

CTS 850 Cross-Reference listing Remote Commands

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There are now two separate files. Each begins with the various major menus (Test Setups, Tx #1, Tx #2, Utility, etc.) and lists, for each horizontal menu button, the associated HIF page(s) and the sequence numbers of those pages in the listing. This "index" is new.

Then comes the main listing, a picture of each HIF screen listing the menu items on the screen together with their screen labels and either (1) the remote commands associated with each item, or (2) the vertical menu button choices associated with each item (new).

Document file **85p2cmds.doc** lists Remote Commands; Document file **85p2vert.doc** lists the Vertical Menu Choices.

INDEX

** denotes pages that have no menus and are not shown

----P_RESULTS_MAJOR_MENU1----

TEST	SDH	PDH	JITTE	ERROR	PERF	-more
SUMMA	RESUL	RESUL	WANDE	ANALY	ANALY	1 of
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	**	P_RESULTS_TEST_SUMMARY_PARAM1
2.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
3.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
4.	**	P_RESULTS_ALL_RESULTS_PARAM10
5.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
6.	3	P_PERFORMANCE_ANALYSIS_M2101_PARAM1

----P_RESULTS_MAJOR_MENU2----

TEST	SDH	PDH	HISTO	SAVE	RECAL	-more
SUMMA	RESUL	RESUL	GRAPH	RESUL	RESUL	2 of
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	**	P_RESULTS_TEST_SUMMARY_PARAM1
2.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
3.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
4.	**	P_RESULTS_HISTORY_GRAPHS_PARAM1
5.	7	P_RESULTS_SAVE_RESULTS_PARAM1
6.	6	P_RESULTS_RECALL_RESULTS_PARAM1

----P_RX_MAJOR_MENU----

RECEI	SIGNA	JITTE	TRANS	PATH
SETTI	STATU	WANDE	OVERH	OVERH
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	19	P_RX_SETTINGS_PARAM1
	20	P_RX_SETTINGS_TRIB_PARAM1
2.	**	P_RX_SIGNAL_STATUS_PARAM1
	**	P_RX_SIGNAL_STATUS_PARAM2
3.	11	P_RX_JITTER_WANDER_PARAM1
	**	P_TX_JITTER_PARAM1_NO_OPTION
4.	22	P_RX_TRANSPORT_OVERHEAD_PARAM1
5.	12	P_RX_PATH_OVERHEAD_PARAM1
	13	P_RX_PATH_OVERHEAD_V5_PARAM1
	14	P_RX_PATH_OVERHEAD_VC12_PARAM1
	15	P_RX_PATH_OVERHEAD_VC3_PARAM1

----P_RX_SDH_MAJOR_MENU1----

RECEI	64k R	SIGNA	ANALY	JITTE	-more
SETTI	SETTI	STATU	CONFI	WANDE	1 of
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	17	P_RX_SDH_SETTINGS_PARAM1
	18	P_RX_SDH_SETTINGS_TRIB_PARAM1
2.	16	P_RX_SDH_K64_SETTINGS_PARAM1

```

3.      **   P_RX_SIGNAL_STATUS_PARAM1
        **   P_RX_SIGNAL_STATUS_PARAM2
4.      8     P_RX_ANALYSIS_CONFIGURATION_SETTINGS_PARAM1
5.      11    P_RX_JITTER_WANDER_PARAM1
        **   P_TX_JITTER_PARAM1_NO_OPTION

```

=====

----P_RX_SDH_MAJOR_MENU2----

```

RECEI   64k R      SECTI      PATH      Rx CA      -more
SETTI   SETTI     OVERH      OVERH     VOICE     2 of
<bmp>  <bmp>     <bmp>     <bmp>     <bmp>     <bmp>

```

```

-----
Button  Page
  1.    17    P_RX_SDH_SETTINGS_PARAM1
         18    P_RX_SDH_SETTINGS_TRIB_PARAM1
  2.    16    P_RX_SDH_K64_SETTINGS_PARAM1
  3.    22    P_RX_TRANSPORT_OVERHEAD_PARAM1
  4.    12    P_RX_PATH_OVERHEAD_PARAM1
         13    P_RX_PATH_OVERHEAD_V5_PARAM1
         14    P_RX_PATH_OVERHEAD_VC12_PARAM1
         15    P_RX_PATH_OVERHEAD_VC3_PARAM1
  5.     9    P_RX_CAS_VOICE_SETTINGS_PARAM1
         10    P_RX_CAS_VOICE_SETTINGS_PARAM2

```

=====

----P_TEST_SETUP_MAJOR_MENU----

```

TEST     RECAL      RECAL      SAVE      SAVE      JITTE
         INSTRUMENT PASS/    INSTRUMENT PASS/
CONTR    SETUP     TESTS     SETUP     TESTS     TESTS

```

```

-----
Button  Page
  1.    36    P_TEST_SETUP_TEST_CONTROL_PARAM1
  2.    32    P_TEST_SETUP_RECALL_INSTRUMENT_SETUPS_PARAM1
  3.    33    P_TEST_SETUP_RECALL_PASS_FAIL_TESTS_PARAM1
  4.    34    P_TEST_SETUP_SAVE_INSTRUMENT_SETUPS_PARAM1
  5.    35    P_TEST_SETUP_SAVE_PASS_FAIL_TESTS_PARAM1
  6.    25    P_TEST_JITTER_OUTPUT_PARAM1
         26    P_TEST_JITTER_POINTER_PARAM1
         27    P_TEST_JITTER_RECALL_RESULTS
         28    P_TEST_JITTER_SAVE_RESULTS
         29    P_TEST_JITTER_SPECTRUM_PARAM1
         30    P_TEST_JITTER_TOLERANCE_PARAM1
         31    P_TEST_JITTER_TRANSFER_PARAM1
        **   P_TEST_JITTER_VIEW_DATA_TOLERANCE
        **   P_TEST_JITTER_VIEW_DATA_TRANSFER
        **   P_TEST_JITTER_VIEW_GRAPH_SPECTRUM
        **   P_TEST_JITTER_VIEW_GRAPH_TOLERANCE
        **   P_TEST_JITTER_VIEW_GRAPH_TRANSFER
        **   P_TX_JITTER_PARAM1_NO_OPTION

```

=====

----P_TX_MAJOR_MENU----

```

TRANS   ERROR     POINT     JITTE     APS     TRANS     PATH
SETTI   & ALA      & TIM     WANDE     COMMA   OVERH     OVERH
<bmp>  <bmp>     <bmp>     <bmp>     <bmp>   <bmp>     <bmp>

```

```

-----
Button  Page
  1.    49    P_TX_SDH_SETTINGS_PARAM1
         50    P_TX_SDH_SETTINGS_TRIB_PARAM1
         51    P_TX_SETTINGS_PARAM1
         52    P_TX_SETTINGS_THROUGH_MODE_PARAM1
         53    P_TX_SETTINGS_TRIB_PARAM1
  2.    39    P_TX_ERRORS_ALARMS_PARAM1
  3.    45    P_TX_POINTERS_TIMING_FREQUENCY_PARAM1
         46    P_TX_POINTERS_TIMING_PARAM1
         47    P_TX_POINTERS_TIMING_SEQUENCE_PARAM1
  4.    40    P_TX_JITTER_PARAM1

```

```

** P_TX_JITTER_PARAM1_NO_OPTION
5. 38 P_TX_APS_COMMANDS_PARAM1
6. 54 P_TX_TRANSPORT_OVERHEAD_PARAM1
7. 41 P_TX_PATH_OVERHEAD_PARAM1
   42 P_TX_PATH_OVERHEAD_V5_PARAM1
   43 P_TX_PATH_OVERHEAD_VC12_PARAM1
   44 P_TX_PATH_OVERHEAD_VC3_PARAM1
=====

```

----P_TX_SDH_MAJOR_MENU1----

```

TRANS 64k T DEFEC POINT JITTE APS -more
SETTI SETTI ANOMA & TIM WANDE COMMA 1 of
<bmp> <bmp> <bmp> <bmp> <bmp> <bmp> <bmp>
-----

```

```

Button Page
1. 49 P_TX_SDH_SETTINGS_PARAM1
   50 P_TX_SDH_SETTINGS_TRIB_PARAM1
   52 P_TX_SETTINGS_THROUGH_MODE_PARAM1
   53 P_TX_SETTINGS_TRIB_PARAM1
2. 48 P_TX_SDH_K64_SETTINGS_PARAM1
3. 39 P_TX_ERRORS_ALARMS_PARAM1
4. 45 P_TX_POINTERS_TIMING_FREQUENCY_PARAM1
   46 P_TX_POINTERS_TIMING_PARAM1
   47 P_TX_POINTERS_TIMING_SEQUENCE_PARAM1
5. 40 P_TX_JITTER_PARAM1
   ** P_TX_JITTER_PARAM1_NO_OPTION
6. 38 P_TX_APS_COMMANDS_PARAM1
=====

```

----P_TX_SDH_MAJOR_MENU2----

```

TRANS SECTI PATH TRACE SIGNA OVERH -more
SETTI OVERH OVERH SETTI LABEL PRBS 2 of
<bmp> <bmp> <bmp> <bmp> <bmp> <bmp> <bmp>
-----

```

```

Button Page
1. 49 P_TX_SDH_SETTINGS_PARAM1
   50 P_TX_SDH_SETTINGS_TRIB_PARAM1
   52 P_TX_SETTINGS_THROUGH_MODE_PARAM1
   53 P_TX_SETTINGS_TRIB_PARAM1
2. 54 P_TX_TRANSPORT_OVERHEAD_PARAM1
3. 41 P_TX_PATH_OVERHEAD_PARAM1
   42 P_TX_PATH_OVERHEAD_V5_PARAM1
   43 P_TX_PATH_OVERHEAD_VC12_PARAM1
   44 P_TX_PATH_OVERHEAD_VC3_PARAM1
4. 37 P_TRACE_SETTINGS_PARAM1
5. 24 P_SIGNAL_LABELS_PARAM1
6. 1 P_OVERHEAD_PRBS_TEST_PARAM1
=====

```

----P_UTILITY_MAJOR_MENU----

```

MISC PRINT REMOT INSTR SELF JITTE
SETTI SETUP CONTR CONF1 TEST CAL
<bmp> <bmp> <bmp> <bmp> <bmp> <bmp>
-----

```

```

Button Page
1. 58 P_UTILITY_MISC_SETTINGS_PARAM1
2. 59 P_UTILITY_PRINTER_SETUP_PARAM1
3. 60 P_UTILITY_REMOTE_CONTROL_PARAM1
4. 57 P_UTILITY_INSTRUMENT_CONFIG_PARAM1
5. 61 P_UTILITY_SELF_TEST_PARAM1
6. 55 P_UTILITY_CALIBRATION_PARAM1
   ** P_UTILITY_CALIBRATION_M45_PARAM1
=====

```

1.

