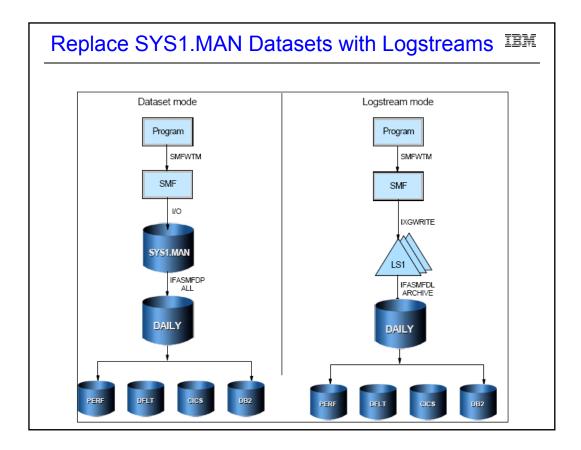
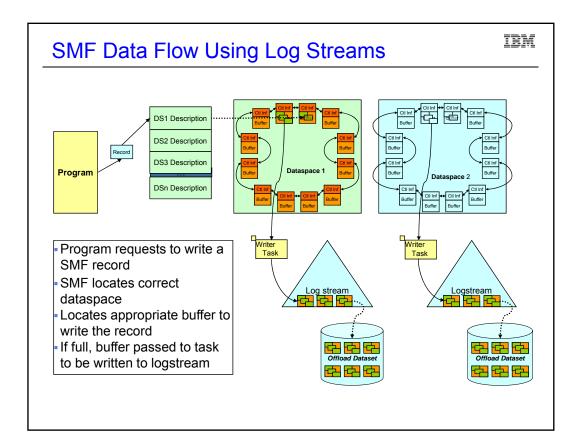
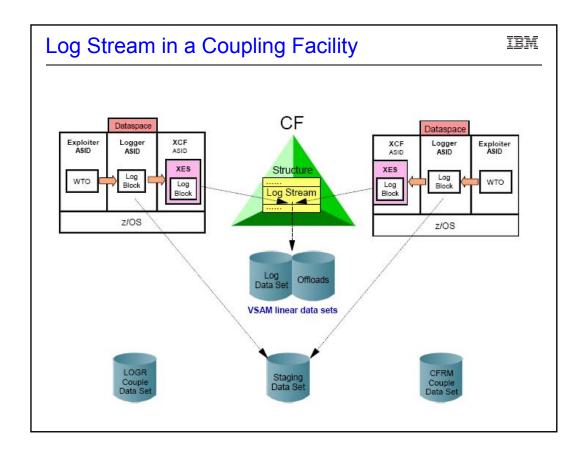
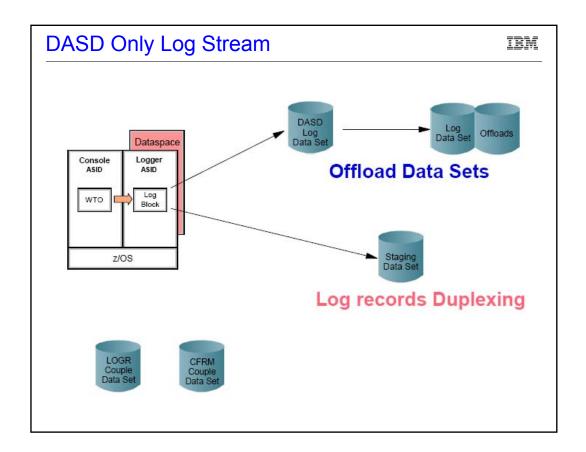


