

NMX400/900 Firmware V1.54 Development Release Notes
15 October 1999

Mobitex modem firmware modifications for the V1.54 development release are as follows:

1. Incorporated is a message transmit hold-off time which enforces a maximum, inter-dialogue, uplink, transmit/receive duty cycle of 50%, where 'dialogue' refers to the complete sequence of communications required to successfully communicate a mobitex packet of data (MPAK) to the network. The restriction applies to externally generated, non-alert messages from the DTE application only, not ROSI protocol level solicited network traffic. This means it is impossible for the DTE application to cause the total transmit time to exceed the total receive time between the start of transmission of any two, application initiated, dialogues. The intra-dialogue transmit/receive duty cycle is dictated by the ROSI protocol and cannot be altered.

Related issues in firmware development release V1.54 are:

1. An SOS packet received from the DTE during a buffers full condition does not displace user data packets. The modem supplies a separate pool of 4 buffers for SOS packets. If all SOS buffers are depleted then no further SOS packets are accepted.
2. A MASC frame exceeding 1150 bytes is ignored by the modem.
3. ACTIVE packets generated from a buffers available condition while out of contact are not buffered by the modem.
4. Flow control messages from the modem to the DTE are not buffered during DTE link failure but a buffers full message is regenerated on link recovery.
5. Detection of higher priority SVP frames causes the modem to immediately reject the channel rather than allowing the loss of sweep synchronisation to reject the channel.
6. External battery level detection and reporting is not supported.