----P_OVERHEAD_PRBS_TEST_PARAM1----

Tx Overhead PRBS Test	None	2^15-1	Normal
Rx Overhead PRBS Test	None	2^15-1	Normal
Pattern Lock ...	Unlocked		

Errors ... <nbr> BER ... <nbr>

```
Item OVERHEAD_TEST_SELECT_TX_BYTE ("Tx Overhead PRBS Test ...")
  :source:data:telecom:overhead:prbs
Item OVERHEAD_TEST_SELECT_TX_PATTERN ("Tx Overhead PRBS Test ...")
  :source:data:telecom:overhead:prbs
Item OVERHEAD_TEST_SELECT_TX_INVERT ("Tx Overhead PRBS Test ...")
  :source:data:telecom:overhead:prbs
Item OVERHEAD_TEST_SELECT_RX_BYTE ("Rx Overhead PRBS Test ...")
  :sense:data:telecom:overhead:prbs
Item OVERHEAD_TEST_SELECT_RX_PATTERN ("Rx Overhead PRBS Test ...")
  :sense:data:telecom:overhead:prbs
Item OVERHEAD_TEST_SELECT_RX_INVERT ("Rx Overhead PRBS Test ...")
  :sense:data:telecom:overhead:prbs
=====
```

2.

----P_PERFORMANCE_ANALYSIS_G826_PARAM1----

Analysis Type G.826

SDH Allocation <nbr>

PDH Allocation <nbr>

Include UAS No Limit .. <nbr>

Current Results		<var>			
	Near End	Far End		Near End	Far End
RS	PASS		140	PASS	PASS
MS	PASS	PASS	34	PASS	PASS
HP	PASS	PASS	8	PASS	PASS
LP	PASS	PASS	2	PASS	PASS

Item PERFORMANCE_ANALYSIS_SELECT_ANALYSIS_G826_TYPE ("Analysis Type ...")

(No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_G826_SDH_ALLOCATION ("SDH Allocation ...")

(No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_G826_PDH_ALLOCATION ("PDH Allocation ...")

(No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_G826_UAS_ENABLE ("Include UAS ...")

:sense:data:telecom:measure:analysis:g826:uaseconds:enable

Item SENSE_DATA_MEASURE_ANALYSIS_G826_UAS_LIMIT ("Limit ...")

(No commands found)

=====

3.

----P_PERFORMANCE_ANALYSIS_M2101_PARAM1----

Analysis Type M.2101.1

Test Type BIS

Allocation <nbr>

Include UAS No Limit .. <nbr>

APO Multiplier

 Section ES . <nbr> SES .. <nbr>

 Path ES . <nbr> SES .. <nbr>

Current Results Acceptable

 Near End Far End

 RS ACCEPTABLE

 MS ACCEPTABLE ACCEPTABLE

 HP ACCEPTABLE ACCEPTABLE

 LP ACCEPTABLE ACCEPTABLE

Item PERFORMANCE_ANALYSIS_SELECT_ANALYSIS_M2101_TYPE ("Analysis Type ...")
 (No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_TEST_TYPE ("Test Type ...")

 :sense:data:telecom:measure:analysis:m2101:test:type

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_ALLOCATION_HIF ("Allocation ...")

 (No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_UAS_ENABLE ("Include UAS ...")

 :sense:data:telecom:measure:analysis:m2101:uaseconds:enable

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_UAS_LIMIT_HIF ("Limit ...")

 (No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_SECTION_ES_APOM_HIF ("ES ...")

 (No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_SECTION_SES_APOM_HIF ("SES ...")

 (No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_PATH_ES_APOM_HIF ("ES ...")

 (No commands found)

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_PATH_SES_APOM_HIF ("SES ...")

 (No commands found)

=====

4.

----P_RESULTS_ANALYSIS_SDH_G826_B1BIP----

Section Analysis (B1 BIP)

Near End	B1-BIP	B2-BIP	B3-BIP	TU-BIP
Far End		MS-REI	HP-REI	LP-REI
B1-BIP Analysis			COUNT	RATIO
Errored Blocks		<nbr>		
Errored Seconds		<nbr>		<nbr>
Background Block Errors		<nbr>		<nbr>
Severely Errored Seconds		<nbr>		<nbr>
Consecutive SES Periods		<nbr>		
Unavailable Seconds		<nbr>		<nbr>

Analysis PASS

Item ..._B1BIP
(No commands found)
Item ..._B2BIP
(No commands found)
Item ..._MSREI
(No commands found)
Item ..._B3BIP
(No commands found)
Item ..._HPREI
(No commands found)
Item ..._TUBIP
(No commands found)
Item ..._LPREI
(No commands found)
=====

5.

```
-----P_RESULTS_ANALYSIS_SDH_M2101_B1BIP-----
Section Analysis (B1 BIP)
    Near End  B1-BIP          B2-BIP          B3-BIP          TU-BIP
              Far End
B1-BIP Analysis (per G.829)  MS-REI          HP-REI          LP-REI
                          COUNT          RATIO
Errored Blocks              <nbr>
Errored Seconds              <nbr>
Background Block Errors      <nbr>
Severely Errored Seconds     <nbr>
Consecutive SES Periods      <nbr>
Unavailable Seconds          <nbr>

Analysis                      ACCEPTABLE
```

```
-----
Item ..._B1BIP
  (No commands found)
Item ..._B2BIP
  (No commands found)
Item ..._MSREI
  (No commands found)
Item ..._B3BIP
  (No commands found)
Item ..._HPREI
  (No commands found)
Item ..._TUBIP
  (No commands found)
Item ..._LPREI
  (No commands found)
=====
```

6.

----P_RESULTS_RECALL_RESULTS_PARAM1----

Memory	Start Time	Durati
Current	00:00:00 01-Jan-00	Running...r>

Disk	Description
------	-------------

<

```
-----  
Item RESULTS0_NAME  
  (No commands found)  
=====
```

7.

----P_RESULTS_SAVE_RESULTS_PARAM1----

The results of the last test are stored in memory.
For a permanent record, they must be saved to disk.

Name
Description

Save To Disk Select Action

Memory	Start	Time/Date	Duration
Current	00:00:00	01-Jan-00	Running...

Item ..._NAME ("Name ...")
 (No commands found)
Item SENSE_DATA_MEASURE_INFORMATION_DESCRIPTION ("Description ...")
 (No commands found)
Item ..._SAVE_DISK ("\\011 Save To Disk ...")
 (No commands found)
=====

8.

```
----P_RX_ANALYSIS_CONFIGURATION_SETTINGS_PARAM1----
FAS Error Threshold ..... <nbr>
Pointer ss-Bit Mismatch Action ..... Loss of Pointer
Trace Mismatch Detection ..... Disabled
HP Unequipped Detection ..... Disabled
LP Unequipped Detection ..... Disabled
HP Signal Label Mismatch Detection.. Disabled
LP Signal Label Mismatch Detection... Disabled
Severely Errored Second
  CRC Error Threshold ..... 300

Rx Error Trigger Output ..... None
```

```
-----
Item ..._FAS_THRESHOLD ("FAS Error Threshold ...")
  (No commands found)
Item ..._POINTER_MISMATCH ("Pointer ss-Bit Mismatch Action ...")
  :sense:data:telecom:measure:config:pointer:mismatch
Item ..._TRACE_MISMATCH ("Trace Mismatch Detection ...")
  :sense:data:telecom:measure:config:trace:mismatch
Item SENSE_DATA_POVERHEAD_HPUNEQUIPPED ("HP Unequipped Detection ...")
  :sense:data:telecom:poverhead:hpunequipped
Item SENSE_DATA_POVERHEAD_LPUNEQUIPPED ("LP Unequipped Detection ...")
  :sense:data:telecom:poverhead:lpunequipped
Item SENSE_DATA_POVERHEAD_HPPLM ("HP Signal Label Mismatch Detection..")
  :sense:data:telecom:poverhead:hpplm
Item SENSE_DATA_POVERHEAD_LPPLM ("LP Signal Label Mismatch Detection...")
  :sense:data:telecom:poverhead:lpplm
Item ..._SES_THRESHOLD ("CRC Error Threshold ...")
  :sense:data:telecom:measure:tributary:analysis:g826:threshold:m2:seseconds
  :sense:data:telecom:measure:tributary:analysis:g826:threshold:m45:seseconds
Item ..._ERROR_TRIGGER ("Rx Error Trigger Output ...")
  :sense:data:telecom:erroutput:source
=====
```

9.

----P_RX_CAS_VOICE_SETTINGS_PARAM1----

```
CAS Display Mode..... Single
Selected Timeslot..... <nbr>
Speaker..... Off

CAS Bit Values..... TS   abcd
                   <nb  <nbr>
```

```
-----
Item ..._CAS_MODE ("CAS Display Mode...")
:sense:data:telecom:cas:mode
Item ..._TIMESLOT ("Selected Timeslot...")
(No commands found)
Item ..._VOLUME ("Speaker...")
:sense:data:telecom:tributary:k64:speaker
=====
```

10.

