



## BULLETIN 1336-MOD-G2

USE WITH 1747-SN SERIES B AND BLOCK TRANSFER

JANUARY 7, 1999

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### PURPOSE

The purpose of this document is to provide guidelines for wiring and control schemes for Bulletin 1336 AC drives. This document is to be used as a suggestion only. Users must ensure that installations meet applicable codes and are suitable for the existing conditions.

### WHAT THIS NOTE CONTAINS

This document contains information and a simple example of an SLC ladder program to use the 1747-SN series B scanner for Block Transfer operation.

### INTENDED AUDIENCE

This application note is intended to be used by personnel familiar with the hardware components and programming procedures necessary to operate the Bulletin 1336 AC drive. It is also assumed that the user has some familiarity with the SLC, 1747-SN scanner and ladder programming.

### WHERE IT IS USED

The diagrams, parameter settings, and auxiliary hardware used in this application note are designed to address specific issues in many different applications. Some changes by the user may be necessary to apply the concepts of this document to a specific application.

### TERMS AND DEFINITIONS

**BTR** Block Transfer Read

**BTW** Block Transfer Write

**SLC** A type of Allen-Bradley programmable controller

**1747-SN** An Allen-Bradley module that provides an SLC the ability to control RIO devices

### DESCRIPTION

This ladder program uses an SLC and a 1747-SN series B RIO scanner to read or set parameters in a Bulletin 1336 AC drive via block transfer. The program will execute a BTW and then a BTR. The program can be used to read or write parameters depending on the information contained in the BTW data file.



## APPLICATION CONSIDERATIONS

The example ladder program in Figure 1 was written to be a simple and clear example of block transfer. It provides no error handling. Consult the SLC or 1747-SN scanner manual for more information.

This example is written for use with a 1336-MOD-G2 configured as a full rack located at address 0. The data table files discussed below are shown in Figure 2.

This program uses the first block transfer area in the scanner located in the first slot. The program also uses data files N10 and B3.

The length of the block transfer data file is loaded into N10:1. The rack, group, slot address for the block transfer is loaded into N10:2. In this example the rack, group, slot address is 0, 0, 0.

Bulletin 1336-MOD-G2's use full slot addressing, and must use slot 0 for block transfer control. See the 1747-SN user manual for instructions on setting up this word.

Data for the BTW is loaded starting at N10:10. In this example the program is reading parameter 5. Once the data has been loaded the block transfers are begun by setting the user enable bit B3:0/1. When the block transfers have completed the BTR data is copied into N10 starting at N10:20 and B3:0/1 is cleared by the program.