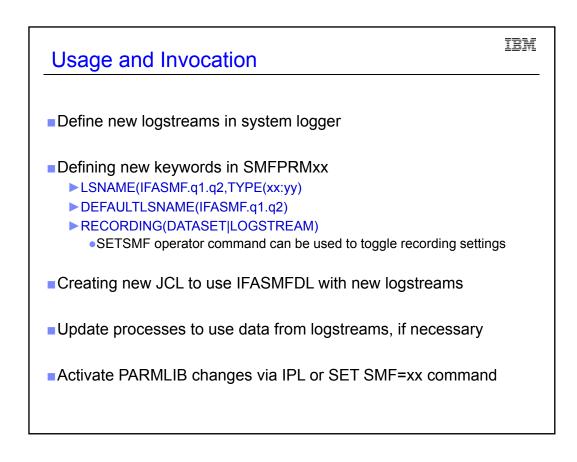
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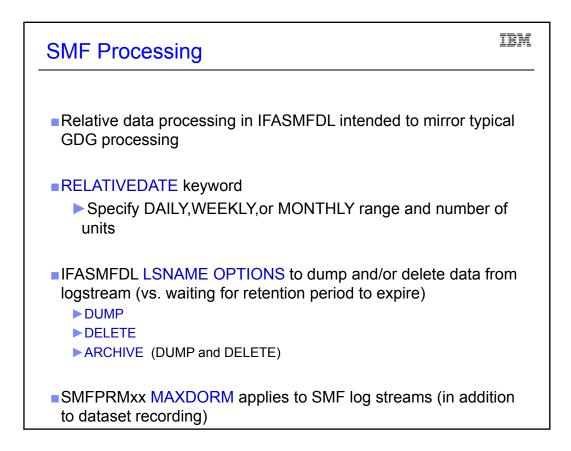


