

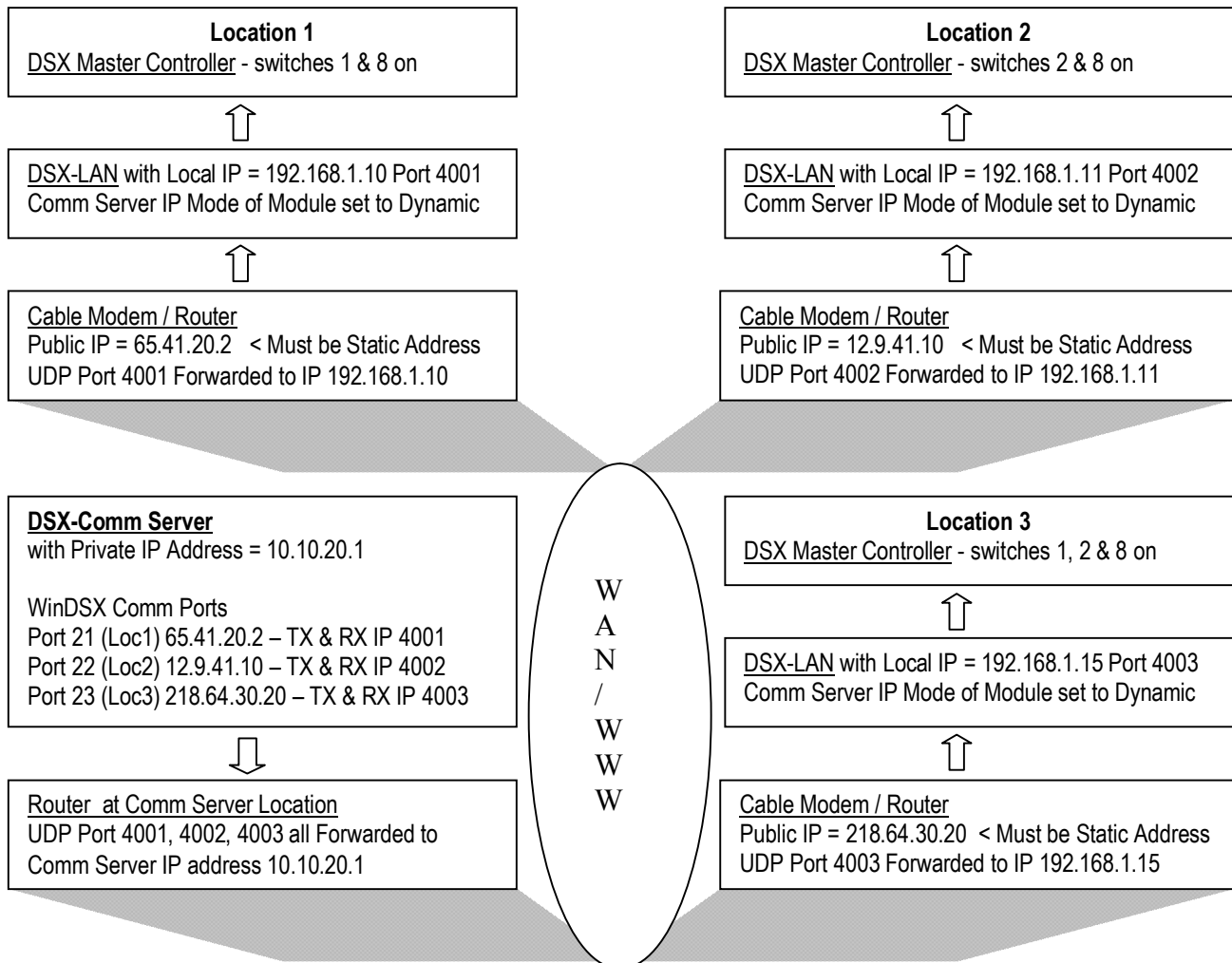
**DSX Access Systems, Inc.**

## DSX-WAN/Internet Communications

### Wide Area Network Communications

DSX IP Communications can be used on Local Area and Wide Area Networks as well across segments using the Internet for their connectivity. This application requires some knowledge of networks, routers, IP communications and addressing. Below is a typical blueprint of using DSX for a centralized approach to system administration for multiple sites and customers.

DSX-AES256 can be added to the system to provide encrypted communications to each Location. Each Location is given its own encryption password. Without AES-256 enabled, the system sends all data encoded without any clear text or names but not encrypted. Routers require Static IP Addresses that will not change if they are restarted.



# DSX-LAN Module Configuration

## Wiring the DSX-LAN Module to the PC for Programming

DSX-LAN	DB-9	DB-25
Tx	2	3
Rx	3	2
Gnd	5	7

## DSX-LAN Module to 1040 Master Controllers – RS-232

DSX-LAN	1042	1043	1044
Tx	4	16	4
Rx	3	15	3
Gnd	5	17	5

## View of Programming interface

```

Kb2cW --- DSX Access Systems Inc. ** COMMPORT **
File  CommPort  IpClient  IpServer  IpCommPort  Options  Commands  Help
TYPE: COMMPORT
PORT: 3
BAUD: 9600
WORDLENGTH: 8
STOPBITS: 1
PARITY: N

*****
* WARNING!
* You are attached to a private system intended for business
* proprietary use. Any unauthorized access, use or abuse of
* this system will be prosecuted to the fullest extent of the
* law and may subject you to criminal or civil sanctions.
*
*****

Please type password followed by the ENTER key.
*****

Password validated.

*****
* WARNING!
* You are attached to a private system intended for business
* proprietary use. Any unauthorized access, use or abuse of
* this system will be prosecuted to the fullest extent of the
* law and may subject you to criminal or civil sanctions.
*
*****

DSX-LAN(M) User Menu: Connected via Serial Port
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v4.0
Copyright 2003-2012 DSX Access Systems, Inc.

Key      Command/Action          Current Setting      New Setting
-----
DSX-LAN MAC Address is: 00-08-66-00-45-67
C.S./Gateway MAC Address is: 00-00-00-00-00-00

1  DSX-LAN(M) Command List
2  Set DSX-LAN(M) IP Address  0.0.0.0              0.0.0.0
3  Set DSX-LAN(M) Port      4444                  0
4  Set Conn Server IP Address 0.0.0.0              0.0.0.0
5  Set Conn Server IP Mode   1-Dynamic
6  Set Password              *****
7  Set Link Type             0-Autonegotiate
8  Set Password Mode         0-Single

s  Exit Programming Mode, SAVE CHANGES
x  Exit Programming Mode, DISCARD CHANGES

*** USER MUST MANUALLY EXIT PROGRAMMING MODE! ***
    
```

## DSX-LAN Module to 1020 Master Controllers – RS-485

DSX-LAN	1022	1021	1032
Tx +	49	51	55
Tx -	48	52	56
Rx +	51	49	53
Rx -	50	50	54