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Subject: VDNA-info 91-01-03

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-> 2120D dist.list 2120

.-- Received from VD.ECE 031/667664 90-12-17 15.38

Vi översänder härmed information om Volvo Data North America. Meddelandet är författat av Ken Kaczmarek som är Vice President, Finance and Administration på Volvo GM Heavy Truck Corporation.

MVH Hans Lackéus
Marknadsutveckling
Volvo Data AB

Final approvals have been obtained for creation of Volvo Data North America (VDNA) as of January 1, 1991. VDNA will be the sole main frame computer utility for Volvo's U.S. and Canada operations and will be located in Greensboro as a division of Volvo North America. Operating control will be the responsibility of Volvo Data of Gothenburg with policy issues handled through a Policy Committee composed of the user groups in North America which will be chaired by VGHT initially. The consolidation of the Rockleigh and Greensboro utilities into a single operation will be under the responsibility of an implementation committee consisting of Rob Wyder, Charlie Fitts and Ronny Westher.

Cliff Thompson will serve as the Manager of the data center with responsibilities very similar to those he currently holds. Volvo Data has not made a final decision regarding permanent representation, and K G Olson will serve in the senior capacity on an interim basis.

Staffing decisions will be made by VDNA and the implementation committee with the involvement of Cliff Thompson. Within the anticipated total staffing levels, there tentively is a need for approximately five people relocating from Volvo North America. These positions will be resolved the week of January 7, 1991. The balance of employees will be from Volvo GM Heavy Truck Corporation (VGHT). To the extent any VGHT employee is not given final employment by VDNA, after exhausting efforts to place that employee within other appropriate organizations within VGHT, that employee will be eligible for a special severance pay package which will be announced shortly. The staffing process will continue probably through June, 1991, and won't be finalized until all permanent employees ultimately take up their new responsibilities.

The VDNA employees located in Greensboro will be covered by the VGHT wage and benefit programs. There will be no reporting responsibility to VGHR other than through the user Policy Committee.

As you are aware, this has been a long process and required extensive amounts of study and discussions. The potential savings to Volvo as a group and VGHT in particular are very large, and in view of the present economic situation, are of particular importance. The decision to house the VDNA operation in Greensboro is a tribute to the past success in the staffing and decisions related to the operating costs of VGHT data center. It is expected that in the future, the VDNA operation will create

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additional opportunities for the employees of VDNA with expanded professional development and increased job satisfaction.

K K Kaczmarek

-> PVST.50800BT	BERTIL THORÉN TEL 94051	50800
-> PVST.50810MK	MAGNUS KINELL 595804	50810
-> PVST.50820HC	HANS CHRISTENSSON	50820
-> PVMF.MOLLE	ANDERS MOBERG	52100
-> PVKU.91200BB	BENGT BORGH 592704	91200
-> PVPB.LRH	ROBERT HÄLLER TEL 95169	58050
-> PVIM.53700LB	LEIF BECKMAN	53700
-> PVOV.VOVASJ	STAFFAN JUFORS	VOV/A
-> VPK.41500C	OVE CARLÉN 2065205 010/339365	VPKAB-AU
-> PARTS.36000BA	BROR ANDREASSON	36000
-> PARTS.36500LL	LENNART LUNDCREN	36500
-> PARTS.36100RN	RALPH NILSSON	36100
-> VBIL.16000BJ	BENGT JINNEFÄLT	16000
-> VBIL.16700BC	BERTIL CARLSSON TEL 668711	16700
-> VBIL.AQ	LEIF QVICKLUND	17300
-> VHK.0154SE	STEN ERSMAN	0154
-> VTC.RBA	ROLF AGREN	20410
-> VTC.BOJ	ÅKE BOIJE	20417
-> VTC.BS	BJÖRN SAND	22170
-> VTC.28300IH	INGVAR HULITHÉN	28300
-> VTC.26500SH	SIGVARD HENRIKSSON	26500
-> VLK.0150AK	ALLAN KARLSSON	ADM.UTV.
-> VP.44400KH	KAI HONNÉR	44400
-> VK.8003HB	HENRIK BOQVIST	PENTA
-> VTAB.7900GL	GÖRAN LINEBERG	7900
-> VTAB.7110IL	INGRID LANGVIK	7110
-> VFA.LARSH	LARS HANSSON	1200
-> BUSS.GREGER	GREGER ORDENIUS	84100
-> VD.2000GK	GÖRAN KLING	2002
-> VD.2005RW	RONNY WESTER TEL 031/667759	2005
-> VD.RL	ROLAND LINDEROTH	2006
-> VD.2004MJ	MAGNUS JONASSON	2004
-> VD.2003UBB	ULLA-BRITT BÖRJESSON	2003
-> VD.KGO	KG OLSSON	2040
-> VD.2050HL	HOLGER LISSVALL	2050
-> VD.2090GL	GUNNAR LINDBERG	2090
-> VD.2100LÅ	LARS ÅSTRÖM	2100
-> VD.2200HO	HANS ORRHEIM	2200
-> VD.GCLA	GÖRAN CLAESSON	2300
-> VD.2500TS	TOMAS SVENSSON	2500
-> VD.2600LO	LARS ODÉN	2600
-> VD.2800AP	ANDERS PERSSON	2800
-> VD.2900AEY	ANN ELMELAND-YGGE	2900
-> VD.8300SJ	STIG JOHANSSON	8300
-> VK.8800ÅL	ÅKE LINDGREN	8800
-> VD.PBB	BO BREDDING	8700
-> VD.8900HA	HANS AFZELIUS	8900
-> VD.BLM	BJÖRN LINDSTRÖM	2020
-> VD.2020BO	BO L-E OLSSON	2020
-> VD.JEE	JAN-ERIC ERICSSON	2020
-> VD.LEIFH	LEIF HÄGERSTRÖM	2020
-> VD.AXET	LARS-G AXMALM	2020
-> VD.GUNNAR	GUNNAR HINDELIUS	2602

VDNA MEXPACK

91-05-29 5:12 p.m.

GUNNEL ISAKSSON

2510 DA2N

VOLVO DATA AB
S-40508 GÖTEBORG

Phone: 031-667162

Preface

This is the project document for MVS MEXPACK creation for VDNA 1991.

Contents



Specification

The purpose of the project is to create a mini MVS MEXPACK system for distribution to VDNA during May 1991.

Project members at Volvo Data Göteborg

Olof Henningsson	2510	MVS
Mats Vinnefors	2510	JES2
Ulla-Karin Gustafsson	2510	ACF2
Anders Wilsson	2520	VICS
Holger Johnson	2230	HELP
Johan Mickelbo	2230	Net, VTAM
Jörgen Annlöv	2230	Netview, Filemon

System id and system volumes

System id is C102, with the intention of renaming later on to C101.

All data sets are using data set naming conventions for a C101 system, i.e. C1 in pos 5-6 in data set high level qualifier. Exceptions are made for those resources that already are used by C101 today.

NJEZZ will be used for NJE and Filemon. And ZZ will be used for the network definitions where the correct naming cannot be used until we implement MEXPACK in C101 (or rename C102 to C101).

The system volumes are

SY1C1X	IPL volume
SY1C11	Catalog volume
SYSC11	SYS volume

Documentation

A dataset F1STC1.PROD.DOC is included with necessary documentation for all products delivered.

Some products have not been tested in Göteborg, due to the tight time schedule. But we hope to be able to complete the installation in the system in Greensboro.

Time schedule

VT02 will be IPL'ed with the C102 system the following dates:

week 116 afternoons Wed-Fri
week 117 all afternoons
week 119 afternoons Mon-Wed

Complete system test before dumping the volumes will be done on Wednesday 91/05/08.

Product list MVS MEXPACK VDNA

	ACF5200	ACF2 base	5.2	ok3	2510
	ACF5210	ACF2 jes2	5.2	ok3	2510
5752-VS2	EAS1102	ASSEMBLER XF		ok1	2510
5752-VS2	EBT1102	BTAM			
5655-277	EDU1C01	ICKDSF	1.12.0	ok1	2510
5658-260	EER3400	EREP	3.4.2	ok1	2510
5752-VS2	EGS1102	GRAPH SUBRT. PACK			
5740-XC6	EMI2220	MICR/OCR	2.2.0		
5752-VS2	EML1102	MLWS			
5752-VS2	ESS1102	SUBSYS supp serv			
5752-VS2	ESU1102	SU BIT STRING			
5752-VS2	ESY1400	SMP4			
5752-VS2	ETC0108	TCAM			
5752-VS2	ETI1106	TIOC			
5658-260	FER3420	EREP	3.4.2	ok1	2510
5665-327	HAE2502	DF/DSS	2.5.0	ok1	2510
5665-275	HAF1228	PRINT SERV FAC	1.3.0	ok1	2510
5668-962	HAH2100	ASSEMBLER H	2.1.0	ok1	2510
5685-001	HBB3310	SP	3.1.3	ok3	2510
5668-958	HCL1310	VSCOBOLII	1.3.1	ok1	2510
5668-958	HCQ1310	VSCOBOLII	1.3.1	ok1	2510
5668-909	HDL1202	PL/1 COMMON LIB	2.3.0	ok1	2510
5665-XA3	HDP3320	DFP	3.2.0	ok3	2510
5665-402	HDV3202	ISPF/PDF	3.2.0	ok3	2510
5798-DXQ	HFU1102	ICFRU	1.1.0	ok1	2510
5665-311	HFX1112	3270 FTP TSO	1.1.1	ok1	2510
5665-356	HGD2202	GDDM	2.2.0	ok3	2520
5668-985	HHC2102	HCF	2.1.0	ok1	2230
5668-909	HHL2302	PL/1	2.3.0	ok1	2510
5685-054	HIF3202	ISPF/DIALOG MGR	3.2.0	ok3	2520
5668-909	HIL2304	PL/1	2.3.0	ok1	2510
5740-XC6	HIO1104	IOCP	2.2.0	ok1	2510
5740-XC6	HJE3313	JES2 SP	3.1.3	ok3	2510
5688-039	HLBR142	C/370 spec.lib	1.2.0	ok1	2510

5668-949	HMP1500	SMP/E	1.5.0	ok1	2510
5665-333	HNR1402	NPM	1.4.0	ok1	2230
5665-371	HOC2202	OPC/A	1.2.0	ok1	2510
5665-274	HOS1102	RMF SAM	3.4.1	ok1	2510
5665-274	HOS1103	RMF SAM	3.4.1	ok1	2510
5685-059	HOX4202	INFO SYS	4.2.0	ok1	2510
5685-060	HOY4202	INFO MGMT	4.2.0	ok1	2510
5685-059	HOZ4202	INFO SYS	4.2.0	ok1	2510
5668-909	HPL2302	PL/1	2.3.0	ok1	2510
5668-717	HPZ1202	PASCAL LIBRARY	1.2.0	ok1	2510
5665-488	HQX1300	SDSF	1.3.0	ok3	2510
5688-039	HQZ1142	C/370 Compiler	1.2.0	ok1	2510
5685-029	HRM4410	RMF	4.1.2	ok3	2510
5740-SM1	HSM1C00	DFSORT	1.11.0	ok3	2510
5685-025	HTE21D2	TSO/E ESA	2.1.1	ok3	2510
5665-289	HVT3303	ACF/VTAM XA	3.3.0	ok3	2230
5685-138	HVW1101	NETVIEW base	2.1.0	ok3	2230
	TSMR521	TSO/MON	5.2.1	ok0	2510
		PUT level 9006+			
9310-HLP		HELP		ok3	2230
9210-XFR		FILEMON		ok3	2110
9510-VPS		VPS		ok3	2510
9110-ZZS		Z system		ok0	2510

ok0 Product identified and shall be included
 ok1 Product installed in VDNA system
 ok2 Product tested in VDNA system
 ok3 Product documentation ok

High index list for MVS MEXPACK VDNA

F0SYC1	F1SYC1	F9SYC1	MVS and products close to MVS
	F1SMC1	F9SMC1	Storage mgmt
F0STC1	F1STC1	F9STC1	Standard
F0TSC1	F1TSC1	F9TSC1	TSO
	F1VTC1		VTAM
	F1VTC11		VTAM
		F9GDC1	GDDM
	F1NCC1	F9NCC1	NCP
	F1NVC1		Netview
	F1XFC1		Filemon
	F1HEC1		HELP
		F9U1C1	TMS
		F9OCC1	OPC/A

High index list for MVS MEXPACK VDNA (userid's)

V075523	2110	Jörgen Annlöv	Netview
G076258	2120	Kenneth Hansson	
G069677	2510	Gunnel Isaksson	
G057920	2510	Olof Henningsson	MVS
V022536	2510	Elisabet Jansson	
V014811	2510	Mats Vinnefors	JES2
V012671	2510	Ulla-Karin Gustafsson	ACF2
G043165	2510	Lars Danielsson	Storage Management
V012032	2520	Anders Wilsson	VICS,TSO
G049491	2230	Holger Johnson	HELP,VTAM
G075556	2230	Johan Mickelbo	VTAM
G048566	2230	Bosse Olsson	

SYS3 data sets for MVS MEXPACK VDNA

SYS3.F1STC1.PROCLIB	Std proclib (maintained by VD Gbg)
SYS3.F9STC1.PROCLIB	Std proclib (maintained by VDNA)
SYS3.F1SYC1.PROCSTC	STC proclib (maintained by VD Gbg)
SYS3.F1TSC1.LGONPROC	Logon proclib (maintained by VD Gbg and VDNA)
SYS3.F1SYC1.JES2PARM	JES2 parmlib (maintained by VDNA)
SYS3.F1SYC1.JESXPARM	JES2 backup parmlib (maintained by VDNA)
SYS3.F1U1C1.LINKLIB	TMS (UCC1) linklist library (maintained by VD Gbg)
SYS3.F1SMC1.LINKLIB	Stor. mgmt linklist library (maintained by VD Gbg)
SYS3.F1TSC1.PPCMDLIB	VD std linklist library (maintained by VD Gbg)
SYS3.F1SYC1.LINKLIB	MVS linklist library (maintained by VD Gbg)
SYS3.F9SYC1.LINKLIB	MVS linklist library (maintained by VDNA)
SYS3.F1SYC1.VPS.LINKLIB	VPS linklist library (maintained by VD Gbg)
SYS3.F1SYC1.LPALIB	Concat lpalib (maintained by VD Gbg)
SYS3.F1U1C1.LPALIB	TMS (UCC1) lpalib library (maintained by VD Gbg)
SYS3.F9SYC1.LPALIB	Concat lpalib (maintained by VDNA)

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- ALIAS----F1SYC1
- ALIAS----F9SYC1
- ALIAS----F1XFC1
- ALIAS----F1VTC1
- ALIAS----F1VTC11
- ALIAS----G069677
- ALIAS----F1TSC1
- ALIAS----F0TSC1
- ALIAS----F9TSC1
- ALIAS----F9GDC1
- ALIAS----F1SMC1
- ALIAS----F1NCC1
- ALIAS----F0STC1
- ALIAS----F1STC1
- ALIAS----F9STC1
- ALIAS----F0SYC1
- ALIAS----F9SMC1
- ALIAS----F1HEC1
- ALIAS----F9U1C1
- ALIAS----F9OCC1
- ALIAS----V012032
- ALIAS----G057920
- ALIAS----V012671
- ALIAS----V014811
- ALIAS----V022536
- ALIAS----G043165
- ALIAS----G075556
- ALIAS----G048566
- ALIAS----V075523
- ALIAS----G076258
- ALIAS----G049481
- ALIAS----V031749
- ALIAS----G040868
- ALIAS----V032150
- ALIAS----V038253
- ALIAS----G066777
- ALIAS----G063324
- ALIAS----V010833
- ALIAS----ACFUSER
- ALIAS----F1NVC1
- ALIAS----F1PUC1

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91-04-26

Övrigt som jag hoppas vi hinner med under veckan:

- * Anders behöver en del tid till för att få ordning på VICS. ✓
- * Ulla-Karin behöver tid för att fixa ACF2.
- * SYS1.BROADCAST behöver 'sync'as eller initieras e.dyl. ✓
Prata med Mats om hur man gör.
- * Allokera F1SYC1.JCLLIB, och testa att det går att köra ✓
S J,N= -kommandon.
- * T.ex. kan man försöka med S J,N=SYSDUMP, som vi också måste
få dit alla komponenter av för att tömma undan SYS1.DUMP'arna.
- * Jcl för att tömma syslog och logrec.
- * Se till att DUMPXY-jobben fungerar för tömning av smf.
- * SADUMP pgm genereras. ✓
- * Se till att val U.1 och U.3 fungerar. U.2 ska bort. U.4 vet
jag inte riktigt....
- * Kolla upp vilka uppdragskoder vi mera ska lägga in i
accountingkatalogen. Idag finns bara VV1100. Men det
kanske räcker ?
- * Fixa SM uppdragskodsregister och kataloglistfunktion,
val V.8.1 och V.8.4. Gör jag själv senare i veckan. *VSMIX pgm!*
- * Starta ett dummy-SMS. ✓ *CCLIB*
- * Val V.12 för ACF2. ✓
- * Transmit/receive-kommandona bör innehålla även NJEZZ för C102. ✓
Reapply av usermod VUTINMX efter uppdatering av source.
Se till att det kommer medtill SY1C1X.
- * IPL-instruktioner. Vilka ytterligare task ska startas ?
Åtminstone RMF. Fler ?
- * Lägga upp ett antal VDUMMY-dataset på SY1C11. Förmodligen inte ✓
alla som vi har idag på SY1VT1. Men vilka ?? Dom ska katalo-
giseras i masterkatalogen.
- * Prata med Holger om att installera HELP och med Jörgen om
att installera Filemon (så att dom inte glömmer bort det). ✓
Netview får förmodligen vänta tills senare.
- * DOKUMENTATION !!
Tjata på dom andra så dom också skriver.

