

BGAN Application Tester & BGAN Network Emulator Comparison

| Overview | BAT | BNE |
|-------------------|---|---|
| Test type | Black-box testing | White-box testing |
| Test focus | Terminal end-to-end performance behaviour End-user experience Solution behaviour validation | Terminal software validation Terminal performance validation |
| Network Emulation | Comprehensive emulation of the BGAN network | Comprehensive emulation of the BGAN network |
| Spot beam map | Pre-programmed spot beam map set | User configurable spot beam map |
| SIM-Card | Test SIM-Card required (Delivered by GateHouse) | Test SIM-Card required (Delivered by GateHouse) |

| Terminal Classes | BAT | BNE |
|----------------------|-----|-----|
| Land-Mobile | ✓ | ✓ |
| Land-Portable | ✓ | ✓ |
| Maritime | ✓ | ✓ |
| Aero | ✓ | ✓ |
| SB-SAT | | ✓ |
| Multi-channel (Aero) | ✓ | ✓ |
| Multi-user | | ✓ |

| Services | BAT | BNE |
|---|-----|-----|
| Background IP | ✓ | ✓ |
| Streaming IP | ✓ | ✓ |
| Multiple Access Points | ✓ | ✓ |
| Short Message Service (SMS) | ✓ | ✓ |
| Voice calling (loopback, file, net2000 handset) | | ✓ |
| ISDN calling (loopback, file, PPP data) | | ✓ |
| Maritime Safety Data Service | | ✓ |
| SwiftBroadband Oceanic Safety Service | | ✓ |
| Regional SAS | | ✓ |

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| Air-Interface | BAT | BNE |
|--|------------------|------------------------|
| Ciphering | ✓ | ✓ |
| Idle Data Connection (RAB) Release | ✓ | ✓ |
| Beam Activation Delay | | ✓ |
| Dynamic Beam and Coverage Gain Map | | ✓ |
| Network impairments | Realistic subset | Configurable Behaviour |
| User data plane load impairment | ✓ | ✓ |
| Forward link noise impairment | | ✓ |
| Beam & Coverage Gain pattern | | ✓ |
| Return link noise impairment emulation | | ✓ |

| User Interface | BAT | BNE |
|---------------------------------------|-----|-----|
| Graphical User Interface | ✓ | |
| Programatical configuration & control | | ✓ |

| Configurability | BAT | BNE |
|---|-----|-----|
| Configurable system broadcast information | | ✓ |
| Configurable frequency allocation | | ✓ |
| Configurable bearer tables, link condition tables | | ✓ |
| Configurable bearer type and code rate | | ✓ |
| Configurable lower layer protocol parameters | | ✓ |

| Logs & Traces | BAT | BNE |
|--|-----|-----|
| High level logging | ✓ | ✓ |
| Detailed logging | | ✓ |
| Lower layer tracing (e.g. frequency, timing) | | ✓ |

| Operation | BAT | BNE |
|-------------------|-----|-----|
| Manual testing | ✓ | ✓ |
| Automated testing | | ✓ |

More information?

If you would like more information please contact GateHouse at satcom@gatehouse.com