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# ***Release Notes For Versant ReVind On Windows***

**Release 7.0.1.4**

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#### **Versant History, Innovating for Excellence**

In 1988, Versant's visionaries began building solutions based on a highly scalable and distributed object-oriented architecture and a patented caching algorithm that proved to be prescient.

Versant's initial flagship product, the Versant Object Database Management System (ODBMS), was viewed by the industry as the one truly enterprise-scalable object database.

Leading telecommunications, financial services, defense and transportation companies have all depended on Versant to solve some of the most complex data management applications in the world. Applications such as fraud detection, risk analysis, simulation, yield management and real-time data collection and analysis have benefited from Versant's unique object-oriented architecture.

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This Chapter gives a brief overview of Versant ReVind 7.0.1 which is the newer version that works with Versant Object Database 7.0.1.

The Chapter covers the following in detail:

- Enhancements
- Limitations
- Restrictions and Suggestions

## ENHANCEMENTS

### Release 7.0.1

- Coherent with JDK 1.4.2. (JRE 1.4.2\_07-b05).

### Release 6.0.5

- New License Manager integrated.
- Coherent with JDK 1.3.1. (JRE 1.3.1\_02)

### Release 6.0.1

- JDBC support is introduced.
- Java Stored Procedures (JSP) is supported.
- `NULL` predicate is supported.

### Release 7.0.1.4

- Support for 64 bit Windows platform
- Better Error Reporting. Errors display class name, view name, table name and also synonym name where ever applicable.

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## LIMITATIONS

### Release 7.0.1

- O\_U8B not supported
- IS [NOT] NULL predicate supported only for OIDs.

## RESTRICTIONS AND SUGGESTIONS

### Multi-byte strings are interpreted as single byte strings.

Versant ReVind interprets multi-byte strings as regular single byte strings. This implies that the first null encountered is considered as the end of the string.

### Rollback after CREATE VIEW or DROP VIEW not supported.

Versant ReVind supports views. The only restriction is that after issuing the command `CREATE VIEW` or `DROP VIEW`, the transaction should not be rolled back.

If an "undo" operation is desired, you can terminate that session of `isql` or `misql` without committing the transaction.

As per usual practice, to make a new view persistent or to drop a view, commit the transaction.

Although a view is dropped immediately after a `DROP VIEW` command, full cleanup of the dropped view from the base tables `systables` and `syscolumns` does not occur until a new `isql` or `misql` session is started.

For example:

```
ISQL> CREATE VIEW bookview (bookid, title)
      AS SELECT selfoid, title from book;
ISQL> commit work;
ISQL> DROP VIEW bookview;
ISQL> commit work;
```

### Use the SYNONYM (instead of the real table) to create a VIEW.

If you are creating a view and do not own the table, then you must create the view on the synonym for the table.

This is required, because the table names that are stored in the `sysviews` table are not double-quoted; if the view were to be created directly on the table, the case-insensitive table name would not be matched to the case-sensitive class names in a Versant Database.

For example, the following is CORRECT:

```
ISQL> CREATE SYNONYM book FOR vsqldb."Book";
ISQL> CREATE VIEW bookview (bookid, title)
      AS SELECT selfoid, title FROM book;
ISQL> commit work;
```

The following is NOT CORRECT:



---

```
ISQL> CREATE VIEW bookview (bookid, title)
      AS SELECT selfoid, title FROM vsqldb."Book";
```

### **You cannot define a primary key in CREATE TABLE**

When you create a table definition, you cannot define a primary key. The system adds an extra column to the set of columns defined by you in the table. This column is called `SELFROID` and is also the primary key. In the current release the foreign key will always be the primary key (`SELFROID`) of the referred table.