----P_RX_CAS_VOICE_SETTINGS_PARAM2----
CAS Display Mode..... Single

TS	abcd	TS	abcd	TS	abcd	TS	abcd
1	<nbr>	9	<nbr>	17	<nbr>	25	<nbr>
2	<nbr>	10	<nbr>	18	<nbr>	26	<nbr>
3	<nbr>	11	<nbr>	19	<nbr>	27	<nbr>
4	<nbr>	12	<nbr>	20	<nbr>	28	<nbr>
5	<nbr>	13	<nbr>	21	<nbr>	29	<nbr>
6	<nbr>	14	<nbr>	22	<nbr>	30	<nbr>
7	<nbr>	15	<nbr>	23	<nbr>	31	<nbr>
8	<nbr>	16	----	24	<nbr>		

Item ..._CAS_MODE ("CAS Display Mode...")
:sense:data:telecom:cas:mode
=====

11.

```
----P_RX_JITTER_WANDER_PARAM1----  
Jitter Mode ..... Peak-Peak  
Jitter Input Source ..... Line  
Jitter Input Clock Rate .... 52MHz (STM-0)  
Jitter Range ..... Normal (6UI)  
Jitter Measurement Filter .. Wideband  
                          (100Hz - 400kHz)  
Fullband Highpass ..... 10.0Hz  
Jitter Hit Threshold ..... <nbr>  
Pointer Hit Threshold ..... <nbr>
```

```
-----  
Item RX_JITTER_WANDER_MODE ("Jitter Mode ...")  
  :sense:data:telecom:jitter:mode  
Item RX_JITTER_WANDER_SOURCE ("Jitter Input Source ...")  
  :sense:data:telecom:jitter:source  
Item RX_JITTER_WANDER_CLOCK_RATE ("Jitter Input Clock Rate ...")  
  :sense:data:telecom:jitter:clock:rate  
Item RX_JITTER_WANDER_RANGE ("Jitter Range ...")  
  :sense:data:telecom:jitter:range  
Item RX_JITTER_WANDER_FILTER_TYPE ("Jitter Measurement Filter ...")  
  :diagnostic:select  
  :sense:data:telecom:jitter:filter:highband  
  :sense:data:telecom:jitter:filter:type  
Item RX_JITTER_WANDER_FILTER_SUBBAND_HPASS ("Fullband Highpass ...")  
  :sense:data:telecom:jitter:filter:fullband:hpass  
Item RX_JITTER_WANDER_HIT_THRESHOLD ("Jitter Hit Threshold ...")  
  (No commands found)  
Item RX_JITTER_WANDER_PTR_EVENT_THRESHOLD ("Pointer Hit Threshold ...")  
  (No commands found)  
=====
```

12.

```
----P_RX_PATH_OVERHEAD_PARAM1----
Overhead View ..... STS Path Overhead
External Drop ..... None
Pause Control ..... Updates Active
C2 Signal Label ..... (Undefined)
J1 HP Trace Format ..... 64-byte

      Path Overhead          Path Trace Message
J1: <nbr>          <bmp>
B3: <nbr>
C2: <nbr>
G1: <nbr>
F2: <nbr>
H4: <nbr>
Z3: <nbr>
Z4: <nbr>
Z5: <nbr>
-----
Item ..._DISPLAY ("Overhead View ...")
      (No commands found)
Item ..._EXTERNAL_DROP ("External Drop ...")
      :sense:data:telecom:overhead:drop
      :sense:data:telecom:poverhead:drop
Item RX_PATH_OVERHEAD_CONTROL ("Pause Control ...")
      :initiate
Item RX_PATH_OVERHEAD_J1_TRACE_FORMAT ("J1 HP Trace Format ...")
      :sense:data:telecom:poverhead:trace:format
=====
```


13.

```
----P_RX_PATH_OVERHEAD_V5_PARAM1----  
Receiving STS-1 with STS-1 : 1 under test  
Overhead View ..... STS Path Overhead  
Pause Control ..... Updates Active
```

```
                <nbr>Overhead  
V5:
```

```
-----  
Item RX_PATH_OVERHEAD_SELECT_V5  
  (No commands found)  
Item RX_PATH_OVERHEAD_V5_CONTROL ("Pause Control ...")  
  :initiate  
=====
```

14.

```
----P_RX_PATH_OVERHEAD_VC12_PARAM1----  
Overhead View ..... STS Path Overhead  
  
Pause Control ..... Updates Active  
V5 Signal Label ..... (Unequipped)  
  
      Path Overhead          Path Trace Message  
V5: <nbr>  
J2: <nbr>          <bmp>  
N2: <nbr>  
K4: <nbr>
```

```
-----  
Item RX_PATH_OVERHEAD_SELECT_VC12 ("Overhead View ...")  
  (No commands found)  
Item RX_PATH_OVERHEAD_VC12_CONTROL ("Pause Control ...")  
  :initiate  
=====
```

15.

----P_RX_PATH_OVERHEAD_VC3_PARAM1----

Overhead View STS Path Overhead

Pause Control Updates Active

C2 Signal Label <var>

	Path Overhead	Path Trace Message
J1:	<nbr> <bmp	
B3:	<nbr>	
C2:	<nbr>	
G1:	<nbr>	
F2:	<nbr>	
H4:	<nbr>	
Z3:	<nbr>	
Z4:	<nbr>	
Z5:	<nbr>	

Item RX_PATH_OVERHEAD_SELECT_VC3 ("Overhead View ...")

(No commands found)

Item RX_PATH_OVERHEAD_VC3_CONTROL ("Pause Control ...")

:initiate

=====

16.

```
----P_RX_SDH_K64_SETTINGS_PARAM1----
2 Mb/s Framing..... Framed
Configuration..... N x 64k
Number of Timeslots..... <nbr>
Starting Timeslot..... <nbr>
Test Pattern..... <nbr>2^23-1 Normal (ITU)
```

Active Timeslots

```
<< < << < << < < << < << < << < << << < <<
 1         5         10        15        20        25        30 <
```

```
-----
Item ..._FRAMING ("2 Mb/s Framing...")
:sense:data:telecom:tributary:framing
Item ..._CONFIGURATION ("Configuration...")
(No commands found)
Item ..._WIDTH ("Number of Timeslots...")
(No commands found)
Item ..._TIMESLOT ("Starting Timeslot...")
(No commands found)
Item ..._TEST_PATTERN ("Test Pattern...")
:sense:data:telecom:payload:pattern
:sense:data:telecom:tributary:pattern
Item ..._TEST_PATTERN_POLARITY ("Test Pattern...")
:sense:data:telecom:payload:prbs:invert
Item ..._UBYTE ("Test Pattern...")
:sense:data:telecom:payload:pattern
:sense:data:telecom:tributary:pattern
=====
```

17.

```
----P_RX_SDH_SETTINGS_PARAM1----
Receive Rate ..... STM-4           Optical
Receive Level ..... Cross Connect
AU Under Test ..... 1
SDH Structure ..... AU-4 Bulk
TU Under Test ..... :1 (Group 1, TUG-2:1   TU-12:1
Payload Structure ..... 140 Mb/suipped)Framed
  Test Pattern ..... <nbr>2^23-1       Normal (ITU)
  34Mb/s Active Channel..... 1
  8Mb/s Active Channel..... 1
  2Mb/s Active Channel..... 1
Payload Drop..... Drop DS1 (AMI)
Tx/Rx Setup..... Independent
```

```
-----
Item ..._RATE ("Receive Rate ...")
  :input1:telecom:rate
  :input1:telecom:type
  :input3:telecom:rate
  :sense:data:telecom:source
Item ..._QUALIFIER ("Receive Rate ...")
  :input1:telecom:type
Item ..._LEVEL ("Receive Level ...")
  :input1:telecom:level
Item ..._AU ("AU Under Test ...")
  (No commands found)
Item ..._STRUCTURE ("SDH Structure ...")
  :sense:data:telecom:payload:mapping
  :sense:data:telecom:structure
  :sense:data:telecom:tributary:mapping
Item ..._TU_GROUP ("TU Under Test ...")
  (No commands found)
Item ..._TU2 ("TU Under Test ...")
  (No commands found)
Item ..._TU12 ("TU Under Test ...")
  (No commands found)
Item ..._BULK_PAYLOAD ("Payload Structure ...")
  :sense:data:telecom:payload:mapping
Item ..._TU_PAYLOAD ("Payload Structure ...")
  :sense:data:telecom:tributary:payload
Item ..._TU_PAYLOAD_FRAMING ("Payload Structure ...")
  :sense:data:telecom:tributary:framing
Item ..._TEST_PATTERN ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")
  :sense:data:telecom:payload:prbs:invert
Item ..._UBYTE ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item ..._M34_CHANNEL ("34Mb/s Active Channel...")
  :sense:data:telecom:tributary:dmx34:channel
Item ..._M8_CHANNEL ("8Mb/s Active Channel...")
  :sense:data:telecom:tributary:dmx8:channel
Item ..._M2_CHANNEL ("2Mb/s Active Channel...")
  :sense:data:telecom:tributary:dmx2:channel
Item ..._PAYLOAD_DROP ("Payload Drop...")
  :output2:telecom:code
  :output3:telecom:code
  :sense:data:telecom:tributary:drop
Item ..._TX_RX ("Tx/Rx Setup...")
  :instrument:coupling
```

:source:data:telecom:source

=====

18.

```
----P_RX_SDH_SETTINGS_TRIB_PARAM1----
Receive Rate ..... STM-4           Balanced
Receive Level..... Normal (Cross Connect)

Payload Structure ..... 140 Mb/s     Framed
  Test Pattern ..... <nbr>2^23-1     Normal (ITU)
  34Mb/s Active Channel..... 1
  8Mb/s Active Channel..... 1
  2Mb/s Active Channel..... 1
Payload Drop..... Drop DS1 (AMI)
Tx/Rx Setup..... Independent
```

```
-----
Item ..._RATE ("Receive Rate ...")
  :input1:telecom:rate
  :input1:telecom:type
  :input3:telecom:rate
  :sense:data:telecom:source
Item ..._QUALIFIER ("Receive Rate ...")
  :input2:telecom:code
  :input2:telecom:terminator
  :input3:telecom:code
Item ..._LEVEL ("Receive Level...")
  :input2:telecom:level
  :input3:telecom:level
Item ..._PAYLOAD ("Payload Structure ...")
  :sense:data:telecom:tributary:payload
Item ..._PAYLOAD_FRAMING ("Payload Structure ...")
  :sense:data:telecom:tributary:framing
Item ..._TEST_PATTERN ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")
  :sense:data:telecom:payload:prbs:invert
Item ..._UBYTE ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item ..._M34_CHANNEL ("34Mb/s Active Channel...")
  :sense:data:telecom:tributary:dmx34:channel
Item ..._M8_CHANNEL ("8Mb/s Active Channel...")
  :sense:data:telecom:tributary:dmx8:channel
Item ..._M2_CHANNEL ("2Mb/s Active Channel...")
  :sense:data:telecom:tributary:dmx2:channel
Item ..._PAYLOAD_DROP ("Payload Drop...")
  :output2:telecom:code
  :output3:telecom:code
  :sense:data:telecom:tributary:drop
Item ..._TX_RX ("Tx/Rx Setup...")
  :instrument:coupling
  :source:data:telecom:source
=====
```