Ta dom punkterna ovan som verkar enklast först.
Du får gärna ringa mig hemma om det är något mer ni
undrar.

H/Gunnel

SYIC11

lshalog

- masterlshalog ✓
- uaux ✓
- page ✓
- stgindx ✓
- dumpox ✓
- parm lib ✓
- proclib ✓
- ACF2 blump ✓

SYSC11

SYS

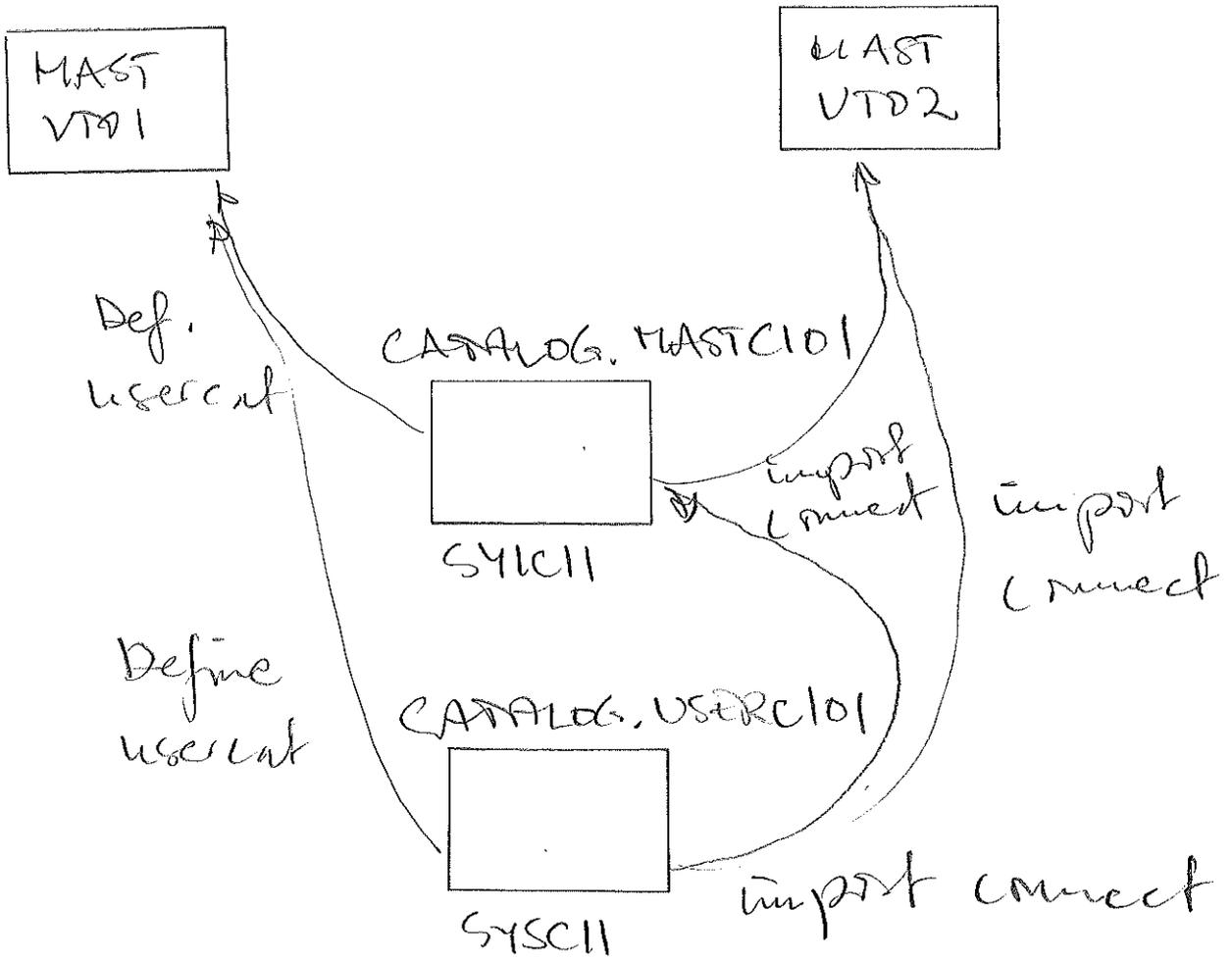
- ACF2
- broadcast ✓
- jes2 dclpt ✓
- jes2 spool ✓
- catalog user ✓
- actent ✓
- VICS-ds. ✓
- SYS3-ds

SYIC1X

IPR

producter
for CI

• V.

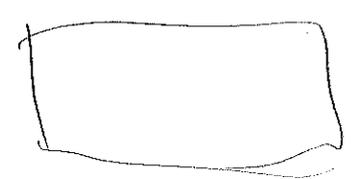


mastc101
 SYS1. - ds
 SYS3. - ds

userc101
 F1STC1
 F1SYC1
 etc.

ACTCAT
ACTCAT

CATALOG, ACTCATC1



2100:	Production/Operations	(Lars Sstr m)

2103:	Automation development	(H}kan Robertsson)
2110:	Operation technique Net - Netview, NPM, hardware...	(Bengt Rydberg)
2120:	Operation Technique MVS/VM/AS400 - MVS,VM,AS400,DB2,IMS,CICS,SM,oper. methods(ED,SAR etc.)	(Conny Blessner)
2130:	Output	(Bengt Brammesj)
2140:	Hw/planning	(Rolf L fgren)
2150:	DEC operations	(Jorma Kallanvaara)
2160:	MVS/VM/AS400 operations	(Ske Rutgersson)
2170:	Customer support/HELPdesp	(Bengt Olof Bengtsson)
2200:	Communication	(Hans Orrheim).

2210:	Local nets/installation/ work stations	(Margareta Henricsson)
2220:	Telephone switchboard	(Inger Hessel)
2230:	Sw development Net VTAM, NCP, VMF, HELP	(Ske Lindmark)
2240:	Hw development Net	(Lars G Andersson)
2250:	Tele comm.	(Hasse Oom)
2500:	EDP Technique	(Tomas Svensson)

2510:	Mainframe systems MVS, JES2, ACF2, VPS, SM, MEXPACK	(Inge Forsberg)
2520:	Interactive systems VICS/TSO, MICS, SAS, VM, CADAM, CATIA	(Bert Christensson)
2530:	DEC tech support	(Jan Axelsson)
2540:	Database systems IMS,CICS,DB2	(Lars Plomgren)
2550:	VTAM products MEMO,SESAM,DIAL-OUT,VCOM	(Ulf Linnarsson)

Volvo Data Production and
Technique Division
=====

Ronny Wester

Production/Operations 2100 Lars Sstr m

(110 persons)

Communication 2200 Hans Orrheim

(60 persons)

MEMO development 2400 Ragnar Carlstedt

(16 persons)

EDP Technique 2500 Tomas Svensson

(50 persons)

Development unit 8010 Ann Elmeland-Ygge

(10 persons)

MEXPACK (MVS EXPORT PACKAGE)
=====

Basics Complete well tested MVS + subsystems

Benefits Same sw levels => easy to share common experience
----- and easy to exchange appl systems (portability).
SMP run in one node.
VD experienced Sys Progr available.
Well co-tested systems.
Short installation time for new products if they
are available in MEXPACK.

History Volvo Components 1980
----- VME 1980
VNA 1983
VEDa (Gent) 1984
...

+ 3 non-Volvo installations in Sweden

Now Volvo Car (PVSV) Gothenburg
--- Volvo Car (PVOV) Olofst m
VME industries (VME) Eskilstuna
Volvo Flygmotor (VFA) Trollhättan
Volvo Europe (VEDa) Gent, Belgium
Volvo North America (VNA) Rockleigh, NJ

Principles
=====

Naming conventions VD standard.

All sw delivered has been run in production at Volvo Data.
VD Gbg product mix is the base for what products are
available for distribution through MEXPACK.

Distribution of MVS (IPL volume) approximately twice a
year. For other products - the distribution frequency
varies, depending on new levels, PUT level upgrades,
gens (for IMS and NCP) etc.

It is VD:s responsibility to deliver the new level(s) and
it is the customer's responsibility to install.

No updates should be done to the datasets that are
used for distributing new MEXPACK levels, i.e. SYS1-
and F1- data sets.

If local modifications are needed, please place them
in separate data sets if possible.

Corrective maintenance is seldom needed. But if -
VD will apply the PTF(s) and send updated module(s).

TSR - one person assigned as Technical Support Responsible
for each MEXPACK installation. C1 person not decided on yet.

Normally no source code distributed to MEXPACK. VD will
take any special requests into consideration.

FILEMON and MEXALETT used for distribution of all products
except the IPL volume.

MVS MEXPACK base requirements

=====

The use of the same sets of user svcs and user exits
is desirable.

Accounting catalog

Smfexits + IPLSETUP

VICS

Esoteric names WD, MD, PP, TS

C102 system
=====

SY1C11

Catalog volume

- . master catalog (catalog.mastc101)
- . SYS1.MANx
- . SYS1.PAGExx
- . Stgindex
- . SYS1.DUMPxx
- . SYS1.PARMLIB
- . SYS1.PROCLIB
- . ACF2 bkup db
- . SYS3..JESXPARM
- . VDUMMY data sets

SYSC11

SYS volume

- . ACF2 db
- . SYS1.brodcast
- . JES2 chkpoint
- . JES2 spool
- . user catalog (catalog.userc101)
- . account catalog (catalog.actcatc1)
- . VICS data sets
- . SYS1.MVSI.USER
- . SYS1.MVSI.APPL
- . Inklst/lpalst/JES2 proc data sets
- . system data sets for products included

SY1C1X

IPL volume

- Ref.
- SYS1.MACLIB (\$\$FMID)

System built during weeks 115-119. IPL:ed approx. 10 times in the VT02 LPAR.

NJE definitions NJEZZ.

Sysid C102.

Only include 'things' that we thought would be needed sofar. I.e. no CICS/IMS/DB2, no SD/SM tools.

Data set F1SYC1.MVS.MAINT used for creating base MVS system.

F1STC1.PROD.DOC.

HIGH INDEX LIST FOR MVS MEXPACK VDNA

F0SYC1	F1SYC1	F9SYC1	MVS and products close to MVS
	F1SMC1	F9SMC1	Storage mgmt
F0STC1	F1STC1	F9STC1	Standard
F0TSC1	F1TSC1	F9TSC1	TSO
	F1VTC1		VTAM
	F1VTC11		VTAM
		F9GDC1	GDDM
	F1NCC1	F9NCC1	NCP
	F1NVC1		Netview
	F1XFC1		Filemon
	F1HEC1		HELP
		F9U1C1	TMS
		F9OCC1	OPC/A

HIGH INDEX LIST FOR MVS MEXPACK VDNA (USERID'S)

V075523	2110	J rgen Annl v	Netview
G076258	2120	Kenneth Hansson	
G069677	2510	Gunnel Isaksson	
G057920	2510	Olof Henningsson	MVS
V022536	2510	Elisabet Jansson	
V014811	2510	Mats Vinnefors	JES2
V012671	2510	Ulla-Karin Gustafsson	ACF2
G043165	2510	Lars Danielsson	Storage Management
V012032	2520	Anders Wilsson	VICS,TSO
G049491	2230	Holger Johnson	HELP,VTAM
G075556	2230	Johan Mickelbo	VTAM
G048566	2230	Bosse Olsson	

SYS3 data sets for MVS MEXPACK VDNA

SYS3.F1STC1.PROCLIB	Std proclib (maintained by VD Gbg)
SYS3.F9STC1.PROCLIB	Std proclib (maintained by VDNA)
SYS3.F1SYC1.PROCSTC	STC proclib (maintained by VD Gbg)
SYS3.F1TSC1.LGONPROC	Logon proclib (maintained by VD Gbg and VDNA)
SYS3.F1SYC1.JES2PARM	JES2 parmlib (maintained by VDNA)
SYS3.F1SYC1.JESXPARM	JES2 backup parmlib (maintained by VDNA)
SYS3.F1U1C1.LINKLIB	TMS (UCC1) linklist library (maintained by VD Gbg)
SYS3.F1TSC1.PPCMDLIB	VD std linklist library (maintained by VD Gbg)
SYS3.F1SYC1.LINKLIB	MVS linklist library (maintained by VD Gbg)
SYS3.F9SYC1.LINKLIB	MVS linklist library (maintained by VDNA)
SYS3.F1SYC1.VPS.LINKLIB	VPS linklist library (maintained by VD Gbg)
SYS3.F1SYC1.LPALIB	Concat lpalib (maintained by VD Gbg)
SYS3.F1U1C1.LPALIB	TMS (UCC1) lpalib library (maintained by VD Gbg)
SYS3.F9SYC1.LPALIB	Concat lpalib (maintained by VDNA)

VD naming conventions System Datasets.

SYS1: IPL volume data sets + SYS1.PARMLIB, PROCLIB, MANx etc.
==== needed for IPL.

SYS3: IBM/VD/OEM products needed for IPL. E.g. JES2 proclibs
==== Netview ds, linklist libraries.