In this release the `CREATE TABLE` statement supports:

```
CREATE TABLE address
  ( street CHARACTER,
    city  CHARACTER);
```

```
CREATE TABLE address
  ( emp CHARACTER REFERENCES employee,
    street CHARACTER,
    city CHARACTER );
```

```
CREATE TABLE employee
  ( name CHARACTER DEFAULT USER,
    dob  TIME DEFAULT SYSDATE );
```

```
CREATE TABLE address
  ( street CHARACTER NOT NULL UNIQUE,
    city CHARACTER );
```

```
CREATE TABLE address (
  street, city )
AS
SELECT st, pin from customer;
```

In this release the `CREATE TABLE` statement does not support:

- Column level check constraints
- Table level constraints
- Table space
- Free percentage
- Storage Manager

For example:

```
Versant Action: IGNORE
CREATE TABLE address
    ( street CHARACTER COLLATE CASE_INSENSITIVE,
      city CHARACTER );

CREATE TABLE address
    ( street CHARACTER NOT NULL PRIMARY KEY,
      city CHARACTER );

CREATE TABLE supplier (
    supp_no INTEGER NOT NULL,
    name CHAR (30),
    status SMALLINT,
    city CHAR (20) CHECK (supplier.city <> 'MOSCOW')

CREATE TABLE student_courses (
    student_id INTEGER,
    teacher CHAR (20),
    course_title CHAR (30),
    FOREIGN KEY ( teacher, course_title)
        REFERENCES courses );

CREATE TABLE address (
    street CHARACTER,
    city CHARACTER )
    TABLE SPACE xxxx ;

CREATE TABLE address (
    street CHARACTER,
    city CHARACTER )
    PCTFREE 30;

CREATE TABLE address (
    street CHARACTER,
    city CHARACTER )
    STORAGE_MANAGER 'dfdf';
CREATE TABLE address (
    street CHARACTER,
```

---

```
city CHARACTER )
STORAGE_ATTRIBUTES 'fdsfj=xxxx';
```

**NOTE:-** Database should not have a `vsqldb` as a pre-existing user. NULL predicate only supported for OID columns.

### **Versant ReVind 7.0.1 works in FTS/Replica environment with following restrictions:**

1. `schload` cannot be run if either of the databases in the replica pair is down. This is because `schload` involves some schema related changes introduced in the database. If any of the database is down, replication stops and hence `schload` fails.
2. `schload` returns `SM_NOT_IN_USERLIST` error when run for the first time on a replica pair. This error is returned by `SQLUTIL` when it tries to insert a dummy user (`vsqldb`) in both the databases. As this operation is not FTS compliant, `SQLUTIL` returns this error. In this case, after getting this error, please run `schload` again on the second database.
3. If the Versant ReVind databases are part of FTS/Replica setup and either of the database goes down while the query is being executed, the query does not complete. This is due to a known limitation in Versant cursors not being supported in FTS environment.

### **`schload` shows some warnings when run on a database**

When `schload` is run on a database for the first time, it shows some warnings. Please ignore these warnings as these are harmless. The warnings will be removed in the next release of Versant ReVind.

### **Run `schload` on all the databases while connecting to multiple databases**

When a dba tries to connect to multiple databases using ISQL/DHSERVER (Threaded) model, `dhserver` throws error `SM_NOT_IN_USERLIST`. This is due to a security restriction imposed by Versant Database 7.0.1.3. To avoid this error, run `schload` on all the databases participating in the multiple databases connection. This problem is observed only when the dba tries to connect to the database. In case of any other user, there is no need to do this.

Example:

Say `db1` is the primary database. The owner and dba of this database is `USER1`. Now if `USER1` tries to connect to `db1+db2+db3`, the `DHSERVER` throws error `SM_NOT_IN_USERLIST`. In this case either run `schload` on `db2` and `db3` or use some other user (`USER2`) to login to the databases.



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This Chapter gives a detailed explanation of the system requirements and the directory structure for the Windows platform.

The Chapter covers the following in detail:

- System Requirements
- Directory Structure

## SYSTEM REQUIREMENTS

Versant ReVind Release 7.0.1 for Windows has the following system requirements:

### Hardware Requirements

- A machine capable of running Windows, per the requirements listed by Microsoft.
- A minimum of 24 MB on the system with 2 MB of real memory available to Versant if a client-only and 4 MB of real memory available if a personal database is used.
- Approximately 170 MB of disk space.
- Ethernet card supported by Windows.

### Software Requirements

- Windows 2000 Server with Service Pack 4, or
- Windows 2000 Advanced Server with Service Pack 4, or
- Windows XP Professional with Service Pack 2, or
- Windows Server 2003
- Microsoft TCP/IP for Windows must be installed.