19.

```
----P_RX_SETTINGS_PARAM1----
Receive Rate ..... STS-1
Receive Level ..... Cross Connect
Signal Structure ..... STS-1
STS Under Test ..... 1
Mapping ..... Bulk Fill (Equipped)
DS3 Framing ..... DS3 C-bit 1, VT 1)   TU-12:1
DS1 Under Test ..... DS1 Inframed
DS1 Framing ..... DS1 Unframed
Tributary Drop ..... Drop DS1 (AMI)
Test Pattern ..... <nbr>2^23-1
Tx/Rx Settings ..... Independent
```

```
-----
Item ..._RATE ("Receive Rate ...")
  :input1:telecom:rate
  :input1:telecom:type
  :input2:telecom:terminator
  :input3:telecom:rate
  :sense:data:telecom:source
Item ..._LEVEL ("Receive Level ...")
  :input1:telecom:level
Item ..._SIGNAL_STRUCTURE ("Signal Structure ...")
  :sense:data:telecom:structure
Item ..._SPE ("STS Under Test ...")
  (No commands found)
Item ..._SPE_MAPPING ("Mapping ...")
  :sense:data:telecom:payload:mapping
  :sense:data:telecom:tributary:mapping
Item ..._VT_GROUP ("DS3 Framing ...")
  (No commands found)
Item ..._TU_TU12_CHANNEL ("DS3 Framing ...")
  (No commands found)
Item ..._VT_FRAMING ("DS1 Under Test ...")
  :sense:data:telecom:tributary:framing
Item ..._DEMAP_FRAMING ("DS3 Framing ...")
  :sense:data:telecom:tributary:framing
Item ..._DEMUX_CHAN_READOUT ("DS1 Under Test ...")
  (No commands found)
Item SENSE_DATA_TRIBUTARY_DEMUX_FRAMING ("DS1 Framing ...")
  :sense:data:telecom:tributary:demultiplex:framing
Item ..._TRIBUTARY_DROP ("Tributary Drop ...")
  :output2:telecom:code
  :output3:telecom:code
  :sense:data:telecom:tributary:drop
Item ..._TEST_PATTERN ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item ..._UBYTE ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item ..._TX_RX ("Tx/Rx Settings ...")
  :instrument:coupling
  :source:data:telecom:source
=====
```


20.

```
----P_RX_SETTINGS_TRIB_PARAM1----
Receive Rate ..... STS-1
Receive Level ..... Normal (Cross Connect)

DS3 Framing ..... DS3 C-bitmed
DS1 Under Test ..... DS1 1
DS1 Framing ..... DS1 Unframed

Test Pattern ..... <nbr>2^23-1
Tx/Rx Settings ..... Independent
```

```
-----
Item RX_SETTINGS_SELECT_TRIB_RATE ("Receive Rate ...")
  :input1:telecom:rate
  :input1:telecom:type
  :input2:telecom:terminator
  :input3:telecom:rate
  :sense:data:telecom:source
Item RX_SETTINGS_SELECT_TRIBUTARY_LEVEL ("Receive Level ...")
  :input2:telecom:level
  :input3:telecom:level
Item RX_SETTINGS_SELECT_TRIBUTARY_FRAMING ("Framing ...")
  :sense:data:telecom:tributary:framing
Item RX_SETTINGS_SELECT_TRIBUTARY_DEMAP_FRAMING ("Framing ...")
  :sense:data:telecom:tributary:framing
Item RX_SETTINGS_SELECT_TRIBUTARY_DEMUX_CHAN_READOUT ("DS1 Under Test ...")
  (No commands found)
Item RX_SETTINGS_SELECT_TRIBUTARY_DEMUX_FRAMING ("DS1 Framing ...")
  :sense:data:telecom:tributary:demultiplex:framing
Item RX_SETTINGS_SELECT_TRIB_TEST_PATTERN ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item RX_SETTINGS_SELECT_TRIB_UBYTE ("Test Pattern ...")
  :sense:data:telecom:payload:pattern
  :sense:data:telecom:tributary:pattern
Item RX_SETTINGS_SELECT_TRIB_TX_RX ("Tx/Rx Settings ...")
  :instrument:coupling
  :source:data:telecom:source
=====
```

21.

----P_RX_SET_BYTE_TRACE_PARAM1----

=====

22.

```
----P_RX_TRANSPORT_OVERHEAD_PARAM1----
Showing Overhead for ..... STS-1 :1
External Drop ..... None
Pause Control ..... Updates Active
J0 RS Trace ..... Tek CTS 850
S1 Sync. Status Message ....
      Column ?           Column ?           Column ?
A1: <nbr>                A2: <nbr>                J0: <nbr>
B1: <nbr>                E1: <nbr>                F1: <nbr>
D1: <nbr>                D2: <nbr>                D3: <nbr>
H1: <nbr>                H2: <nbr>                H3: <nbr>
B2: <nbr>                K1: <nbr>                K2: <nbr>
D4: <nbr>                D5: <nbr>                D6: <nbr>
D7: <nbr>                D8: <nbr>                D9: <nbr>
D10: <nbr>              D11: <nbr>              D12: <nbr>
S1: <nbr>                Z2: <nbr>                E2: <nbr>
```

```
-----
Item ..._COLUMNS_HIF ("Showing Overhead for ...")
  (No commands found)
Item ..._EXTERNAL_DROP ("External Drop ...")
  :sense:data:telecom:overhead:drop
  :sense:data:telecom:poverhead:drop
Item RX_TRANSPORT_OVERHEAD_CONTROL ("Pause Control ...")
  :initiate
Item RX_TRANSPORT_OVERHEAD_TRACE_J0 ("J0 RS Trace ...")
  :sense:data:telecom:section:trace:mode
=====
```

23.

----P_RX_VIEW_BYTE_TRACE_PARAM1----

=====

24.

```
----P_SIGNAL_LABELS_PARAM1----
C2 HP-Signal Label      Measurement:  Disabled
  Expected .....      <nbr>      <var>
  Rx .....            <nbr>      (Undefined)
  Tx .....            <nbr>      <var>
C2 LP-Signal Label      Measurement:  Disabled
  Expected .....      <nbr>      <var>
  Rx .....            <nbr>      <var>
  Tx .....            <nbr>      <var>
V5 LP-Signal Label      Measurement:  Disabled
  Expected .....      000      (Unequipped)
  Rx .....            <nbr>      (Unequipped)
  Tx .....            000      <var>
```

```
-----
Item TX_SIGNAL_LABELS_C2_HP_EXPECTED_VALUE ("Expected ...")
  (No commands found)
Item TX_SIGNAL_LABELS_C2_LP_EXPECTED_VALUE ("Expected ...")
  (No commands found)
Item TX_SIGNAL_LABELS_V5_LP_EXPECTED_VALUE ("Expected ...")
  (No commands found)
=====
```

25.

```
----P_TEST_JITTER_OUTPUT_PARAM1----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Test Duration ..... 1 min 0 sec
```

No Data

Filter	Measured Jitter	Max Allowed (G.823)
Wideband		
Highband		

Press START/STOP to Begin Jitter Transfer Test

```
-----  
Item ..._TYPE ("Test Type ...")  
:sense:data:telecom:test:jitter:type  
Item ..._CONTROL ("Test Control ...")  
:sense:data:telecom:test:jitter:tolerance:alldata  
Item ..._DURATION ("Test Duration ...")  
(No commands found)  
=====
```

26.

```
----P_TEST_JITTER_POINTER_PARAM1----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Sequence Type (G.783) ..... a) Single Alternating
```

No Data

Filter	Measured Jitter	Max Allowed (G.783)
Wideband		
Highband		

(Go to Transmit POINTERS & TIMING to setup sequence)
Press START/STOP to Begin Jitter Transfer Test

```
-----  
Item ..._TYPE ("Test Type ...")  
:sense:data:telecom:test:jitter:type  
Item ..._CONTROL ("Test Control ...")  
:sense:data:telecom:test:jitter:tolerance:alldata  
Item SENSE_DATA_TEST_JITTER_POINTER_SEQUENCE_TYPE ("Sequence Type (G.783) ...")  
:sense:data:telecom:test:jitter:pointer:sequence:type  
=====
```

27.

```
----P_TEST_JITTER_RECALL_RESULTS----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Choose Test ..... Select Action
```

Disk	Description
------	-------------

<

```
-----  
Item TEST_SETUP_JITTER_RECALL_RESULTS_TYPE ("Test Type ...")  
:sense:data:telecom:test:jitter:type  
Item TEST_SETUP_JITTER_RECALL_RESULTS ("Test Control ...")  
:sense:data:telecom:test:jitter:tolerance:alldata  
Item TEST_JITTER_CHOOSE_TEST ("Choose Test ...")  
(No commands found)  
Item JITTER_RESULTS0_FILENAME  
(No commands found)  
Item JITTER_RESULTS1_FILENAME  
(No commands found)  
Item JITTER_RESULTS2_FILENAME  
(No commands found)  
Item JITTER_RESULTS3_FILENAME  
(No commands found)  
Item JITTER_RESULTS4_FILENAME  
(No commands found)  
Item JITTER_RESULTS5_FILENAME  
(No commands found)  
=====
```


28.

```
----P_TEST_JITTER_SAVE_RESULTS----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
File Name .....  
Description .....  
Disk Operation ..... Select Action
```

```
-----  
Item TEST_SETUP_JITTER_SAVE_RESULTS_TYPE ("Test Type ...")  
  :sense:data:telecom:test:jitter:type  
Item TEST_SETUP_JITTER_SAVE_RESULTS ("Test Control ...")  
  :sense:data:telecom:test:jitter:tolerance:alldata  
Item TEST_JITTER_SAVE_RESULTS_NAME ("File Name ...")  
  (No commands found)  
Item TEST_JITTER_SAVE_RESULTS_DESCRIPTION ("Description ...")  
  (No commands found)  
Item TEST_JITTER_SAVE_RESULTS_DISK ("Disk Operation ...")  
  (No commands found)  
=====
```

29.

```
----P_TEST_JITTER_SPECTRUM_PARAM1----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Frequency Range ..... Spectral 0.1Hz - 1kHz
```

Press START/STOP to Begin Jitter Transfer Test

```
-----  
Item ..._TYPE ("Test Type ...")  
:sense:data:telecom:test:jitter:type  
Item ..._CONTROL ("Test Control ...")  
:sense:data:telecom:test:jitter:tolerance:alldata  
Item SENSE_DATA_TEST_JITTER_SPECTRUM_RANGE ("Frequency Range ...")  
(No commands found)  
=====
```

30.

```
----P_TEST_JITTER_TOLERANCE_PARAM1----
Test Type ..... Output Jitter
Test Control ..... Edit Setup
Mask Type ..... G.825
Start Frequency ..... <nbr>
End Frequency ..... <nbr>
Number Freq Samples ..... <nbr>
Tolerance Criteria ..... Onset Of Errors Method
Record Error Threshold ..... SELECT ACTION
  Recommended BER (0.171)      ><nbr>
  Current BER (Threshold)      <nbr>          In Progress...
```

