



Mosler Inc.  
8509 Berk Blvd.  
Hamilton, OH 45015-2213  
1-800-667-5371

Dear Mosler COMSEC® User:

Much publicity of late has centered on the impact that the turn of the century will have on the vast array of equipment controlled by microprocessor and software based computer systems. Organizations have been cautioned to prepare for the new millennium by confirming with their equipment vendors, that existing equipment operating within their facilities, as well as systems currently being purchased, are "Year 2000 compliant".

COMSEC systems include various software and/or firmware-based components. For this reason, many of our customers have asked Mosler for assurance that their systems will continue to function smoothly through the turn of the century and beyond, without a negative effect on their organization's operation.

In response to your concerns, attached is a copy of the "**Engineering Testing Procedure for Year 2000 Functionality**", that was performed for the COMSEC GMS-32 software application (running on Microsoft Windows NT 4.0 operation system). In addition we have attached a table that lists all related COMSEC components and the corresponding Year 2000 compliance solution to each.

Mosler would like to take this opportunity to thank you for being a loyal security partner over the years and assure you that we will continue to provide your organization with cutting-edge security solutions for your future needs.

Sincerely,

A handwritten signature in black ink, appearing to read "M S Bergeron", is written over a light gray horizontal line. The signature is cursive and fluid.

Marc S. Bergeron  
Product Marketing Manager,  
Integrated and Networked Systems

## **GMS-32 Year 2000 Compliance Engineering Test Procedure:**

1. Changed date on GMS computer to Dec. 25, 26, 27, 28, 29, 30, and 31, 1999 and generated alarms for each day to create log file for those day's.
2. Programmed some of the GMS-32 user's passwords to expire on various dates in the year 2000.
3. Set up some GMS-32 "card access users/cards" to expire on various dates in the year 2000.
4. Changed the time on the server to 11:55 P.M. and downloaded this new time to all various types of COMSEC Remote Terminal Units (RTUs).
5. Allowed the GMS-32 system computer time elapse to the year 2000, then confirmed the proper operation of the following functions:
  - Confirmed all times in the daily transaction log were time stamped with the year 2000.
  - Generated an alarm and access control report (via GMS-32 SQL server) that covered Dec. 25<sup>th</sup> through Jan 1<sup>st</sup>, 2000.
  - Confirmed that GMS-32 users passwords that were programmed to expire on Jan 1<sup>st</sup>, 2000 were expired.
  - Confirmed that GMS-32 users passwords that had already expired in 1998 and 1999 were still expired.
  - Confirmed that GMS-32 card access users that were to expire on Jan. 1<sup>st</sup>, 2000 were expired.
  - Confirmed that GMS-32 card access users that had already expired in 1990-1999 were still expired.
  - Confirmed that all Remote Status Display (LCD Keypads) on various COMSEC RTUs (1003, 2050, 1026, and SRTU) displayed the correct time and date.
6. Changed the time and date of GMS-32 to 11:55 P.M. Feb. 28<sup>th</sup>, 2000 and allowed the system computer time elapse to February 29<sup>th</sup>, 2000, then confirmed the proper operation of the following functions:
  - Confirmed all times in the daily transaction log were stamped with the correct date (Feb. 29<sup>th</sup>, 2000)
  - Generated an alarm and access control report (via GMS-32 SQL server) that covered Dec. 25<sup>th</sup> through Feb. 29<sup>th</sup>, 2000.
  - Confirmed that GMS-32 users passwords that were programmed to expire on February 29<sup>th</sup>, 2000 were expired.
  - Confirmed that GMS-32 card access users that were to expire on February 29<sup>th</sup>, 2000, were expired.
  - Confirmed that GMS-32 users passwords that had already expired in 1998 and 1999 were still expired.
  - Confirmed that GMS-32 card access users that were to expire February 29<sup>th</sup>, 2000 were expired.
  - Confirmed that all Remote Status Display (LCD Keypads) on various COMSEC RTUs (1003, 2050, 1026, and SRTU) displayed the correct time and date.
7. Changed the time and date of the GMS-32 system to 11:55 P.M. February 29<sup>th</sup>, 2000 and allowed the system computer time elapse to March, 1<sup>st</sup>, 2000, then confirmed the proper operation of the following functions:
  - Confirmed all times in the daily transaction log were stamped with the correct date (March 1<sup>st</sup>, 2000)
  - Generated an alarm and access control report (via GMS-32 SQL server) that covered Dec. 25<sup>th</sup> through March 1<sup>st</sup>, 2000.
  - Confirmed that GMS-32 users passwords that were programmed to expire on March 1<sup>st</sup>, 2000 were expired.
  - Confirmed that GMS-32 card access users that were to expire on March 1<sup>st</sup>, 2000, were expired.
  - Confirmed that GMS-32 users passwords that had already expired in 1998 and 1999 were still expired.
  - Confirmed that GMS-32 card access users that were to expire March 1<sup>st</sup>, 2000 were expired.
  - Confirmed that all Remote Status Display (LCD Keypads) on various COMSEC RTUs (1003, 2050, 1026, and SRTU) displayed the correct time and date.

