firewalls, etc.

### **Ramification for CUSTOMER**

The patches for Security Alerts 48 through 52 do not conflict with each other; technically, the order in which the patches are applied has no significance, but Oracle recommends applying the patch listed in Alert #51 with the highest priority. See [http://otn.oracle.com/deploy/security/pdf/oracle\\_severity\\_ratings.pdf](http://otn.oracle.com/deploy/security/pdf/oracle_severity_ratings.pdf) for a definition of severity ratings.

## Patch Information

The fix for this potential security vulnerability is **only** available for the latest patchset level (as listed in the **Fixed by** section) for each supported database release on the platforms listed in the Patch Availability Matrix. **If you are not on the latest patchset release, you need to apply the latest patchset before applying this one-off patch.** Please note this fix will be included by default in the Oracle9i Database Release 2, Version 9.2.0.3 patchset.

## Fixed by

An interim (one-off patch) for this issue is available for these affected database versions:

- Oracle 9i Database Release 2 version 9.2.0.2
- Oracle 9i Database Release 1 version 9.0.1.4
- Oracle 8i Database, Version 8.1.7.4

Currently there are no plans to release a patch for 8.1.5.x, 8.1.6.x.

Download this one-off patch from the Oracle Support Services web site, MetaLink (<http://metalink.oracle.com>).

1. Click on the Patches button.
2. Click on the "New Metalink Patch Search ".  
If you are not on the "Simple Search" screen, click on the "Simple Search" button.
3. Input the bug number **2642267** on the "Search by Patch Number" box.
4. Click **Go**.
5. Select the patch for the appropriate product version.
6. Select the appropriate platform.
7. Click **Download**.

Oracle strongly recommends that you comprehensively test the stability of your system upon application of any patch prior to deleting any of the original file(s) that are replaced by the patch.

## Patch Availability Matrix

**Special Note:** For 8.1.7 databases, the fix can be applied to any 8.1.7.x release. If you are running Oracle 8.1.7.x and can't find the patch for your specific platform and database version, please apply the latest patch available for your platform. For example, if you are running Oracle 8.1.7.x, apply the patch available for 8.1.7.0.

The patches for Security Alerts 48 through 52 do not conflict with each other; the order in which the patches are applied has no significance.

<b>Platforms</b>	<b>9.2.0.2</b>	<b>9.0.1.4</b>	<b>8.1.7.x</b>
Sun Solaris (32-bit)	Available	Available	Available
Sun Solaris (64-bit)	Available	Available	Available
IBM AIX 4.3.3 and 5L (32-bit)	N/A	N/A	Available*
IBM AIX 4.3.3 (64-bit)	Available	Available	Available
IBM AIX Based 5L (64-bit)	Available	N/A	N/A
MS Windows NT/2000/XP	Available+	Available+	Planned
HP-UX (32-bit)	N/A	N/A	Available
HP-UX (64-bit)	Available	Available	Available
HP Tru64	Available	Available	Available
LINUX	Available	Available	Available
LINUX 390	Available	Available	Available
INTEL SOLARIS	N/A	N/A	Available
DATA GENERAL	N/A	N/A	Available
UNIXWARE	N/A	N/A	Available
IBM NUMA-Q	N/A	N/A	Available
SGI-IRIX-64	N/A	N/A	Available
Siemens-64	N/A	N/A	Planned
Novell	N/A	N/A	Available
OpenVMS	Planned	Planned	Available
IBM OS/390 (MVS)	Available	Available	Available
NEC	N/A	N/A	Available
HP IA64	Planned	N/A	N/A

**\*:** For 8.1.7.4 on IBM AIX 5L (32-bit), download the same patch as IBM AIX 4.3.3 (32-bit).

**+**: The fix for 9.2.0.2 is in 9.2.0.2.1 Patch 1. To obtain this fix download the patch for <[BUG:2814865](#)>.

**+**: The fix for 9.0.1.4 is in 9.0.1.4.0 Patch 1. To obtain this fix download the patch for <[BUG:2781666](#)>.

**N/A:** The Oracle Database Release/Version is not available for this platform.

**Planned:** The patchset is not released as yet. Future releases (e.g., 9.2.0.3 and higher) of the Oracle Database Server will contain the fix by default.

**Credits**

Oracle Corporation thanks Mark Litchfield of Next Generation Security Software Ltd. for discovering and bringing this potential security vulnerability to Oracle's attention.

**Modification History**

21-Feb-2003: The Products Affected and Patch Information sections clarified.

24-Feb-2003: The title was updated. Products Affected and Patch Information sections clarified.

26-Feb-2003: Required conditions, risk to exposure, how to minimize risk, and ramification for customer sections added.

03-Mar-2003: Title updates, minor updates to flow of text and Patch Availability Matrix.