Press START/STOP to Begin Jitter Transfer Test

```
-----
Item SENSE_DATA_TEST_JITTER_TYPE ("Test Type ...")
  :sense:data:telecom:test:jitter:type
Item SENSE_DATA_TEST_JITTER_CONTROL ("Test Control ...")
  :sense:data:telecom:test:jitter:tolerance:alldata
Item SENSE_DATA_TEST_JITTER_TOLERANCE_MASK ("Mask Type ...")
  :sense:data:telecom:test:jitter:tolerance:mask
Item SENSE_DATA_TEST_JITTER_TOLERANCE_FREQUENCY_START ("Start Frequency ...")
  (No commands found)
Item SENSE_DATA_TEST_JITTER_TOLERANCE_FREQUENCY_END ("End Frequency ...")
  (No commands found)
Item SENSE_DATA_TEST_JITTER_TOLERANCE_SAMPLES ("Number Freq Samples ...")
  (No commands found)
Item SENSE_DATA_TEST_JITTER_TOLERANCE_METHOD ("Tolerance Criteria ...")
  :sense:data:telecom:test:jitter:tolerance:method
Item SENSE_DATA_TEST_JITTER_TOLERANCE_MEASURE ("Record Error Threshold ...")
  :sense:data:telecom:test:jitter:tolerance:measure
=====
```

31.

```
----P_TEST_JITTER_TRANSFER_PARAM1----
Test Type ..... Output Jitter
Test Control ..... Edit Setup
Mask Type ..... GR-253
Start Frequency ..... <nbr>
End Frequency ..... <nbr>
Number Freq Samples ..... <nbr>
Action ..... Perform Jitter Transfer
```

The calibration is performed to establish a 0dB amplitude reference trace of the CTS (using an internal loopback).

Calibration Status: Unsupported Settings

 Press START/STOP to Begin Jitter Transfer Test

```
-----
Item ..._TYPE ("Test Type ...")
:sense:data:telecom:test:jitter:type
Item ..._CONTROL ("Test Control ...")
:sense:data:telecom:test:jitter:tolerance:alldata
Item SENSE_DATA_TEST_JITTER_TRANSFER_MASK ("Mask Type ...")
:sense:data:telecom:test:jitter:transfer:mask
Item SENSE_DATA_TEST_JITTER_TRANSFER_FREQUENCY_START ("Start Frequency ...")
(No commands found)
Item SENSE_DATA_TEST_JITTER_TRANSFER_FREQUENCY_END ("End Frequency ...")
(No commands found)
Item SENSE_DATA_TEST_JITTER_TRANSFER_SAMPLES ("Number Freq Samples ...")
(No commands found)
Item SENSE_DATA_TEST_JITTER_TRANSFER_STATE ("Action ...")
:sense:data:telecom:test:jitter:transfer:state
=====
```

32.

----P_TEST_SETUP_RECALL_INSTRUMENT_SETUPS_PARAM1----

Memory	Description
0. DEFAULT	FACTORY SETTINGS
1. EMPTY	
2. EMPTY	
3. EMPTY	
4. EMPTY	
5. EMPTY	

Disk	Description
------	-------------

<

```
-----  
Item INSTRUMENT_SETUP0_NAME ("0.")  
  (No commands found)  
Item INSTRUMENT_SETUP1_NAME ("1.")  
  (No commands found)  
Item INSTRUMENT_SETUP2_NAME ("2.")  
  (No commands found)  
Item INSTRUMENT_SETUP3_NAME ("3.")  
  (No commands found)  
Item INSTRUMENT_SETUP4_NAME ("4.")  
  (No commands found)  
Item INSTRUMENT_SETUP5_NAME ("5.")  
  (No commands found)  
=====
```

33.

----P_TEST_SETUP_RECALL_PASS_FAIL_TESTS_PARAM1----
Disk Description

<

Item PASS_FAIL_TEST0_NAME
(No commands found)
Item PASS_FAIL_TEST1_NAME
(No commands found)
Item PASS_FAIL_TEST2_NAME
(No commands found)
Item PASS_FAIL_TEST3_NAME
(No commands found)
Item PASS_FAIL_TEST4_NAME
(No commands found)
Item PASS_FAIL_TEST5_NAME
(No commands found)
Item PASS_FAIL_TEST6_NAME
(No commands found)
Item PASS_FAIL_TEST7_NAME
(No commands found)
Item PASS_FAIL_TEST8_NAME
(No commands found)
Item PASS_FAIL_TEST9_NAME
(No commands found)
Item PASS_FAIL_TEST10_NAME
(No commands found)
Item PASS_FAIL_TEST11_NAME
(No commands found)
Item PASS_FAIL_TEST12_NAME
(No commands found)
=====

34.

----P_TEST_SETUP_SAVE_INSTRUMENT_SETUPS_PARAM1----
Set up the instrument as required. Then fill out the
parameters below and save to disk or memory.

Name
Description

Save to Memory Select Action
Save to Disk Select Action

Item ..._NAME ("Name ...")
(No commands found)
Item SYSTEM_DESCRIPTION ("Description ...")
(No commands found)
Item ..._SAVE_MEM ("\012 Save to Memory ...")
(No commands found)
Item ..._SAVE_DISK ("\011 Save to Disk ...")
(No commands found)
=====

35.

----P_TEST_SETUP_SAVE_PASS_FAIL_TESTS_PARAM1----
Set up the instrument as required. Then fill out the parameters below and save your test to disk.

Name
Description
Operator Start Prompt
Test Duration
 <var> <var> <nbr>
 <var> <var> <nbr>
Fail If
 <var> <var> <nbr>
 <var> <var> <nbr>
Operator End Prompt
On Test Completion Do Nothing
Save to Disk Select Action

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_NAME ("Name ...")
 (No commands found)
Item SENSE_DATA_MEASURE_STESTS_DESCRIPTION ("Description ...")
 (No commands found)
Item SENSE_DATA_MEASURE_STESTS_START_PROMPT ("Operator Start Prompt ...")
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_DURATION ("Test Duration ...")
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS1
 :sense:data:telecom:measure:stests:threshold
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE1
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD1
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS2
 :sense:data:telecom:measure:stests:threshold
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE2
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD2
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS3
 :sense:data:telecom:measure:stests:threshold
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE3
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD3
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS4
 :sense:data:telecom:measure:stests:threshold
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE4
 (No commands found)
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD4
 (No commands found)
Item SENSE_DATA_MEASURE_STESTS_END_PROMPT ("Operator End Prompt ...")
 (No commands found)
Item SENSE_DATA_MEASURE_STESTS_ON_COMPLETE ("On Test Completion ...")
 :sense:data:telecom:measure:stests:done
Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_DISK_ACTION ("\\011 Save to Disk ...")
 (No commands found)
=====

36.

```
----P_TEST_SETUP_TEST_CONTROL_PARAM1----  
Test Duration .....  
History Resolution ..... Normal (1 min samples)
```

At 1 minute resolution the maximum history length is at least 5 days. Upon reaching the 5 day limit new data will begin overwriting the old data.

```
-----  
Item UTILITY_TEST_DURATION ("Test Duration ...")  
  (No commands found)  
Item ..._HIST_RES ("History Resolution ...")  
  :sense:data:telecom:test:history:resolution  
=====
```

37.

----P_TRACE_SETTINGS_PARAM1----

Trace Select ... RS Trace (J0) Measurement: Disabled

Expected

Rx

Tx

Item OVERHEAD_TEST_SELECT_TRACE ("Trace Select ...")
(No commands found)
Item OVERHEAD_TEST_EXPECTED_TRACE_1
(No commands found)
=====

38.

```
----P_TX_APS_COMMANDS_PARAM1----
APS Mode ..... Span Network
USER SETUP TRANSMIT RECEIVE
K1 Full Byte ..... <nbr> <nbr> <nbr>
Bits 1-4: Switch Request ... ? ? ?
Bits 5-8: Channel Requesting ? ? ?
K2 Full Byte ..... <nbr> <nbr> <nbr>
Bits 1-4: Bridged Channel .. ? ? ?
Bit 5: Architecture ..... ? ? ?
Bits 6-8: Status ..... ? ? ?

Transmit Setup ..... Select Action
```

```
-----
Item SOURCE_DATA_APS_MODE ("APS Mode ...")
(No commands found)
Item TX_APS_K1_BYTE ("K1 Full Byte ...")
(No commands found)
Item TX_APS_K1_BITS_1_4 ("Bits 1-4: Switch Request ...")
(No commands found)
Item TX_APS_K1_BITS_5_8 ("Bits 5-8: Channel Requesting ...")
(No commands found)
Item TX_APS_K2_BYTE ("K2 Full Byte ...")
(No commands found)
Item TX_APS_K2_BITS_1_4 ("Bits 1-4: Bridged Channel ...")
(No commands found)
Item TX_APS_K2_BIT_5 ("Bit 5: Architecture ...")
(No commands found)
Item TX_APS_K2_BITS_6_8 ("Bits 6-8: Status ...")
(No commands found)
Item TX_APS_TRANSMIT_SETUP ("Transmit Setup ...")
(No commands found)
=====
```

39.

```
----P_TX_ERRORS_ALARMS_PARAM1----
Error Type set to ..... Section B1 BIP
Frame Bit Error Burst ..... <nbr> Error in <nbr> Frames
PDH Anomaly Layer ..... 140 Mb/s <var>

Transmit Alarm set to ..... None
PDH Alarm Layer ..... 140 Mb/s <var>

Transmit Failure set to .... None
PDH Failure Layer ..... 140 Mb/s <var>
Press INSERT ERROR to insert a single error
into the transmitted signal.
```

```
-----
Item ..._TYPE ("Error Type set to ...")
:source:data:telecom:error:enable
:source:data:telecom:error:type
:source:data:telecom:tributary:error
Item ..._RATE ("Error Rate set to ...")
:source:data:telecom:error:enable
Item ..._FAS_BURST_COUNT ("Error Rate set to ...")
(No commands found)
Item ..._FAS_BURST_SIZE ("Error in")
(No commands found)
Item ..._ERROR_LAYER ("PDH Anomaly Layer ...")
:source:data:telecom:tributary:anomaly:layer
Item ..._ALARM ("Transmit Alarm set to ...")
:source:data:telecom:alarm
:source:data:telecom:tributary:alarm
Item ..._ALARM_LAYER ("PDH Alarm Layer ...")
:source:data:telecom:tributary:defect:layer
Item ..._FAILURE ("Transmit Failure set to ...")
:source:data:telecom:failure:type
:source:data:telecom:tributary:failure
Item ..._FAILURE_LAYER ("PDH Failure Layer ...")
:source:data:telecom:tributary:fault:layer
=====
```