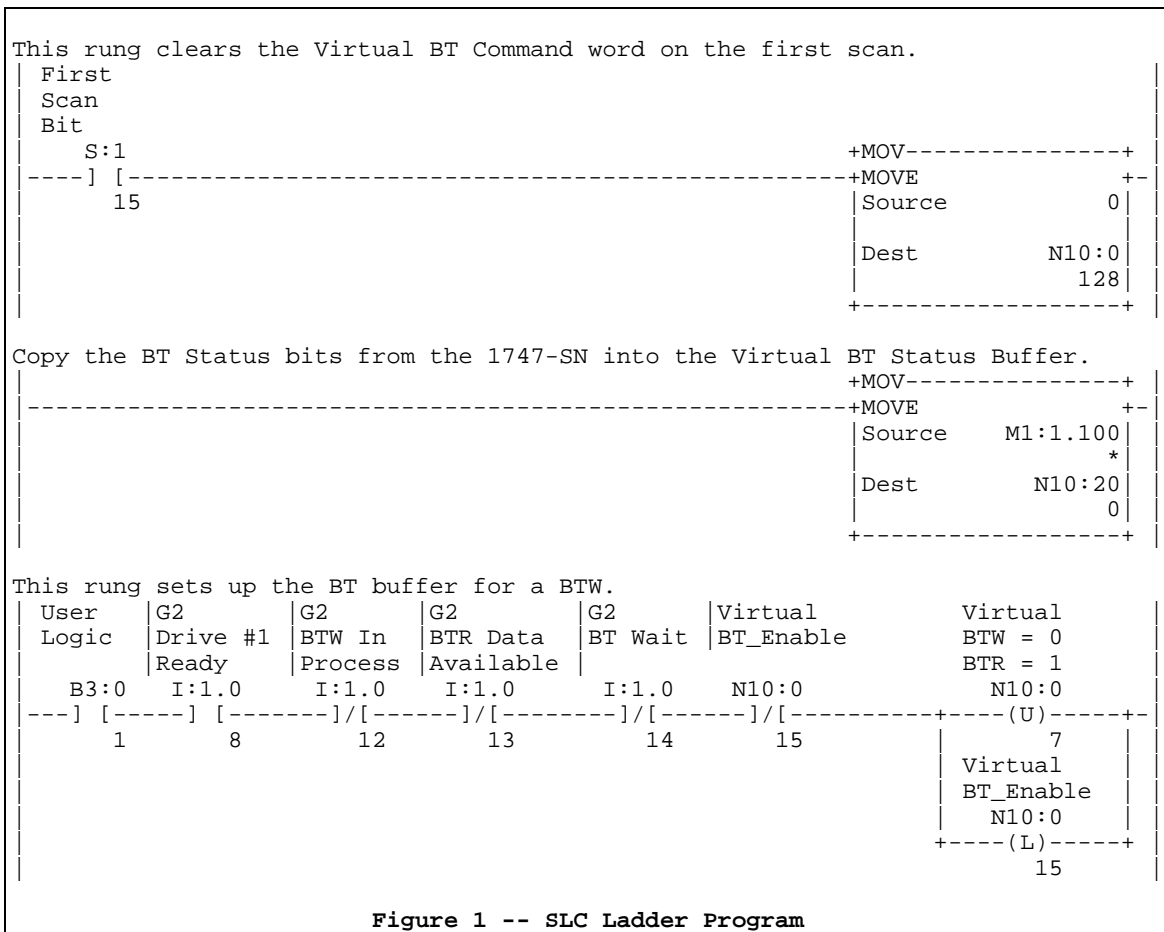


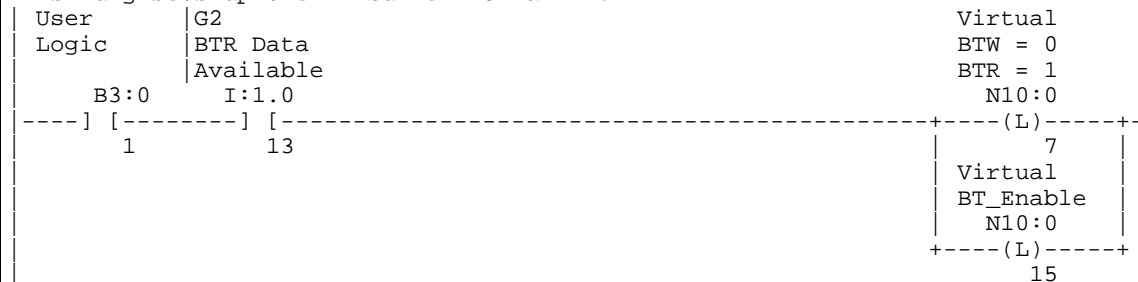
Figure 1 -- SLC Ladder Program



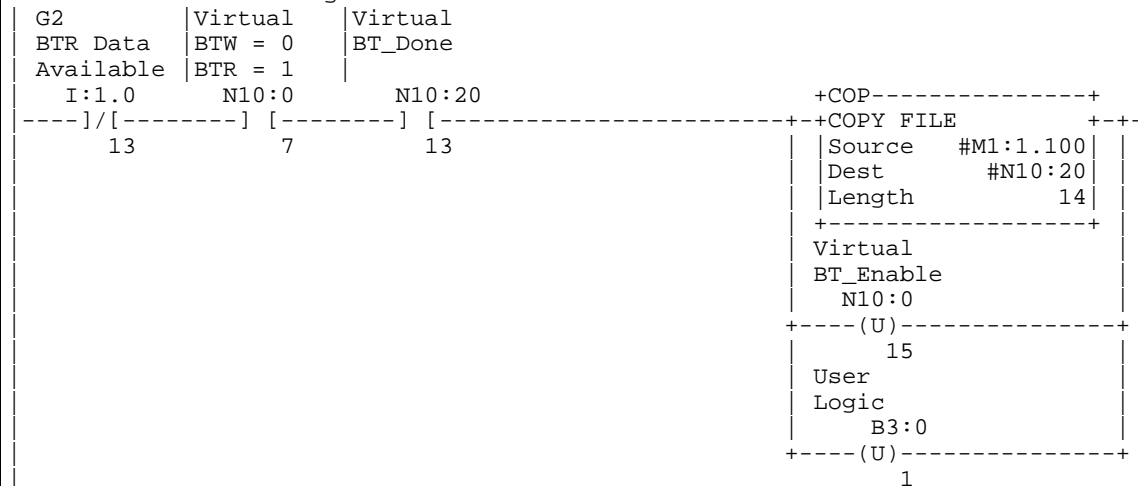
This rung turns off the Virtual BT\_Enable when a BTW has completed.



This rung sets up the BT buffer for a BTR.



This rung copies the BTR data from the 1747-SN, clears the Virtual BT\_Enable and clears the User Logic bit.



This rung copies the BT information to the 1747-SN for execution.

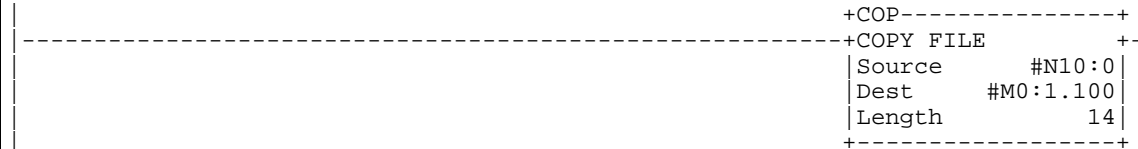


Figure 1 (continued) -- SLC Ladder Program



Address	Data (Radix=BINARY)									
B3:0	0000	0000	0000	0000						
Address	Data (Radix=DECIMAL)									
N10:0	0	4	0	0	0	0	0	0	0	0
N10:10	513	0	5	0	0	0	0	0	0	0
N10:20	0	4	0	0	0	0	0	0	0	0
N10:30	1	2	5	4	0					
M0:1	File Length:3300									
M0:2	File Length:0									
M0:3	File Length:0									
M0:4	File Length:0									
M1:1	File Length:3300									
M1:2	File Length:0									
M1:3	File Length:0									
M1:4	File Length:0									
Address	Data (Radix=HEX)									
G1:0	2020	0001	000F							

Figure 2 -- SLC Data Tables