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	SCOS 2000 User Guide for the impatient	Reference: PICC-ME-MN-001
Herschel PACS		Issue: V 2.0
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SCOS 2000 User Guide
for the impatient

0 Preface

0.1 Document Change Record

Issue / Rev.	Date	Modified Pages or Paragraphs	Remarks / 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 window[1]. 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 "EGSEsrv" 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.
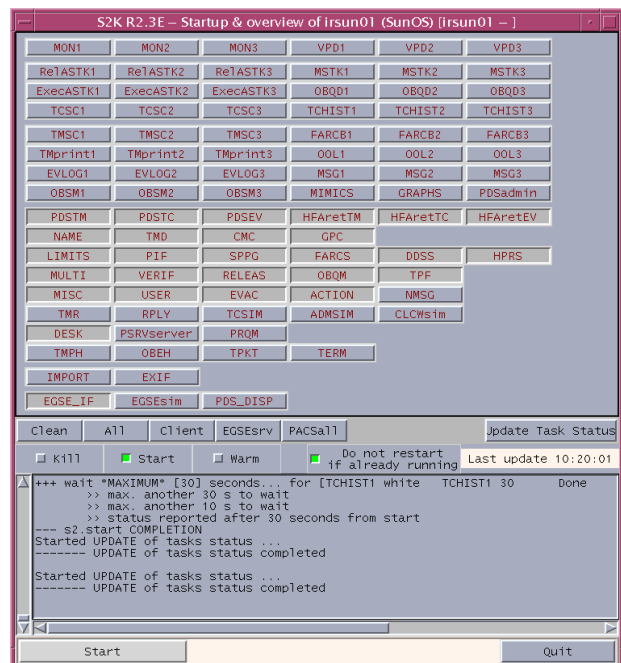

Illustration 1: SCOS 2000 task launcher: EGSEsrv setting

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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.
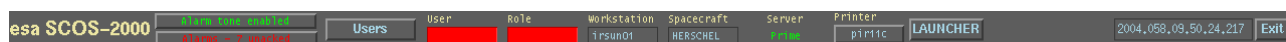

Illustration 2: SCOS 2000 desktop: top bar

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.
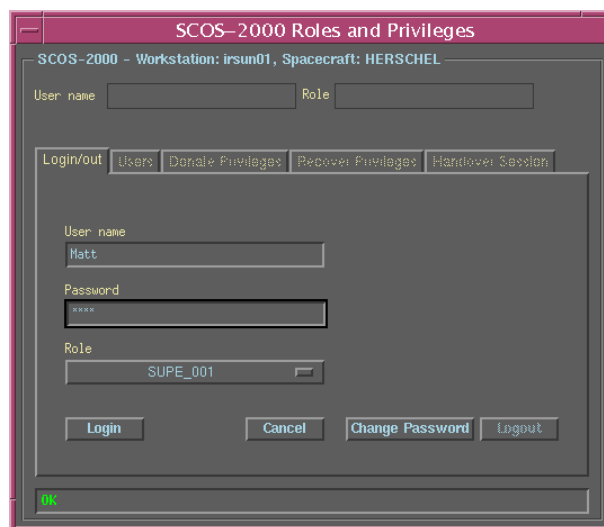

Illustration 3: SCOS 2000 login dialog

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.
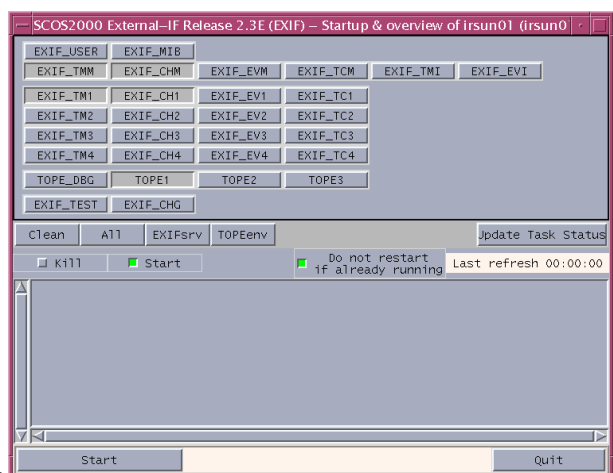

Illustration 5: SCOS 2000: TOPE task launcher

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 TM 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

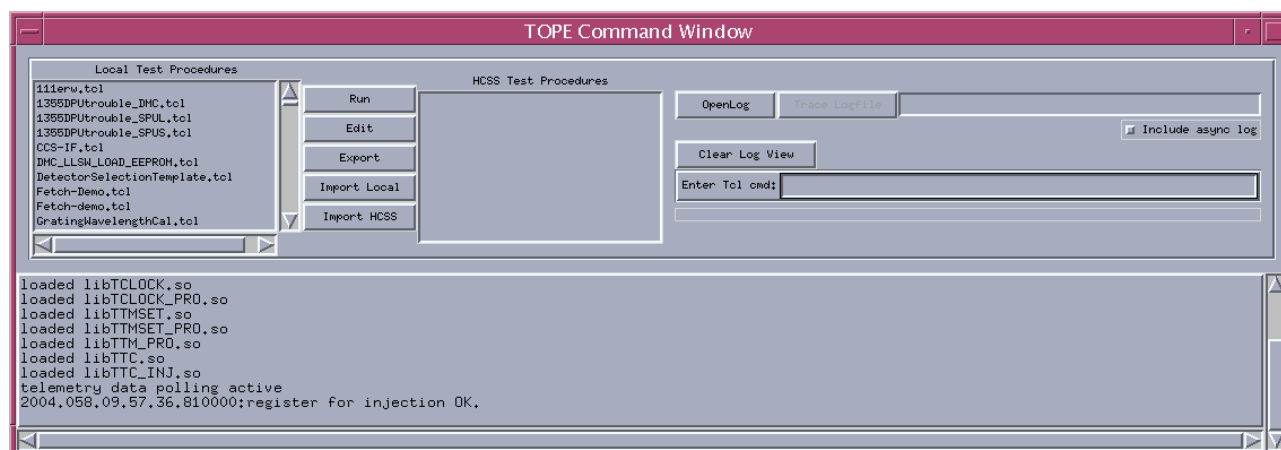After starting TOPE you got already one TOPE execution window.

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.