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DAL Server for VAX/VMS 1.3: DBMS Adapter Fixes

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TOPIC -----

The following are updates to the DAL server for VAX/VMS since the 1.3 release to APDA.

The patch tapes are listed with the latest first. Each patch tape includes all prior patches; for example C includes A, B, and C fixes.

DISCUSSION -----

Patch Tape G

Oracle adapter changes:

- Oracle 5.1.22 adapter has been brought in sync with Oracle 6.0.3x adapter and includes all changes described below for Oracle.
- The DAL commit statement for Oracle will now cause locks to be released.
- ora_dflt_hoststr logical no longer needs to be set by the user.

Rdb adapter changes:

- Various changes have been made to reduce lock conflicts during data access.
- Support for the TINYINT datatype has been added.
- The dummy database files supplied with update 'C' are no longer necessary.

Server change (for Rdb):

- A problem in the server that resulted in decimal values that ended in zeroes being stored incorrectly has been corrected. This affected Rdb only.

Patch Tape F

AppleTalk Listener Change:

- Now correctly identifies VMS version 5.5 even if it is returned with an alphabetic string prepended (e.g. A5.5).

Patch Tape E

Oracle 6.0.xx adapter change:

- When an oracle number field is declared as number with no specific scale, DAL now assumes (40,18) instead of (14,2).

Patch Tape D

Oracle 6.0.xx adapter change:

- Adapter now built using Oracle 6.0.34. If you get an error 6400 from Oracle when trying to connect, add the following logical to your system:

```
$ def ora_dflt_hoststr "2:"
```

or

```
$ def/sys ora_dflt_hoststr "2:"
```

Support for public synonyms added:

- Public synonyms for tables owned by 'SYS' or 'SYSTEM' will not be listed in "describe tables" output but can still be queried. To add a system view or table to the "describe tables" list, just create a local synonym for it.

Patch Tape C

Rdb 4.0 adapter changes:

- Patch to always issue 'declare transaction read write' or 'declare transaction read only' stmt when the DAL 'open database' statement is issued.
- Patch to NOT set SQL\$DATABASE variable to point to the current database being accessed from DAL. If you obtain as a result an error of the form 'SQL\$DATABASE does not point to a valid database' then you should set SQL\$DATABASE as follows:

```
$ def SQL$DATABASE msad$system:dummy$database
```

then run sql and enter the following command:

```
grant all privileges on schema rdb$handle to public position 1;
```

or if you wish you can do it from idal as follows:

```
open rdb dbms;  
execute in rdb "declare dummy schema filename sql$database";  
execute in rdb "grant all privileges on schema dummy to public position 1;";  
go
```

The grant statement needs to be executed ONLY once but the 'def sql\$database...' should be in your login.com or a systemwide definition so it is defined whenever you run DAL.

Patch Tape B

Patch to correct truncation of Rdb varchar results in Rdb 4.0 adapter:
Rdb 4.0 adapter linked under VMS 5.3 to support 5.3 and above.

Patch Tape A

Patch to correct generation of owner.table names in Sybase adapter.
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