Issuer: 2510 LARS DANIELSSON TEL.031-667479   031-667479

Subject: SMS serv SM   91-06-03

SMS implementation at Volvo Data.   Ver: 91-03-07.
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Service Assignement - Storage Management Platform.

Table of contents.

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Storage class.
==============

   Endusers:

STORCLAS	msec resp dir/seq	Read bias dir/seq	Write bias dir/seq	Avail	Note
NOCACHE	999/999	No/No	No/No	No	Never cache, for data sets that can not run under cache.
STANDARD	30/30	Yes/Yes	Yes/YES	No	Cache + DFW, if ds resides behind 3990-3 and there is cache enough. Ds in this class are not guaranteed cache and can be moved to uncached disk. The ds is guaranteed 30 msec responce time. Default class.
HIPER	5/5	Yes/Yes	Yes/Yes	No	Extra charged.
DUALCOPY	20/20	Yes/Yes	Yes/Yes	Yes	Extra charged.

   Operations technical support only:

STORCLAS	msec resp dir/seq	Read bias dir/seq	Write bias dir/seq	Avail	Note
SYSA	20/20	Yes/Yes	Yes/Yes	No	Mostly write, may cache
SYSAHI	5/5	Yes/Yes	Yes/Yes	No	Mostly write, must cache
SYSB	20/20	Yes/Yes	Yes/Yes	No	Mostly write, may cache
SYSBHI	5/5	Yes/Yes	Yes/Yes	No	Mostly write, must cache
SYSC	20/20	Yes/Yes	Yes/Yes	No	Mostly write, may cache
SYSCHI	5/5	Yes/Yes	Yes/Yes	No	Mostly write, must cache

Note. SYS* storage groups are reserved to keep system volumes.

   Storage class SYSA* are directed to storage group SYSA.
   Storage class SYSB* are directed to storage group SYSB.
   Etc. if there are more than two SYSx storage groups to
   maintaine.

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Management class.

See same headline under "Service Requirements".

Conversion of "old standard" allocations.

See same headline under "Service Requirements".

TPTEST volumes => storage group DBT

    VD (TP0D90)
    V1 (TP0180 TP0181 TP0182 TP0183)
    V2 (TP0281 TP0284 TP0287 TP0288 TP0289)
    V4 (TP0483 TP0485)

TPPROD volumes => storage group DBA

    VD ... (to be completed at conversion time)
    V1 ...
    V2 ...
    V4 ...

TPPROD volumes => storage group DBB

    VD ... (to be completed at conversion time)
    V1 ...
    V2 ...
    V4 ...

TPPROD volumes => storage group DBC

    VD ... (to be completed at conversion time)
    V1 ...
    V2 ...
    V4 ...

Temporary data sets.

See same headline under "Service Requirements".

Data set naming conventions.

See same headline under "Service Requirements".

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DB2 convertion of old volumes.
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This is a snapshot from 90-10-29. Take a new one when it's time
for convertion of old DB2 volumes and mark wich one of the
storage groups DB2A, DB2B and DB2C will be selected to contain
the volume. Also mark if there is some cpu that shall be
disabled from the storage group.

NODE	VOLUME SERIAL	FREE SPACE	% FREE	ALLOC SPACE	STORGRP	CPU DISABLE
VD	TP2D02	1900441	99	16419		
	TP2D03	232767	12	1632785		
	TP2D05	133973	22	487878		
	TP2D08	207752	33	414099		
	TP2D09	109708	18	512143		
	TP2D10	158238	8	1707314		

NODE	VOLUME SERIAL	FREE SPACE	% FREE	ALLOC SPACE	STORGRP	CPU DISABLE
V1	TP2101	291602	23	952100		
	TP2102	339477	55	282374		
	TP2180	924087	50	941465		
	TP2183	686776	37	1178776		

NODE	VOLUME SERIAL	FREE SPACE	% FREE	ALLOC SPACE	STORGRP	CPU DISABLE
V2	TP2202	339758	27	903944		
	TP2206	23703	2	1219999		
	TP2207	19487	3	602364		
	TP2208	25296	2	1218406		
	TP2209	478275	26	1387277		
	TP2210	328	<<<	621523		
	TP2211	28528	5	593323		
	TP2212	241339	13	1624213		
	TP2213	331794	53	290057		
	TP2214	166108	9	1699444		
	TP2215	466892	38	776810		
	TP2216	137486	11	1106216		
	TP2231	40286	6	581565		
	TP2233	1202666	64	662886		
	TP2234	394987	21	1470565		
	TP2235	390115	63	231736		
	TP2236	1440914	77	424638		
	TP2237	1228618	99	15084		
	TP2238	505163	41	738539		

