LaLo - Last Logon

The LaLo FreeWare tool from GreenHouse is a SAFEGUARD supportive
utility, that keeps track of all 'last logon' events.

It consists of two pieces:
- the logon event collector process
- a program to display the collected data

To make the tool work, perform these steps:

1. Run the LALO program, and name it $LALO. The name is checked at
   start-time.
   You MUST be logged on to SUPER.SUPER to run $LALO successfully.
   SAFEGUARD must run as well (existence of $ZSMP is checked).
   The auditing of authentication events is NOT required.

   e.g.

     [run] LALO/NAME $LALO/

   The NOWAIT start-up attribute is not required, because LALO wakes
   it ancestor by sending a WAKE message to it.

   $LALO maintains the small data file $SYSTEM.SYSTEM.LALODAT
   Please keep this file untouched.

2. To get your last logon events displayed, run the MYLALO program.
   Command syntax is:

     [run] MYLALO [num-laston]

   where

     num-laston   is a number between 2 and 10, defining the maximum
                   number of last logon events to be displayed.
                   Default is: 2

   e.g.

     $GHS1 LASTON 88> mylalo 10
     Last unsuccessful logon: 27 Oct 2004, 11:19   33
     Last successful logon: 27 Oct 2004, 11:18   31
     Previous successful logon: 27 Oct 2004, 11:16   0
                                27 Oct 2004, 10:35   1
                                27 Oct 2004, 10:30   0
                                27 Oct 2004, 10:29   0
                                27 Oct 2004, 10:28   1
                                27 Oct 2004, 10:09   -
     $GHS1 LASTON 89>

   In this example, the number of requested last logon events is 10,
   but only three were found, and displayed.

   The output displays this data:

```
    Last unsuccessful logon:    27 Oct 2004, 11:19              33
                                -----------------               --
                                       ^                         ^
       Time of Last unsuccessful event --+                       |
       Static fail count ------------------------------------+


    Last successful logon:     27 Oct 2004, 11:18              31
                                -----------------               --
                                       ^                         ^
       Time of Last successful event   --+                       |
       Static fail count at that time ----------------------+
       In this case, two failed logon events ocurred after that last
       successful event


    Previous successful logon: 27 Oct 2004, 11:16               0
                                -----------------               --
                                       ^                         ^
       Previous successful event        --+                      |
       Difference between static fail count at logon time     |
       and static fail count of previous successful logon ---+
       In this case, two successful logon events were
       done in a row.


                               27 Oct 2004, 10:35               1
                                -----------------               --
                                       ^                         ^
       Previous successful event        --+                      |
       Difference between static fail count at logon time     |
       and static fail count of previous successful logon ---+
       In this case, a failed logon was done before
       the successful logon.
```

MYLALO can be automatically started in two different places:
1. Through TACLLOCL
   This is a general place, and every user gets the last logon time
   stamps displayed when he logs on to the system.

2. Through TACLCSTM
   This is an individual place, and the individual user gets the logon
   time stamps displayed when he logs on to the system.

In either place, add this TACL statment:

   [#IF [#PROCESSEXISTS $LALO] |then| run $vol.subvol.MYLALO]

In addition, any interactive system user can run the MYLALO program to
get his actual logon time stamps displayed:
e.g.

```
  $GHS1 SECOM 2> mylalo
  Last unsuccessful logon:   18 Feb 2004, 16:01
  Last successful logon:      5 Mar 2004, 09:36
  Previous successful logon:  5 Mar 2004, 09:35
  $GHS1 SECOM 3>

or

  $GHS1 SECOM 3> mylalo 3
  Last unsuccessful logon:   18 Feb 2004, 16:01
  Last successful logon:      5 Mar 2004, 09:36
  Previous successful logon:  5 Mar 2004, 09:35
                              5 Mar 2004, 09:03
  $GHS1 SECOM 4>
```

In case you like this tool, feel free to use it.
In case you feel insecure using this tool, don't use it!

Please report any errors, glitches are enhancements you like to get
implemented to: Carl.Weber@GreenHouse.de

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