40.

```
----P_TX_JITTER_PARAM1----  
Jitter/Wander Generation ... Off  
Jitter Output ..... Line  
Jitter Clock Rate ..... 52MHz (STM-0)  
Jitter Clock Offset ..... <nbr>  
Jitter Frequency ..... <nbr>  
Jitter Amplitude ..... <nbr>
```

```
For Jitter Generation Set Jitter Frequency > 10 Hz  
For Wander Generation Set Jitter Frequency < 10 Hz
```

```
-----  
Item TX_JITTER_MODE ("Jitter/Wander Generation ...")  
:source:data:telecom:jitter:mode  
Item TX_JITTER_SOURCE ("Jitter Output ...")  
:source:data:telecom:jitter:source  
Item TX_JITTER_CLOCK_RATE ("Jitter Clock Rate ...")  
:source:data:telecom:jitter:clock:rate  
Item TX_JITTER_CLOCK_OFFSET ("Jitter Clock Offset ...")  
(No commands found)  
Item TX_JITTER_FREQUENCY ("Jitter Frequency ...")  
:diagnostic:select  
:sense:data:telecom:jitter:filter:highband  
:sense:data:telecom:jitter:filter:type  
Item TX_JITTER_AMPLITUDE ("Jitter Amplitude ...")  
(No commands found)  
=====
```

41.

```
-----P_TX_PATH_OVERHEAD_PARAM1-----
Transmitting      <var>          STS-1 :   1   under test
Overhead View ..... STS Path Overhead
External Add ..... None
C2 Signal Label ..... <var>
H4 Multiframe Sequence ..... 4 Bytes

      Path Overhead          Path Trace Message
J1: <nbr>          <bmp>
B3: <nbr>
C2: <nbr>
G1:
F2: <nbr>
H4: <nbr>
Z3: <nbr>
Z4: <nbr>
Z5: <nbr>
-----
Item ..._DISPLAY ("Overhead View ...")
      (No commands found)
Item ..._EXTERNAL_ADD ("External Add ...")
      :source:data:telecom:overhead:insert
      :source:data:telecom:poverhead:insert
Item TX_PATH_C2_OVERHEAD_LABEL ("C2 Signal Label ...")
      (No commands found)
Item TX_PATH_OVERHEAD_H4_SEQUENCE ("H4 Multiframe Sequence ...")
      (No commands found)
Item SOURCE_DATA_POVERHEAD_BYTENAME_J1
      :source:data:telecom:overhead:preset
      :source:data:telecom:poverhead:preset
Item SOURCE_DATA_POVERHEAD_BYTENAME_B3
      (No commands found)
Item SOURCE_DATA_POVERHEAD_BYTENAME_C2
      :source:data:telecom:overhead:preset
      :source:data:telecom:poverhead:preset
Item SOURCE_DATA_POVERHEAD_BYTENAME_G1 ("\\014\\014\\014\\014")
      (No commands found)
Item SOURCE_DATA_POVERHEAD_BYTENAME_F2
      :source:data:telecom:overhead:preset
      :source:data:telecom:poverhead:preset
Item SOURCE_DATA_POVERHEAD_BYTENAME_H4
      (No commands found)
Item SOURCE_DATA_POVERHEAD_BYTENAME_Z3
      :source:data:telecom:overhead:preset
      :source:data:telecom:poverhead:preset
Item SOURCE_DATA_POVERHEAD_BYTENAME_Z4
      :source:data:telecom:overhead:preset
      :source:data:telecom:poverhead:preset
Item SOURCE_DATA_POVERHEAD_BYTENAME_Z5
      :source:data:telecom:overhead:preset
      :source:data:telecom:poverhead:preset
=====
```

42.

```
----P_TX_PATH_OVERHEAD_V5_PARAM1----  
Transmitting <var> STS-1 : 1 under test  
Overhead View ..... STS Path Overhead
```

V5:

```
-----  
Item TX_PATH_OVERHEAD_SELECT_V5  
  (No commands found)  
Item TX_PATH_OVERHEAD_TRIB_VT_SIG_LABEL ("\014\014\014\014")  
  (No commands found)  
=====
```

43.

```
----P_TX_PATH_OVERHEAD_VC12_PARAM1----  
Transmitting <var> STS-1 : 1 under test  
Overhead View ..... STS Path Overhead
```

```
V5 Signal Label ..... <var>  
  
      Path Overhead          Path Trace Message  
V5:                                       
J2: <nbr>          <bmp>      TEK CTS850  
N2: <nbr>  
K4: <nbr>
```

```
-----  
Item TX_PATH_OVERHEAD_SELECT_VC12  
      (No commands found)  
Item ..._V5 ("V5 Signal Label ...")  
      (No commands found)  
Item TX_PATH_OVERHEAD_TRIB_TU12_SIG_LABEL  
      (No commands found)  
Item TX_PATH_OVERHEAD_TRIB_VALUE_J2  
      (No commands found)  
Item TX_PATH_OVERHEAD_TRIB_VALUE_Z6  
      :source:data:telecom:overhead:preset  
      :source:data:telecom:poverhead:preset  
Item TX_PATH_OVERHEAD_TRIB_VALUE_Z7  
      :source:data:telecom:overhead:preset  
      :source:data:telecom:poverhead:preset  
=====
```


44.

----P_TX_PATH_OVERHEAD_VC3_PARAM1----

Transmitting <var> STS-1 : 1 under test
Overhead View STS Path Overhead

C2 Signal Label <var>
H4 Multiframe Sequence 4 Bytes

	Path Overhead	Path Trace Message
J1:	<nbr> <bmp	
B3:	<nbr>	
C2:	<nbr>	
G1:		
F2:	<nbr>	
H4:	<nbr>	
Z3:	<nbr>	
Z4:	<nbr>	
Z5:	<nbr>	

Item TX_PATH_OVERHEAD_SELECT_VC3 ("Overhead View ...")
(No commands found)
Item ..._C2 ("C2 Signal Label ...")
(No commands found)
Item ..._H4 ("H4 Multiframe Sequence ...")
(No commands found)
Item TX_PATH_OVERHEAD_TRIB_VALUE_J1
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item TX_PATH_OVERHEAD_TRIB_VALUE_C2
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item TX_PATH_OVERHEAD_TRIB_VALUE_G1 ("\014\014\014\014")
(No commands found)
Item TX_PATH_OVERHEAD_TRIB_VALUE_F2
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item TX_PATH_OVERHEAD_TRIB_VALUE_H4
(No commands found)
Item TX_PATH_OVERHEAD_TRIB_VALUE_Z3
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item TX_PATH_OVERHEAD_TRIB_VALUE_Z4
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item TX_PATH_OVERHEAD_TRIB_VALUE_Z5
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
=====

45.

```
----P_TX_POINTERS_TIMING_FREQUENCY_PARAM1----  
Pointer / Timing Mode ..... Pointer Movements  
Offset Mode ..... Offset Line (Payload fixed)  
Frequency Offset ..... <nbr>
```

Press POINTER ACTION for a single movement. <nbr>
It will alternate between increment and decrement.

```
-----  
Item TX_POINTERS_TIMING_MODE_FO ("Pointer / Timing Mode ...")  
:source:data:telecom:pointer:mode  
Item SOURCE_CLOCK_OFFSET_MODE ("Offset Mode ...")  
:source:clock:offset:mode  
Item TX_POINTERS_TIMING_OFFSET ("Frequency Offset ...")  
(No commands found)  
=====
```

46.

```
----P_TX_POINTERS_TIMING_PARAM1----  
Pointer / Timing Mode ..... Pointer Movements  
Pointer Type ..... STS Pointer  
Pointer Control ..... Set Value  
Pointer Rate ..... <nbr>  
Pointer Direction ..... Increment  
Pointer ss-Bits ..... 00
```

Press POINTER ACTION for a single movement. <nbr>
It will alternate between increment and decrement.

```
-----  
Item TX_POINTERS_TIMING_MODE ("Pointer / Timing Mode ...")  
:source:data:telecom:pointer:mode  
Item TX_POINTERS_TIMING_TYPE ("Pointer Type ...")  
(No commands found)  
Item TX_POINTERS_TIMING_CONTROL ("Pointer Control ...")  
:source:data:telecom:pointer:mode  
:source:data:telecom:tributary:pointer:mode  
Item TX_POINTERS_TIMING_NBURST ("Pointer Rate ...")  
(No commands found)  
Item TX_POINTERS_TIMING_MOVEMENT_VALUE ("Pointer Rate ...")  
(No commands found)  
Item TX_POINTERS_TIMING_MOVEMENT_NDF ("Pointer Direction ...")  
:source:data:telecom:pointer:ndflag  
:source:data:telecom:tributary:pointer:ndflag  
Item TX_POINTERS_TIMING_MOVEMENT_SBITS ("Pointer ss-Bits ...")  
(No commands found)  
Item TX_POINTERS_TIMING_POINTER_RATE ("Pointer Rate ...")  
(No commands found)  
Item TX_POINTERS_TIMING_DIRECTION ("Pointer Direction ...")  
:source:data:telecom:pointer:direction  
:source:data:telecom:tributary:pointer:direction  
=====
```

47.

```
----P_TX_POINTERS_TIMING_SEQUENCE_PARAM1----
Pointer / Timing Mode ..... Pointer Movements
Pointer Type ..... STS Pointer
Sequence Type (G.783)..... a) Single Alternating
Pointer Direction ..... Increment
Pointer Rate ..... <nbr>
Initialization Time .....
Cool Down Time .....
Tributary Mapping Offset ... <nbr>
Status: Current State: Not Running
       Time Between Anomalies: <nbr>
       Time Until Next Anomaly: <nbr>
```

