

Subject: TCP/IP ATM Monitoring – Diebold vs. NCR

Hardware: IRIS DVS & IRIS ATM

Software: IRIS DVS

Release Date: 08/24/10

SUMMARY

The IRIS software supports monitoring of a TCPIP address for ATM transaction information. Using the IRIS Configurator program the user can select the ATM type as either Interbold (Diebold) or NCR. This technical bulletin outlines the subtle differences between the two protocols and how each of the protocols looks for an ATM transaction.

DIEBOLD ATM

When the terminal type is set for Interbold (Diebold) the IRIS DVS monitors all TCPIP packets for the following contents. If the packet indicates that an ATM transaction has occurred then the transaction information is extracted and the transaction is recorded.

TCPIP Address

The destination TCPIP address must match the monitored TCPIP address.

TCPIP Port

For IRIS DVS software versions 10.03f and earlier the TCPIP port address must be port 6767 (0x1A, 0x6F).

For IRIS DVS software versions 10.03g and later the TCPIP port address can be specified as required. The default condition is for the TCPIP port address to not be verified. If the installer desires for the port address to be verified the following parameter must be entered in the IRISNT.INI file.

[TCPIP]

Device x TCPIP Port=3a,01

where: x = the configuration channel number and “3a,01” is the port number in this example 0x3A, 0x01.

Note: If the TCPIP Port is set for 0,0 (default) then the TCPIP port will not be checked.

Data Packet Contents

The first two data bytes of the data packet are ignored, as these are sub-unit address identifiers. The third data character, location 56 (0x38) in the data packet must contain a transaction value to signify a transaction. If the device is set for EBCDIC then the transaction value is 0xF4 else the transaction value is 0x34.

Once the above conditions are met the data packet is analyzed for data as follows:

The system advances to the 5th field separator (0x1C) and then extracts the next four character positions as the transaction number. This field is defined as the camera field and normally contains the transaction number on most systems. The print field starts after the 6th field separator. The contents of the print field are saved on a line-by-line basis and analyzed as per the configurations settings set up for ATM transactions.

NCR ATM

When the terminal type is set for NCR 911 the IRIS DVS monitors all TCPIP packets for the following contents. If the packet indicates that an ATM transaction has occurred then the transaction information is extracted and the transaction is recorded.

TCPIP Address

The destination TCPIP address must match the monitored TCPIP address.

TCPIP Port

The TCPIP port is not checked or verified.

Data Packet Contents

The data packet is scanned for the first occurrence of a field separator (0x1C). The first byte value after the first field separator contains the transaction value. If the device is set for EBCDIC then the transaction value is checked for a value of 0xF4 else the transaction value is checked for a value of 0x34.

Once the above conditions are met the data packet is analyzed for data as follows:

The system advances to the 5th field separator (0x1C) and then extracts the next four character positions as the transaction number. This field is defined as the camera field and normally contains the transaction number on most systems. The print field starts after the 6th field separator. The contents of the print field are saved on a line-by-line basis and analyzed as per the configurations settings set-up for ATM transactions.

Implementation Note

Starting with DVS S/V Version 12.0.8 and later the unit can be configured to ignore or accept transaction codes other than the default codes in the ATM transaction sequence. This applies to both the Interbold and NCR 911 formats. The transaction code is normally a 0xF4 or 0x34 character in the ATM transaction data that is used to indicate a ATM transaction.

To disable the check of the transaction code, enter the following line(s) in the IRISNT.INI file for each of the monitored devices that should ignore the transaction code.

[TCPIP]

Device x Check Transaction = 0 /* Where x represents the unit number */

To change the character(s) that used to validate the transaction code enter the following line(s) in the IRISNT.INI file for each of the monitored devices that should ignore the transaction code.

[TCPIP]

Device x Valid Transaction IDS= 34,F4,F5 /* Where x represents the unit number */

You can enter one or more characters, separated by a comma. Each character is entered in hex. The character IS NOT converted for EBDIC or ASCII and should be the same character noted in the ATM data */