1. z/OS MVS System Messages, Vol 8 (IEF-IGD) (SA38-0675-60)

New SMS message **IGD420I** to be issued when SMS processes the ENF64 Out of Space signal for a compression extent pool.

IGD420I COMPRESSION EXTENT POOL epid {HAS REACHED WARNING
THRESHOLD|SPACE CONSTRAINT IS RELIEVED}.
UP TO num_vols SMS VOLUME STATUS(ES) {ALTERED TO QUINEW|RESTORED TO
STATUS DEFINED IN ACDS}.

Explanation

A space constraint warning threshold has been reached or relieved for a compression extent pool. In a warning state, any online SMS volume(s) associated with the referenced extent pool ID will have its status altered from ENABLE to QUINEW to relieve new data set allocations. In a relief state, the altered SMS volume(s) associated with the referenced extent pool ID will have its status restored.

In the message text: **epid**

The affected extent pool ID.

num vols

The number of online SMS volumes associated with the extent pool that may have the SMS status altered.

System Action

The system dynamically sets the SMS volume to the status described above.

System Programmer Response

Address the space constraint on the compression extent pool, if any. See preceding IEA499E message for more details on the affected devices. For disablement of this action, see "AUTO_VOLSTATUS_EXTPOOL" optional keyword for IGDSMSxx parmlib within the z/OS MVS Initialization and Tuning Reference.

Note: A re-IPL will restore the SMS volumes to its original defined (ENABLE) state even with its device in a space constrained warning state. Issuing the MVS command to refresh the space statistics of a volume (or volumes from a given storage group) will place said volume(s) back into the warning state if the compression device is space constrained.

```
V SMS, {{STORGRP|SG} (storgrp)}, {SPACE|S}
        {{VOLUME|VOL} (volser)}
```

Source

DFSMSdfp

Routing code

2,4

Descriptor code

4,12

2. z/OS MVS Initialization and Tuning Reference (SA23-1380-60)

Chapter 62. IGDSMSxx

Update section Syntax Format of IGDSMSxx to include new parmlib keyword [AUTO_VOLSTATUS_EXTPOOL(YES|NO[,nnn|,120])

Update section **Optional keywords for IGDSMSxx** to include new parmlib keyword and description.

AUTO VOLSTATUS EXTPOOL (YES | NO[, nnn | 120])

Specifies whether or not an online SMS volume is monitored for exhausted extent pool activity. This monitor only applies to compression extent pools and enables or disables the SMS Compression Extent Pool Alert. When SMS receives a Compression Extent Pool Out of Space Condition event (ENF) signal, all volumes associated with the flagged extent pool will have its SMS volume status modified to be QUINEW if the status is currently ENABLE. Upon receiving a Compression Extent Pool Relief event (ENF) signal, all associated SMS volumes affected by the initial out of space condition will have its SMS status restored after nnn seconds.

Note: When the change occurs in the SMS volume status due to the extent pool's out of space constraint, the effect will restrict the selection of the volume only during new data set allocation. This will help prevent the SMS volumes and the extent pool space from further constraint.

YES

The SMS volume will be monitored for exhausted extent pool activity. This applies to devices that have space exceed the warning threshold.

The SMS volume will not be monitored for any exhausted extent pool activity.

nnn

This optional subparameter is measured in seconds and defaults to 120. *nnn* is the delayed time between receiving the Compression Extent Pool Out of Space relief event (ENF) signal and the SMS volume status resuming its original status. This delay will allow SMS to ignore rapid fluctuations between an extent pool entering and leaving the warning threshold. Valid values between 1 and 9999 seconds. Note: This *nnn* delay subparameter only applies to relief event processing.

Default: ENABLE and 120 seconds.

3. z/OS MVS System Messages, Vol 8 (IEF-IGD) - SA38-0675-60

Update existing IGD002I variants legend section with two(2) new indicator and text description for "/" and "=". Multiple variants with the legend need to be updated

VC	LUME	UN	ΙT	MVS	SYS	STEN	1= 1	2	3 4	4	56	7	8						S	TORG	RP	NAME
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**************************************														*								
	THE	STO	RAG	ΕG	ROUP	OR	VOL	UME	I I S	S I	NOT	DE	FIN	IED	то	THE	SY	ST	ΕM			
+	THE	STO	RAG	ΕG	ROUP	OR	VOL	UME	I I S	SI	ENAB	BLE	D									
-	THE	STO	RAG	ΕG	ROUP	OR	VOL	UME	I I S	S I	DISA	ABL	ΕD									
*	THE	STO	RAG	ΕG	ROUP	OR	VOL	UME	I I S	S (QUIE	ESC	ΕD									
D	THE	STO	RAG	ΕG	ROUP	OR	VOL	UME	I I S	SI	DISA	ABL	ΕD	FOF	R NE	W A	LLO	CA'	ΤI	ONS	ONI	Y
Q	THE	STO	RAG	ΕG	ROUP	OR	VOL	UME	I I S	S (QUIE	ESC	ΕD	FOF	R NE	W A	LLO	CA'	ΤI	ONS	ONI	Y
>	THE	VOL	SER	IN	UCB	IS	DIF	FEF	REN	T I	FROM	4 T	ΗE	VOL	SEF	R IN	CO	NF	IG	URAT	ION	ſ
1	THE	VOL	JME	IS	QUI	ESCI	ED FO	OR	NE	W	ALLO	CA	TIO	NS	BY	THE	SY	ST	EM			
=	THE	VOL	JME	IS	DIS	ABLI	ED FO	OR	NE	W	ALLO	CA	TIO	NS	BY	THE	SY	ST	EM			
SY	STEM	I 1	=	SYS	TEM1		SYS	TEM	1 2	2 :	= SY	YST	EM2		SY	STE	М	3 :	=	SYST	ЕМЗ	5
SY	STEM	I 4	=	SYS	TEM4		SYS	TEM	1	5 :	= SY	YST	EM5	,	SY	STE	М	6 :	=	SYST	EM6	5
SY	STEM	I 7	=	SYS	TEM7		SYS	TEM	1	8 =	= SX	YST	EM8	;								