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Nexus 3000 - High Performance, No Compromise!  
 Wednesday, June 08, 2011

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Question	Answer
does is work in VSS mode or onlt standalone	there is no VSS mode on Nexus but we have vPC feature which is the NX-OS "equivalent", this is feature is coming with a software upgrade, you can contact your sales rep for more information.
Hello: is airflow front to back, similar to server?	I'm glad you asked. The default air flow is front to back, the Nexus 3064 has actually the ports in the back panel, so front to back is default airflow. We also have back to front airflow if you
how is the power compared to the module on the NX-7K, the NX-5K, and the NX-2K?	The platforms are inherently different and have different power consumptions accordingly. For example the Nexus 7K is a modular chassis, so it is inherently different. All the power
is there a QSFP to Fiber connector?	Stuart - yes, there is a SR4 transceiver optic. After-market assemblies can be used to split the MPO connected fibre-cable (goes into the QSFP+ SR4 optic), into 4-pairs of SR (LC
Is there a side-by-side comparison data sheet for the NX-5k vs. NX-3k?	David - no, they are going after different market segments. The N3K is designed for high-frequency tading workloads. N5K/N2K is for general DC workloads. N5K/N2K has Fabric extender support,
How does this compare to the Cisco-5548 product and where would you use each?	Mark - please see response to David Simes...
Will the N3k support the FEX's and Fabricpath?	No - for scaled out environments, the Nexus 5K provides the mist benefits to customers...
can you define high-freq tading workload?	Sure - generally speaking it is environments where latency/jitter of packets are of utmost importance. Every nanosecond matters. This is the case for Automated-Trading" in financial services... "
can you define high-freq tading workload?	Also you can find more information here: <a href="http://www.cisco.com/web/strategy/financial/algo_speed.html">http://www.cisco.com/web/strategy/financial/algo_speed.html</a>
Can the 3000 be managed as a line card by a Nexus 5k?	The Nexus 3000 is not a Fabric Extender and can not therefore be managed as a line card. It has switching and routing capability, so it's a standalone unit.
Does this switch also supportfiber over etherenet?	Mark, this switch is pure ethernet, for Fiber Channel, Nexus 5000 / 5500 is the leading platform
Regarding the 10gig uplinks, you would Ether-Channel or LACP trunk them to 10 gig ports on a 6500 for example	Jeff, yes you can do etherchannels with LACP or no-LACP negotiation to other switches / routers. You can have either L2 port-channels or L3 port-channels
what is the main difference between 5K and 3K?	Tirumala - N3k is designed for ultra-low latency environments. N5K is for all general DC access enviroments... N5K has features like fabric-extender support, FCoE, adapter-FEX, VM-FEX etc., all
So what are you intending someone to uplink this device to? Do I need a core 3000 also?	It really depends on the design and scaling requirements. You can connect it to N7K, Cisco catalysts, and for data-center scaling, N5K / N2K
how are the PHY ports group? are they in group of 12 or 24 front ports per 10GIG ASIC?	
in 1GE, 12 or 24 ports use one ASIC port	

I wonder if the 3K does the same	The N3K has 1 single asic, take a look at the switch architecture white paper document: <a href="http://www.cisco.com/go/nexus3000">www.cisco.com/go/nexus3000</a> , section white papers
Can you explain the native 40GB uplink and QSFP+ requirements?	requirements for 40 GB uplink is to use QSFP+ type of receivers. You can either have 4x10 GB outputs or a single 40GB fiber (as the optics become available).
Can you explain the native 40GB uplink and QSFP+ requirements?	you can also use the twinax breakout 4x10 GB for example (available today)
doesn't support pfr?	do you mean PFC? Priority Flow Control?
nope...performance routing	contact us with your use case on that, we don't have performance routing per say, however that is oriented WAN, this is a 10 GB high performance switch with L3 capability. The routing
Can the 40GB uplinks be etherchanneled to create a 160GB aggregate?	yes, you absolutely can. You can have up to 16 members per port-channel as per our data-sheet.
If your using multicast and since this is such a fast switch, you probably would make sure your querier stays in the 3000 and not have that multicast router default to an uplink switch	yes, but it depends on the design and use case
Is ISSU supported?	No - ISSU is supported on the Nexus 5K...
Is ISSU supported?	For more information about the SPAN, there is a white paper : <a href="http://www.cisco.com/go/nexus3000">www.cisco.com/go/nexus3000</a> , section white papers
Is vPC supported on the Nexus 3K?	vPC is coming soon
Like the 6k5, when you span a vlan, will you get duplicate packets when you span both ingress and egress packets?	on Nexus 3000 you only span a vlan on RX, so no duplicates. again for more information on span, please consult the SPAN white paper : <a href="http://www.cisco.com/go/nexus3000">www.cisco.com/go/nexus3000</a>
does it support vacl capture port?	Currently there is no support.
Is there an accurate and detailed feature list for the Nexus 3K? The reason I ask is when the Nexus 7K first came out VTP was not fully supported. I need to know what to expect to avoid surprises	you can use the data-sheet, configuration guides and release notes on the <a href="http://cisco.com/go/nexus3000">cisco.com/go/nexus3000</a> page
Along the lines of the feature list, it would be nice to get a feature list similar to the table in the Catalyst switching guide. That's good detail.	we will be publishing something very soon, in about a week
Along the lines of the feature list, it would be nice to get a feature list similar to the table in the Catalyst switching guide. That's good detail.	We will stay on for questions for next 4 mins...
what's the best practice in a similar situation like the one already explained, with the only difference that pim bi-dir is used in this device?	