To use Versant C++:

- Visual Studio .NET 2002 (for 32 bit)
- Visual Studio .NET 2005 (for 64 bit)

To use MS .NET framework:

- Microsoft .NET Framework Version 2.0.50727 (for 64 bit)

To use JVI 7.0:

- JDK Version 1.4.2 is required at the minimum. (Versant ReVind installation has JRE 1.5 bundled with it.)

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## DIRECTORY STRUCTURE

When you install Versant ReVind, you will specify a Versant ReVind root directory, which will be stored in the environment variable `TPEROOT`. The default root directory is `c:\versant\7_0_1`. Installation will create the following directory structure under the Versant ReVind root directory:

### Directories and files under `%TPEROOT%`

#### `%TPEROOT%\bin`

The directory containing Versant ReVind binaries. These binaries include the following:

<code>isql.exe</code>	Interactive Versant/SQL Tool (remote access)
<code>dbload.exe</code>	Copy data from a file into a database.
<code>dbdump.exe</code>	Copy data from a database to a file.
<code>misql.exe</code>	Interactive Versant/SQL Tool (local access)
<code>pcntreg.exe</code>	Registers Versant ReVind Listener service entry.
<code>schload.cmd</code>	Load schema and authorization information into a Versant database (a script)
<code>sqlutil.exe</code>	Allows a user to create persistent synonyms for referring to tables with case-insensitive names for all user classes.
<code>sqlcrtidx.exe</code>	Create indexes for extended tables. Used internally by <code>schload</code> .
<code>dhserver.exe</code>	Versant ReVind daemon.
<code>upgrade.cmd</code>	Upgrades the previously configured database.
<code>msvcrt.dll</code> , <code>msvcirt.dll</code>	These dll's are only necessary if, during installation, you receive a message that the dll's with these names "conflict with the installation of Versant/SQL". If you receive such a message, then rename your existing dll's (located in your <code>c:\winnt\system32</code> directory) and replace them with these dll's.

## **%TPEROOT%\bin\memdir**

A directory for temporary files used by Versant ReVind during sorting operations. This directory must exist.

## **%TPEROOT%\lib**

The directory containing Versant ReVind libraries. This directory includes the following:

<code>dherrors</code>	Versant ReVind error message file.
<code>dherrors_cust</code>	Versant ReVind error message file.
<code>sql_conf</code>	You can use this to change the settings for the <code>ISQL/</code> <code>MISQL</code> sessions.
<code>vsq1.jar</code>	Class files used by Versant ReVind, JDBC and JSP

## **%TPEROOT%\lib\schemas**

<code>utility.sch</code>	Schema file for Versant ReVind utility classes.
<code>systab.sch</code> , <code>systabl.sch</code>	Schema files for base and extended tables loaded by schload.

## **%TPEROOT%\lib\help\_isql**

This directory contains ascii help files used by the `isql` and `misql` utilities.

## **%TPEROOT%\demo\addons\vsq1**

The directory containing the demonstration programs and readme files. There is one demo subdirectory: `cxx`

## **%TPEROOT%\demo\cxx**

The `demo\cxx` directory contains the following C++Versant/SQL(Versant ReVind) demo files:

```
Input.sln
Cindex.sln
Cindex.vcproj
Input.vcproj
```



---

```
Cindex.exe
Input.exe
README.txt
author.h
authsch.imp
authsch.sch
book.h
cindex.cxx
input.cxx
publish.h
sequel.h
```

### **%TPEROOT%\demo\jsp**

The `demo\jsp` directory contains the following Java Stored Procedures (JSP) demo files:

```
Demojsp.sln
Demojsp.vcproj
README.txt
account.h
account.imp
calledsp.sql
callsp.sql
customer.h
demojsp.cxx
demojsp.exe
dropsp.sql
sqlistmt.sql
transact.h
updatesp.sql
```

### **%TPEROOT%\demo\jdbc**

The `demo\jdbc` directory contains the following JDBC driver demo files:

```
README.txt
JDBCTest.java
```

JDBCTest.class

## **%TPEROOT%\doc\addons**

This directory contains Versant ReVind, Versant/ODBC, and Versant ReVind release notes in pdf format. To view these files, open them with a PDF viewer, such as Acrobat Reader.

---

This Chapter provides a detailed explanation of the installation process of Versant ReVind 7.0.1.