SYS1- and SYS3- data sets reside on special volumes,
SYSxxy: xx= C1 y= number

Fxyzznm Other system data sets. E.g. IMS, DB2, TSO/VICS etc.
=====

x= 0 distribution between nodes
1 production (Gbg responsible)
2 test & installation (Gbg responsible)
8 Rookleigh responsible
9 G'boro responsible

yy= product identification
E.g. TS for TSO, IM for IMS etc.
Ref F1SMVT.IX.PRODID (VT01) or
F1SMC1.IX.PRODID (C102)

zz= environment e.g. C1, VT

n= cpu in environment

m=

PRODUCT LIST MVS MEXPACK VDNA

	ACF5200	ACF2 base	5.2 ok3	2510
	ACF5210	ACF2 jes2	5.2 ok3	2510
5752-VS2	EAS1102	ASSEMBLER XF	ok1	2510
5752-VS2	EBT1102	BTAM		
5655-277	EDU1C01	ICKDSF	1.12.0 ok1	2510
5658-260	EER3400	EREP	3.4.2 ok1	2510
5752-VS2	EGS1102	GRAPH SUBRT. PACK		
5740-XC6	EMI2220	MICR/OCR	2.2.0	
5752-VS2	EML1102	MLWS		
5752-VS2	ESS1102	SUBSYS supp serv		
5752-VS2	ESU1102	SU BIT STRING		
5752-VS2	ESY1400	SMP4		
5752-VS2	ETC0108	TCAM		
5752-VS2	ETI1106	TIOC		
5658-260	FER3420	EREP	3.4.2 ok1	2510
5665-327	HAE2502	DF/DSS	2.5.0 ok1	2510
5665-275	HAF1228	PRINT SERV FAC	1.3.0 ok1	2510
5668-962	HAH2100	ASSEMBLER H	2.1.0 ok1	2510
5685-001	HBB3310	SP	3.1.3 ok3	2510
5668-958	HCL1310	VSCOBOL II	1.3.1 ok1	2510
5668-958	HQ1310	VSCOBOL II	1.3.1 ok1	2510
5668-909	HDL1202	PL/1 COMMON LIB	2.3.0 ok1	2510
5665-XA3	HDP3320	DFP	3.2.0 ok3	2510
5665-402	HDV3202	ISPF/PDF	3.2.0 ok3	2510
5798-DXQ	HFU1102	ICFRU	1.1.0 ok1	2510
5665-311	HFX1112	3270 FTP TSO	1.1.1 ok1	2510
5665-356	HGD2202	GDDM	2.2.0 ok3	2520
5668-985	HHC2102	HCF	2.1.0 ok1	2230
5668-909	HHL2302	PL/1	2.3.0 ok1	2510
5685-054	HIF3202	ISPF/DIALOG MGR	3.2.0 ok3	2520
5668-909	HIL2304	PL/1	2.3.0 ok1	2510
5740-XC6	HIO1104	IOCP	2.2.0 ok1	2510
5740-XC6	HJE3313	JES2 SP	3.1.3 ok3	2510
5688-039	HLBR142	C/370 spec.lib	1.2.0 ok1	2510
5668-949	HMP1500	SMP/E	1.5.0 ok1	2510
5665-333	HNR1402	NPM	1.4.0 ok1	2230
5665-371	HOC2202	OPC/A	1.2.0 ok1	2510
5665-274	HOS1102	RMF SAM	3.4.1 ok1	2510
5665-274	HOS1103	RMF SAM	3.4.1 ok1	2510
5685-059	HOX4202	INFO SYS	4.2.0 ok1	2510
5685-060	HOY4202	INFO MGMT	4.2.0 ok1	2510
5685-059	HOZ4202	INFO SYS	4.2.0 ok1	2510
5668-909	HPL2302	PL/1	2.3.0 ok1	2510
5668-717	HPZ1202	PASCAL LIBRARY	1.2.0 ok1	2510
5665-488	HQX1300	SDSF	1.3.0 ok3	2510
5688-039	HQZ1142	C/370 Compiler	1.2.0 ok1	2510
5685-029	HRM4410	RMF	4.1.2 ok3	2510
5740-SM1	HSM1C00	DFSORT	1.11.0 ok3	2510
5685-025	HTE21D2	TSO/E ESA	2.1.1 ok3	2510
5665-289	HVT3303	ACF/VTAM XA	3.3.0 ok3	2230
5685-138	HVW1101	NETVIEW base	2.1.0 ok3	2230
	TSMR521	TSO/MON	5.2.1 ok0	2510
		PUT level 9006+		
9310-HLP		HELP	ok3	2230
9210-XFR		FILEMON	ok3	2110
9510-VPS		VPS	ok3	2510
9110-ZZS		Z system	ok0	2510

ok0 Product identified and shall be included
ok1 Product installed in VDNA system
ok2 Product tested in VDNA system
ok3 Product documentation ok

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: DCIMPL 90-12-19

Application Portability

Move/copy an application

- a) Program
- b) Data
- c) Operations documentation
- d) Security

- a) Different types Batch/IMS/CICS/DB2/VICS(TSO)

Different languages Cobol REXX ISPF RPG FORTRAN

Loadmodules or Sourcecode

Subroutines, PSB's etc

--> In all Volvo Data DC's the types have to be att the same level.
Have the same exits.

- b) --> The Volvo Data Storage Concept must be used in all nodes.
That includes products (DF/SMS, HSM, DSS) and Storage Groups,
Storage Classes etc.

- c) Planning tools, Distribution tools, Restart information,
Account Codes, Procedure Construction, Exits

--> The tools/products and some of the methods must be the same
within the Volvo Data Datacenters.

Remote Operations

- a) Automation --> NETVIEW
- b) Performance Monitors --> OMEGAMON DEXAN

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Subject: DCIMPL 90-12-19

VOLVO DATA

S T A N D A R D S M E X P A C K	AUTOMATION								
	NETVIEW								
	SU/SF								
	OPERATIONS/MAINTENANCE METHODS d)								
	a)	OPC/A!	SAR ED VPS	TMON	DELTA/IMS IMF	DB2 MGR!	TSOMON	TPREG METHODS	
		BATCH		CICS	IMS	DB2	VICS		
							GDDM		
	b)	VD STORAGE MANAGEMENT c)							
	HSM DSS								
	COBOL FORTRAN PL/1 REXX ISPF							NCP	
ACF2							SSP		
MVS VTAM DFP TSO/E RMF ASM-H							EP		

Notes.

- a) CC Company Code, Naming Conventions (DataSet, Program, Subsystems, Procedures etc.
PD-projects working to get the dokumentation and standards in shape.
- b) Documentation under work. MEXPACK is both products and methods
- c) Documentation is under work, will be completed February 1991.
- d) Documentation under work for Operations methods. There are some dokumentation in the application areas for IMS and DB2.

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: DCIMPL 90-12-19

Implementation in VGHT O-environment

- Steps
- 1) Create MEXPACK base for VDNA
 - 2a) Install MEXPACK Base in VDNA testmachine
 - b) Adjust VGHT productionssystem to MEXPACK Base System
 - 3) Create MEXPACK CICS/IMS/DB2/VICS
 - 4) Put MEXPACK Base in production.
 - 5a) Install VD Batch in VDNA Testmachine
(Jobclasses, SMF-exits, Jobcard, Sysoutclasses)
 - b) MEXPACK CICS in VDNA testmachine
 - c) MEXPACK IMS in VDNA testmachine
 - d) MEXPACK DB2 in VDNA testmachine
 - e) MEXPACK VICS in VDNA testmachine
 - 6a) Put VD Batch in production
 - b) MEXPACK CICS in production
 - c) MEXPACK IMS in production
 - d) MEXPACK DB2 in production
 - e) MEXPACK VICS in production

Replies to Volvo Data North America MEXPACK proposals

91-10-03

Bert Christensson
Inge Forsberg

Summary

Volvo Data does not see MEXPACK as the perfect solution There are lot's of things that has be documented and taken care of. The 'Common Platform' in the GGG-project will focus on these changes. Therefor we intend to keep the VDNA proposals live and use it as input to 'Common Platform'

Proposal 1

Volvo Data does not use the method of having one set of software to be used by different LPARs and there are no plans to use this method.

We don't find the method of running a number LPARs on the same set of software as simple. It will instead be more confusing and harder for Tech Support and Operations. If we want to have the best possible quality we have found that it is better to isolate critical resources like DASD. It is more to loose on one single stop than to save on DASD when using this method.

If somebody by accident shutdowns one system the result will be all three system going down.

If you get a hardware failure on a shared device 3 systems will go down.

For the moment VD uses shared dasd and one set of software only for products that needs to be shared between LPARS. ie: Automatic Tape Library Control File

Proposal 2

The method to do maintenance for VDNA has been agreed upon together with Ed Deloye.

For every MEXPACK level a copy of the target and dlibs CSI's will be sent. When applying maintenace to the MEXPACK system in VT01, these ptf's and sample JCL are sent to Ed. Then VDNA can apply these ptf's on the VDNA systems.

- If VDNA wants to apply another ptf they should first contact VD. An APPLY check can be run on the MEXPACK VT01 system.

Not tested in prod system.

Proposal 3 and 5

VD does not for the moment have all documentation for productinstallations and exits.

It is the intention in the GGG-project to go throu all products to see that all documentation necessary exists.

VD does not distribute source code. The reason for this is that VD needs to have the whole picture to be able to deliver the best softwarequality as possible. However if there are needs to change exits, VD are willing to discuss this and implement the changes needed. Concerning the IEFU83/IEFU84 exit, that exit does more things than cutting SMF-records. It is a vital part of Accounting. There are some cleanup to be made in the Volvo Data exits. The cleanup is planned but with no dates.

Proposal 4

All datasets on the IPL-volume are node independent. IBM standard distribution is used. Exception is SYS1.ISPF datasets.

The MEXPACK concept assumes that the active SYS1.PARMLIB and SYS1.PROCLIB isn't located on the IPL volume. However, it is up to the local installations who is responsible of their quality to use the method they want. We would like to discuss this proposal further in the GGG-project.

Proposal 6

This should be handled by SMS, which will take away the needs for EDT-gens. VD will contact Storage Manager at VDNA to set up a mini SMS environment.

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Subject: proposal svar 91-09-30

Inledning:

Våra svar på respektive 'proposal' är enbart relaterade till MEXPACK MVS, dvs dom produkter som finns på IPL-packen.

Några av frågorna tar upp punkter som berör IPL-packen, och som i och för sig är intressanta för en vidareutveckling av MEXPACK/GGG-samarbetet. Men vi ser det som viktigt att inte införa för många ändringar på en gång, utan vill först gå vidare med installation av MEXPACK med i stort sett nuvarande metod, för att sedan under GGG-projektet gå vidare med dom förändringar som kan tänkas förbättra samarbetet oss emellan.

Proposal 1.

En IPL-volym med samtlig software för någon av dom tre nya LPAR byggs denna veckan. Mats och Ed har gått igenom vilka produkter som inkluderats.

Beträffande förslaget att köra 2 (eller så småningom 3) LPAR's från samma IPL-packe:

Vi gör inte så idag, och vi har inga planer på att göra det i framtiden. Vi anser att fördelarna med att ha ett så 'enkelt' och okomplicerat system som möjligt, uppväger nackdelarna med den extra kostnaden för disk.

Vi anser alltså inte att deras förslag är ett 'enkelt' alternativ, utan snarare att det komplicerar livet för både systemfolk och operatörer.

Dom stora nackdelarna (som vi ser det) är:

- ev. hw-problem drabbar 2 (eller 3) system i st.f. 1
- ev. hanteringsfel ('mänskliga faktorn') kan man aldrig helt gardera sig mot, och det är ännu värre att riva två eller tre system i stället för bara ett. Kan man täcka alla eventualiteter för att göra systemet helt 'Cliff-proof' ?

Om VDNA skulle välja att köra flera system från samma IPL-volym, så har vi just nu följande punkter som behöver beaktas:

- Zap av high level qualifier i GDDM, ACF2 (module ACFFDR)
- DFSORT moduler i SYS1.LINKLIB/SYS1.LPALIB
- Lämplig hantering av MVSCP IODEF

Proposal 2.

Vi har kommit överens om en arbetsmetod för hur vi ska arbeta, tillsammans med Ed:

För varje ny MEXPACK-nivå (för närvarande bara 1-2 ggr/år), skickas kopia av smpe target- och dlib-csi'er med till VDNA. Vid ev. APPLY av PTF(er) på MEXPACK-systemet i VT01, skickas dessa plus exempeljcl och memo till Ed. På så sätt har VDNA möjlighet att hålla exakt samma status på sitt MEXPACK-system, som det som finns i VT01.

Om VDNA behöver lägga på maint, görs detta normalt först efter kontakt med VD Gbg, men ifall det är bråttom, och

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Subject: proposal svar 91-09-30

vi inte är här, så kan VDNA köra en APPLY CHECK på MEXPACK-systemet i VT01, för att verifiera att PTF(erna) 'går på'.

I samband med att Volvo Data påbörjar arbete med ny (nästa) MEXPACK-nivå, kommer VDNA:s current-system inte att vara tillgängligt online (bara på tejp). Vi meddelar VDNA (Ed) när vi gör detta.

Undantag: Smp-information för JES2 och sdsf, är inkluderade i ovan nämnda target- och dlib-csi'er. Men eftersom JES2 inte körs från packen, och det ofta skiljer månader (eller halvår) mellan smp apply och distribution av färdigt JES2, så kan ovan beskrivna metod inte användas för JES2/sdsf (och dom ACF2-beroende JES2-exitarna). För dessa gäller att VD Gbg kontaktas, och hanterar apply, och nya laddmoduler.

Propsal 3 + 5.

Vi inser behovet från VDNA att få extra mycket dokumentation/information från VD Gbg, och vi ska göra vårt bästa för att förse dem med så mycket info som möjligt. Men dokumentation har inte varit prioriterat inom MEXPACK-arbetet, och inte heller efterfrågat från våra andra MEXPACK-kunder, så det kan fortfarande finnas brister här och där.

Vi har haft som princip att inte skicka source till dom enskilda MEXPACK-installationerna för att inte råka i konflikt med olika nivåer på centrala exitar o.dyl. I stället är vi alltid öppna för att inkludera alla önskemål i vår centrala kod. Detta gäller fortfarande för MEXPACK-leveransen, men i GGG-projektet kommer vi att göra ett fortsatt arbete för att identifiera alla komponenter, och se till att nödvändig information/dokumentation finns tillgänglig för alla berörda.
(För den som vet var man letar, så finns samtlig sourcekod med i smpsts'et.)

Propsal 4.

Alla datasetsnamn på IPL-volymer är redan nod-oberoende. IBM standard distributionssätt har använts. Undantag är SYS1.ISPF-dataseten där ISPF-komponenterna från ett antal produkter (se separat info i F1STC1.PROD.DOC) har kopierats till gemensamma bibliotek. MEXPACK-konceptet förutsätter att dom aktiva SYS1.PARMLIB/SYS1.PROCLIB INTE ligger på IPL-packen. Ev. nödvändiga uppdateringar till SYS1.PARMLIB/SYS1.PROCLIB förmedlas genom memoinformation i samband med distribution av ny MEXPACK-nivå. Tanken är också att varje MEXPACK-installation äger och tar helt ansvar för alla dataset som behövs för att garantera tillgänglighet och säkerhet i deras system. Volvo Data Gbg, skickar enbart memoinformation, samt ev. (i de fall det anses lämpligt) exempel på nya procedurer, parmlibmedlemmar o.dyl. I det fall VDNA skulle vilja utnyttja gemensamma bibliotek (PARMLIB/PROCLIB) på IPL-volymer, för två eller flera LPAR's, enligt det förslag som nämns i Proposal 4, så är vi villiga att diskutera detta för att komma fram till

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Subject: proposal svar 91-09-30

lämplig hantering, men vi ser det som ett steg i GGG-samarbetet, snarare än en punkt i MEXPACK-implementationen.

Proposal 6.

Anledningen till frågan är förmodligen mitt MEXPACK-dokument från i våras, som säger att esoteric names PP, MD, TS och WD måste finnas. Och skälet är alla standardprocedurer och clistor/rexx'ar från framförallt 2540 för IMS/CICS/DB2, men förmodligen även en del av våra egna, utnyttjar våra gamla pooler. Ev. även något beroende i VICS - minns inte just nu.

Pratade nyss med Lasse som tycker att lösningen är SMS. Om Vern Chanda har tid (och disk) för att sätta upp iallafall en liten SMS-miljö för att hantera dessa allokeringar, så borde vi kunna slippa edtgen'ar i C101.

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Subject: VDNA ansvariga 91-09-17

The following persons are responsible for mainframe software at VDNA:

Ed Deloye	MVS, JES2, Other SW	Main responsible for C101
Lou Ovittore	MVS, JES2, Other SW	Main responsible for R101
Dennis Joebgen	ACF2, Security, InfoMan, VM, PDM	
Vern Chanda	Hardware, Other SW, Tape & Dasd	related software
Tim Perkins	Performance, Tuning, Co-Project	leader for XA to MVS conversion for R101, Billing

Lynn Delacour	DB2 (IMS, CICS backup & backup for Brew)	
Brewster Evans	VTAM, Netview, MEMO, SESAM, VPS	
Steve Morono	CICS	
David Nields	IMS	

Georgia Parsons	Storage Management, Quality Assurance	
Kent Becraft	Storage Management, Quality Assurance	

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: MEXPACK system 91-04-04

--- Received from VD.2510GI 031-667162 91-04-03 15.56
 -> VDNA.1068ED EDMOND N. DELOYE 001068

OK. We'll use C102 and plan for a rename to C101. Do you have any other questions so far concerning the MVS MEXPACK ? I assume you read the MEXPACK documentation. But it is rather brief, so I guess there are a lot of things that you need to know more about ?

