

Reference: PICC-ME-MN-001 Issue: V 2.0 Date: April 20, 2004 Page: 1 of 7

SCOS 2000 User Guide for the impatient



0 Preface

0.1 Document Change Record

Issue /	Date	Modified Pages	Remarks /		
Rev.		or Paragraphs	Nature of Change		
V 1.0	22-Oct-03		Initial version		
V 2.0	04/20/04	all	Update for SCOS 2000 V2.3e Patch 3		

0.2 Table of Contents

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1 Introduction

1.1 Useful Documents

S2K-MCS-SUM-0100-TOS-GCI EXTERNAL INTERFACE & TOPE SOFTWARE USER MANUAL

S2K-MCS-SUM-2110-TOS-GCI (V1.2) SCOS-2000 Desktop Operator User Manual

S2K-MCS-SUM-2120-TOS-GCI SCOS-2000 Event Logger Software User Manual

S2K-MCS-SUM-2210-TOS-GCI SCOS-2000 Telemetry Desktop Software User Manual

S2K-MCS-SUM-2220-TOS-GCI SCOS-2000 Out of Limits Display Operator User Manual

S2K-MCS-SUM-2230-TOS-GCI SCOS-2000 Variable Packet Display Operator User Manual

S2K-MCS-SUM-2310-TOS-GCI SCOS-2000 Manual Stack Operator User Manual

S2K-MCS-SUM-2360-TOS-GCI SCOS-2000 Command History Operator User Manual

1.2 Acronyms

EXIF	SCOS External Interface services
ILT	Instrument Level Test
SCOS	Spacecraft Control & Operating Systems
TCL	Tool Command Language
TOPE	Test and Operations Procedure Environment

2 Login

To use the current version of SCOS 2000 login as user "sops23e". Please ask a local SCOS 2000 expert for the actual password.

Nothing special happens at the login. Both SCOS 2000 and TOPE have to be started manually.

The standard shell is "csh". To switch to tcsh execute the command

% exec tcsh



3 Starting Up EGSE software

3.1 Starting the Router, EGSEgateway and TeiGateway

The EGSErouter and EGSEgateway are started together. Type

% StartRouter

in any terminal window¹. On the screen of the X11 terminal "irmultia" two terminal windows will pop-up to show the router and gateway log messages. It does not harm if the StartRouter command is executed even if the Router and the EGSEgateway are already running.

To start the TeiGateway type

% TeiGateway

In this case only one instance of the TeiGateway is allowed. If you are not sure whether there is already a TeiGateway process running type

ps -eo args | grep TeiGateway

to check it. The command shall produce no output when there is no TeiGateway process running.

3.2 Starting SCOS 2000

To get the SCOS 2000 task launcher window type

% s2.start

in any terminal window. Please make sure you are using a plain login terminal window still running "csh" and not "tcsh".

Press the "EGSEsry" button to select all SCOS 2000 server applications. This button is in the last row of the big rectangular buttons. Finally click on the "Start" button at the bottom and confirm your selection in the dialog menu which will appear then.

Be patient, the startup of SCOS 2000 will take a few minutes. A series of icons will appear on the screen

	S 2	K R2.	3E – St	artup & overv	iew of irsu	in01	(SunOS) [irs	un01	-1	
MON1		M	ON2	MON3	VPD1		VPD2		VPD3]
RelAST	RelASTK1 RelASTK2		RelASTK3	MSTK1	1	MSTK2		ASTK3	1	
ExecAST	ExecASTK1		CASTK2	ExecASTK3	OBQD1		OBQD2	j (DBQD3	
TCSC1	1	TO	CSC2	TCSC3	TCHIST	1	TCHIST2	T	CHIST3	
TMSC1		TP	ISC2	TMSC3	FARCB	1	FARCB2	F	ARCB3	1
TMprin	t1	ТМр	rint2	TMprint3	00L1		00L2		00L3	
EVLOG	1	EV	LOG2	EVLOG3	MSG1		MSG2		MSG3	
OBSM1	1	0	BSM2	OBSM3	MIMIC	s [GRAPHS	PD	Sadmin	
PDST	1	PI	DSTC	PDSEV	HFAret	TM	HFAretTC	HF	AretEV	
NAME		1	TMD	CMC	GPC					
LIMIT	S	F	PIF	SPPG	FARCS	;	DDSS		HPRS	
MULTI	I	VE	ERIF	RELEAS	OBQM		TPF			
MISC		U	SER	EVAC	ACTIO	N	NMSG			
TMR	TMR		PLY	TCSIM	ADMSI	М []	CLCWsim			
DESK		PSRV	server	PRQM						
TMPH		0	BEH	ТРКТ	TERM					
IMPOR	IMPORT		XIF	1						
EGSE_1	EGSE_IF EGSEsim		PDS_DISP]						
Clean	Α	11	Clier	t EGSEsrv	PACSall			J	pdate Ta	sk Status
🗆 Kill 📕 Start 🔲 Warm				■ if	o no alrea	t restart ady running	Las1	t update	10:20:01	
+++ wait *MAXINUM* [30] secondc for [TCHIST1 white TCHIST1 30 Done >> max. monther 30 s to wait >> status reported after 30 seconds from start s2.start COMPLETION Started UPDATE of tasks status UPDATE of tasks status UPDATE of tasks status completed Started UPDATE of tasks status										
	Start Quit 1									

Illustration 1: SCOS 2000 task launcher: EGSEsrv setting

¹ If you have no terminal window in your workspace click with the right mouse button on the workspace, select the "Programs" menu item and then "Terminal ...".