The Chapter covers the following in details:

- If you are upgrading...
- Installation Procedures
- What Happens During Installation?
- Verify the Installation
- Installation Troubleshooting

## IF YOU ARE UPGRADING...

If this is the first installation of Versant ReVind on this machine, then you can ignore this section.

If you are upgrading from a previous Versant ReVind release, then you need to do the following:

1. Uninstall the previous release.

Uninstall the previous installation of Versant ReVind by clicking on the `SQL Uninstall` icon.

2. Reboot.

3. Remove any left-overs.

Remove any left-over files and directories under the root directory of the previous installation of Versant ReVind.

4. Install the new release, except do not run `schload` on previously configured databases.

Install this Versant ReVind release using the procedures described in the following section.

5. Run the upgrade script on previously configured databases.

If you are upgrading from previous version to Versant ReVind 7.0.1, you need to perform following steps:

1. To use databases of versions prior to 7.0.1, use the Versant Database 7.0.1 utility `cnvrtddb` on the target database.

**Please refer *Versant Database Administration Manual* for more information on using this utility.**

2. To check whether `cnvrtddb` has succeeded, run `dblist` and ensure that the `dblist`'s output, "db version" displays 7.0.1 for the converted database.
3. Locate `upgrade.cmd` (in `%TPEROOT%\bin - upgrade.cmd` for Windows)
4. Run this utility on the converted database. This will make the database usable with Versant ReVind 7.0.1.
5. Verify that upgrade is completed successfully by running few ad-hoc queries.

---

## INSTALLATION PROCEDURES

Versant ReVind incorporates a new licensing scheme from version 7.0.1 onwards. For more information on obtaining the license file for a Versant ReVind, go to <http://www.versant.com>. Irrespective of whether you are upgrading the product or installing it for the first time, new licenses are needed.

For details about the procurement of licenses, please refer to `installSummary` file in root directory of Versant ReVind.

Versant ReVind Installation allows you to install the following components:

<code>dhserver</code>	Requires ReVind (VSQL component) license.
<code>isql</code>	Not separately licensed.
<code>dbdump</code>	Not separately licensed.
<code>dbload</code>	Not separately licensed.
<code>misql</code>	Requires ReVind (VSQL component) license.
<code>sqlutil</code>	Not separately licensed.
<code>sqlcrtidx</code>	Not separately licensed.

Assuming you already have Versant Object Database 7.0.1.3 installed, following steps are required to configure Versant ReVind. If you are upgrading an existing installation, please follow all steps in the preceding section "If you are upgrading..".

### As dba for each Versant database

For all installations and operating systems, the database administrator or "dba" of a database is the user who has used the `makedb` and `createdb` utilities to create that database. The dba owns the database and related files and directories.

For each Versant database, perform the following as the dba user for the database:

#### Step > Load system tables and configure the database.

Load the Versant ReVind Mapper schema and authorization tables in the

`%TPEROOT%\lib\schemas` directory into a least one Versant Database

To load the schema tables, use the Versant ReVind `schload` utility. Following is the general syntax for invoking `schload`:

```
schload database_name
```

Besides loading the schema tables, the `schload` utility will also grant query privileges to all database users. See the "Usage Notes" chapter for additional information on security.

**NOTE:-** Do not run the `schload` utility on the Versant databases that have already been configured for Versant ReVind access.

Each Versant ReVind user must do the following:

### As each user of Versant ReVind

#### Step 1> Set `VERSANT_REL`.

The Versant ReVind utilities `misql` and `isql` have been built with Versant Release 7.0.1. To use them to access a Versant Database created with a release other than 7.0.1, each user must set the environment variable `VERSANT_REL` to the appropriate release number. For example, if the release to be accessed is Versant 7.0:

```
set VERSANT_REL=7.0.1
```

#### Step 2> Create table synonyms.

We recommend that each user create table synonyms, so that she or he can refer to tables with a synonym rather using the fully qualified name in double quotes. By default, tables must be accessed with the following syntax:

```
"tableowner"."tableName"
```

#### Elements are:

##### `tableowner`

All system tables are owned by the special user "vsqldb"; all utility and user tables are owned by dba.

##### `tableName`

Table names must be enclosed in double quotes. Table names are case sensitive.

