



## Revision History

				Description of Changes
0/25/97	R. Winstanley	T*05-02:		Initial release.
0.2	11/26/97	R. Winstanley	T*05-07:	Added Block 0x03. T*05-07:

## Overview

For some of NWT's integrated products (such as the Contact or MQnstrel), there is a desire to interleave status and configuration information with application data across the modem interface. In older NRM software loads, interleaving is not possible. Status and configuration information are communicated in command mode, and application data is communicated in one of the other modes (SLIP, PPP, TCP, UDP).

Specific design goals for the design are as follows:

- the communication model
- the Modem Status / Configuration Interface (MSCI) protocol

The content of this document represents the current understanding of the author, the current state of the NRM software, may contain some inaccuracies, and is subject to change.

## Communication Model

The communication stack to be used is shown below:

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## MSCI Protocol

A simple application protocol is proposed for communications between the MSCI Client and Server.

### *General Frame Format*



Function Code: Codes which may be used by the MSCI Client:

: **Identification**

Each protocol (or CRC) has been defined from the data link layer to ensure that the

- UDP           checksum
- IP            header checksum
- PPP           negotiated FCS

## Parameters

Specific parameters are defined in the following table. The table is organized by block ID (group of parameters).

Bloc ID	Group Description
0x00	Configurable general CDPD parameters
0x01	Configurable connectQon parameters
0x02	Configurable line parameters
0x03	Configurable general CDPD parameters (2)
0x40	Diagnostic parameters

**Block ID 0x00: Configurable General CDPD Parameters**

ParU ID	Octets	Description	(AT)\N
0x00	2SB first	Side Preference 1: A only 2: B only A: preferred B: preferred	

**Block ID 0x01: Configurable Connection Parameters**



**0x02** Remote IP Port  
LSB first 1 - 65535

(AT&Z)



(ATS51)

**Block ID 0x02: Configurable Line Parameters**

Parm ID	Octets	Description	Option	Ctrl	WI
0x00	2	LSB first	0:		

(AT\Q)

**Block ID 0x03: Configurable General CDPD Parameters (2)**

Param ID	Octets		
0x00	1	Sleep Mode	(AT#ZZ) 0: Disabled 1: Long Mode
0x01	1	Push Mode	(ATS250) 0: Disabled 1: Enabled













































