

Software history

ARGUS-ISDN-tester

ARGUS 20/22

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Firmware ARGUS®20

Version 1.60 -> 1.70

Firmware-Version	WINanalyse-Version	WINplus-Version	Manual-Version
1.70	starting from 2.0.280901	starting from 2.0.280901	starting from 3.0

Compatibility to other versions

- n-connection are possible (BRI: up to 10 tests; PRI: up to 32 tests)
- three services can be free defined
- X.31 test at the B-channel for PRI

Version 1.50 -> 1.60

Firmware-Version	WINanalyse-Version	WINplus-Version	Manual-Version
1.60	starting from 2.0.060801	starting from 2.0.060801	starting from 2.0

Compatibility to other versions

- The Protocol „QSIG“ can be set.
- In the menu is a new selection “reset”. ARGUS returns to delivery status.
- The PRI termination can be set. (120 Ohm, 75 Ohm, no resistor)
- Sa5-bits can be set
- BERT can be set from 1 minute up to 99:59 hours. Is the BERT set to zero in lasts infinitely. Bit errors can be acoustically announced (menu: configuration)

Version 1.40 -> 1.50

- tie-clip-test was reworked.
- BERT over two B-channel at fixed connections possible. Switching between BERT with F6.
- X.31-L3-test: LCN selectable with “#” after number.
- The return branch from the menu „connection“ and „call“ wasn’t always correct.
- Faults at display of AUTOTEST results corrected..
- B-channel status display faults corrected.
- In every menu is as a last line a " -----"inserted; but it has no function.
- The menu “access mode“ is only assessable over the menu “access“. ESC leaves the menu to the origin menu. Thereby no parameters are changed. Going through all menus without changing anything leads to a restart of the protocol software..
- BERT over two B-channel possible even at call connections.
- “Term“ and “interchannel delay“ are now available .
- Sa6-Bits can be set and displayed.

Version 1.30 -> 1.40

- AOC-D and -E test: Functioned up to now only for charges, now also for currency.

- Nailed connection can be selected in the menu "mode". In this case you have to consider:
 - The nailed connection menu with the points "Telephony", "Bit error rate test" and "B loop" freezes.
 - If nailed connection is chosen, "connection", "start bit error rate test", "wait for bit error rate test" and "B-loop" can be chosen in the "normal" Menu structure.
 - All other tests are inhibited.
 - Under "configuration" and "clocking" you can change between "master" (NT) and "slave" (TE).
- With BRI-operation you can change in the configuration at the point "clocking" between "masters" and "slaves". This means:
 - ARGUS is USER (TE), the shift 1 time master (NT).
 - ARGUS is NET (NT), the shift 1time slave (TE).
- In NT mode PMP: Adjustable, whether L1 is supposed to be always active (Configuration).
- With 1TR6 and Alert mode = Manuel in the states "wait for Bert" and "Loop" calls were not accepted.
- Coming calls are accepted in every menu but in no function.
- After the switch-on a menu with the stored configuration is announced. These attitudes can be taken over directly, or rejected.
- Further function keys introduced:
 - F4: Running automatic test.
 - F5: To send measuring data to personal computer (no display !).
 - F8: Traces on/off.
- Implemented supplementary services DDI.
- Implemented supplementary services CCNR.
- Implemented supplementary services CW.
- ARGUS works with two TEIs: one for going and one for coming calls (important for supplementary services).
- With NT operation AOC as currency is made besides in EURO and as DSP.

CAUTION !! Charges can be announced as currency or as units, but not simultaneous! It is announced what comes at last!

- The data's of the automatic test can be looked up in the ARGUS.
- Before the start of the automatic test and the supplementary service test's you can prepare a service.
- Mistake at the supplementary service test eliminates: The mistake 162 was announced at wrong place.
- BERT-evaluation according to G.821: Displays at BERT as up to now. In the BERT-result window the G.821-evaluation can be called. Following points are announced in % then:
 - EFS: Error Free Second
 - ES: Error Second
 - SES: Severely Error Second
 - US: Unavailable Second
 - AS: Available Second
 - DM: Degraded minute

A qualitative evaluation of the G.821-dates does not occur !

- In the loop-box two combinations can be accepted now.
- The automatic test can be carried out also at the nailed connection. It is registered:
 - Bit error rate test
 - Time (Argus 10)
- A selfcall is possible. ARGUS announces in this case a coming call in the selection stage as "an intrinsic call". If the call is accepted, in the B-channel of the coming connection one LOOP is switched. If the call is refused, you return into the "selection"-window. The selection remains to exist if several terminal equipment answered the call, otherwise it results in the connection clear-down.
- With BERT G.821 an evaluation with HRX factor = 15 % is carried out .
- There is a new menu: L1-status. Here the information-signals (I0..I4) are announced. Problem during the NT simulation: It is not unambiguous to State G2 what concerns the receive signal. From that NT simulation is not possible for the moment.
- Supplementary services 3PTY and ECT introduced
- Bit pattern 2^15-1 is available
- printer option build-in
- X.31 also with L3-test
- L2 fashion (P-P or P-MP) in adjustable form for BRI-TE
- New services: "Language" and "audio 7kHz"
- "far telephone number 9" is called "X.31 number" now
- Through a trailing "#" at the end of the own telephone number will not be transferred
- At 1TR6 the services "Language" and "7 kHz audio" get mapped to "ISDN Tel" and "Tel 7kHz"

Firmware ARGUS®22

Version 1.60 -> 1.70

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Compatibility to other versions

- n-connection are possible (BRI: up to 10 tests; PRI: up to 32 tests)
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Version 1.50 -> 1.60

Firmware-Version	WINanalyse-Version	WINplus-Version	Manual-Version
1.60	starting from 2.0.060801	starting from 2.0.060801	starting from 2.0

Compatibility to other versions

- Monitor mode displays calls (service, direction, number, SUB)
- The Protocol „QSIG“ can be set.
- In the menu is a new selection “reset”. ARGUS returns to delivery status.

- The PRI termination can be set. (120 Ohm, 75 Ohm, no resistor)
- Sa5-bits can be set
- BERT can be set from 1 minute up to 99:59 hours. Is the BERT set to zero in lasts infinitely. Bit errors can be acoustically announced (menu: configuration)
- BERT in D-channel possible. Therefor a special HDLC frame is used at the S-bus. No analysis after G.821 or G.826 is used and it can only be used as an end to end test.
- In the mode P-MP can the call acceptance set to "only own MSN" . Then only these incoming calls are displayed and signalised.

Version 1.40 -> 1.50

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- X.31-L3-test: LCN selectable with "#" after number.
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