For example, if "jill" is the owner of table `Author`, access it with the following syntax:

```
SELECT * FROM "jill"."Author";
```

---

To avoid having to use this syntax, each user should create a synonym for all tables accessible with Versant ReVind by running the utility `sqlutil` as:

```
sqlutil -S db_1+db_2+...+db_n
```

In the above, substitute a list of database names containing Versant ReVind tables. Separate the names with the plus sign `+` and allow no spaces between elements of the list.

Afterwards, the user who ran `sqlutil` can refer to tables in the specified database simply by using the case insensitive table name without double quotes.

For example, to create a synonym for table `Author` in `db1`, run the following:

```
sqlutil -S db1
```

Afterwards, you can access table `Author` with any of the following syntax:

```
SELECT * FROM Author;  
SELECT * FROM author;  
SELECT * FROM aUthor;
```

The `sqlutil` utility is located in the Versant ReVind `bin` directory. The Versant ReVind administrator can verify that the utility was successfully executed by querying the extended table: `syssynonyms`.

## WHAT HAPPENS DURING INSTALLATION?

The Versant Object database installation program does the following:

1. Looks for the VERSANT root directory.

The setup program first looks for the root directory of an existing installation of Versant.

2. Asks for a Versant root directory.

You can choose another location for the Versant root directory, but you cannot change the names of the directories and files under the root.

3. Updates the registry.

After Versant Object Database has been installed, the setup program updates the Windows registry with the following system environment variables:

`TPEROOT` The location of the Versant root directory

`TPEDATADIR` The location of the directory for temporary files used by Versant ReVind.

4. Updates TCP/IP files.

The setup program provides an option to create an entry for Versant ReVind in the TCP/IP services file.

If you do not allow the setup program to update your TCP/IP file, you must do the following:

- a. Edit the TCP/IP network services file to associate the Versant ReVind service name with a port number.

Typically, the name of the network services file is `services` or `services.txt`, and is located in the main directory of your TCP/IP package or in the Windows system directory. For example:

```
c:\winnt\system32\drivers\etc\services
```

- b. Open the services file and add the following entry:

```
sqlnw 5020/tcp
```

Make sure that this port number is not already associated with some other service. If it is, use some other unused port number for the service. When accessing Versant ReVind from remote client machines, the same port number must be used for the service entry on the client machines.

It installs Versant ReVind Listener service. This service is configured as an "Automatic" service and will start automatically every time Windows is restarted.



## VERIFY THE INSTALLATION

This section lists a simple checklist that can verify that Versant ReVind was installed correctly.

### Verify that the Versant ReVind Service is installed.

To verify that the Versant ReVind Service has been installed correctly and is running, in the Control Panel, double-click on the Services icon. Scroll down to the Versant SQL Listener service. If this service is not found, execute the `pcentreg` program in the Versant ReVind bin directory giving the full path of the Versant root directory. For example:

```
pcentreg p c:\versant\7_0_1
```

### Verify that the Versant ReVind Service is running.

If in the step above, the Versant ReVind Service is found, but is not marked as running, reboot the Windows system. As the service is specified as an Automatic startup service, the service should start automatically. Optionally, click on the Start button in the Services menu.

### Verify that the System Environment is set correctly.

Versant ReVind requires that the system environment variables `TPEROOT` and `TPEDATADIR` be set. In the Control Panel, double-click on the System icon. In the System Environment Variables list, verify that the `TPEROOT` and `TPEDATADIR` variables are set.

The variable `TPEROOT` should be set to the Versant ReVind root directory. For example, `TPEROOT` may need to be set to

```
c:\versant\7_0_1
```

The variable `TPEDATADIR` should be set to some writeable directory. As Versant ReVind uses this directory for temporary files during large sort operations, at least 10M space should be reserved under this directory. For example, `TPEDATADIR` may need to be set to

```
%TPEROOT%\bin.
```

In system directory [c:\winnt], a file called `VSQl.ini` is created. Some variables are present in this file as well.

`CLASSPATH` It should be same as `CLASSPATH` in Environment settings. But this `CLASSPATH` should not refer to any other variable. For example instead of `CLASSPATH=%TPEROOT%\lib\vsq1.jar`, actual value of `%TPEROOT%` should be present.