Gunnel

--- Received from VDNA.ED 919-279-2684 91-04-03 08.46
 -> VD.GI GUNNEL ISAKSSON 2510

Hi,
 I know that we will have to have C101 as the final production SYSID, so let's start planning from that point. It won't make any difference about the test system C102 or C104 is OK.

Ed

--- Received from VD.2510GI 031-667162 91-04-03 14.57
 -> VDNA.1068ED EDMOND N. DELOYE 001068

Hi,

Well as long as we stick to the first two characters being C1, and start naming all datasets with C1 in position 5 and 6 of the high level qualifiers, I think it is not a big problem to rename the sysid from C102 to C101. But of course it is nice if we can avoid unnecessary job.

My thought was actually to keep the C102 for the production system. It should be OK - we have the VD cpu today, with sysid VD02 and no plans to change it even if there is no VD01.... But it is all a matter of how we plan to migrate your production system into the MVS MEXPACK system. I guess we may need to run both C101 and C102 (?) in parallell for quite a long time.

So the question is more if it may cause you problems (mixups etc.) if the MEXPACK machine is called C102, since your MVS test cpu today has that sysid. An alternative would be to use sysid C104 for the MEXPACK system. But then perhaps we would want to rename it to C101 in the future ? I'm not at all certain of how we will bring about the implementation of MVS MEXPACK in your production system, but I guess we'll need to discuss that together.

Gunnel

--- Received from VDNA.ED 919-279-2684 91-04-02 11.08
 -> VD.GI GUNNEL ISAKSSON 2510

Hi Gunnel,

The test system SYSID is C102, but the production system SYSID is C101. How difficult is it going to be to migrate fro C102 ti C101?

For the answers to the network questions I will forward a copy of this to Brew Evans.

Ed

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: MEXPACK system 91-04-04

--- Received from VD.2510GI 031-667162 91-04-02 17.01

-> VDNA.ED EDMOND N. DELOYE 001068

Hi,

We're just about to start building the mini MVS MEXPACK system that we have discussed. So I guess I'll need to ask you some questions during the following weeks....

And here are the first ones:

What about sysid for the new machine ? The reason for asking this first, is that the complete naming convention is built depending on the name of the cpu. So we'll need to name the volumes according to what sysid we use. And also some of the system data sets have their names after the naming convention, so once we have decided it is pretty hard to change the name of the cpu (without violating the naming conventions of course).

I think you are using C102 today for your MVS test cpu ? I talked to some of the communications people the other day, (Bosse Olsson and Johan Mickelbo) and they say that it would be nice if we could use the same network definitions for the new MEXPACK as you use today for C102. That is, at least the same subarea address and the rest of the stuff that is necessary for us from Göteborg to be able to reach the MEXPACK machine when it is started in VDNA. What are your opinions about that ? And if that would be OK, maybe we could use sysid C102 for the new MEXPACK system as well ? Or would that cause unnecessary confusion for you ?

Hälsningar,
Gunnel

PS. I'll get back to you this week with a list of what products we expect to include in the MVS MEXPACK system. Some of them may not be working on delivery, but can be fixed later if we can arrange it so that we can reach the machine via the network.

By the way, do you have any other questions so far, concerning the MVS MEXPACK system ?

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: VTAM Backlevel 91-08-06

--- Received from VD.BC +46-31-667506 91-08-06 09.34
 -> VD.GI GUNNEL ISAKSSON 2510
 --- Received from VD.ALL 031-667643 91-07-16 14.42
 -> VDNA.1068RC RONALD CASEY 001068
 CC
 -> VD.TS TOMAS SVENSSON 2500
 -> VD.2520BC BERT CHRISTENSSON 031-667506 2520
 -> VDNA.1068BE BREWSTER EVANS 001068
 -> VD.BO BOSSE OLSSON 2230

Ron,

So far we have not seen any real advantage with ESA-version comparing with XA-version that can motivate the extra cost. But sometimes we have to do the upgrade anyway, probably during next year. But of course if anything happens that require ESA we will make the upgrade earlier.

/Åke

--- Received from VDNA.CASEY 919-279-2639 91-07-16 08.11
 -> VD.TS TOMAS SVENSSON 2500
 -> VD.2520BC BERT CHRISTENSSON 031-667506 2520
 -> VD.ALL ÅKE LINDMARK 2230
 -> VDNA.1068BE BREWSTER EVANS 001068

Bert, Ake,

We are considering staying with the ESA versions of Netview and Vtam when we install Mexpack. When will Mexpack provide these versions of software?

Ron Casey

--- Received from VDNA.BREW 919-279-2630 91-07-15 21.30
 -> VDNA.1068RC RONALD CASEY 001068

Ron,

Perhaps this could be a problem. But don't we have the liberty to contact IBM as always? Brew

--- Received from VDNA.CASEY 919-279-2639 91-07-15 16.36
 -> VDNA.1068BE BREWSTER EVANS 001068

Brew,

I understand. But as the Mexpack is upgraded and we install it we will not be able to take advantage of any Vtam or Netview testing in Sweden since we must install our ESA versions and we could have a problem between the new Mexpack and our ESA and not be able to test extensively as Sweden. Your thoughts?

Ron Casey

Ron,

This is true. But our version has already been tested.

Brew

--- Received from VDNA.CASEY 919-279-2639 91-07-11 07.58
 -> VDNA.1068BE BREWSTER EVANS 001068

Bruce,

How can you test these ESA Versions of the software when we receive

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: VTAM Backlevel 91-08-06

e a new Mexpack. If we use the same version of the VTAM and Netview software in Mexpack then Sweden will already have tested all the Mexpack software. Ron Casey

--- Received from VDNA.BREW 919-279-2630 91-07-09 14.04
-> VDNA.1068RC RONALD CASEY 001068

Ron,

Yes, they must go together.

Brew

--- Received from VDNA.CASEY 919-279-2639 91-07-09 13.44
-> VDNA.1068BE BREWSTER EVANS 001068

Does either of these systems have a Prerequisite. i.e Must you have the Vtam ESA to have Netview ESA?

Ron

--- Received from VDNA.BREW 919-279-2630 91-07-09 13.05
-> VDNA.1068RC RONALD CASEY 001068

Ron,

We would have to retain parts of the MVS CSI and dlib/target libraries. I do not see this as a major problem.

Regards, Brew

--- Received from VDNA.CASEY 919-279-2639 91-07-09 09.55
-> VDNA.1068BE BREWSTER EVANS 001068

Bruce,

How much trouble will this be from an installation and maintenance perspective? Initially and ongoing? If we maintain the Mexpack Vtam and Netview as proposed how much work will this eliminate in Mexpack installation and ongoing Maint.

Ron

-> VDNA.1068RC RONALD CASEY 001068

Ron,

It is difficult for me to say what we will lose by going to VTAM 3.3 XA since we migrated from V3.1.1 to V3.3 ESA (skipping V3.2 XA). We do not have the old manuals. I suggest that we install VTAM ESA (and NETVIEW ESA if necessary) on top of MEXPACK.

Regards, Brew

--- Received from VDNA.CASEY 919-279-2639 91-06-21 09.27
-> VDNA.1068KS KING SPAINHOUR 001068

Bruce,

Please investigate the manual questions and performance issues King notes. Please give me your thoughts on the other issues mentioned by King.

Ron Casey

--- Received from VDNA.1068KS 919-279-2672 91-06-21 09.23
-> VDNA.1068CT CLIFFORD THOMPSON 001068
-> VDNA.1068BE BREWSTER EVANS 001068
-> VDNA.1068RC RONALD CASEY 001068

Ron: You are currently licensed for:

ACF/VTAM	XA V3	5665-289	Å2620	Single Version Charge
ACF/SSP	V3	5665-338	709	
NETVIEW	XA V1	5665-362	1580	Single Version Charge
NPM		5665-333	773	
X.25	V2	5668-719	514	
ACF/VTAM	ESA V3.3	5685-093	3905	
NETVIEW	ESA V1.3	5685-152	1750	

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: VTAM Backlevel 91-08-06

You should have been getting the service for the old products on your put tapes. I do not know if you have kept the documentation for the older products.

Remember the newer product had performance enhancements
You have seen a reduction in storage both real and virtual for both VTAM and Netview. As I remember you got back 700 frames in the netview address space. I also believe there was a CSA saving which could be a problem at this time. You should:

1. Review the function you are using to insure the old product has what is needed.
2. Understand Storage increases that will occur when going to the older release
3. Understand the additional CPU usage.
4. Insure you have the manuals for the old release.
5. There may be some release dependent maintenance that may need to go on other components. CICS, IMS, MEMO, etc.
6. Insure the old release is supported for the planned period of time it will be used. 112
7. You will need to check the message formats for needed automation changes.
8. You may want to consider the cost of moving backwards and then forwards and most important the man power.
9. This change will require network outage which may be a consideration.

Hope this helps in you planning King

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: naming std 91-07-02

=> VNA.VNAPMR

REEDYK, PHYLLIS M.

MIS-153

Hi Phyllis,
Fortunately I had saved a copy of a memo, answering the same question from Ed in April, so I'm enclosing it last in this memo.

```
--- Received from VNA.VNAPMR 201-768-7300 91-07-01 16.09
  -> VD.GI GUNNEL ISAKSSON 2510
--- Received from VNA.VNAPMR 201-768-7300 91-07-01 16.08
```

Hi gunnel,

Can you get me a copy of the volvo data naming for shared datasets between two systems.

thank you.
phyllis

```
--- Received from VD.2510GI 031-667162 91-04-17 17.03
  -> VDNA.1068ED EDMOND N. DELOYE 001068
```

Hi,
Yes, that seems like the best way to do it (at least that is how we are doing it).
Since we are now connecting six MVS systems (one of them our MVS test IPL system) and one VM system with common datasets for STAM (the predecessor to MIM), TMS and ACS (sw for the tape libraries) in one environment, we don't feel altogether satisfied with our naming standards.
But here is what we are using right now:

VOLUME(S):

SHRxyy x = we are using A,B,V for the three different machine halls (DA, DB and PVSV)
yy = consecutive numbers 01,02 etc.
Example: SHRB01

CATALOG(S):

Catalog.xxyyzz
xx = SM since the Storage Management group are responsible for the catalogs
yy = SH for SHared catalog
zz = DA or DB or SV for the different buildings
Example: Catalog.smsbdb

Alias:

Fxyyzzww x = 1 for Gbg datasets and 9 for datasets that G'boro is responsible for
yy = SY for datasets that the MVS group is responsible for (e.g. STAM or MIM)
zz and ww = two of the environments that are included in the complex. In your case it

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Subject: naming std 91-07-02

would be C1R1 (or R1C1).
Example: F1SYVDV1 (DB Gbg)
F9SYC1R1 (C1 G'boro)

Hope you understand my explanations, if not please ask
again.

Hälsningar,
Gunnel

--- Received from VDNA.ED 919-279-2684

91-04-17 09.56

-> VD.GI
Hi Gunnel,

GUNNEL ISAKSSON

2510

I have a requirement to have 2 DASD devices shared between the C101, C102 and R101 LPARs. These devices will contain load libraries and control datasets for products that will be supported by VDNA. The first product that will be placed on there is Multi-Image Manager that will provide the facility to share tape drives between the LPARs. I need some suggestions on how I should name the Volumes and the datasets. Also, I think the best way to handle the cataloging of these datasets is to place a catalog on one of the volumes, connect it to all Systems and set up the appropriate aliases. Can you give me some suggestions for the catalog names, etc.

Thanks
Ed

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: MEXPACK VDNA

91-09-17

--- Received from VD.2510GI 031-667162

91-05-28 19.44

Hej.

Jag har precis kommit tillbaka från ett besök i Greensboro, USA hos det nybildade Volvo Data North America. Avsikten var att påbörja kontakterna för att införa MEXPACK även i C1-miljön, som hittills levt sitt eget liv. Månaden innan jag åkte hade vi byggt ett litet tre-packe system med MVS bas (inklusive Netview och bl.a. kompilatorerna, dvs dom produkter vi kör från IPLpacken) + VPS, HELP och Filemon, med bistånd från avdelningarna 2520, 2110 och 2230.

Och läget är nu ungefär följande:

VDNA kommer att vidtaga följande åtgärder under dom närmaste veckorna/månaderna (den MVS-ansvarige personen Ed Deloye hoppas på 4-6 veckor), med det system jag levererade.

- . Backa av VICS + smfexitar + accountingkatalog.
- . Köra mot deras ordinarie ACF2 databaser.
- . Lägga in deras JES2 3.1.1 (i st.f. det JES2 3.1.3 som vi levererade) + JES2 exitar + VPS.
- . Lägga in övriga produkter, som inte finns för leverans via MEXPACK. Ex.vis Syncsort, Info/Sys/Man V3, IOF, OGL R2, RMDS, Console master, IAM, dyn steplib, Automate...
- . Anpassa nuvarande TSO/ISPF miljö map ny namnstd på dataset, för logonproc'ar, startclistor och deras 'user customization CLISTS'.
- . Gå igenom och anpassa samtliga MVS usermoddar, inklusive customisering av bl.a. GDDM och kompilatorerna.
- . Gå igenom och anpassa nätverksprodukter och nätverksdefinitioner för VTAM, Netview, NPM, HELP.
- . Anpassa user svc'er till VD standard.
- . Gå igenom och anpassa user smf record typer.
- . Gå igenom och anpassa sys1.parmlib/sys1.proclib.
- . Gå igenom och anpassa nödvändiga ACF2 parametrar map ACF 5.2.
- . IPL:a MEXPACK (efter ovan nämnda avbackningar och anpassningar) i produktion, dvs såsom C101.

Därefter finns ett antal aktiviteter, av större och mindre omfattning, som kommer att bli aktuella:

- . Konvertering från JES2 3.1.1 till JES2 3.1.3 inklusive anpassning/koordinering av JES2 exitar. VPS MEXPACK.
- . Konvertering av useridstd (de använder idag en std som t.ex. gjorde att jag fick id TTGSGXI) till UTxxxxx för TSO + implementation av VICS.
- . Konvertering till VD std datasetsnamnstd för systemnära dataset.
- . Implementera VD smf exitar och accountingkatalog.
- . Implementera VD ACF2 standards.
- . MEXPACK för IMS, DB2, CICS, SUSF....

De senare punkterna är varken prioriterade eller tidssatta ännu. Och de utgör inte en fullständig lista, men det är en början för vad som dom (och vi) kommer att behöva jobba med, för att nå målet MEXPACK för VDNA.

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: MEXPACK VDNA

91-09-17

Vilka punkter som tillkommer, är ju sedan delvis beroende av de samordningsdiskussioner, som kommer att hållas mellan VD Gbg, VEDA Gent och VDNA G'boro i Göteborg nästa vecka.

I vilket fall som helst verkar det som om vi här i Göteborg kommer att behöva bidra med lite av varje för att dom ska kunna komma vidare. Räkna alltså med en del telefonsamtal och memon från våra kollegor i Greensboro till en del av er framöver.

Om någon vill veta mera om hur det var och vad dom tyckte, eller vem man ska vända sig till med ev. information eller frågor, så hör gärna av er till mig. Mitt intryck är att teknikerna där borta är mycket duktiga och mycket trevliga, och jag tror att även vi kan ha en hel del att lära oss från en del av dem.

Om jag glömt någon i min DL-lista nedan, som borde varit med, så skicka gärna memot vidare.

Gunnel

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-> VD.HAS	ARNE HASSELGREN	2202
-> VD.ALL	ÅKE LINDMARK	2230

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: MEXPACK VDNA 91-09-17

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-> VD.UFFEN	ULF LINNARSSON	2550
-> VD.TS	TOMAS SVENSSON	2500

Issuer: 2520 BERT CHRISTENSSON 031-667506 +46-31-667506

Subject: SMF R101 91-05-06

--- Received from VDNA.TIMBOB 919-279-2671 91-04-30 12.55

-> VD.2520BC BERT CHRISTENSSON 031-667506 2520

Bert,

When Dave was here early on in the first phase of planning, he had occasion to sign on to and fix some problem with SMF, specifically, some record type was (or wasn't) being recorded. I queried him about what approach was used and he told me Volvo Data Sweden supplied some program(s) and a special IEFU83 exit to control which records are written. I asked him about SMFPRMxx in SYS1.PARMLIB, since it gives you the control you need over record types. I also relayed to him that this had been available for several years... since MVS/SP1.?. I worked in an MVS/SP1 shop from 1983 to 1987 and it was available then. My question to him was "Why continue to support yet another user modification, when IBM has provided support for the function?".

