



May 27, 2011

## **Re: Consideration checklist for choosing RAID5 storage configuration**

To all of our customers and partners;

This bulletin outlines a few considerations that a customer should be mindful of when choosing between JBOD and RAID5 storage structure for your DVR/NVR system.

RAID5 - *Redundant Array of Independent Disks, Level 5* - is a technology that allows data redundancy, which is achieved by combining multiple disk drive components into a logical unit, where data is distributed across the drives.

JBOD - *Just a Bunch Of Drives* – is a technology that offers no data redundancy. Instead, all disks are independently addressed, with no collective properties.

### **List of considerations when selecting between RAID and JBOD storage configurations:**

1. RAID5 data redundancy is achieved by "striping" both data and parity information across three or more drives. As a result of high system resource requirements, SRX-Pro Server has been recognized to randomly drop frames during high frame rate video recording to RAID5 storage.
2. JBOD configuration offers more storage space for the same investment making it a more cost-effective solution compared to RAID5 configuration.
3. New generation of robust hard drives ensures the reliability of the JBOD storage reducing the need for storage redundancy.
4. SRX-Pro Server software has been programmed to verify hard drive sectors of JBOD configuration before writing video recording. If the sector is found to be damaged or corrupted, the software will avoid it in the future, while utilizing the remainder of available hard drive space. On the other hand, corruption in RAID5 configuration will cause complete loss of video recording on an entire storage array.

Please contact technical support at [support@i3international.com](mailto:support@i3international.com) or by phone: 1.877.877.7241 if you have any questions or issues.

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