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Finally the SCOS 2000 desktop comes up with two bars: one at the top of the screens showing your SCOS 2000 workstation settings and one at the bottom displaying the three most recent log messages.

esa SCOS–2000

Illustration 2: SCOS 2000 desktop: top bar

To avoid annoying beeps from SCOS 2000 in case of errors click on the (green) text field "Alarm tone enabled" located in the top bar. In the upcoming dialog deselect "Alarm On" and confirm it.

To login as SCOS 2000 user click on the "Users" button of the top bar. In the dialog enter the user name "Matt", the password "Matt" and press the "Login" button.

- SCOS-2000 Roles and Privileges
SCOS-2000 - Workstation: irsun01, Spacecraft: HERSCHEL
User name Role
Login/out Users Denate Privileges Recover Privileges Handlover Session
User name Matt
Passuord Research
Role SUPE_001
Login Cancel Change Password Logout

Illustration 3: SCOS 2000 login dialog

pir11c LAUNCHER

2004.058.09.50.24.217 Exit

MPE	

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To start the standard SCOS 2000 client applications as used during PACS ILT press the "Client" button. This button is in the last row of the big rectangular buttons. Finally click on the "Start" button at the bottom and confirm your selection in the dialog menu which will appear then. Again this will take some time.



Illustration 4: SCOS 2000 task launcher: Client start

3.3 Starting TOPE

To get the TOPE task launcher window type

% exif.start

in any terminal window on the screen where you want TOPE to appear.

Select following tasks: EXIF_TMM EXIF_TM1 EXIF_CHM EXIF_CH1 TOPE1

Press the "Start" button and confirm the selection in the next dialog window.

- SCOS2000 External-IF Release 2.3E (EXIF) - Startup & overview of irsur	h01 (irsun0 🕐 🗌
EXIF_USER EXIF_MIB	
EXIF_TMM EXIF_CHM EXIF_EVM EXIF_TCM EXIF_TMI EXI	F_EVI
EXIF_TM1 EXIF_CH1 EXIF_EV1 EXIF_TC1	
EXIF_TM2 EXIF_CH2 EXIF_EV2 EXIF_TC2	
EXIF_TM3 EXIF_CH3 EXIF_EV3 EXIF_TC3	
EXIF_TM4 EXIF_CH4 EXIF_EV4 EXIF_TC4	
TOPE_DBG TOPE1 TOPE2 TOPE3	
EXIF_TEST EXIF_CHG	
Clean All EXIFsrv TOPEenv Jp	date Task Status
☐ Kill ■ Start ■ Do not restart Last r	refresh 00:00:00
7 A	
Start	Quit

Illustration 5: SCOS 2000: TOPE task launcher



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4 Using SCOS 2000

Use the SCOS 2000 task launcher to start the different applications. The digit after the application name indicates on which screen the window will pop-up. The application names translate as follows:

MON	Telemetry desktop (alphanumeric, strip chart, scrolling and mimic TM displays)
VPD	Variable 1 M packet display
MSTK	Manual command stack (manual TC release utility)
TCHIST	Telecommand history display
OOL	Out-of-Limit display (shows TM parameters being currently ool)
EVLOG	Message display (scrolling display showing SCOS 2000 log messages)

Please refer to the original SCOS 2000 documentation for the user manuals of all these applications.

5 Using TOPE

After starting TOPE you got already one TOPE execution window.

F	TOPE Command	Window -			
	Local Test Procedures Local Test Procedures HCSS Test Procedures 11365DPUtrouble_SPUL.tol But 1365DPUtrouble_SPUL.tol Edit ICCS-IF.tol Edit DMC_LLSM_LOAD_EERROM.tol Export Fetoh-Demo.tol Import Local GratingHavelengthCal.tol Y	OpenLog Trace Logfile			
10 10 10 10 10 10 10 20	loaded libTCLOCK.so loaded libTCLOCK_PR0.so loaded libTTMSET_so loaded libTTMSET_PR0.so loaded libTTC.so loaded libTTC.so loaded libTTC.so loaded libTTC.so so loaded libTTC.so loaded libTTC.so				

Illustration 6: TOPE command window

Select an existing test procedure from the "Available Procedure" list box and click on the "Run" button. The running test procedure appears in the "Active Procedure" list box. Another test procedure started during a running test procedure will suspend the currently active test procedure. This suspended test procedure continues after the second test procedure terminates. To have a further test procedure running in parallel you must open another TOPE window (and another EXIF_CHx task) with the TOPE task launcher.