Our (system programmer's) jobs continue to increase in complexity without adding "site-specific" enhancements to that job. I feel we should continue to pressure IBM for standard parameter-driven replacements for homegrown enhancements, else we will continue to be stuck with the "excuse for an operating system" that MVS is and has been since I've worked with it (1979). I don't mean to sound overly sarcastic, but I've worked with DEC VAX/VMS, and they are far outpacing IBM in the OS arena, and I think it's because we (as users) have let them (IBM) get away with it.

Tim

--- Received from VD.BC +46-31-667506

91-04-30 15.13

-> VDNA.TIMBOB TIM PERKINS

001068

Hi Tim,

I heard from David Mesiano that you had some ideas about how some parameters were set up for SMF.

Can you give me the facts in this case.

Thanx and Regards Bert

- Skypas före skivring till Mads - ds, var man kan nu dan' i exitarna
- Dokumentation om var som använder vilka records.

Hej.

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-> VD.BC

BERT CHRISTENSSON 031-667506 2520

Hej igen.

Vi har haft ett ESA-möte nu på förmiddagen, och läget verkar vara under kontroll så här långt iallafall. Jag har bett Lou att vi ska få se hans plan (och komma med kommentarer) såfort han ställt samman den.

Det dök upp lite skilda frågor av olika slag, och jag måste säga att det verkar mycket viktigt att vi (dvs vi tekniker) kan träffas med jämna mellanrum. Det är ju tydligt att dom saknar information från Volvo Data inom nästan alla områden. Så jag har just skickat iväg ett antal memon med frågor till höger och vänster - t.ex. info från SUSF-projektet, som jag tycker verkar viktigt att dom får, ett antal frågor till Lasse Danielsson etc.

Men, vad som verkar oroväckande är, att det verkar väldigt osäkert med ansvarsgränser mellan VDNA och VCNA efter konsolideringen. Det gäller inte bara ACF2 (även om det är ett bra exempel), utan även systemnära produkter som VTAM, Netview, NPM, MEMO, TSO etc. Enligt Lou verkar dom tro i Rockleigh att ansvaret skall ligga kvar hos dem precis som tidigare ! Typexemel är nu, när vi har nya instruktioner inför MVS/ESA-installationen - det gäller ju då alla dom ovan nämnda produkterna. Vem ska ha instruktionerna från Göteborg, och vem skall göra dom åtgärder som behövs ?

Jag tycker vi enkelt kan se på hur vi själva gjorde vid konsolideringarna av Skövde och Köping - allt ansvar av systemnära produkter, dataset etc. övergick till Göteborg i och med flytten. Det kanske inte går att genomföra här direkt, men det borde åtminstone vara slutmålet.

Det finns ett dokument, som Inge satt ihop, för ansvarsfördelningen mellan Göteborg, Skövde och Köping - där finns säkert mycket principer som går att överföra hit. Och personligen tycker jag det är ganska enkelt - alla dataset och alla produkter som behövs för att klara svarstidsmål och tillgänglighetsmål, måste naturligtvis hanteras av personal i VDNA (i Greensboro). Det går inte att sitta i Rockleigh och vara ansvarig för t.ex. Netview i R101.

Vi kan väl diskutera detta i telefon i morgon, men jag undrar om det inte såpass viktigt att få igång diskussioner om snart, så att du kanske även borde ta upp det med KG och/eller Ronny.

Gunnel

--- Received from VGHT.CASEY 919-279-2639
-> VD.GI GUNNEL ISAKSSON

90-03-07 16.08
2510

Gunnel,
Thanks so much for the information. I'll review it with my people who are involved with the ESA testing.

Ron Casey

--- Received from VD.2510GI 031-667162

90-03-07 18.02

-> VGHT.CASEY

RONALD CASEY

001068

Hi Ron,

I've been working with the MVS/ESA installation at Volvo Data, and can give you the following information:

We're at the moment running MVS/ESA in one out of three production environments. The reason for postponing the ESA installation in the last two environments is a problem which we have discovered when running MVS/ESA in one cpu and MVS/XA in another cpu with shared dasd, shared catalogs and GRS. It seems that we get enq situations for vsam resources, which don't get resolved even after an IPL of one of the systems. The only solution has been to IPL both systems. So our plan is now to install MVS/ESA in both cpu's in those sharing environments at the same occasion.

Our MVS/ESA system is on the following level:

MVS/ESA 3.1.0e
DFP 3.1.1
RMF 4.1.1
TSO/E 2.1.0
ICKDSF 1.11.0
EREP 3.4.1
all on PUT level 8908+
and
ACF2 5.1 PUT8909
plus ACF2 PTFs TP76298, TQ88393, TQ89405, TQ89707,
and the ACF/SMS support PTFs TS88550-TS88553.

The major problems we had during the testing period of MVS/ESA were related to ACF2, but most of those problems were solved with PUT8909.

We have made the following modifications to the ACF2 rules.

Problem:

Msg ACF04056 access to resource IEAABD.DMPAUTH type rsaf not auth.

Solution:

Add to safmaps (FAC/FACILITY, (for this problem)
PGM/PROGRAM, (for sms)
STO/STORCLAS, (")
MGM/MGMTCLAS) (")

Add classname (FACILITY) in Class Descriptor Table mod ACF9CCDT either with ptf TS88550 or with a zap.

Write rule

AKY(IEAABD.DMPAUTH) TYPE(FAC)
UID(*) ALLOW

Problem:

Msg IEF722I invalid password given for all batch jobs

Solution:

INSERT SAFSAFE.015 SUBSYS(-) CNTLPTS(-) CLASS(VERIFY)

Further on we have made upgrades to the following OEM software products:

CA1 (UCC-1) to level 8906
Resolve plus
Omegamon
DMS to level 8.0

And at the moment, we don't have any serious problems
in the production environment which is on MVS/ESA.
But we still have not started using DFSMS for production
data.

Please let me know if you want any more detailed information,
concerning our product mix or anything else.

Hälsningar,
Gunnel

--- Received from VGHT.CASEY 919-279-2639
-> VD.KUNDINFO KUNDINFO

90-03-06 13.45
2170

Eva-Marie,
Who can I contact to discuss what problems with ESA have been
discovered and suggested corrections. Volvo GM Heavy Truck
is currently testing MVS ESA and plan to implement ESA this
month. Any information on ESA that will help us avoid a problem
with ESA would be appreciated.

Ron Casey

Printed by: 2510 GUNNEL ISAKSSON 031-667162

Subject: TRIP REPORT

91-11-22

--- Received from VD.LD 031-667479 91-11-18 10.17
 -> VD.GI GUNNEL ISAKSSON 2510
 -> VD.MV MATS VINNEFORS 2510

Info.
 /Lasse.

--- Received from VD.TS 667790 91-11-18 08.44
 -> VD.MIKLOS MIKLOS BAJZATH 8010
 -> VD.2103HR HÅKAN ROBERTSSON 031-667130 2103
 -> VD.HAS ARNE HASSELGREN 2202
 -> VD.PPL PERRY LUNDQVIST 2540
 -> VD.2510CJ CONNY JOHANSSON 2510
 -> VD.2510LD LARS DANIELSSON TEL.031-667479 2510
 -> VD.8015GS GUNNAR SVENSSON 8015

--- Received from VD.TS 667790 91-11-12 21.48
 -> VD.INGE INGE FORSBERG 2510
 -> VD.KR KJELL RASK +46-(0)31-667218 2510
 -> VD.BC BERT CHRISTENSSON 031-667506 2520

Reserapp från Ed!

MVH/Tomas

--- Received from VDNA.ED 919-279-2684 91-11-12 08.17
 -> VDNA.FAY FAY T. DONAHUE 001068
 -> VDNA.CLIFF CLIFFORD THOMPSON 001068
 -> VD.TS TOMAS SVENSSON 2500

Purpose of visit:

- 1) Meet the people at Volvo Data in order to begin building professional and personal relationships that will ease the transition to Volvo Data North America.
- 2) Learn about the Data Processing environment at Volvo Data, how it has evolved and how Volvo Data North America can take advantage of the work already done in Gothenberg.
- 3) Present VDNA specific requirements regarding MEXPACK.

Details of the visit:

- 1) We were given an overview of the GGG project and discussed the purpose of our visit.
- 2) Met with the members of 2510 to discuss the VDNA requirement that VDNA must be able to install PTFs for any customer. We reached the agreement that VD will ship the Target and DLIB CSIs with the MEXPACK system and will provide VDNA with the PTFs and SMP control information for any PTFs applied to the MXOTOT volume. VDNA will use the VD system for any APPLY CHECK processing if VDNA needs to install APARs or PTFs outside of the regular VD processing.
- 3) Spent time learning the evolution of the MEXPACK process and the specifics of the build process for a customer. To assist VDNA in the installation of a MEXPACK VD will modify a couple of specific items in the build process for the VDNA customers. Spent a substantial amount of time looking at the VDNA proposal where VD would supply a single MEXPACK distribution that would include all software run by all the VDNA customers and then VDNA would customize the local customer systems. It does not appear to be viable alternative within the current MEXPACK environment, so I feel the best course of action is to continue letting 2510 develop a MEXPACK tailored for each VDNA customer. I think by using the existing MEXPACK distributions VDNA can reduce the effort to less than a manweek per customer to install a new MEXPACK.

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Subject: TRIP REPORT

91-11-22

- 4) Discussed security from the MVS point of view.
- 5) Discussed, at length, SMS and how it can be used to eliminate the need for assigning Esoteric unit names to only specific addresses in an EDT gen. Discussed the DATACLAS, MGMTCLAS, STROCLAS and Storage Groups that have been set up and are being used at VD. VDNA needs to prepare an inventory of services provided, on the volume level, as a prerequisite to using SMS. VD personnel seemed eager to share thier knowledge and work with VDNA in this, and all other, areas.
- 6) Discussed the VD JES2 exits in detail. This will allow me to review the VGHT JES2 exits and determine the need to continue supporting them.
- 7) VD provided dataset names and READ Access to all exit source code datasets. VDNA will have to supply VD with the USERID and names of all VDNA personnel that require this access. VD will supply a similar list to VDNA so VDNA can provide access to the systems in Greensboro.
- 8) Discussed the VDNA MEXPACK requirements.
- 9) Met with people from 2120 to get an overview of the Production Technical Support functions. We will get a chance to discuss this area in more detail in December prior to the CMG meeting.
- 10) Met with 2140 and discussed the operation of the Data Center. My feeling was that the sooner the VDNA customers are running on the MEXPACK system the sooner VDAN will be able to take advantage of the automation that VD has developed. Again, the willingness to share the results of the time and effort spent by VD was stressed.
- 11) I was given a presentation on SAR and Express Delivery as they are being used in the VD environment.
- 12) I spent time looking at VILMA II and talking about Systems Development and Systems Maintenance as it is being done in the VD environment. I was registered in VICS and VILMA II so that I could look at it firsthand. Here is another area where the customers can take advantage of the expertise of the people of VD.
- 13) I spent a morning discussing VICS and how it can be migrated to from different environments. VD will do research on specific problems that the VGHT customer will encounter and assist VDNA in planning and implementing a VICS migration. We also discussed the necessity of moving VGHT to the standard Volvo accounting struture, Accounting Catalog and SMF exits in order to provide a more accurate billing of Data Processing costs to the customer departments.
- 14) During the discussion on MICS several questions were raised that will need to be addressed:
 - a) Will VD do VDNA billing after all customers are using the VD standard accounting mechanisims?
 - b) What SMF records are required by VD as input to the MICS system?
 - c) Does VDNA need or want to tun the VD DASD data collector for input to the MICS system?
 - d) Does VDNA need or want to run the VD IMS routines that 'scrub' the IMS SMF records? This needs the MICS LDA installed in IMS:
- 15) The VD response to the VDNA Proposals was discussed and written copies were provided. Many of the points will be addressed in the GGG Common Platform sub-project.

Summary:

The trip was very successfull in meeting the stated goals. I left feeling that I was part of the Volvo team and that VDNA will be able to move forward in many areas when we get the environments more similar. I have a better understanding of the structure of Volvo Data, I am able to determine which department needs to be contacted to answer specific questions and I am much more comfortable contacting Volvo Data for assistance.

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Subject: VD Trip Report 91-11-22

--- Received from VD.LD 031-667479 91-11-18 10.17
 -> VD.GI GUNNEL ISAKSSON 2510
 -> VD.MV MATS VINNEFORS 2510
 Info.
 /Lasse

--- Received from VD.TS 667790 91-11-18 08.42
 -> VD.8015GS GUNNAR SVENSSON 8015
 -> VD.2103HR HÅKAN ROBERTSSON 031-667130 2103
 -> VD.MIKLOS MIKLOS BAJZATH 8010
 -> VD.2510CJ CONNY JOHANSSON 2510
 -> VD.2510LD LARS DANIELSSON TEL.031-667479 2510
 --- Received from VD.TS 667790 91-11-12 21.50
 -> VD.INGE INGE FORSBERG 2510
 -> VD.KR KJELL RASK +46-(0)31-667218 2510
 -> VD.BC BERT CHRISTENSSON 031-667506 2520
 -> VD.PPL PERRY LUNDQVIST 2540
 -> VD.UFFEN ULF LINNARSSON 2550

Reserapport från Brewster efter hans besök på VD i september!

MVH/Tomas

--- Received from VDNA.BREW 919-279-2630 91-11-11 16.53
 -> VDNA.CLIFF CLIFFORD THOMPSON 001068
 CC
 -> VD.TS TOMAS SVENSSON 2500
 -> VD.HAS ARNE HASSELGREN 2202
 -> VD.ORRHEIM HANS ORRHEIM 2200
 -> VD.AASSE LARS ÅSTRÖM 2100
 -> VD.ALL ÅKE LINDMARK 2230
 -> VDNA.CASEY RONALD CASEY 001068
 -> VDNA.DELACOUR LYNN DELACOUR 001068

Cliff,

The purpose of my trip to Volvo Data in Gothenburg was to:

1. Meet and become acquainted with the people that work at Volvo Data. Specifically departments EDP Technique (2500), Communications (2200), and Production/Operations (2100).
2. Discuss environments of mutual interest. Explore software solutions used at VD and VDNA to address specific problems.
3. Determine the proper framework for proceeding with the GGG Project. Identify major software components where management decisions and/or extensive project plans must be implemented.
4. Become more familiar with the MEXPACK concept and discuss issues that may require alterations in MEXPACK packaging or procedures.
5. Discuss product plans for MEMO and SESAM products. Provide VD with some input regarding enhancements to these products.
6. Review VD and VDNA naming standards and discuss compliance methods and possible changes in standards.

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Subject: VD Trip Report

91-11-22

Generally speaking, I feel the trip was very useful. I covered most of the material that was expected but I feel that some areas were not pursued in sufficient detail to come to a desired conclusion. The reason is that time did not permit. Perhaps two weeks was not enough time to cover subjects in such detail. Spending more than two weeks at a time could be to much of an intrusion on VD people's time as well. Both IMS and TPREG are two areas that need more time allotted to pursue the details. I feel that Lynn Delacour, should make a trip to VD to review in more detail the IMS/DB2/CICS procedures and to start the process of integrating the VD environment with VDNA. TPREG details can be further covered by reading documentation and conversing via MEMO.

Both Ed and myself were very much pleased with the way we were received at VD. We were impressed with the level of professionalism and expertise exhibited by management and technicians. It was a memorable experience and I am looking forward to working with VD on the GGG Project and other projects in the future.

Subjects covered were as follows:

MEXPACK -

Regarding the base mexpack (MVS) distribution. The VTAM and NETVIEW products will be regressed from ESA versions to XA. The release level for VTAM will remain at 3.3 and NETVIEW will be upgraded to release 2.1. The impact of this change will mostly affect NETVIEW storage requirements in NLDM. I do not think this will be a problem. We are doing extensive filtering in VTAM presently so the NLDM usage is not that significant. As a matter of fact, we are considering installing the XA version of NETVIEW now (prior to mexpack) in order to circumvent SSI performance problem that is present in the ESA product.