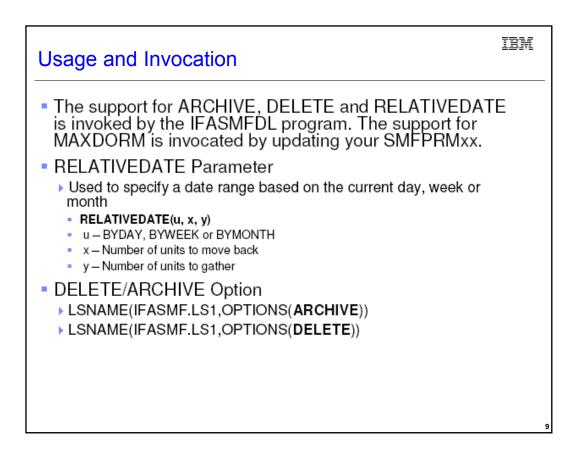


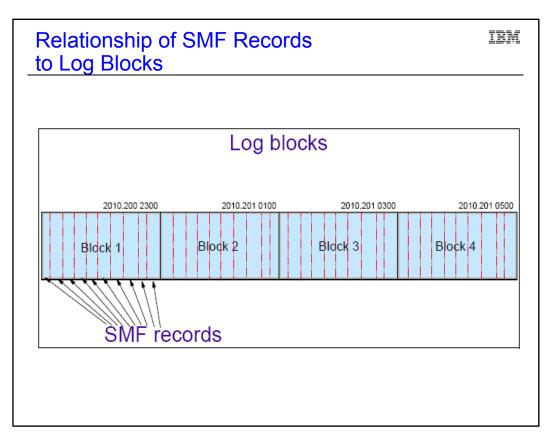




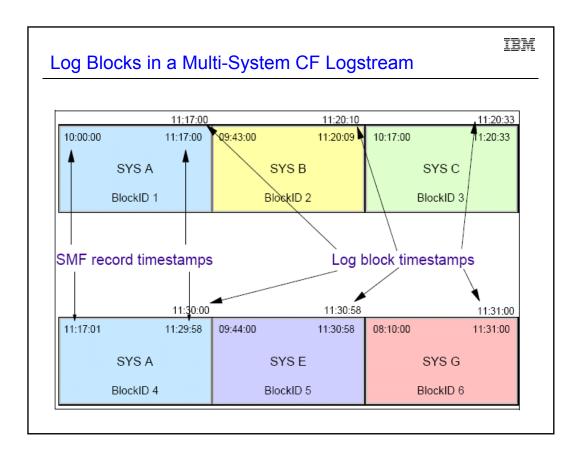


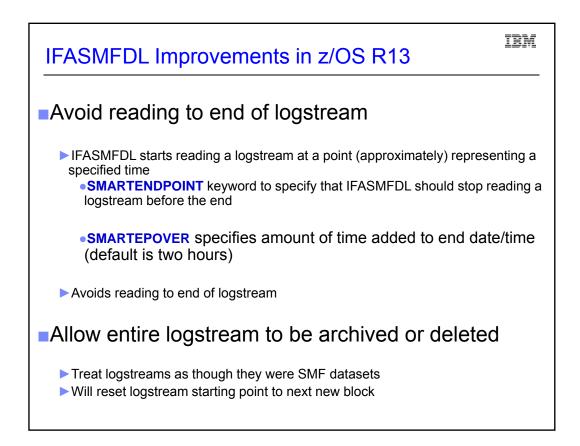


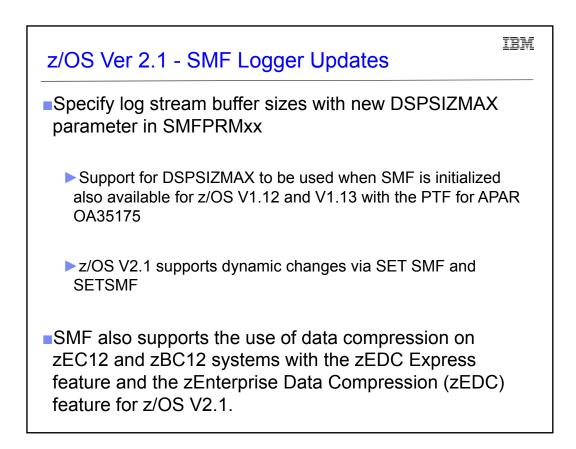




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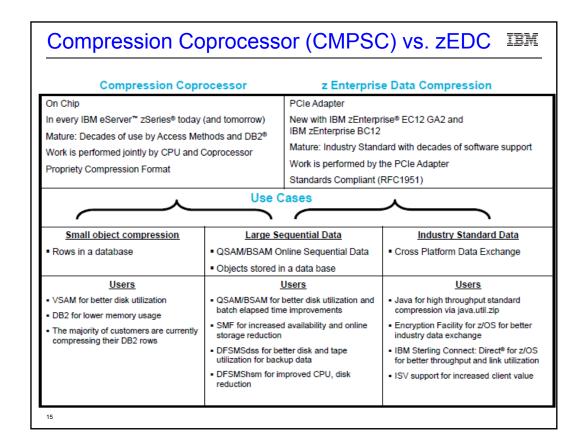


