[TD 2709-CR] New TCR V1.5 and V1.6 Shared Library, libaseapi.so - BLITZ

Unique Id: 009E0011-839C8280-1C02A1

   SOURCE: Compaq Computer Corporation   INFORMATION   BLITZ

   INFORMATION BLITZ TITLE:

      New TCR V1.5 and V1.6 Shared Library - libaseapi.so -
      Prevents Networker from 'save' error due to service name
      being retrieved from API without NULL termination.

   DATE: October 22, 1999
   INFORMATION BLITZ #: 2709-CR

   AUTHOR: Henry Bone/Debbie Trenta
   TEL#: (603)884-6288
   EMAIL: Henry.Bone@Compaq.com, Debra.Trenta@Compaq.com
   DEPARTMENT: UNIX BUSINESS SEGMENT
   ==

   PRODUCT NAME(S) IMPACTED: Tru64 UNIX

   PRODUCT FAMILY(IES):

   Storage   ___
   Systems   _x_
   Networks   ___
   PC   ___
   Software   _x_
   Other (specify) ___

   PRODUCT NUMBERS: Alpha Systems; Tru64 UNIX V4.0D-F, TCR 1.5/1.6

PROBLEM STATEMENT:

After installation of the Tru64 UNIX V4.0d/V4.0e BL12 patch kit
or with V4.0f, a problem might be experienced in Networker
attempting to do a save of a service.

A typical error message:

   save: SYSTEM error, 'service1M-PqM-Am-^?^C' is not a registered
        client.

The above error is generated because the service name is 'service1'.

ANALYSIS:

Error occurs because the malloc() function in libc.so and libc.a

has been updated. The new malloc() returns non-zeroed memory.
This behavior remains consistent with all applicable standards,
and is how malloc should be expected to work in the general
case. However, an Application Programming Interface (API)
function in libaseapi.so - ase_get_storage_list() does not ensure
NULL termination of service names; therefore this programming
error surfaced. Networker uses this API.

SOLUTION:

New ibaseapi.so has been created that ensures that a NULL
character postcedes the service name.

The new shared library can be copied from:

    guru.zk3.dec.com:/usr/guest/misc/osf/legato

For TCR 1.5 the file is: legato_tcr15.tar.Z

         For TCR 1.6 the file is: legato_tcr16.tar.Z

This new shared library will be in the Bl14 patch kit
when it is released. The library at the location
provided can be installed on Bl12 and Bl13 patch levels.

INSTALLATION:

As superuser:

(assume the patch is under /patches):

```
# cd /usr/opt/TCR<>/shlib  <> = 160 for TCR 1.6
    150 for TCR 1.5
# mv libaseapi.so libaseapi.so.orig
# cp /patches/libaseapi.so .
# chmod 644 libaseapi.so
# chown bin:bin libaseapi.so
```

After the new library is installed, Networker will need to be
restarted.

<>UPDATE /TEXT_UPDATE/UNIQUE_IDENTIFIER="009E0011-839C8280-1C02A1"-
 /TITLE="[TD 2709-CR] New TCR V1.5 and V1.6 Shared Library, libaseapi.so - BLITZ"-

```
/BADGE=(AUTHOR="999997",ENTER="166500",MODIFY="",-
EDITORIAL_REVIEW="166500",TECHNICAL_REVIEW="999997")-
/NAME=(AUTHOR="HENRY BONE",ENTER="LAURIE REILLY",-
MODIFY="",EDITORIAL_REVIEW="LAURIE REILLY",TECHNICAL_REVIEW="DEBBIE TRENTA")-
/DATE=(AUTHOR="22-OCT-1999",ENTER="22-OCT-1999",-
EXPIRE="22-OCT-2001",FLASH="22-OCT-1999 12:29:14.28",MODIFY="17-NOV-1858",-
EDITORIAL_REVIEW="22-OCT-1999",TECHNICAL_REVIEW="22-OCT-1999")-
/GEOGRAPHY="USA"/SITE="EIRS"/OWNER="TIM-BLITZ"-
/FLAGS=(USA_CUSTOMER_READABLE,NOPOST_MESSAGE_DISPLAY,NOLOCAL,-
EUR_CUSTOMER_READABLE,GIA_CUSTOMER_READABLE,NOINIT_MESSAGE_DISPLAY,-
EDITORIAL_REVIEWED,FIELD_READABLE,FLASH,TECHNICAL_REVIEWED,READY)
```