I believe we have come to an agreement regarding how maintenance will be performed on the mexpack system. VDNA will be distributed the SMP CSIs and DLIBS (when necessary). VDNA and VD will notify each other of PTFs applied after shipment of mexpack so that the systems can be maintained in sync. This I feel is important given the differences in time zones and holiday/vacation schedules. I did not discuss this philosophy as it pertains to other mexpack products, but I assume that this would be acceptable as well for products such as IMS and NCP.

The VPS product installed in MEXPACK does not include all the pieces that we use at VDNA. VD has the VPS base and VMCF/TSO (print control) products installed. We need in addition to these products, VMCF/CICS and VPS/DRS (application interface for IMS and CICS programs). This requirement has not been resolved.

VGHT has its own version of the "VTAM session setup" exit. It is similar to the VD exit because it modeled an older version of the VD exit. The VGHT exit had been modified to send wtos to the netview operator when violations had occurred. The more current VD version has a log function that will be adequate in place of the netview wtos.

VTAM/NCP -

We reviewed the gen process at VD and the utilization of TPREG. The name standards for network resources were also explained. I discussed VDNA requirements for maintaining a D/R NCP and how we go about maintaining one source for multiple NCPs. I believe it will be possible to satisfy our D/R requirements along with the utilization of the VD TPREG. We can preprocess

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our NCP source prior to loading the NCP into TPREG. We will attempt to do the NCP work on the VD system. If it becomes too cumbersome, we may elect to do the NCP work locally and transfer the "mini TPREG" to VD after the gen process is complete.

Regarding name standards, I presented the VDNA case as to the reasons for deviating from VD standard. These reasons were as follows:

NCP/LINE/PU names: Normally a letter designation is assigned for each NCP. We have three NCPs but only one letter ("N"). Without unique letters, we were unable to follow the VD standard and have unique names. We now have been assigned letter "Q" for our second NCP, so we will be able to convert to the VD standard. The third NCP (Ogden) will be eliminated at the end of this year.

LU names: The Applications Programs require LU names that indicate the location of the terminal. CICS requires a unique four position terminal id that is derived from the LU name and must also represent the location of the terminal. Many terminals support MLS (multiple logical sessions). With the VDNA standard, we are able to derive the primary lu name when given a secondary lu name by the User. This helps us diagnose more quickly, User problems. Also, we only gen primary lu names in IMS and this naming convention makes this easier to control. VGHT is gradually removing the application dependencies on terminal name. Once this restriction has been removed, we will conform to the VD standard.

MODE/COS/USS tables: VDNA has its own MODE, USS, and COS tables. In order for us to use VD tables, VD must make some changes which I believe they have agreed to do. VD has one MODE table per terminal type where VGHT has one MODE table with separate mode entries for each terminal type. The mode entry names at VD are not unique names. Unique names are necessary for VGHT because the CICS autoinstall exit has models coded to match the modeent name. We will also need additional MODE tables coded by VD to support a different COS when terminals access applications in other networks. The COS table at VDNA has all the entries that are supplied by VD and in addition contains entries for other networks (SNI connections). These entries must be included in the VD COS table. The USS table (vtam command table) implemented at VD contains default logmode entries for each command. This is unacceptable because as stated above, VGHT needs unique logmode entries and they must not be overridden by the command table. These default entries must be removed from the VD USS table before we can use them. We will also need to maintain separate USS tables for LUS attached via our dealer network which will restrict access to limited group of applications in a dial access environment.

Major Node Names - VD tends to group all CDRM resources into one major node. They group printer CDRSC resources by owning domain (CDRM) and application CDRSC resources by application. VDNA groups CDRMs by Company, and combines application and printer CDRSC resources by owning domain. I feel that the VDNA approach is better for two reasons. 1) better control of CDRMs at the minor node level 2) provides for easier maintenance of Netview automation procedures (less major nodes) that perform activation of CDRSCs outside of ATCCCON00 (VTAM start list). I have discussed this with Arne and he has agreed to evaluate this standard.

TPREG -

The TPREG process was reviewed and we discussed our environment and how it can fit into the VD environment. There is an interface between TPREG and the HELP application that provides information to the HELPDESK about network resources. This would be most helpful in our environment. Our HELP application is ancient and does not have this support. I did not go into

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Subject: VD Trip Report

91-11-22

much detail on TPREG, but I feel that I can learn by asking questions via memo and by reviewing the documentation that I received while there.

GGG Project -

Most of the meetings during my two week visit were directly or indirectly related to the triple-G project. Most discussions involved comparing our environments and investigating ways to achieve our goals of making the three datacenters look and operate the same. I spent some time with Arne Hasselgren defining the GGG project and its goals related to the communications sub-task. I think we covered most issues and we have a clear understanding of the tasks ahead of us. We did touch on billing issues regarding the network and I have a general understanding on how TPREG is utilized for the accounting and billing requirements.

IMS/CICS/DB2 -

I reviewed with Perry Lundquist, the IMS name standards and did not see any major obstacles. These standards have recently been changed and have not yet been accepted. Lynn Delacour will spend more time in this area. We did review our IMS exits and I have supplied VD with copies of these exits. We presently use ACF2/IMS V5.1 and VD is at V5.2 level. This will require us to convert to V5.2 before going to mexpack. They will either incorporate our exits or support our exits in a separate mexpack. We reviewed our gen requirements and identified problem areas. Two areas of concern are A) class/priorities assigned by customer (we assign programatically based on performance of transaction) B) VD uses DELTA/IMS. If we are unable to use DELTA/IMS, it will significantly complicate our efforts to comply with the GGG standard for performing IMS gens. We do IMS gens much more frequently than VD and the VGHT MIS department does TEST IMS gens weekly. I also reviewed VD program products that are used to support their operation. Most of these products must be considered as necessary components of the triple-G project. They are on-line change (ONLCHA), resource control (VINFO), command facility (VCMD), and IMS gen function (GENI). Much work needs to be done in this area. Perhaps it would be a good idea for Lynn to make a trip to Gothenburg this spring in order to address some of these problem areas.

Network Operations and Automation -

I spent approximately three days in the Operations area and I feel that VDNA can gain much from the work that has been accomplished at VD. They have put a lot of emphasis on automation and tools to assist the Operator and Help Desk functions. Utilizing the HELP application as a "shadow application", they have been able to significantly reduce HELPDESK calls during major application outages by providing endusers with information automatically at the time of failure. They utilize Netview GENALERTS to trap IMS application abends and automatically send memos to the responsible parties at time of failure. The INFO/MGMT product has been customized to notify, automatically, the responsible parties (via memo) at the time a problem is entered. The memo contains a description of the problem. The automation tasks for starting/stopping the system is now handled by PROPER and NETVIEW. I spent considerable time reviewing VD plans regarding automation and the NETVIEW based components that will be utilized. I feel that the structure of VDNA NETVIEW startup/shutdown automation can easily be migrated to the new environment planned by VD. VD has developed standards for writing NETVIEW clists. We at VDNA must start to use these standards.

Other Network Subjects -

I did get a better understanding of the Volvo Data network services by

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attending presentations on the following :

1. VCOM Concepts and Facilities - APPC product that supports program-to-program communications between main frames, PCs, AS/400, DEC.
2. CMC environment at VD - Two MVS domains dedicated to the operation of the network.
3. Volvo Data's implementation of Token Ring - covers most of the complex.

SESAM & MEMO -

I met with Ulf Linnarsson and discussed what I feel to be problems with SESAM. I provided him with copies of my evaluations of SESAM and other products. He indicated that he felt that most of my dissatisfactions with SESAM could be classified as operational problems as opposed to end user problems. I never gave it much thought, but perhaps he is right. Most end users are probably content with what SESAM provides (unless perhaps, they have worked with other products). We discussed what I felt were problems that should be corrected short term and long term. The long term requirements we both agree would cause a complete restructure of the product. Ulf has indicated to me that VD will be reevaluating the SESAM product and it's long term commitment. The results of this evaluation may either be to a) redevelop the product and commit more resources to its support, b) evaluate other session manager products to replace SESAM, c) continue along present course with perhaps additional support personnel to maintain the product. Listed below are some suggestions on how we can improve SESAM over the short-term.

1. better operator facilities - diagnosing problems
2. allow more freedom for session connections to PLUs with different terminal attributes
3. display virtual terminal name on selection menu
4. allow helpdesk to view other User sessions
5. provide more isolation between separate environments (TPA) so that you can use just one sesam address space
6. simplify logon procedure scripts.
7. display user name and terminal id when using the DU ALL command

I had a similar meeting with Ulf regarding MEMO. I was given a presentation by Verimation on future product enhancements and was pleased to see an archival function that has been integrated into MEMO. I was given a demo on how this archival function will work. I was also pleased to be able to give my views of this product. My suggestions for future enhancements and improvements was well received. Most of these suggestions were already being planned or considered. Listed below are some of the suggestions I made to improve the MEMO product.

1. provide archive function
 - deleted memos to archive for 7 days
 - default archive of 1 year ("a" next to memo) otherwise "a2" means two years and so on
 - batch job to purge expired memos from archive
2. put file selection and memo type selection on dialog B mailbox
3. treat calendar entries similar to followup memos and have them appear in mailbox on day that is referenced
4. single image logon
 - allow User to logon to local memo system and signon.
 - If User not registered, search memo rdir and find memo system where registered and issue clsdst/pass with userid and password to appropriate memo system.
 - If registered in more than one memo system, present selection menu and allow User to pick memo system to got to.
5. provide command line in dialog B

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-
6. allow User sending memo to expire memo after a date. Batch utility would be used to delete expired memos.
 7. allow for return to previous panel from popup panels
 8. provide means to recover user mailbox from memo backup
 9. search function on PUDLS
 10. search function on memo text in mailbox
 11. provide global mailbox for formatted memos and a command that can be used from the message panel to retrieve a memo form by name.
 12. improve edit line functions (ie. =C (copy), =M (move), =A/=B (after/before), =RR/=CC/=MM (block commands)).

PS. I am apologize for the delay in producing this trip report. I have been caught up in various operational problems over the past few weeks and have not been able to devote much time to this task.

Best Regards, Brew

Printed by: 2510 INGE FORSBERG 031-667495

Subject: VMEAMASTER 91-11-29

--- Received from VD.TSV 031-662222 91-11-28 11.22
-> VD.INGE INGE FORSBERG 2510

Hej Inge!

Här kommer den utlovade kopian av avtalet med VMEA.
Jag skickar det som jag har fått det d.v.s flera olika memon.

Hälsningar
Thomas S/2830

Volume and Pricing Agreement

This agreement is a "Volume and Pricing Agreement" in the sense defined in the "Computer and Network Services Master Agreement" entered into between VME S.A. and Volvo Data AB.

This Volume and Pricing Agreement is entered into by and between:

Volvo Data North America
Greensboro, North Carolina

and

VME Americas Inc.
Cleveland, Ohio

hereafter referred to as "VDNA" and "VMEA", and is regulating the ongoing economic relationships between the parties. VDNA shall provide services in accordance with the afore mentioned Master Agreement to the North American companies of the VME Group. Notwithstanding the foregoing, all VME companies shall have the right to use all VME Americas systems at Volvo Data North America.

1. Account representation

VDNA shall provide an account representative for VMEA in support of current and future business requirements. VMEA shall appoint a representative(s) with authority to act on behalf of VMEA. Responsibility of business relations between the Parties shall be held jointly by the individuals. Responsibilities of the parties include but are not limited to:

Budget	Disaster contingency
Pricing	Service agreement
Network growth	Capacity planning

2. Conditions during 1992

VDNA agrees to provide, and VMEA agrees to subscribe to the services described herein. These services include conversion of certain VMEA application systems converted from DOS/VSE to MVS, as well as essential investments as required to support both the conversion and ongoing operation expense as defined within this Agreement. VMEA agrees to provide support to the project as described in Section 2.2 of this agreement. The parties may use it's

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Subject: VMEAMASTER

91-11-29

own respective employees or assigned agents however the parties are responsible for the duties described herein and as documented in the conversion project plan.

2.1 Scope of project

The project duration is estimated to be six months. The project shall commence November of 1991 and is scheduled to be completed April, 1992.

The cost of the conversion project, defined in 2.2 below and Appendix V, will be a firm price of Å232.2k USD. This includes the VMEA logical partition (LPAR) for test up to the production start, from which date section 3.3 applies. Notwithstanding the foregoing, VMEA shall pay VDNA for all necessary DASD required to support the VMEA LPAR and related project testing. Current estimate for this cost is Å12.5k USD. (6 Gybtas X VDNA charge X four months.) Appendix V identifies the (billable) tasks required to implement the conversion project. Other tasks which are not billable, or, are performed by VMEA, are not listed in Appendix V. A complete list of tasks and assignments are defined within the detailed project plan.

2.2 Conversion Of VMEA DOS Systems To MVS

The Parties shall provide necessary support as defined below in order to complete the transition to VDNA. VDNA, or, VDNA contractors shall provide the following:

- 1.) project direction
- 2.) technical direction
- 3.) conversion team
- * 4.) conversion from UniCenter
II VSE to VDNA MVS Products
- 5.) establishment of hardware, software
and communications environment

* (As feasible according to the Appendix VI of this Volume and Pricing Agreement)

VMEA shall provide:

- 1.) applications knowledge, both business & technical
- 2.) MVS education of it's IS and business staff units
(estimated in the planning process to be Å20k USD)
- 3.) participation in tasks/activities as defined by
the project director.

For purposes of summary the following is a breakdown of fixed vs. variable project cost:

	<u>In USD:</u>	<u>% of Total</u>
Fixed cost	Å 171.2k	73.7 %
Variable cost	Å 61.0k	26.3 %
Total cost , %	Å 232.2k	100.0 %

Additional applications systems or subsystems may be added to the conversion workload. The incremental cost of each system may be calculated according to the following table.

Per System:

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Volume, or number of:	Conversion (Factor +	Test Factor)	X	Hourly Rate	=	Item Cost
Batch pgms.	.336 +	.126	X	Å90	=	
ADS dialogs	.333 +	.126	X	Å90	=	
Maps	.255 +	.126	X	Å90	=	
Procedures	.311 +	.126	X	Å90	=	

Total incremental cost per subsystem -->

2.3 Target conversion by application

The following Application systems shall be converted and are included in the cost of the conversion project.

<u>Application</u>	<u>Sub-system</u>
Sales-Marketing	Order Entry Pricing Forecasting O.B.S. State/County
Invoicing Service	Warranty Product Update Customer Maint. Quality Reporting
Manufacturing	Purchasing Cost comparison B.O.M. Cost Study Annual Cost Study Cost analysis
Engineering Financial	Records standards Payroll VME Invest plan
Personnel	Flexplan Pension Admin. Compensation Human Resources
M.I.S.	Job Dictionary

3. Pricing conditions during 1992 up to & including 1994

3.1 Pricing policy

Price calculations shown in this volume and pricing agreement are charged according to a fix bid arrangement, and are not based on a pricelist methodology of charging for products and services.

The volume projections defined below are based on capacity plan modeling and discussions with VDNA and VMEA (for 1992.) Capacity calculations for 1993 and 1994 are

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based on an assumed rate of growth for that period of time. Capacity estimates, although based on accurate modeling tools, are nonetheless still estimates. Therefore, upon transfer of VMEA systems production volume from VMEA to VDNA, capacity utilization will be measured and charged accordingly in relation to the consumption formula(s) defined below. The initial requirements as measured in Mips is estimated to be 2.4 Mips. The minimum configuration that may be ordered is 2.0 Mips.

3.2 Consumption formula for charges - Mips and Dasd

The CPU Consumption in MIPS shall be calculated per quarter as follows:

The average MIPS during the "peak" hour per day (hours of highest activity within each 24 hours period) is measured and the average value for the actual quarter is calculated. This average value is used on one hand to project the preliminary charging for the following quarter on the other hand to adjust the charging for the actual quarter at the end of respective quarter.

Dasd Consumption in Gybytes shall be calculated per quarter as follows:

Dasd allocation includes, but is not limited to, the to the following disk space: system, data base, public pool, work disk, etc.