NODE	VOLUME SERIAL	FREE SPACE	% FREE	ALLOC SPACE	STORGRP	CPU DISABLE
V4	TP2401	107975	9	1135727		
	TP2402	450450	36	793252		
	TP2403	11289	<<<	1232413		
	TP2404	562	<<<	1243140		
	TP2405	234	<<<	1243468		

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Storage groups:
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Type of allocations

```
                              PRIM            PRIMF
                      -> +-----------+   +-----------+
all the others        -> ! no cache  !   ! no cache  !
                      -> !           !   ! fulldump  !
                      -> !           !   !           !
                      -> +-----------+   +-----------+
```

```
                              DB2A            DB2B            DB2C
                      -> +-----------+   +-----------+   +-----------+
DATACLAS=DB2*         -> ! no cache  !   ! no cache  !   ! no cache  !
STORCLAS=NOCACHE      -> ! DATACLAS= !   ! DATACLAS= !   ! DATACLAS= !
MGMTCLAS=NOBACKUP     -> ! DB2       !   ! DB2B      !   ! DB2C      !
DSN=DB2-type          -> +-----------+   +-----------+   +-----------+
```

```
                              CACHE1          CACHE2          CACHE3
                      -> +-----------+   +-----------+   +-----------+
STORCLAS=HIPER        -> ! cache     !   ! cache     !   ! cache     !
                      -> ! DATACLAS= !   ! DATACLAS= !   ! DATACLAS= !
                      -> ! DBA       !   ! DBB       !   ! DBC       !
                      -> +-----------+   +-----------+   +-----------+
```
Note. If no data class is defined, SGCACHE1 is target.

```
                              CACHE1F
                      -> +-----------+
same as SGCACH1 but   -> ! cache     !
incremental backup    -> ! fulldump  !
is requested          -> !           !
                      -> +-----------+
```

```
                              DUAL
                      -> +-----------+
STORCLAS=DUALCOPY     -> ! cache     !
                      -> ! dual copy !
                      -> !           !
                      -> +-----------+
```

```
                              SYSA            SYSB            SYSC
                      -> +-----------+   +-----------+   +-----------+
STORCLAS=SYS*         -> ! cache     !   ! cache     !   ! cache     !
                      -> ! fulldump  !   ! fulldump  !   ! fulldump  !
                      -> !           !   !           !   !           !
                      -> +-----------+   +-----------+   +-----------+
```
Note. Storage groups SYS*, together with IPL, and Mastercatalog
      volume, contain all data sets needed to IPL and start
      VTAM, SMS, TSO, HSM, IMS, CICS, DB2, etc. They also
      contain the catalogs and the APF authorized libraries.

      Due to the occurence of APF authorized libraries in the
      SYS-pools, sideways movemement of data sets between
      volumes within the SYS-pools must be performed carefully
      to avoid mismatch to the statements defined in
      SYS1.PARMLIB(IEAAPFxx).

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Volume serial names:
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   The old naming convention for volume serial (volser) will remain
   unchanged. In order to simplify volume movements between storage
   groups all volumes in an SMS environment may have the same
   pool-prefix. On the other hand, in order to simplify
   rocognition, volumes may be grouped by names.

   How the volume is used depends on the attributes for the storage
   group where the the volume reside. As long as service
   applications like HSM and DMS process by Storage Groups and by
   classes assigned to the datasets, the Storage Manager has
   freedom to manage the volser names without bothering the users.
   Also, the users has no need to understand or remember the
   volser names.

   The following table describes how tha name are today at Volvo
   Data Gothenburg.

   Non-system volumes:

```
           +--------------- xx = pool
           !
           ! +------------- y = subpool
           ! !
           ! !+------------ d = data environment
           ! !!
           ! !!+---------- nn = numbering 1-9, A-Z.
           ! !!!
           --!!--
           xxydnn
```

STORGRP   Volser
-------   ------
all   SM0dnn   (Storag Manager's volumes)
primary   PR0dnn   (Primary pool)
primary   PRFdnn   (Primary pool, supported by full dump)
primary   PRTdnn   (Primary pool, target for temporary ds's)
primary   LA0dnn   (Large pool, target for large data sets)
...

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Dump pool.

- all storage groups except SYS* and DB2 are searched by DMS
  and backuped as soon as needed. Every half an hour at
  evening time.

Fulldump by DFDSS.

- volumes contained in storage groups marked for fulldump in
  the storage group table are dumped once a week

Idle space release.

- all storage groups except SYS*, DB2 are searched every
  morning

- data sets with DSORG=PS or DSORG=PO and secondary space
  defined are released

PDS compress.

- all storage groups except SYS*, DB2 are searched every
  morning

- data sets with DSORG=PO, except PDSE are compressed

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