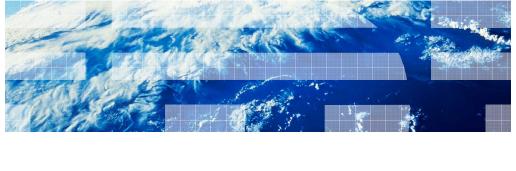


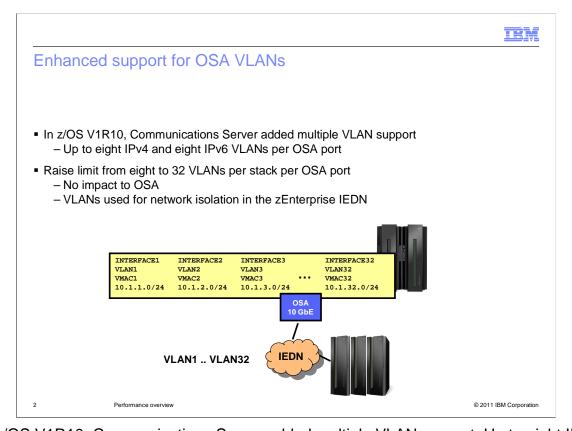
z/OS Communications Server – Performance overview



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This presentation provides an overview of the new functions in z/OS V1R13 Communications Server for performance improvements.

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In z/OS V1R10, Communications Server added multiple VLAN support. Up to eight IPv4 and eight IPv6 VLANs are allowed per OSA port. A separate INTERFACE statement and data device are required per VLAN. The value of eight is a z/OS Communications Server software limitation. In z/OS V1R13, the limit is raised to 32 VLANs per stack per OSA port. There is no impact to OSA. This enhancement is in support of the emphasis on VLANs for network isolation in the zEnterprise IEDN.

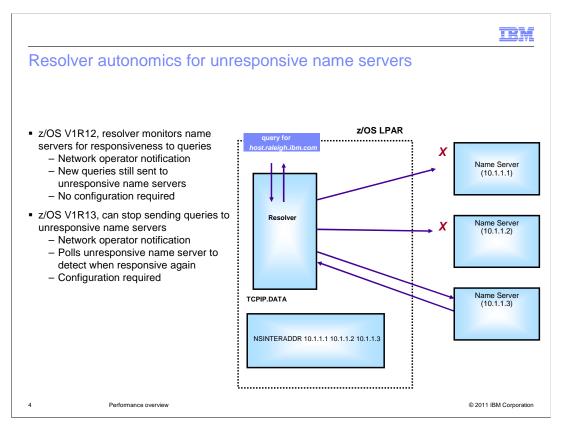
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IBM 64-bit exploitation Traces relocated to 64 bit common storage - VTAM internal trace (VIT) moved from ECSA and data space to 64 bit common - Multiple CTRACE components moved from data spaces to 64 bit common CTRACE z/IOS V1R13 change User Component **Current location** SYSTCPIP TCPIPDS1 Dataspace 64 bit common Stack SYSTOPIP TN3270E TN3270E Private storage 64 bit private SYSTCPDA Stack (NMI) TCPIPDS1 Dataspace 64 bit common SYSTCPIS TCPIPDS1 Dataspace 64 bit common Stack SYSTCPCN TCPIPDS1 Dataspace 64 bit common Stack (NMI only) SYSTCPSM TCPIPDS1 Dataspace Stack (NMI only) 64 bit common SYSTCPRE RESOLVER Private SP229 No Change SYSTCPRT OMPROUTE Private storage No Change OMPROUTE SYSTOPIK IKE daemon Private storage No Change IKESMP SYSTCPOT TCPIPDS1 Dataspace 64 bit common **OSAENTA** SYSTCPNS NSS daemon's private storage No Change Security Server Performance Overview © 2011 IBM Corporation

In z/OS V1R13 Communications Server, multiple trace buffers have been relocated to take advantage of 64 bit common storage. The VTAM internal trace (VIT) is moved from ECSA to 64 bit common storage. In addition, the data space VIT is no longer used. This move is transparent to you if you use the external VIT to obtain trace records.

For TCP/IP, multiple CTRACE components are moved from data spaces to 64 bit common storage. The table summarizes the changes. These moves are transparent to you as long as you use the NMI interface to obtain trace data.

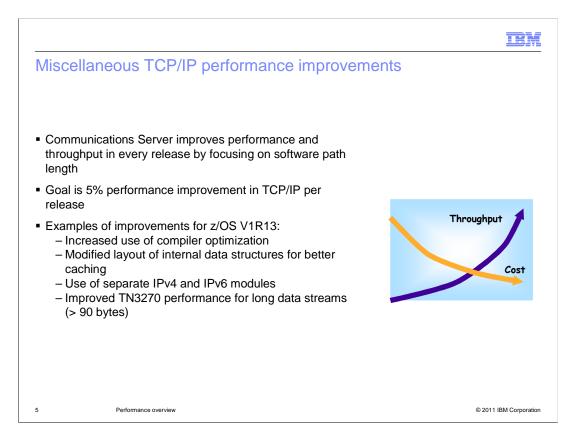
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In z/OS V1R12, the resolver monitors name servers for responsiveness to queries. The network operator receives a notification when a name server becomes unresponsive. Although the resolver detects the unresponsive name server, new queries are still sent to that name server. This function is enabled by default.

In z/OS V1R13, the resolver can be configured to stop sending queries to unresponsive name servers. The resolver polls the unresponsive name server to detect when it becomes responsive again. The operator is notified of the condition using messages similar to those used in V1R12. The autonomic quiescing function must be explicitly enabled in the resolver setup file.

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Communications Server development strives to improve performance and throughput in every release by focusing on software path length. The goal is at least a 5% performance improvement in TCP/IP per release. Some of the improvements for z/OS V1R13 are listed above.

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