



Product Bulletin:

SANscreen® Licensing Units Definition

Revision History

09February2010 - Revision 1.3

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This PRODUCT bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This bulletin covers the licensing units that apply to SANscreen® suite, including how the units are defined and counted.

2. SANscreen Products and Licensing Options

SANscreen modules are licensed by two types of units: FC Port and TB.

SANscreen Products	Switch Port License	TB License (Capacity)
Service Insight	Yes	Yes
Service Assurance	Yes	Yes
Application Insight	Yes	Yes
VM Insight	No	Yes
Capacity Manager	No	Yes

The FC Ports or ports that count towards a license are comprised of all 'licensed FC ports' of active switches that can connect to another switch, a physical or a virtual end FC port (such end FC ports can be masked/mapped or zoned).

The TB counted towards license is comprised of all the raw capacity reported by the storage arrays for all modules, except for VM Insight. The TB capacity for VM Insight is counted as all the capacity associated with the virtualized environment.

1. Service Insight: all the raw capacity of network attached storage arrays (e.g. iSCSI, NFS).
2. Service Assurance: all the raw capacity of network attached storage arrays (e.g. iSCSI, NFS).
3. Application Insight for array performance: all the raw capacity of the arrays discovered by the module.
4. Capacity Manager: all the raw capacity discovered by SANscreen, regardless of protocol type.
5. VM Insight: all the capacity associated with the virtualized environment.

3. SANscreen Licensing Terminology

Port or FC Port: Fibre Channel port.

Physical Port: a normal FC port that can be connected to with a standard FC cable.

Licensed Port: a port that is licensed (by the switch vendor) to be used by the customer.

TB: terabyte which designates the amount of physical capacity that can be managed.

4. Other Terminology

N_Port: a port on the node (e.g. host or storage device) used with both FC-P2P and FC-SW topologies.

AL Port: an abbreviation "arbitrated loop port". AL Ports may or may not be represented as a physical port.

NPIV Port: an abbreviation of "N_Port ID Virtualization port" and relates to ports that may or may not be represented by a physical port.

Active Switch: a switch device that is currently being discovered by SANscreen.

Inactive Switch: a switch device that was an active switch but is no longer being discovered by SANscreen.

End FC Port: an FC port used by a source or a target device. Such a port can be masked or zoned. This port can also be described as an N_Port.

Brocade: a company that provides FC switches

DCX: a family of switch models

ICL port or inter-connect link port: a specific type of port that is used on Brocade DCX switches to inter connect switch chassis's.

5. Additional Notes on How SANscreen is Licensed

1. Switch ports that are licensed by the switch vendor to be used by the customer are counted towards SANscreen license, regardless if they are connected or not.

2. Switch ports that are used to connect to other switches are also counted towards license.

3. NPIV ports and AL ports that are connected to a switch are counted towards licensing.

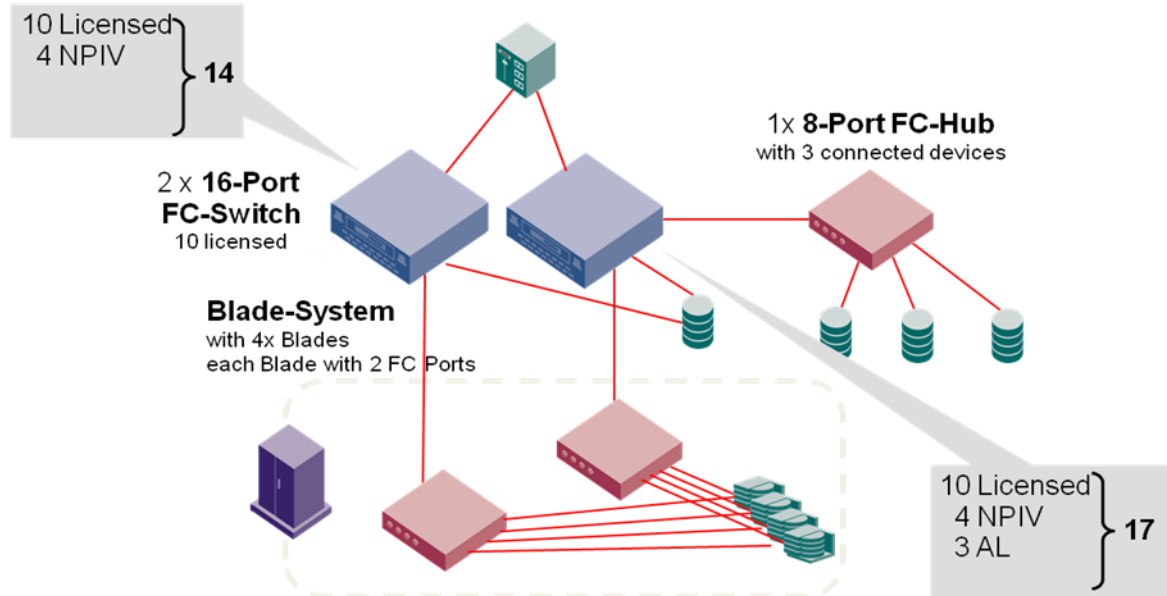
4. Ports of inactive switches are not counted towards license.

5. Ports that are not licensed (by the switch vendor) are not counted towards license.

6. Brocade DCX switch provides the ability to use ICL ports. Each ICL port will be counted as one port (although some management consoles may present 16 ports per each ICL port)

6. SANscreen Licensing Example

The customer has two fabrics; each one is a single 16 FC port with 10 ports licensed. There is a blade server with 4 blades connecting to the fabrics through an NPIV gateway.



The ports counted towards license are as described in the following table:

Switch	Physical Ports	Other Ports	Licensed Physical	Presented in SANscreen client	Counted for License
Left	16	4	10	$16+4=20$	$10+4=14$
Right	16	4+3	10	$16+4+3=23$	$10+4+3=17$

7. Additional Information

Contact Information: Please contact SANscreen Product Management, Naganada Anur, with questions concerning this bulletin.