Agilent Technologies

Agilent Advisor–3G UMTS W-CDMA Test Software J5458A

Technical Specification

J5458A Feature Summary

3G UMTS, W-CDMA RAN decodes

Iub User Plane
- AAL2/FP/MAC/RLC

Iub Control Plane
- AAL5/SSCOP/SSCF/ALCAP
- AAL5/SSCOP/SSCF/NBAP
- AAL2/FP/MAC/RLC/RRC/NAS

Iu User Plane
- AAL2/IuUP/RLP
- AAL5/IP/UDP/GTP-u

Iu Control Plane
- AAL5/SSCOP/SSCF/MTP-3b/ALCAP
- AAL5/SSCOP/SSCF/MTP-3b/SCCP/RANAP/NAS
- AAL5/SSCOP/SSCF/MTP-3b/SCCP/RNSAP
- AAL5/IP/SCTP

Technical Specifications

Standard Agilent Advisor Features

Display
- summary (single or multi line)
- detail by field
- Hex

Filters
- on addresses
- by protocol stack
- capture and trigger (stop, start, center)
- search function
- software (display) filter
- real-time (capture) filter

Errors
- CRC (with correction shown)
- fragmentation

Monitoring Features

ATM
- Summary, detailed, and hex displays
- Statistics
  - Average utilization in %
  - Instantaneous utilization in %
  - Total cells received
  - Busy(assigned) cells received
  - Header(HEC) errors
  - Line Status
  - Filters on VPI, VCI values, Errored frames, direction

AAL-2
- Summary, detailed, and hex displays
- CPS Fields decodes
- Monitoring errors
  - STF Parity errors
  - STF Sequence number errors
  - Errors in the OSF value
  - Errors in HEC
  - Length of received packet is incorrect
  - Errors in reassembly
  - Invalid value in UUI

AAL-5
- Summary, detailed, and hex displays
- Monitoring errors
  - Invalid SAR segment type
  - AAL-5 CRC-32

Below protocols are displayed by Summary, Detailed, and Hex mode.

ATM Signaling Protocols

- ALCAP	ITU-T Q.2630.1
	ITU-T Q.2150.1/2
- MTP-3b	ITU-T Q.2210
	TTC (Japan)
- SCCP	ITU-T Q.711 – 714
- SSCF	ITU-T Q.2130
	ITU-T Q.2140
- SSCOP	ITU-T Q.2110
- TCAP	ITU-T Q.771 – 774

3GPP Protocols

- FP	3GPP TS25.425
	3GPP TS25.427
	3GPP TS25.435
- MAC	3GPP TS25.421
- RLC	3GPP TS25.322
- PDCP	3GPP TS25.323
- IuUP	3GPP TS25.415
- RLP	3GPP TS24.022
- GTP-u	3GPP TS29.060
- NBAP	3GPP TS25.433
- RRC	3GPP TS25.331
- BMC	3GPP TS25.324
- RANAP	3GPP TS25.413
- RNSAP	3GPP TS25.423
- MM/CC	3GPP TS24.007
	3GPP TS24.008
- M3UA	(TBD)
- SCTP	draft IETF-SIGTRAN-SCTP-06

Other Protocols

- WAP	WAP Forum 06,2000 version
- IP	RFC791
- TCP/UDP	RFC793/768
- IIOP	CORBA v.2.3.1
- Mobile-IP	RFC2002 / 2344 / 2004 / 1701

Simulation Features

ATM Traffic Generation
- Payload data editor
- VPI/VCI value editor
- GFC value editor
- CLP selection (0 or 1)

UNI Emulation
- Call set-up procedure (ATM Forum UNI 3.0, 3.1, 4.0)

Applicable Technical Standards and Recommendations

* For detailed version support information:
see http://www.agilent.com/comms/onenetworks

Related Literature

Agilent Advisor ATM	Product Overview	5968-1437E
ATM Quality of Service	White Paper	5968-8556E
Agilent Advisor ATM/WAN	Technical Specification	5980-0786E

Warranty

Software: 90 day replacement only

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Agilent Ordering Information

J5458A Advisor 3G UMTS W-CDMA Test Software

Warranty and Support Services
Software 90 day media replacement warranty

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