A certain amount of dasd is allocated to VMEA each quarter. If the allocation is changed during a certain quarter, the charging will be adjusted at the end of the quarter. A decrease in the allocated value greater than 2 GB will not be adjusted unless 90 days notice is given. Regardless of full utilization or portion thereof, the allocated volume will be paid for.

CPU charges.

Increases or decreases in Mips consumption may be calculated at a rate of 50k USD per Mip. This equation applies within a range of 2.0 to 5.0 Mips. Requests for resources above 5.0 Mips shall be quoted upon analysis of the requirements.

Dasd charges.

Increases or decreases in Dasd consumption is priced at Å6,000 USD per Gbytes of Dasd. Any decrease in charge as a result of change(s) in business conditions shall be applied upon ninety (90) days notice to reductions in Dasd requirements equal to or greater than 2 Gybytes.

Network charges.

Network charges are priced according to Section 7 and are quoted on configuration requirements.

Disaster Recovery charges.

Disaster recovery charges are variable. However any variations in charge shall be limited to any net increase in (VMEA) cpu or dasd growth and which would result in an

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increase in subscription charges of a supplier of disaster recovery services supporting said growth.

Management and Administration charges.

Management and Administration charges are fixed and are not subject to fluctuation based on consumption.

3.3 Special volume and pricing agreement for 1992-1994

From production start in the base LPAR as defined in Appendix A1, up to and including 94-12-31 the following fixed prices will be charged for the mainframe operations within the volume projections stated below.

The base software environment, including which products are and are not included in the fixed price charges below, are defined in Appendix I. IMS-DC, DL/1, DB/2 and QMF will be made available to VMEA, when requested, without any one-time fee(s). VMEA will pay an additional Hardware and Base software fee primarily based on VMEA's actual usage of the respective product. IEF, and the SD/SM environment, will be available to VMEA in the Volvo Data Eskilstuna branch LPAR at Volvo Data Gothenburg. The prices as defined below, exclusive of communications charges, are firm and will not be subject to any increases due to inflation.

Capacity Projections

	1992	1993	1994
MIPS	2.4	3.0	3.3
DASD	20.0	25.0	30.0

Cost Projections

	1992	1993	1994
* Hardware & Base software	236.6	266.6	281.6
DASD	120.0	150.0	180.0
Disaster recovery	8.0	9.0	10.0
Management & Admin.	30.0	30.0	30.0

Operating budget:	Å 394.6	Å 455.6	Å 501.6
-------------------	---------	---------	---------

DOS to MVS Conversion cost (payout over two years)

Project Conversion	116.1	116.1	
Misc (VCNA) Product Suppt	2.0	2.0	
C.A. Transfer cost (ACF/2 & CA-One)	11.8	11.8	
Easytrieve purchase & CA-One licenses)	24.0		

Total budget:	Å 548.5	Å 585.5	Å 501.6
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* = Itemized list of software products are identified in Appendix 1.

VMEA shall provide it's own "Local Operations" as such

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and therefore shall have no Local Operations charges. However, VMEA shall reimburse VDNA for products and/or services incurred on behalf of VMEA, which are provided for the exclusive benefit of VMEA and are outside the scope of services as defined in this agreement. All such reoccurring charges shall be substantiated by VDNA or, requested and approved by VMEA. All such charges shall be properly documented as addendum(s) to this Volume and Pricing Agreement.

3.4 Conditions after 1994-12-31

After 1994-12-31 prices for all computer services from VDNA to VMEA shall be those in VDNA's applicable price list. This transition to a price list shall not result in any threshold cost effect for VMEA provided unchanged volumes.

4 Division of service responsibility

A summary of services and associated responsibilities are defined as follows. A detailed definition of these services are defined in Appendix III.

<u>VDNA</u>	<u>VMEA</u>
MVS Operations	Local operations
Systems maintenance	Applications Development
Communications management	Applications Maintenance
Storage management	End User Computing
Disaster recovery	

5 Transfer of assets

5.1 Systems Software

Initial software environment as defined in Appendix I. As this target environment is a "replacement" of the current VMEA "DOS" environment, the base systems software (DOS) shall be cancelled in lieu of transfer to VDNA. The Database Manager (IDMS) and related products shall be retained by VMEA according to the terms and conditions of the Computer Associates Agreement. The following table defines the status of product licenses, by vendor. Where license ownership is retained, VMEA shall be responsible for all charges associated with said license, except as noted in the "Volvo Group, Computer Associates Agreement."

Table I.

<u>Vendor</u>	<u>(Product)</u>	<u>Status upon MVS Conversion</u>
IBM	(All)	Cancelled, no transfer to VDNA
C.A.	(IDMS)	License(s) retained at & by VMEA
	(UniCenterII)	Cancelled, no transfer to VDNA

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	(Easytrieve)*Initially licensed to VDNA
	(TopSecret) Cancelled, no transfer to VDNA
Blueline	Cancelled, no transfer to VDNA
BMC	Cancelled, no transfer to VDNA
Cincom	Cancelled, no transfer to VDNA
DBMS	Cancelled, no transfer to VDNA
Generic	Cancelled, no transfer to VDNA
MSA	Cancelled, no transfer to VDNA
MacKinney	License(s) retained at & by VMEA
Oxford	Cancelled, no transfer to VDNA
SDI USA	Cancelled, no transfer to VDNA
Sterling	Cancelled, no transfer to VDNA
TSI Int'l	License(s) retained at & by VMEA

* Product in process of purchase by VMEA. Intent is to license this product with VDNA.

5.2 Hardware

All hardware shall be defined as central or local hardware and as such shall maintain either central or local ownership and responsibility. Accordingly there is no transfer of hardware, either fixed assets or expensed items, between the parties. As all equipment shall either:

- 1) remain in use as local hardware or,
- 2) shall be cancelled from a (monthly-to-month) lease there shall be no liquidation cost(s) associated with the hardware.

6. Service levels, Service Agreement

The scope of services provided by VDNA to VMEA, as well as the assignment of responsibilities between the Volvo Companies, are defined as follows:

Appendix III: Division of Responsibilities
Appendix IV: Service Level Agreement

7. Communications & Network Services

VDNA shall become a fully supported Access Point for VME Americas Inc. business in North America, and shall further have an SLA Responsibility to each VME location in North America as defined in Appendix 3 of the Master Agreement.

This solution, considering VDNA as the access point, provides added value over the current network environment:

- * Improved line speed to Canada from 9.6 to 19.2
- * Improved line speed to Ashville from 9.6 to 56 kbs.
- * Access to and management control via Netview.
- * Increased dial backup capability at reduced expense
- * Reduced disaster recovery responsibility in Cleveland

Communications costs for 1992, and as defined below are \$140.6k USD. One time charges in support of line installations are \$4.6k USD. The one-time expensed equipment cost is \$8.7k USD. All line costs and associated taxes, tariffs, and other related costs shall be charged back according to actual charges incurred

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by VDNA. Port charges are according to VDNA port charges and are charged per full port or portion thereof. VMEA assumes responsibility for any local business lines utilized for dial backup or any other reason(s). VMEA may request, and VDNA will provide communications consulting services according to the conditions defined in the Master Agreement.

Description	Speed	-----Yearly-----					
		Line Cost	3725 Port	Number Devices	Modem Charges	Maint.	Dial B/U
Greensboro Ashville	56kbs	11.4	19.2	Seven	3.0	0.3	1.9 to
Greensboro Chicago	9.6kbs	7.8	4.8	Two	0.9	0.4	1.0
Greensboro Cleveland	56kbs	9.3	19.2	One	0.0	0.0	1.0
Greensboro St.Thomas, Guelph	19.2kbs	32.2	9.6	Three	5.2	0.4	1.9
(20%)portion Satellite link	56kbs	6.4					4.7
Total yearly charge:		<u>67.1</u>	<u>52.8</u>		<u>9.1</u>	<u>1.1</u>	<u>10.5</u>

In addition to the above, VMEA has responsibility for network connection(s) between it's Ashville office. VDNA can provide services to support this link and are defined below as an added option.

Description	Speed	-----Yearly-----					
		Line Cost	3725 Port	Number Devices	Modem Charges	Maint.	Dial B/U
Ashville A1 Ashville A2 (Sales offices)	56 kbs	3.9		Two	1.7	0.2	
Total yearly charge:		<u>3.9</u>			<u>1.7</u>	<u>0.2</u>	

8. Miscellaneous

This agreement and the appendices comprising this agreement shall remain confidential between the parties. The agreement or any portion thereof shall not be disclosed, except to employees of the parties with need for knowledge thereof.

Signature indicates agreement to the terms and conditions as set forth in this agreement and appendices.

Accepted and Agreed

Accepted and Agreed

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VME Americas Inc.
By:

Volvo Data North America
By:

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Appendix I. - Target Environment - VMEA LPAR

<u>Product</u>	<u>Rel.Level</u>	<u>Notes</u>	<u>Product</u>	<u>Rel. Level</u>	<u>Notes</u>
(Base Systems Software)			(Development)		
MVS / ESA	1		EASYTRIEVE		2
JES2	1		VS COBOL II		1
SDSF	1		RPG		1
ISPF/PDF	1		ADS/O		3
SMP/E	1		IDD		3
DFSORT	1		OLQ		3
EREP	1		CULPRIT		3
RMF	1		PANVALET		1
DFHSM	1				
MXG	1				
SAS	1				
SAS UPGRADE	1		(Applications)		
SAS STAT	1				
RMDS	1		GENERAL LEDGER		3
OPC/A	1		ACCOUNTS PAYABLE		3
VPS	1		ACCOUNTS RECEIVABLE		3
INFO-MANAGEMENT	1		FIXED ASSETS		3
DITTO	1		CASH&FINANCIAL CONTROL		3
(Communications)			(Security)		
VTAM	1		ACF/2		1
ACF/NCP	1				
HCF	1		(Misc. Utilities)		
NETVIEW	1				
NEM	1		WIZARD VIEW		3
ACF/SSP	1		CICS MESSAGE		3
NCP	1		KEYMASTER		3
NPSI	1				
(Transaction Monitors)			(Electronic Mail)		
CICS	1		MEMO		1
TSO/E	1				
(Database Manager)					
IDMS DB/CV	3				

Notes:

- 1 = Software included as part of Hardware & Base software budget as defined in Section 3.3 of Volume & Pricing Agreement.
 2 = Intent to license with VDNA. Purchase cost will be paid by, or charged back to, VMEA as the sole user of this product.
 3 - Licensed to VMEA. Paid in full directly from VMEA as VMEA is the sole users of these products.

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Licensing and/or Transfer Arrangements

Vendor	Product	Source	Notes
IBM	TSO/E	Mexpack	1
Computer Assoc.	CA-One	Mexpack	1
(Volvo internal)	VNAC Internal Exits	VCNA	3
Sterling	DFDSS	Mexpack	1
IBM	SDSF	Mexpack	1
IBM	VS/Cobol II	Mexpack	1
BMC Software	BMC Optimizer	VDNA	1
????	CAFC	VDNA	1
Pansophic	Easytrieve	Mexpack	4
IBM	RMDS / VPS	VDNA	1
SAS	SAS Base	VDNA	1
IBM	OPC/A	Mexpack	1
(Volvo internal)	VGHT Internal Exits	VDNA	3
Computer Assoc.	IDMS DB/DC	VMEA	2
Computer Assoc.	Culprit	VMEA	2
Computer Assoc.	OLQ	VMEA	2
Computer Assoc.	ADS/O	VMEA	2
Computer Assoc.	UCF	VMEA	2
MacKinney	WizardView	VMEA	4
MacKinney	CICS Message	VMEA	4
Dunn&Bradstreet	MSA Accounting	VMEA	2
TSI Inter'nl	KeyMaster	VMEA	2

Notes:

- Product is licensed to VDNA for use by VDNA's Volvo Group customers. Identical or equivalent product or products may be cancelled with the vendor in lieu of transfer to the VDNA.
- Product or products shall remain both licensed and supported with and by VMEA, according to the terms and conditions of the agreements between: VDNA and Computer Associates (licensing)
VDNA and Volvo Michigan Euclid (support).
or: VMEA and Dunn & Bradstreet
MSA Accounting subject to conversion to AS/400 product(s) in lieu of migration to VDNA.
- Internally developed product or products which are suitable alternatives to vendor products. These may be acquired at no charge to VMEA for VMEA's use at it sees fit. The product or products are not supported and are distributed as is.
- Intended to be licensed with VDNA (vs. VMEA) although product (or it's MVS version) has not yet been acquired.

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Appendix III. Division of Responsibilities

Operations Services Assignment of Responsibility

Local and Remote Hardware	VMEA	VDNA
Physical Planning	R	C
Site planning and preparation	R	C
Installation / De-installation	R	C
Performance monitoring	R	C
Problem resolution (internal & vendor)	R	C
User documentaion	R	C
Installation of e.c., m.e.s., and microcode upgrades.	R	C
Maintain hardware inventory	R	C
Coordinate hardware lease / purchase	R	C

Network Services

Physical planning	J	J
Site planning and preparation	J	J
Installation / De-installation		F
Specify, order, test, install data communications equipment		F
Performance monitoring of data communications equipment and carrier services.		F
Update and maintain problem resolution clists, actions and documentation (Netview)		F
Perform disaster recovery network testing, maintain documentation.	J	J
Provide performance reporting of network services		F
Education and training for operations & help desk staff	R	C

Application Maintenance and Processing

Schedule batch system applications	F	
Process batch system applications		F
Problem analysis, escalation & resolution	J	J
Maintain incident reporting system.		F
Performance reporting against objectives.	J	J
Implementation & tracking of change control.	J	J
Manage optimum tape and disk file utilization.	J	J
Monitor file transfer traffic between nodes.		F

Scale: F = Full responsibility
 J = Joint responsibility
 R = Remote responsibility (remote site)
 C = Central responsibility (central site)

III. Division of Responsibilities (continued)

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	VMEA	VDNA
Remote Job Entry		
Manage application output media and distribution.	F	
Technical Support Services		
System Software		
Installation / Maintenance of:		F
Operating System		F
Programming Languages		F
Development tools		F
MEMO		F
Network		F
Security	J	J
System Exits		F
Software research, evaluation		F
Establish Standards		F
Establish NW Standards		F
Evaluate System and Network solutions		F
Voice / Data Integration		F
Hardware Inventory record keeping	R	C
Terminal Equipment Requests	F	
Desk Top Publishing Services	F	
Capacity Planning-CPU, I/O equipment	J	J
Network Design, Performance Management		F
System Design (Logical Configuration)		F
Network Design		F
System and Network monitoring		F
System and Network tuning		F

Scale: F = Full responsibility
 J = Joint responsibility
 R = Remote responsibility (remote site)
 C = Central responsibility (central site)

Appendix III. Division of Responsibilities (continued)

	Assignment of Responsibility	
	VMEA	VDNA
File Services Catalog management		
Tape management procedures		F
DASD management procedures		F
DASD Recovery - PP, VSAM, PLP, System files		F
Disaster Recovery Support	J	J
Personal Computing		
PC Systems and Programming	F	
User needs analysis (HW / SW)	F	
Design	F	
Coding & Implementation	F	
Programming Support	F	
PC Products	F	
PC and PC software	F	
PC self study	F	

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Equipment Requests / Configuration	F
Purchasing	F
Vendor Negotiations	F
Installation / De-Installation	F
PC Repair	F
HW/SW Inventory Control	F
Administration	
Administer User Chargeback System	F

Scale: F = Full responsibility
 J = Joint responsibility
 R = Remote responsibility (remote site)

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1. General

This agreement serves as a specific agreement between VDNA and VMEA. Nonetheless this agreement shall, where feasible, supplement the services provided by Volvo Data, and as documented in "Services 1992 - Operations and Technical Support".

2. Scope of Services

The scope of services and responsibilities as assigned to VDNA and VMEA are defined in Appendix 3.

3. Opening Hours

VDNA Data Center scheduled availability is Monday thru Saturday 00:00 to 24:00. Due to the volume of customers and nature of changes, maintenance is carried out Sunday between 6:00 a.m. (e.s.t.) through 18:00 e.s.t. through 18:00. Upon request Sunday availability may be scheduled and operations personnel assigned. Requests for availability during scheduled (Sunday) maintenance hours must be received with adequate lead times in order to properly plan and prioritize appropriately. The Data Center is closed Christmas and New Year. IPL's of dedicated partitions will be scheduled at the customer's convenience and at mutually agreed upon times. IPL's of shared partitions will be scheduled at the agreed time between customers affected by the partition. In case of acute problems, maintenance will be done as required. Such maintenance will be scheduled after 24:00 as possible with advanced notice as feasible.