**TPEROOT** Same as in Environment variables.

**JVM\_LIB** This points to the `jvm.dll` file to be used. It should contain absolute path to this file. This file will be loaded at runtime, even if environment variable `PATH` contains different directory having `jvm.dll` in it.

**JAVA\_COMPILER** This points to `javac.exe` file to be used. It should contain absolute path to this file. It is used when compiling generated Java files (required for JSP).

`%TPEROOT%\bin\memdir.`

In order to invoke the Versant ReVind utilities without specifying the full path, the environment variable `Path` should include the Versant ReVind `bin` directory. For example, `PATH` may need to include

### Verify the database configuration.

To ensure that the Versant ReVind configuration schema has been loaded into the target Database, you can use Versant Database utility `db2tty`.

For example:

```
db2tty -D database_name -S sqlbase_systables
```

This command should display the schema for the class `sqlbase_systables`. If it does not, see the usage notes for `schload` in the chapter "Usage Notes" and then run `schload` again.

### Query the system tables.

Invoke the Versant Interactive SQL Query Tool and verify that the system tables can be queried.

Following is an example of using `misql`:

```
misql database_name
ISQL> select * from systables;
ISQL> quit;
```

The above session would display the list of tables in the Versant Database specified as `database_name`.

### Verify network access.

To ensure that Versant ReVind has been configured correctly for network access, perform the same query as the one listed above, using `isql` instead of `misql`.

---

```
isql database_name
ISQL> select * from systables;
ISQL> quit;
```

## INSTALLATION TROUBLE-SHOOTING

This section attempts to list the typical problems that may be encountered during the installation and configuration. The resolutions listed are the most likely of a set of possible resolutions.

### Interpreting Error Numbers

Versant ReVind will raise errors from both Versant ReVind and the Versant Database management system.

- Error numbers greater than zero are Versant ReVind errors.
- Error number less than -310,000 indicate Versant errors, but to get the actual Versant error number, you need to multiply by -1 and then subtract 310,000:

```
VERSANT error = ( -1 * error_number ) - 310,000
```

For example, if an association being traversed does not locate a persistent object, the Versant error 5006 ("Cannot find the object") is returned as Versant ReVind error -315,006. To obtain the actual Versant error:

```
VERSANT error = (-1) (-315006) - 310000 = 5006
```

### Cannot connect to a database

An attempt to connect to a Versant Database using Versant ReVind fails.

**Problem:** A user tries to access a Versant Database using Versant ReVind and encounters the error `SM_NOT_IN_USERLIST`.

**Likely Resolution:** Use Versant Database utility `dbuser` to add the user to the database access list.

### Startup error with 'mysql' or 'isql'

The `mysql` or `isql` command returns error -20000 or `SQL_INTERNAL_ERROR`.

**Problem:** A user tries to access a Versant Database using Versant ReVind and encounters error -20000 or `SQL_INTERNAL_ERROR`.

---

**Likely Resolution:** The system environment variable `TPEDATADIR` is either not set, or if it is set, the Windows system has not been rebooted after installation.  
For example:

```
set TPEDATADIR=%TPEROOT%\bin\memdir
```

## Cannot access Versant ReVind over a network

Network access to Versant ReVind returns a tcp bind error.

**Problem:** When using `isql`, which accesses Versant ReVind over the network, error 20212 in tcp bind is returned.

**Likely Resolution:** The Versant ReVind Service is not running. In the Control Panel, double-click on the Services icon and ensure that the Versant SQL Listener service is running.

## Network connection refused

Network access to Versant ReVind returns a "connection is refused" error message.

**Problem:** When using `isql`, which accesses Versant ReVind over the network, an error indicating that the tcp connection is refused is returned.

**Likely Resolution:** The Versant ReVind Service is not running. In the Control Panel, double-click on the Services icon and ensure that the Versant SQL Listener service is running.

## Cannot start Versant ReVind

An attempt to use `misql` or `isql` utilities fails.

**Problem:** When you try to use `misql` or `isql`, you get the error message "Terminating Error <E79>".

This error occurs because the Versant ReVind utilities `misql` and `isql` have been built with VERSANT Release 7.0.1 and you are trying to access a database other than a Release 7.0.1 database.

**Resolution:** Each user must set the environment variable `VERSANT_REL` to the appropriate release number. See the notes above for "Using a Versant Database other than a Release 7.0.1 database."

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