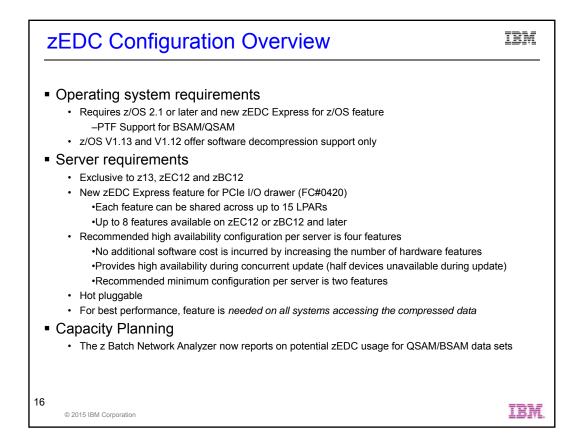




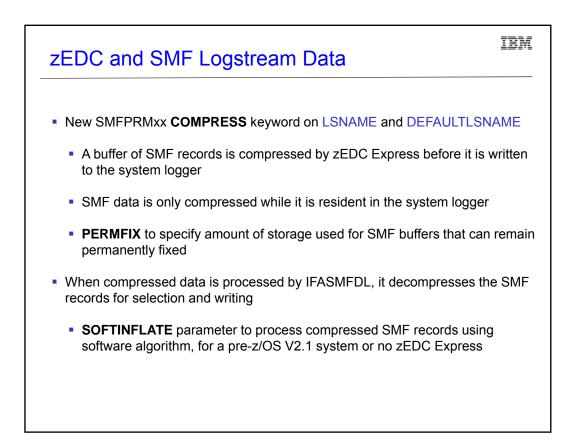
What is it?	What Changes?	What is the Value?
 ZEDC Express is an IO adapter that does high performance industry standard compression Used by z/OS Operating System components, IBM Middleware and ISV products Applications can use zEDC via industry standard APIs (zlib and Java) Each zEDC Express sharable across 15 LPARs, up to 8 devices per CEC. Raw throughput up to 1 GB/s per zEDC Express Hardware Adapter 	 Disk Savings: Many people are already getting value from CMPSC compression and software compression today Performance: High throughput alternative to existing System z compression for large or active files. Industry Standard: Low cost compressed data exchange across all platforms Pervasive: Standard APIs allow quick adoption by middleware products running on System z 	 QSAM/BSAM compression can save disk cost Business Partner Data Exchange can have higher throughput with lower CPU cost Sterling Connect:Direct saves additional link bandwidth, elapsed time. ISV Products delivery expanded customer value Java transparently accelerates java.util.zip IBM Encryption Facility for standard compliant data exchange Improved availability with SMF compression

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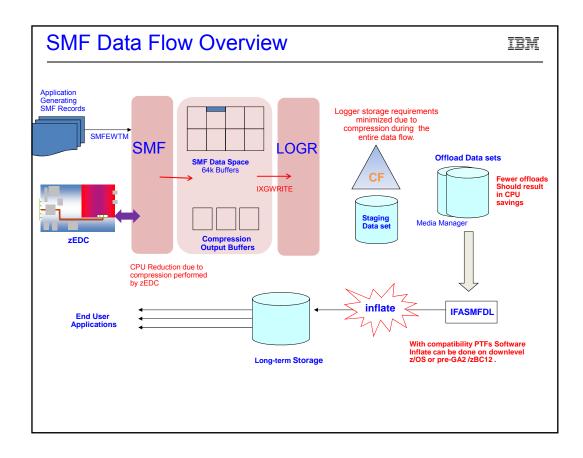