### **Additional notes and tests:**

- All of the above tests were also repeated for years 2001, 2004, 2010 and year 2020.
- All of the above tests were performed on the COMSEC GMS-32 server and GMS-32 client workstations.
- A summary the conclusions of all tests are outlined in tables 1 and 2 (following).

**GMS-32 User Expiration Tests for Y2K Compliance:**

GMS User Status:	JAN 1 <sup>st</sup> ,					FEB 29 <sup>th</sup> ,					March 1 <sup>st</sup> ,				
	2000	2001	2004	2010	2020	2000	2001	2004	2010	2020	2000	2001	2004	2010	2020
User Expires 2025	N	N	N	N	N	N	-	N	-	N	N	N	N	N	N
User 2 Expires 12/1/1998	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
User 3 Expires 1/1/2000	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
User 4 Expires 2/28/2000	N	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
User 5 Expires 2/29/2000	N	Y	Y	Y	Y	N	-	Y	-	Y	Y	Y	Y	Y	Y
User 6 Expires 3/2/2000	N	Y	Y	Y	Y	N	-	Y	-	Y	N	Y	Y	Y	Y
User 7 Expires 2/28/2004	N	N	N	Y	Y	N	-	Y	-	Y	N	N	Y	Y	Y
User 8 Expires 2/28/2010	N	N	N	N	N	N	-	N	-	Y	N	N	N	Y	Y

(Table 1)

**GMS-32 Card Access (Card Holder's within database) Expiration Tests for Y2K Compliance:**

GMS User Status:	JAN 1 <sup>st</sup> ,					FEB 29 <sup>th</sup> ,					March 1 <sup>st</sup> ,				
	2000	2001	2004	2010	2020	2000	2001	2004	2010	2020	2000	2001	2004	2010	2020
Card 1 Expires 2025	N	N	N	N	N	N	-	N	-	N	N	N	N	N	N
Card 2 Expires 12/1/1998	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
Card 3 Expires 1/1/2000	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
Card 4 Expires 2/28/2000	N	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
Card 5 Expires 2/29/2000	N	Y	Y	Y	Y	N	-	Y	-	Y	Y	Y	Y	Y	Y
Card 6 Expires 3/2/2000	N	Y	Y	Y	Y	N	-	Y	-	Y	N	Y	Y	Y	Y
Card 7 Expires 2/28/2004	N	N	N	Y	Y	N	-	Y	-	Y	N	N	Y	Y	Y
Card 8 Expires 2/28/2010	N	N	N	N	N	N	-	N	-	Y	N	N	N	Y	Y

(Table 2)

**COMSEC Remote Terminal Unit LCD Time and Date Display Test for Y2K Compliance:**

RTU Type:	JAN 1 <sup>st</sup> ,					FEB 29 <sup>th</sup> ,					March 1 <sup>st</sup> ,				
	2000	2001	2004	2010	2020	2000	2001	2004	2010	2020	2000	2001	2004	2010	2020
RTU 1002/1003	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
RTU 2050	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
RTU 1026	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
RTU 1065A	Y	Y	Y	Y	Y	Y	-	Y	-	Y	Y	Y	Y	Y	Y
Smart Remote Terminal Unit (SRTU)	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y