Press POINTER ACTION to START Pointer Sequences

```
-----
Item TX_POINTERS_TIMING_MODE_PS ("Pointer / Timing Mode ...")
  :source:data:telecom:pointer:mode
Item TX_POINTERS_TIMING_TYPE_PS ("Pointer Type ...")
  (No commands found)
Item SOURCE_DATA_POINTER_SEQUENCE_TYPE ("Sequence Type (G.783)...")
  :source:data:telecom:pointer:sequence:type
  :source:data:telecom:tributary:pointer:sequence:type
Item SOURCE_DATA_TRIBUTARY_POINTER_SEQUENCE_TYPE ("Sequence Type (G.783)...")
  :source:data:telecom:pointer:sequence:type
  :source:data:telecom:tributary:pointer:sequence:type
Item SOURCE_DATA_POINTER_SEQUENCE_DIRECTION ("Pointer Direction ...")
  (No commands found)
Item SOURCE_DATA_TRIBUTARY_POINTER_SEQUENCE_DIRECTION ("Pointer Direction ...")
  (No commands found)
Item TX_POINTERS_TIMING_SEQUENCE_RATE ("Pointer Rate ...")
  (No commands found)
Item TX_POINTERS_TIMING_SEQUENCE_IPERIOD_READOUT ("Initialization Time ...")
  (No commands found)
Item TX_POINTERS_TIMING_TRIBUTARY_SEQUENCE_IPERIOD_READOUT ("Initialization Time
...")
  (No commands found)
Item TX_POINTERS_TIMING_SEQUENCE_CPERIOD_READOUT ("Cool Down Time ...")
  (No commands found)
Item TX_POINTERS_TIMING_TRIBUTARY_SEQUENCE_CPERIOD_READOUT ("Cool Down Time ...")
  (No commands found)
Item TX_POINTERS_TIMING_SEQUENCE_MAPPING_OFFSET ("Tributary Mapping Offset ...")
  (No commands found)
=====
```

48.

```
----P_TX_SDH_K64_SETTINGS_PARAM1----
2 Mb/s Framing..... Framed
Configuration..... N x 64k
Number of Timeslots..... <nbr>
Starting Timeslot..... <nbr>
Test Pattern..... <nbr>2^23-1      Normal (ITU)
```

Active Timeslots

```
<< < << < << < < << < << < < << < < << << < < <
  1      5      10      15      20      25      30 < <
```

```
-----
Item ..._FRAMING ("2 Mb/s Framing...")
  :input2:telecom:terminator
  :source:data:telecom:tributary:add
  :source:data:telecom:tributary:framing
Item ..._CONFIGURATION ("Configuration...")
  (No commands found)
Item ..._WIDTH ("Number of Timeslots...")
  (No commands found)
Item ..._TIMESLOT ("Starting Timeslot...")
  (No commands found)
Item ..._TEST_PATTERN ("Test Pattern...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._TEST_PATTERN_POLARITY ("Test Pattern...")
  :source:data:telecom:payload:prbs:invert
Item ..._UBYTE ("Test Pattern...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
=====
```

49.

```
----P_TX_SDH_SETTINGS_PARAM1----
Transmit Rate ..... STM-4          Optical
Transmit Clock ..... Internal
AU Under Test ..... ligh
SDH Structure ..... AU-4 Bulk
TU Under Test ..... :1 (Group 1, TUG-2:1   TU-12:1
  TU Background Fill ..... Idle (11010101)
Payload Structure ..... 140 Mb/suipped)Framed
Add Signal Type & Level .... HDB3>2^23-1   Normal (X-C)TU)
  34Mb/s Active Channel..... 1      Background  2^15-1
  8Mb/s Active Channel..... 1      Background  2^15-1
  2Mb/s Active Channel..... 1      Background  2^15-1
Tx/Rx Setup ..... Independent
```

```
-----
Item ..._RATE ("Transmit Rate ...")
  :output1:telecom:rate
  :output3:telecom:rate
  :source:data:telecom:source
Item ..._QUALIFIER ("Transmit Rate ...")
  :output1:telecom:type
Item ..._CLOCK ("Transmit Clock ...")
  :source:clock:source
Item ..._LEVEL ("Transmit Level ...")
  :output1:telecom:level
Item ..._AU ("Transmit Level ...")
  (No commands found)
Item ..._STRUCTURE ("SDH Structure ...")
  :source:data:telecom:payload:mapping
  :source:data:telecom:structure
  :source:data:telecom:tributary:mapping
Item ..._TU_GROUP ("TU Under Test ...")
  (No commands found)
Item ..._TU2 ("TU Under Test ...")
  (No commands found)
Item ..._TU12 ("TU Under Test ...")
  (No commands found)
Item ..._TU_FILL_PATTERN ("TU Background Fill ...")
  :source:data:telecom:tributary:background:pattern
Item ..._BULK_PAYLOAD ("Payload Structure ...")
  :source:data:telecom:payload:mapping
Item ..._TU_PAYLOAD ("Payload Structure ...")
  :source:data:telecom:tributary:payload
Item ..._TU_PAYLOAD_FRAMING ("      ")
  :input2:telecom:terminator
  :source:data:telecom:tributary:add
  :source:data:telecom:tributary:framing
Item ..._TEST_PATTERN ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")
  :source:data:telecom:payload:prbs:invert
Item ..._UBYTE ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._EXTADD_TYPE ("Test Pattern ...")
  :input2:telecom:code
  :input2:telecom:terminator
  :input3:telecom:code
Item ..._EXTADD_LEVEL ("Test Pattern ...")
  :input2:telecom:level
  :input3:telecom:level
```

```
Item ..._M34_CHANNEL ("34Mb/s Active Channel...")
  :source:data:telecom:tributary:mux34:channel
Item ..._M34_FILL_PATTERN ("Background")
  :source:data:telecom:tributary:mux34:background:pattern
Item ..._M8_CHANNEL ("8Mb/s Active Channel...")
  :source:data:telecom:tributary:mux8:channel
Item ..._M8_FILL_PATTERN ("Background")
  :source:data:telecom:tributary:mux8:background:pattern
Item ..._M2_CHANNEL ("2Mb/s Active Channel...")
  :source:data:telecom:tributary:mux2:channel
Item ..._M2_FILL_PATTERN ("Background")
  :source:data:telecom:tributary:mux2:background:pattern
Item ..._COUPLING ("Tx/Rx Setup ...")
  :instrument:coupling
  :source:data:telecom:source
=====
```

50.

```
----P_TX_SDH_SETTINGS_TRIB_PARAM1----
Transmit Rate ..... STM-4          Balanced
Transmit Clock ..... Internal
Line Clock Offset ..... <nbr>
SDH Output ..... Disabled          Optical
Transmit Level ..... 0 dB

Payload Structure ..... 140 Mb/      Framed
Add Signal Type & Level .... HDB3>2^23-1  Normal (X-C)TU)
  34Mb/s Active Channel..... 1      Background  2^15-1
  8Mb/s Active Channel..... 1      Background  2^15-1
  2Mb/s Active Channel..... 1      Background  2^15-1
Tx/Rx Setup ..... Independent
```

```
-----
Item ..._RATE ("Transmit Rate ...")
  :output1:telecom:rate
  :output3:telecom:rate
  :source:data:telecom:source
Item ..._QUALIFIER ("Transmit Rate ...")
  :output2:telecom:code
  :output2:telecom:terminator
  :output3:telecom:code
Item ..._CLOCK ("Transmit Clock ...")
  :source:clock:source
Item TX_SDH_SETTINGS_POINTERS_TIMING_TRIBUTARY_OFFSET ("Line Clock Offset ...")
  (No commands found)
Item ..._SDH_KEEPALIVE ("SDH Output ...")
  :output1:telecom:rate
  :source:data:telecom:output1:keepalive
Item ..._SDH_KEEPALIVE_QUALIFIER ("SDH Output ...")
  :output1:telecom:type
Item TX_TRIB_SETTINGS_SELECT_LEVEL ("Transmit Level ...")
  :output3:telecom:level
Item ..._PAYLOAD ("Payload Structure ...")
  :source:data:telecom:tributary:payload
Item ..._PAYLOAD_FRAMING ("Payload Structure ...")
  :input2:telecom:terminator
  :source:data:telecom:tributary:add
  :source:data:telecom:tributary:framing
Item ..._TEST_PATTERN ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")
  :source:data:telecom:payload:prbs:invert
Item ..._UBYTE ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._EXTADD_TYPE ("Test Pattern ...")
  :input2:telecom:code
  :input2:telecom:terminator
  :input3:telecom:code
Item ..._EXTADD_LEVEL ("Test Pattern ...")
  :input2:telecom:level
  :input3:telecom:level
Item ..._M34_CHANNEL ("34Mb/s Active Channel...")
  :source:data:telecom:tributary:mux34:channel
Item ..._M34_FILL_PATTERN ("Background")
  :source:data:telecom:tributary:mux34:background:pattern
Item ..._M8_CHANNEL ("8Mb/s Active Channel...")
  :source:data:telecom:tributary:mux8:channel
Item ..._M8_FILL_PATTERN ("Background")
```



```
      :source:data:telecom:tributary:mux8:background:pattern
Item ..._M2_CHANNEL ("2Mb/s Active Channel...")
      :source:data:telecom:tributary:mux2:channel
Item ..._M2_FILL_PATTERN ("Background")
      :source:data:telecom:tributary:mux2:background:pattern
Item ..._COUPLING ("Tx/Rx Setup ...")
      :instrument:coupling
      :source:data:telecom:source
=====
```

51.

```
----P_TX_SETTINGS_PARAM1----
Transmit Rate ..... STS-1
Transmit Clock ..... Internal
Transmit Level ..... High
Signal Structure ..... 1 x STS-1
STS Under Test ..... 1
Mapping ..... Bulk Fill (Equipped)
VT Under Test ..... :1 (Group 1, VT 1)   TU-12:1
Payload ..... DS1 External Add
Test Pattern ..... <nbr>2^23-1
Background Pattern ..... Idle (11010101)
Tx/Rx Settings ..... Independent
```

```
-----
Item ..._RATE ("Transmit Rate ...")
  :output1:telecom:rate
  :output1:telecom:type
  :output2:telecom:terminator
  :output3:telecom:rate
  :source:data:telecom:source
Item ..._CLOCK ("Transmit Clock ...")
  :source:clock:source
Item ..._LEVEL ("Transmit Level ...")
  :output1:telecom:level
Item ..._SIGNAL_STRUCTURE ("Signal Structure ...")
  :source:data:telecom:structure
Item ..._SPE ("STS Under Test ...")
  (No commands found)
Item ..._SPE_MAPPING ("Mapping ...")
  :source:data:telecom:payload:mapping
  :source:data:telecom:tributary:mapping
Item ..._VT_GROUP ("VT Under Test ...")
  (No commands found)
Item ..._TU_TU12_CHANNEL ("VT Under Test ...")
  (No commands found)
Item ..._VT_FRAMING ("Payload ...")
  :output2:telecom:terminator
  :source:data:telecom:tributary:add
  :source:data:telecom:tributary:framing
Item ..._TEST_PATTERN ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._UBYTE ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item ..._VT_BACKGROUND_PATTERN ("Background Pattern ...")
  :source:data:telecom:tributary:background:pattern
Item ..._TX_RX ("Tx/Rx Settings ...")
  :instrument:coupling
  :source:data:telecom:source
=====
```

52.