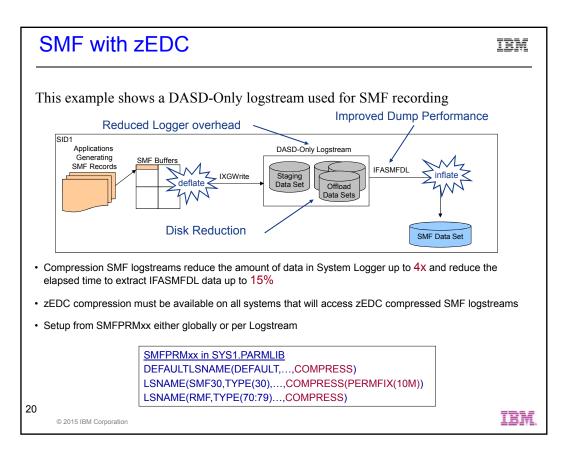


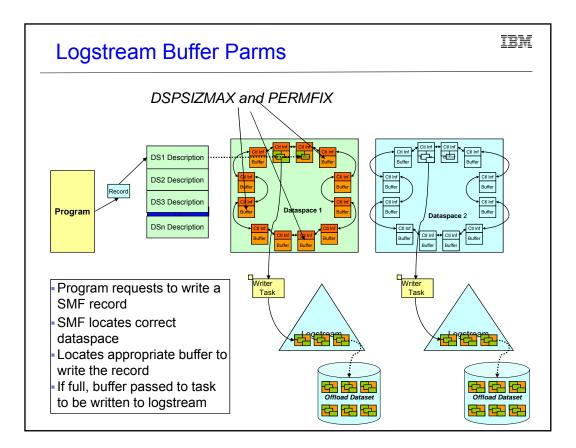
SMF Exploitation of zEDC Express	IBM
 SMF compression support is for both CF or DASD logstream Specify the new <i>COMPRESS</i> option on one or more logstream definitions LSNAME or DEFAULTLSNAME Option to specify amount of memory to permanently fix for performance Same SMF records can be directed to multiple log streams and compression can enabled on one of them 	be
 IFASMFDL requirements No changes required if zEDC is available; it will be used automatically Specify the SOFTINFLATE option to process compressed data when there are no devices available Requires z/OS PTF to provide software inflate (decompression) capability for z/OS 1.12 systems If the SOFTINFLATE option is not specified on a system with no zEDC device, ar will occur and no records will be deleted from the SMF logstream 	and 1.13
 Following SMF records to collect performance information: SMF 23 – SMF buffer usage, number of records written etc. SMF 88 - System logger log stream size, frequency of offload Collection enablement is via SMFPRMxx 	

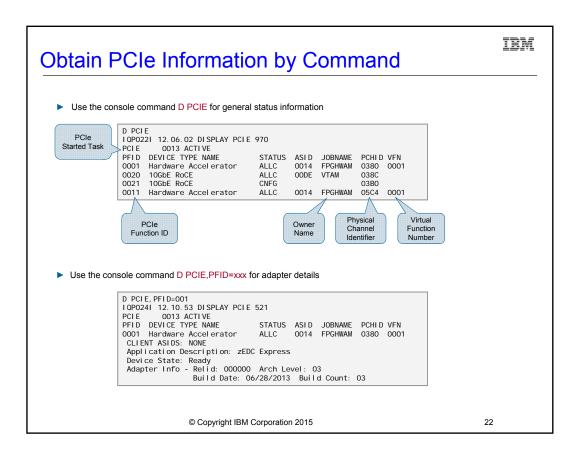


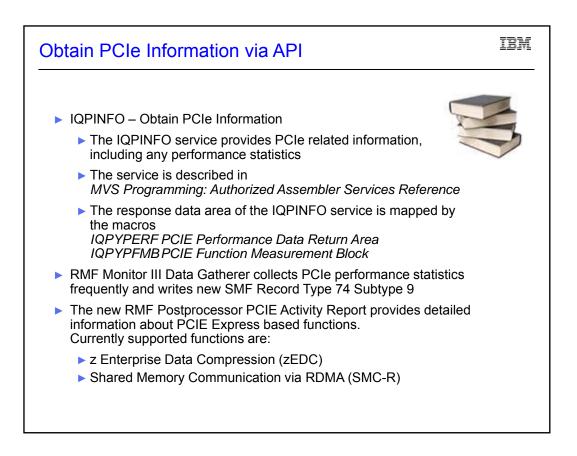
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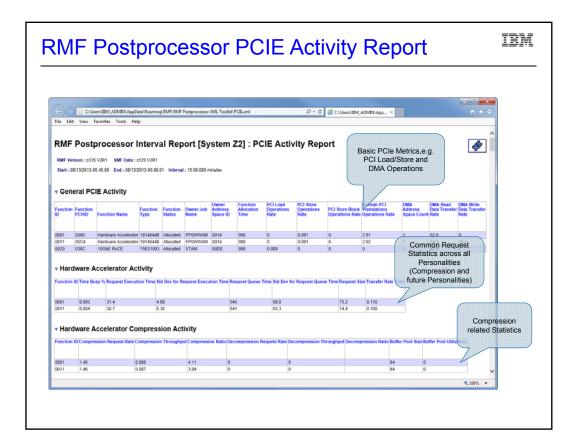