(Table 3)

**COMSEC® Components and Year 2000 Compliance Solutions:**

<b>COMSEC Component:</b>	<b>Description:</b>	<b>Year 2000 Status</b>	<b>Recommendation</b>
<b>GMS-32</b>	COMSEC computer software application. Native Windows NT software application for alarm monitoring and access control management.	<b>Year 2000 compliant</b>	None
<b>GMS-16</b>	Windows 3.1/95 remote panel management software	Is <b>NOT</b> Year 2000 compatible	Upgrade to GMS-32A or complete GMS-32 system
<b>Flexcom I</b>	COMSEC computer software application. First generation COMSEC host computer operating on a DEC, PDP-11/XX series hardware.	Digital Equipment Corporation (DEC) has confirmed that the operating system running on these computers will <b>NOT</b> be Year 2000 compatible.	GMS-32 Upgrade
<b>Flexcom II</b>	COMSEC computer software application. Second Generation COMSEC host computer operating on a Wang VS-6000 series hardware platform.	Is <b>NOT</b> Year 2000 compatible	GMS-32 Upgrade
<b>(S-CMU) Serial Central Monitoring Unit</b>	COMSEC Front End Processing component consisting of the "Data Processor"(DP).	Year 2000 compliant	Upgrade to new "GMS" Front End Processing" architecture (1017 CPU and 1011 NIP) to be compatible with GMS-32 host computer. CMU is not compatible with GMS-32.
<b>RTU 2050</b>	Current generation Mosler Alarm and Network Interface Controller for COMSEC systems	Year 2000 compliant	None
<b>RTU 1026</b>	Current generation Mosler Alarm and Transparent Network Interface Controller for COMSEC systems	Year 2000 compliant	None
<b>RTU 1065A</b>	Current generation Mosler dialer alarm controller. Can be used as a Stand-alone panel, dial to Mosler Central Station or Integrated with COMSEC systems).	Year 2000 compliant	None

<b>COMSEC Component:</b>	<b>Description:</b>	<b>Year 2000 Status</b>	<b>Recommendation</b>
<b>Smart Remote Terminal Units (SRTU) Alarm Only</b>	Mosler Remote Terminal Unit for COMSEC systems or stand-alone alarm panel.	Year 2000 compliant	None
<b>Smart Remote Terminal Units (SRTU) with Alarm and “Standard” Access Control software.</b>	Mosler Alarm monitoring and Access Control Remote Terminal Unit for COMSEC systems. Compatible only with Mosler insert and swipe magnetic stripe card readers.	Requires firmware (EPROM) upgrade. Install version listed in next column (depending on what type of CAC used) in Overlay memory PCB of SRTU.	Call local Mosler Branch (1-800-667-5371) CAC Type – Part # - Revision 20K CAC – 12030AA - Rev 4 65K CAC – 12030BA - Rev 3 20K E/E CAC – 12030DA – Rev 3 65K E/E CAC - 12030CA - Rev 3
<b>Smart Remote Terminal Units (SRTU) With Alarm and “Central Card Data Base” software.</b>	Mosler Alarm monitoring and Access Control Remote Terminal Unit for COMSEC systems. Compatible with any wiegand type card reader and Mosler magnetic stripe.	Year 2000 compliant	None
<b>Invisicom 1002 and 1003 RTU/DLU</b>	Mosler Alarm and Network Interface Controller for COMSEC systems.	Year 2000 compliant	None
<b>Invisicom 1001DLU</b>	COSMEC Data Line Utilizer (Network Interface) for COMSEC RTU's ) SRTU, 16Point RTU and Standard RTUs	Year 2000 Compliant	None
<b>RTU 2000</b>	Mosler Alarm and Network Interface Controller for COMSEC systems.	Year 2000 Compliant	None