----P_TX_SETTINGS_THROUGH_MODE_PARAM1----

The test set is in Through Mode.
The transmitted signal is identical to the received
signal. Transmitter changes will have no effect
in this mode.

Tx/Rx Settings Independent

Item TX_SETTINGS_SELECT_THROUGH_MODE_TX_RX ("Tx/Rx Settings ...")
 :instrument:coupling
 :source:data:telecom:source
=====

53.

```
----P_TX_SETTINGS_TRIB_PARAM1----
Transmit Rate ..... STS-1
Transmit Clock ..... Internal
Line Clock Offset ..... <nbr>
Transmit Line Code ..... AMI

Framing ..... DS1 External Add

Test Pattern ..... <nbr>2^23-1

Tx/Rx Settings ..... Independent
```

```
-----
Item TX_SETTINGS_SELECT_TRIB_RATE ("Transmit Rate ...")
  :output1:telecom:rate
  :output1:telecom:type
  :output2:telecom:terminator
  :output3:telecom:rate
  :source:data:telecom:source
Item TX_SETTINGS_SELECT_TRIB_CLOCK ("Transmit Clock ...")
  :source:clock:source
Item TX_POINTERS_TIMING_TRIBUTARY_OFFSET ("Line Clock Offset ...")
  (No commands found)
Item TX_SETTINGS_SELECT_LINE_CODE ("Transmit Line Code ...")
  :output2:telecom:code
Item TX_SETTINGS_SELECT_TRIBUTARY_FRAMING ("Framing ...")
  :source:data:telecom:tributary:framing
Item TX_SETTINGS_SELECT_TRIB_TEST_PATTERN ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item TX_SETTINGS_SELECT_TRIB_UBYTE ("Test Pattern ...")
  :source:data:telecom:payload:pattern
  :source:data:telecom:tributary:pattern
Item TX_SETTINGS_SELECT_TRIB_TX_RX ("Tx/Rx Settings ...")
  :instrument:coupling
  :source:data:telecom:source
=====
```

54.

```
----P_TX_TRANSPORT_OVERHEAD_PARAM1----
Transmitting      <var>          STS-1 : 1  under test
Showing Overhead for ..... STS-1 :1
External Add ..... None
J0 RS Trace ..... Tek CTS 850
S1 Sync. Status Message .... Quality Unknown
  Column ?          Column ?          Column ?
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
<var <nbr>        <var <nbr>          <var <nbr>
```

```
-----
Item ..._COLUMNS_HIF
  (No commands found)
Item ..._EXTERNAL_ADD ("External Add ...")
  :source:data:telecom:overhead:insert
  :source:data:telecom:poverhead:insert
Item TX_TRANSPORT_OVERHEAD_TRACE_J0 ("J0 RS Trace ...")
  :source:data:telecom:section:trace:mode
Item TX_TRANSPORT_OVERHEAD_S1_MESSAGE ("S1 Sync. Status Message ...")
  (No commands found)
Item SOURCE_DATA_OVERHEAD_BYTENAMES_A1
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_A2
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_C1
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_B1
  (No commands found)
Item SOURCE_DATA_OVERHEAD_BYTENAMES_E1
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_F1
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_D1
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_D2
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_D3
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_H1
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_H2
  :source:data:telecom:overhead:preset
  :source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAMES_H3
  (No commands found)
Item SOURCE_DATA_OVERHEAD_BYTENAMES_B2
  (No commands found)
Item SOURCE_DATA_OVERHEAD_BYTENAMES_K1
  :source:data:telecom:overhead:preset
```

```

:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_K2
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D4
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D5
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D6
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D7
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D8
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D9
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D10
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D11
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_D12
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_Z1
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_Z2
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
Item SOURCE_DATA_OVERHEAD_BYTENAME_E2
:source:data:telecom:overhead:preset
:source:data:telecom:poverhead:preset
=====

```

55.

```
----P_UTILITY_CALIBRATION_PARAM1----
Calibration Control ..... Ready
Calibration System ..... Jitter Measurement
  Calibration Routine ..... All
STATUS
  <var>                               <var>
  Rate                                 Generator      Measurement
  STM-4 ..... Not available          <var>
  STM-1 ..... <var>                  <var>
  STM-0 ..... <var>                  <var>
  140 Mb/s ..... <var>              <var>
  34 Mb/s ..... <var>               <var>
  8 Mb/s ..... <var>                <var>
  2 Mb/s ..... <var>                <var>
```

```
-----
Item UTILITY_CALIBRATION_CONTROL ("Calibration Control ...")
  (No commands found)
Item UTILITY_CALIBRATION_SYSTEM ("Calibration System ...")
  :calibrate:select
Item UTILITY_CALIBRATION_ROUTINE ("Calibration Routine ...")
  :calibrate:select:routine
=====
```

56.

----P_UTILITY_DISK_UTILITY_PARAM1----

=====

57.

----P_UTILITY_INSTRUMENT_CONFIG_PARAM1----

Model:

Serial Number: 000000000

Hardware Revision:

Option Revision:

Firmware Revision:

Options:

Interface Module: < Not Installed >

Tributary Option: < Not Installed >

Jitter Option: < Not Installed >

Firmware Build Date:

=====

58.

```
----P_UTILITY_MISC_SETTINGS_PARAM1----  
Display Brightness ..... High  
Beeper ..... Off  
If ON, the beeper will sound when any error  
or alarm is detected in the received signal
```

```
Current Date ..... DD-MMM-YY  
Current Time ..... HH:MM:SS
```

```
Front Panel Controls ..... Enabled
```

```
Menu Selection Knob  
Direction ..... Clockwise is Down  
Action at Top/Bottom ..... Wrap Around
```

```
-----  
Item UTILITY_MISC_SETTINGS_DISPLAY_BRIGHTNESS ("Display Brightness ...")  
  (No commands found)  
Item SYSTEM_BEEP_CONTROL ("Beeper ...")  
  :system:beeper:control  
Item UTILITY_SYSTEM_DATE ("Current Date ...")  
  (No commands found)  
Item UTILITY_SYSTEM_TIME ("Current Time ...")  
  (No commands found)  
Item LOCAL_CONTROL_LOCKOUT ("Front Panel Controls ...")  
  :system:klock  
Item UTILITY_KNOB_MODE_DIRECTION ("Direction ...")  
  (No commands found)  
Item UTILITY_KNOB_MODE_BEHAVIOR ("Action at Top/Bottom ...")  
  (No commands found)  
=====
```

59.

```
----P_UTILITY_PRINTER_SETUP_PARAM1----  
Printer Type ..... Tek DPU-411  
                    (No graphical data)
```

```
RS-232:  
Baud Rate ..... 1200  
Stop Bits ..... 1  
Parity ..... None  
Flow Control ..... Hardware
```

```
Print User & Company ..... Off  
User Name .....  
Company Name .....
```

```
-----  
Item HCOPY_DEVICE_LANGUAGE ("Printer Type ...")  
:hcopy:device:language  
Item UTILITY_PRINTER_SETUP_SERIAL_BAUD ("Baud Rate ...")  
(No commands found)  
Item UTILITY_PRINTER_SETUP_SERIAL_STOP ("Stop Bits ...")  
(No commands found)  
Item UTILITY_PRINTER_SETUP_SERIAL_PARITY ("Parity ...")  
:system:communicate:serial:parity  
Item UTILITY_PRINTER_SETUP_SERIAL_HANDSHAKE ("Flow Control ...")  
:system:communicate:serial:control:rts  
:system:communicate:serial:pace  
Item UTILITY_PRINTER_SETUP_TITLE_CONTROL ("Print User & Company ...")  
:hcopy:title  
Item SYSTEM_OPERATOR ("User Name ...")  
(No commands found)  
Item SYSTEM_OWNER ("Company Name ...")  
(No commands found)  
=====
```

60.

----P_UTILITY_REMOTE_CONTROL_PARAM1----
GPIB Primary Address

RS-232:
Baud Rate 1200
Stop Bits 1
Parity None
Hardware Handshake Off
Software Handshake None
Data Carrier Detect Off
Tx Delay (Seconds) <nbr>
Tx Terminator LF

Item UTILITY_REMOTE_CONTROL_GPIB_ADDRESS ("GPIB Primary Address ...")
(No commands found)
Item SYSTEM_SERIAL_BAUD ("Baud Rate ...")
(No commands found)
Item SYSTEM_SERIAL_STOP ("Stop Bits ...")
(No commands found)
Item SYSTEM_SERIAL_PARITY ("Parity ...")
:system:communicate:serial:parity
Item SYSTEM_SERIAL_CONTROL_RTS ("Hardware Handshake ...")
:system:communicate:serial:control:rts
Item SYSTEM_SERIAL_PACE ("Software Handshake ...")
:system:communicate:serial:pace
Item SYSTEM_SERIAL_DCD ("Data Carrier Detect ...")
:system:communicate:serial:control:dcd
Item SYSTEM_COMMUNICATE_SERIAL_TX_DELAY ("Tx Delay (Seconds) ...")
(No commands found)
Item SYSTEM_SERIAL_TX_TERM ("Tx Terminator ...")
:system:communicate:serial:transmit:terminator
=====

61.

```
----P_UTILITY_SELF_TEST_PARAM1----  
Self Test Control ..... Ready  
Self Test Group ..... Power up Self Test  
  Self Test Routine ..... All  
Self Test Loop control..... Once  
View Results ..... Last Test
```

PASSED

```
-----  
Item UTILITY_SELF_TEST_CONTROL ("Self Test Control ...")  
  (No commands found)  
Item DIAG_SELECT_GROUP ("Self Test Group ...")  
  :diagnostic:select  
  :sense:data:telecom:jitter:filter:highband  
  :sense:data:telecom:jitter:filter:type  
Item DIAG_SELECT_ROUTINE ("Self Test Routine ...")  
  :diagnostic:select:routine  
Item DIAG_SELECT_ROUTINE_CPU ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_PROTOCOL ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_CLOCK ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_OE ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_DISPLAY ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_FPANEL ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_DISK ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_TRIB ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_JITTER ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_MFG_RV ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_SELECT_ROUTINE_MFG_RTC ("Self Test Routine ...")  
  (No commands found)  
Item DIAG_LOOP ("Self Test Loop control...")  
  :diagnostic:loop  
Item UTILITY_SELF_TEST_RESULTS ("View Results ...")  
  (No commands found)  
=====
```