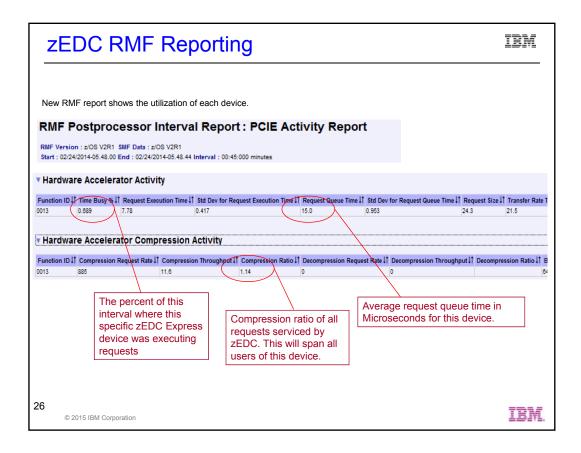


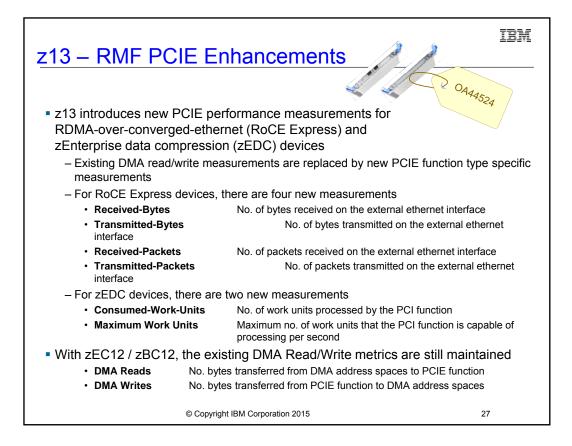


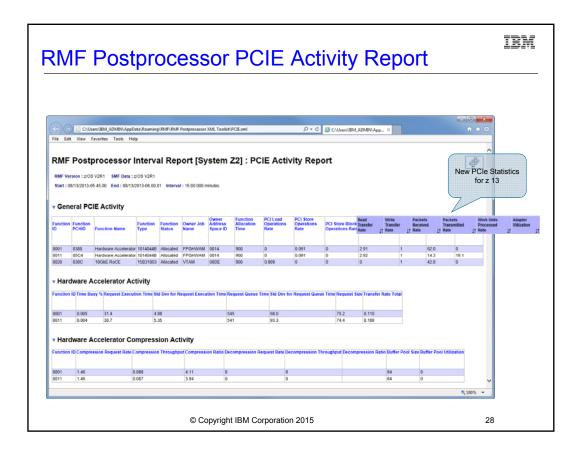




0001 034 0011 056 0020 034	CHID 180 16C4 18C	Function Name Hardware Accelerator Hardware Accelerator 10GbE RoCE		Allocated	Owner Job Name FPGHWAM FPGHWAM	Address Space ID 0014 0014	Allocation Time 900	Operations Rate	Operation Rate	
0011 050 0020 038	iC4 I8C	Hardware Accelerator 10GbE RoCE	1014044B	Allocated			900	0	0.004	
• Hardwa	ISC	10GbE RoCE			FPGHWAM	0014			0.091	
• Hardwa			15B31003	Allocated		0014	900	0	0.091	
	are Ac	celerator Act			VTAM	00DE	900	0.889	0	
0011 0	011 0.004 30.7 5					5	41	93.3	93.3	
Function ID C	Compres	sion Request Rate C	ompression		ut Compressi		ecompression R			
0001 1	1.46	0.	088		4.11	0	0			
0011 1	1.46	0.	087		3.94	0	0			







RMF Postprocessor PCIE Activity Report												
5 - Q	C:\Users\IBM_	ADMIN\App ×				□	x Ø					
ty Report						Nev	w PCle S for z1					
PCI Store Operations Rate	PCI Store Block Operations Rate	Refresh PCI Translations Operations Rate	DMA Address Space Count	Read Transfer Rate	Write Trans ↓† Rate	fer	Packe Receiv Rate	ed	Packets Transmitted ↑ Rate	Work Units Processed ↓↑ Rate	Adapter Utilization ↓↑	↓t
0.091	0	2.91	1	62.0	0							
0.091	0	2.92	1	14.3	19.1							
D	0	0	1	42.9	0							
toqueet Queu	o Timo Poquost Si	70 Transfor Data To	tal								29	

