



**DSX Access Systems, Inc.**

## **IP OnDemand**

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DSX now offers an efficient process for IP Communications. The ability to open a communication portal only when necessary (OnDemand), offers increased system integrity. Much like a Dial-Up modem, OnDemand opens the communication portal, data is exchanged, and the portal is closed. This allows the use of Internet or Cellular metered service for communication without constant online exposure to the world resulting in enhanced security and lower bandwidth consumption.

OnDemand Comm Ports facilitate the communication between Software Versions 5.1 or 6.1 and above and Controller Firmware Versions 3214 and above.

A single OnDemand Comm Port is defined at the Comm Server to transmit information to all OnDemand or a group of OnDemand Locations. Each Location is given a unique IP Address but uses the same IP Port Number. If needed, each Location can be programmed to automatically connect and interrogate (poll) the location on a routine basis. Poll Frequency is available at intervals ranging from every 10 minutes to over a month. A Timer can be set to alert you that it has stayed online too long.

Automatic connection and downloads occur each time changes are made to the database, while an operator makes changes to the Location, and when an alarm is triggered.

In the following example, Location 1 & 2 are Standard LAN-UDP Connections. Locations 3 & 4 are OnDemand Locations operating on the same LAN as the Comm Server. Locations 5 & 6 are remote OnDemand Locations using a Cellular System and ISP Router respectively. Note that Locations 3 & 4 share the same IP Port to minimize the number of ports required to be open. Locations 5 & 6 (the remote locations) use a separate IP Port to facilitate outside communication and port forwarding. The number of OnDemand ports is not limited by DSX System Software.

# IP OnDemand Typical Communications

This example shows the Comm Server communicating with Direct and IP OnDemand Locations using both DSX-LAN-D and UDS-1100 modules.

