

NET 9Ø SERVICE BULLETIN  
LOOP STORAGE MODULE Ø2

Subject: NLSMØ2 FIRMWARE, REVISION B\_1, B\_Ø and A\_Ø

This service bulletin is for information only.

Implementation, if required, must be coordinated with the Regional NETWORK 9Ø Support Manager. District Service may obtain the necessary authorization from the Regional NETWORK 9Ø Support Manager.

## REVISION B\_1

Effective Date: 6-13-86  
Reference: 67Ø-NET9Ø-2Ø76

The Loop Storage Module Ø2 Firmware is upgraded to Revision B\_1.

Revision B\_Ø had the following problems:

1. The LSM always reports its node type as CIUØ2, regardless of the type specified in the SET CIU STATUS command.
2. An index established as a module status may be reported as having bad quality in the module problem report.
3. When a remote PCU is reset, only points that are connected will be reported to the host. Disconnected points will receive no indication that the bad quality condition has disappeared.

These problems have been fixed in Firmware Revision B\_1.

## REVISION B\_Ø

Effective Date: 5-8-86  
Reference: 67Ø-NET9Ø-2Ø53

Revision A\_Ø had the following problems:

1. The LSM did not report its module status to the host as an exception report.
2. Under heavily loaded conditions, the serial port to the host could lock up.
3. If a node tried to establish a route to an index that had already been established as an inport point by the host, the LSM could lock up.
4. Execution of the READ SPECS COMMAND or READ STATION SPECS command could cause the LSM to lock up.

Both of these problems have been fixed in Revision B\_0. In addition to these corrections, the following features have been added to the Loop Storage Module 02 Firmware, Revision B\_0:

1. Time synchronization of the NETWORK 90 system is now available through the LSM. This enhancement has added two new commands and required upwardly compatible changes to two existing commands.

The new commands are:

DEFINE SYSTEM NODES  
SET SYSTEM TIME AND DATE

The changed commands are:

CIU RESTART  
READ SYSTEM TIME AND DATE

2. The restriction that output points be within the first 1023 LSM indices has been lifted. The host may now use any LSM index (other than 0) as either input or output.
3. The third byte of the LSM module status contains a field that may be used by the host to define whether the LSM is being used in a CIU, an OIU, or an MCS. The SET CIU STATUS command has been altered to allow this field to be set.
4. The LSM reports node status (Online/Offline) as an exception report for nodes other than PCU's. The LSM accomplished this by reporting the node communication module's status with the "mode" field marked as "failed." (Node communication modules include LIM/BIM, LIM/PIM, LSM, GCM, and NCIU01.)

A complete description and instruction on the use of these features may be found in the "CIU PROGRAMMER'S REFERENCE MANUAL."

REVISION A\_0

Effective Date: 2-7-86  
Reference: 670-NET90-2003

This service bulletin announces the release of the Loop Storage Module 02 Firmware, Revision A\_0. It contains information regarding the functionality and installation of the NLSM02 Firmware Revision A\_0 ROMs.

The NLSM02 is designed to be used by the 5000-Tag OIU and MCS only. All other applications must use the NLSM01.