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CTS 850 Cross-Reference listing Remote Commands

10/23/98

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 assocaited 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).

This document file lists Remote Commands.

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** 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
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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
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========================================

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


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```
   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----
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SETTI      SETTI      OVERH      OVERH      VOICE                2 of
<bmp>      <bmp>      <bmp>      <bmp>      <bmp>                <bmp>
----------------------
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=========================================

----P_TEST_SETUP_MAJOR_MENU----
TEST       RECAL      RECAL      SAVE       SAVE       JITTE
           INSTRUMENT PASS/      INSTRUMENT PASS/
CONTR      SETUP      TESTS      SETUP      TESTS      TESTS
----------------------
Button    Page
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            **   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>
----------------------
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            46   P_TX_POINTERS_TIMING_PARAM1
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```


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```
            **   P_TX_JITTER_PARAM1_NO_OPTION
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            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
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            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>
----------------------
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   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       CONFI       TEST        CAL
<bmp>       <bmp>       <bmp>       <bmp>       <bmp>       <bmp>
----------------------
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   3.       60   P_UTILITY_REMOTE_CONTROL_PARAM1
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   5.       61   P_UTILITY_SELF_TEST_PARAM1
   6.       55   P_UTILITY_CALIBRATION_PARAM1
            **   P_UTILITY_CALIBRATION_M45_PARAM1
=========================================
```


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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
==========================================
```


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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)
==========================================
```


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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)
==========================================
```


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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)
==========================================
```


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5.

```
----P_RESULTS_ANALYSIS_SDH_M2101_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    (per G.829)            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                         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)
==========================================
```


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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)
==========================================
```


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```
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)
==========================================
```


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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
==========================================
```


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9.

```
----P_RX_CAS_VOICE_SETTINGS_PARAM1----
CAS Display Mode.............   Single
Selected Timeslot............   <nbr>
Speaker......................   Off

                                TS     abcd
CAS Bit Values...............   <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
==========================================
```


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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
==========================================
```


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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)
==========================================
```


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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
==========================================
```


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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
==========================================
```


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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
==========================================
```


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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
==========================================
```


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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
==========================================
```


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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
```


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```
    :source:data:telecom:source
==========================================
```


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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
==========================================
```


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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 1nframed
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
==========================================
```


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```
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
==========================================
```


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21.

----P_RX_SET_BYTE_TRACE_PARAM1----

==========

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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
==============================================
```


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23.

----P_RX_VIEW_BYTE_TRACE_PARAM1----

==========

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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)
==========================================
```


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25.

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

 No Data


                       Measured              Max Allowed
 Filter                Jitter                 (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)
==========================================
```


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26.

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

 No Data


                       Measured              Max Allowed
 Filter                Jitter                (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
==========================================
```


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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)
==========================================
```


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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)
==========================================
```


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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)
==========================================
```


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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 (O.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
==========================================
```


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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
==========================================
```


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```
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)
==========================================
```


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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)
==============================================
```


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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)
==========================================
```


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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)
==========================================
```


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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
==========================================
```


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```
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)
==========================================
```


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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)
==========================================
```


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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
==========================================
```


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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)
==========================================
```


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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
==========================================
```


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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)
==========================================
```


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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
==============================================
```


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```
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
==========================================
```


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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)
==========================================
```


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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
==========================================
```


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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)
==========================================
```


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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
==========================================
```


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49.

```
----P_TX_SDH_SETTINGS_PARAM1----
Transmit Rate ..............   STM-4             Optical
Transmit Clock .............   Internal
AU Under Test ..............   1igh
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
```


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```
 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
==========================================
```


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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")
```


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```
    :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
==========================================
```


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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
==========================================
```


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```
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
==========================================
```


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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
==========================================
```


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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_BYTENAME_A1
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_A2
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_C1
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_B1
    (No commands found)
 Item SOURCE_DATA_OVERHEAD_BYTENAME_E1
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_F1
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_D1
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_D2
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_D3
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_H1
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_H2
    :source:data:telecom:overhead:preset
    :source:data:telecom:poverhead:preset
 Item SOURCE_DATA_OVERHEAD_BYTENAME_H3
    (No commands found)
 Item SOURCE_DATA_OVERHEAD_BYTENAME_B2
    (No commands found)
 Item SOURCE_DATA_OVERHEAD_BYTENAME_K1
    :source:data:telecom:overhead:preset
```


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```
    :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
==============================================
```


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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
==========================================
```


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56.

----P_UTILITY_DISK_UTILITY_PARAM1----

==========

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```
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:



----------------------
==============================================
```


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```
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)
==========================================
```


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```
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)
==========================================
```


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```
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
==========================================
```


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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)
==============================================
```


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