4. Help Desk

Help desk services are available from VDNA for assistance with, but are not limited to, communication and availability issues. The Help Desk shall also serve as the primary contact to the VMEA local (customer provided, application oriented) help desk. Assistance is available except for Christmas and New Year. The Help desk shall report all customer calls and resolve or attempt to resolve all incidents. In the event incidents cannot be resolved at this level the Help Desk shall escalate and track the incident through to it's resolution. The Help Desk shall provide feedback to the VMEA local Help Desk on all such reported incidents.

5. Availability

Measurement of availability is based upon the "window" as defined in "Opening Hours". Any deviation from the window is considered an outage against the measured hours of availability. VDNA shall assume responsibility for the availability of the following

- components:
- 1) VDNA hardware at the VDNA central site
 - 2) Communications hardware up to and including the communications device at the local access point
 - 3) The base (MVS/ESA) Operating System.
- Application subsystems (IDMS DB/CV and related applications both

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batch and online) are the responsibility of VMEA. The following table defines, but does not limit, the scope and assignment of responsibility.

Table I.

Activity affecting availability	Responsibility
1 Initiate, close IDMS region(s) (Start = / < 2:00 a.m. Stop = / > 9:30 p.m.)	VDNA
2 Performance within IDMS region(s)	VMEA
3 Performance effecting IDMS region(s) (network, operating system, etc.)	VDNA
4 Execution of application production	VDNA
5 Resolution of application production abends	VMEA

Given the variables defined above affecting availability, the measured target of availability shall be 99.5%

6. Network Performance

6A. Response Time

Establishment of response time objectives is dependant on numerous variables contributing to total response time per transaction. In it's simplest form response is defined as the sum of total network overhead (VDNA responsibility) and application overhead (VMEA responsibility). Lastly, both network and application are dependant upon total resources (Mips, for example) available to service transactions. Table II shows the variables, status and responsibility to date of the items impacting response time. Upon establishment of these items VDNA and VMEA shall jointly work to both establish and measure response time performance against objectives.

Table II.

<u>Variable</u>	<u>Status</u>	<u>Resp.</u>
1) Network Configuration	In process	VDNA / VMEA
2) (Averaged) Service requirement	2.4 Mips (projected)	VMEA
3) (Averaged) Application overhead	Pending conversion project	VMEA

6b. Availability

VDNA shall manage the assigned (U.S.) portion of the Volvo Corporate Network (VCN) and shall be responsible for the availability of same. The portion of the VCN shall be defined as between VDNA and up to and including the (modem) of the VMEA access point. Targeted uptime shall be measured against hours as noted in Section 3 above. Accordingly, Table III defines the availability objectives as follows:

<u>Link</u>	<u>Objective</u>
VDNA to (including) VMEA access point(s)	99.0%
VDNA to Volvo Data (satellite link)	98.0%

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VDNA thru Volvo Data to VME Belgium

97.0%

VDNA shall manage it's VCN responsibilities, including performance reporting and corrective action, according to the aforementioned performance objectives.

5. Capacity Planning

Capacity utilization shall be measured continuously. Short range capacity planning shall occur twice yearly for purposes of both technical planning as well as budget preparation. Major changes in CPU capacity (Mips, storage) require adequate notice (ie 6 mo.) Disk and network changes may be coordinated in 90 days or less. VDNA will endeavor to support both planned and unplanned growth occurring as a result of business conditions.

6. Disaster Recovery

VDNA shall be responsible for installing and maintaining the necessary procedures and tools to perform the systems recovery of VMEA's business. Table IV. identifies the essential components and responsibility in support of disaster recovery:

Table IV.

<u>Task</u>	<u>Resp.</u>
Negotiate D.R. vendor and vendor agreement of services	VDNA
Provide for adequate replacement of central hardware	VDNA
Perform backup routines for operating system & subsystems	VDNA
Provide recovery routines of operating system & subsystems	VDNA
Perform backup of critical business application data	VDNA
Provide for the recovery of communications network up to the access point communications device	VDNA
Identify & provide backup routines for critical application data	VMEA
Provide periodic disaster recovery testing	VDNA/ VMEA

VDNA shall provide applicable development and improvement of disaster recovery systems and procedures developed out of Volvo Data or VDNA.

7. Security

VMEA subsystems and applications currently are secured internally within the code of the applications. VMEA currently does not use the DOS equivalent of ACF/2 (CA-TopSecret) as the tool to secure and control access to subsystems and applications.

As applications are converted from DOS to MVS all program logic, including security and access control code, will be converted intact. Therefore the same level of security that exists in the VMEA DOS environment will exist in the VMEA MVS environment. In addition to this internal level of security, VDNA will work with VMEA to identify and establish a base level of access control to major applications. (i.e. Memo, TSO, IDMS). This base level of security control will be established using ACF/2 (Access Control Facility) via ACF/2 rules database. VMEA and VDNA shall jointly identify and implement enhancement(s) to this base level of security, according to Volvo Data / VME corporate policies, upon completion of the conversion project.

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Appendix V. Billable Project Tasks and Estimates

<u>Project Support Expense</u>	<u>(--In Man Hours--)</u> <u>Project Leader</u>	<u>Project Team</u>	<u>(1000's)</u> <u>Å's</u>	<u>(+/-)</u> <u>May Prop'1</u>
Conversion utility tool			18.6	
Travel expenses			6.0	
Subtotal manhours and cost ==> (Section I.)	0.0	0.0	24.6	
<u>(Section II) Project Planning</u>				
Installation/Education-conversion tools, utilities. Setup OPC. Update system doc- umentation. Install conversion tool, pilot testing, etc.		420	37.8	
Development of conversion plan	420		37.8	
<u>Conversion</u>				
Kernel preparations		101	9.5	(4.1)
Convert 300 batch programs		105	9.1	(7.6)
Convert 325 Ads dialogs		108	9.7	(3.9)
Convert 400 maps		102	9.2	(1.2)
Convert 300 procedures(job streams)		93	8.4	(4.2)
Batch testing		91	8.2	(3.6)
On-line testing		77	6.9	(3.1)
Setup & test OPC/A execution, dependencies		115	10.4	
IDMS DB/DC support		70	6.3	
Support (6) AS/400 project interfaces		168	15.1	15.1
Project Management	365		32.9	
<u>Production Support after cut-over</u>				
Project management & cleanup	70		6.3	
Subtotal manhours and cost ==>	855	1335	207.6	(12.6)
Project Estimate ==>	855	1335	232.2	(18.9)
<u>Optional tasks with cost reduction options</u>				
Rewrite 15 programs (1)		315	28.4	28.4
Customize,install OPC EndUser Panels (2)		70	6.3	6.3
Subtotal manhours and cost ==>		385	34.7	

Notes.

- (1) Task not initially identified by VMEA staff in first proposal.
May be rewritten by VMEA Systems staff (vs. consultants)
- (2) Additional OPC function which allows end users to add work to

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Subject: Appendix V

91-11-29

daily schedule direct, vs. through scheduling administrator.
May or may not be elected.

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Subject: Appendix VI 91-11-29

--- Received from VD.TSV 031-662222 91-11-28 11.23
-> VD.INGE INGE FORSBERG 2510

Appendix VI. UniCenter II VSE Product Conversion

The following identifies current DOS/VSE products and probable MVS alternatives as noted in Section 2.2 of the Volume and Pricing Agreement.

UniCenter II VSE Migration by Product	(--In Man Hours--)		Source
	Project Leader	Project Team (1000's) A's	
VMEA Product (From)	VDNA Product (To)	() = Notes	
Vollie	TSO/E	(2)	00 0.0 Mexpack
Dynam-T	CA-One		105 0.0 Mexpack
Jars-IDMS	VNAC Internal Exits	(1)	21 2.0 VCNA
Westinghouse	DFDSS and/or		70 0.0 Mexpack
	IDMS Rel. 10.2		21 2.0 VCNA
Doctor D	DFDSS		35 0.0 Mexpack
FAQ/S	SDSF	(2)	00 0.0 Mexpack
Cobol Optimizer	F Cobol	(2) (function of)	00 0.0 Mexpack
BMC Optimizer	BMC Optimizer	(MVS)	00 0.0 VDNA
IPCP/XM	CAFC		35 0.0 VDNA
QuickJob	DYL280	(3)	00 0.0 Mexpack
QuickWrite	DYL280	(3)	00 0.0 Mexpack
QuickDL1	DYL280	(3)	00 0.0 Mexpack
Raps	RMDS / VPS		98 0.0 VDNA
CA-Jars	SAS Base		70 0.0 VDNA
CA-Scheduler	OPC/A		185 0.0 Mexpack
CA-Jars/CICS	VGHT Internal Exits	(1)	35 0.0 VDNA
Manhours and cost ==>			675 4.0

Notes:

- (1) VNAC has internal exits which captures IDMS data to SMF for purposes of mgmt reporting and chargeback. Chargeback system is Legent BDBF. Current analysis is that these exits could easily be adapted to replace the CA-Jars/IDMS product currently providing this function today. VCNA position on the use of these exits is that they are available free of charge to VMEA. Any manhours invested in the project is billable (and are included in this estimate.) These exits are available "as is" and are not supported past the project stage.
- (2) Conversion from DOS to MVS of this product is included as part of the estimate in Section II, therefore cost is not shown here.
- (3) It is assumed that the functionality of the QuickJob series of products will not be converted to MVS. Easytrieve or DYL280 is a suitable alternative product that may be utilized, saving version upgrade cost.

DATE	TIME	PERSON	TASK
Friday	20:30		VCNA LPAR must be up.
	21:00	Rob E. Steve M. Kevin K.	<ol style="list-style-type: none"> 1) 800 service for dealers in US switched to T's connection in Greensboro 2) 800 service to Canada switched to Greensboro 3) Test lines. 4) Load NCP in Rockleigh from Greensboro. 5) VCNA Lpar must be brought DOWN to prevent communication to Greensboro in error 6) Put bridges on T's in token ring backbone mode.
Saturday	8:30	Ed D. Phyllis R.	Verify that all chpids are assigned to correct LPARs, reinit all DASD and ensure all DASD is ready for system restore.
	9:45	Fay D.	Pickup personnel and tapes at airport.
	10:00	Ken C. Ed M.	Set up VCNA library.
	10:30	Kent B. Vern C.	Unload tapes and place in tape racks. Mount tapes.
		Georgia P. Phyllis R.	Begin VCNA restores.
		Ed D. Lou O.	On site until restores complete.
	13:00 - 14:00		Restores done and VCNA LPAR up.
		Brew E.	VTAM Mods.

DATE	TIME	PERSON	TASK
Saturday	13:00	Rob E. Dean B.	Modems installed.
	14:00	Rockleigh Kent B.	VCNA LPAR certification. - OPCA certification.
	15:00	Turner/Carle	Go/No go on batch.
	15:30	Don B. Mike C.	Run VCNA batch.
Sunday	06:00	Turner/Thompson	System Verification

	<u>Bus. Phone</u>	<u>Home Phone</u>	<u>Pager</u>
Bebout, Dean	919-279-2222,	919-854-2360,	919-333-8540
Becraft, Kent	919-279-2562,	919-993-3950,	919-333-8527
Bowes, Graham	201-767-4873,	201-764-3915	
Carle, Ken	919-279-2683,	919-668-4804,	919-333-8528
Casey, Ron	919-279-2639,	919-969-5136,	919-333-8532
Chanda, Vern	919-279-2680,	919-282-5614,	919-333-8530
Deloye, Ed	919-279-2684,	919-697-7233,	919-333-8535
Donahue, Fay	919-279-2674,	919-852-1892,	919-333-8536
Erikson, Rob	919-279-2574,		919-333-8534
Evans, Brew	919-279-2630,	919-299-3900,	919-333-8533
Koeller, Kevin	919-279-2539,	919-724-5142,	919-333-8541
Morono, Steve	919-279-2691,	919-993-0866,	919-333-8538
Parsons, Georgia	919-279-2681,	919-299-5425,	919-333-8531
Thompson, Cliff	919-279-2677,	919-292-1123,	919-333-8542
Turner, John	201-767-4712,	914-496-6193	

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Subject: PLAN 91-03-25

VNA DISKLAYOUT at VDNA

DEV	Ä	VOLSER	OSTEST 4/1 Move 1	PROD.TEST 4/21 Move 2	PROD. 5/19 Move 3	VNA DISKS 6/2
140		ID1300	K			
141		ID1301	K			
142		ID1302	K			
143		PL1300	K	504	K	
144		ID1303	K			
145		ID1304	K			
146		ID1305	K			
147		VS1300	K	501	K	
150		ID3106	K			
151		ID3107	K			
152		ID3108	K			
153		ID3109	K			
154		ID3110	K			
155		ID3111	K			
156		ID3112	K			
157		ID3113	K			
160		SYSR10	E	500	K	
161		ME2100	E	508	K	
162		SYSZZX	E	593	EMC	
163		SYSZZW	E	SPARE		
164		SYOR99	E	SPARE		
165		SY1R11	E	510	K	
166		SYOR85	E	SPARE		
167		SY1R1Y	E	509	K	
168		WD2100	E	580	EMC	
169		RM2100	E	58C	EMC	
16A		WD2101	E	587	EMC	
16B		SY1R1X	E			

DSS Spool Volumes

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Subject: PLAN 91-03-25

DEV Ä VOLSER

OSTEST 4/1
Move 1PROD.TEST 4/20
Move 2PRODUCTION 5/19
Move 3

2C0	ID1134	E		
2C1	ID1125	E		
2C2	ID1138	E		
2C3	PL2100	E	592	EMC
2C4	HS2100	E	517	K
2C5	ID1128	E		
2C6	ID1123	E		
2C7	SMPR11	E		
8A0	J2SR11	D	590	EMC
8A1	MD1121	D	581	EMC
8A2	TS1121	D	588	EMC
8A3	PG1R11	D	PAGE	597 EMC
8A4	PP1200	E	583	EMC
8A5	PP1201	E	50A	K
8A6	PP1202	E	50E	K
8A7	PP1203	E	502	K
8B0	VS1121	D	591	EMC
8B1	PG1R10	D	PAGE	589 EMC
8B2	VS1123	D	596	EMC
8B3	SYOR01	D	SPARE	
8B4	PP1204	E	516	K
8B5	PP1205	E	506	K
8B6	PP1206	E	511	K
8B7	HS1121	E	50C	K
A00	SSDA00	PAGE		
A01	SSDA01	PAGE		
A02	J2CR10	CKPT	582	EMC
A03	SSDA03	PAGE		
A08	SSDA08	PAGE		
A09	SSDA09	PAGE		
A0A	SSDA0A	PAGE		
A0B	SSDA0B	PAGE		

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Subject: PLAN 91-03-25

Things to test when moving DC to Greensboro.

A: Hardware

Responsible

1.

B: Software

1. TSO
2. IDMS
3. Omegamon
4. JES328x
5. VPW

C: Applications

1. DCS
2. TRACS

D: Communications

1. S/1
2. BSC RJE

E: Things to remember

931201

Fay

OPERATING SYSTEM SUPPORT GROUP

VERN CHANDA

SMS
HSM
DFDSS
FDR
Disaster Recovery

TIM PERKINS

Capacity Plan
Tuning
COBOL, PL1, Panval.
MIA/MAD
SAS
IOCP/MVSCP Gens
Abend/Aid
PSF

DENNIS JOEBGEN

ACF2 *
INFOMAN *
ISPF
Automate #
VICS *

MATS VINNEFORS

MVS
JES2
CA1
MEXPACK SUPPORT

ED MARTINEZ

MVS
JES2
MEXPACK SUPPORT
HYPER-Channel#
Console Master
PSF
IOF

* SUPPORT FOR C1 and C4 ONLY

C1 ONLY

Ron Casey

DATA COMMUNICATIONS GROUP

BREWSTER EVANS

VTAM
SESAM
MEMO
VPS
TCP/IP
NCP
VCOM
NFS

STEVE MORONO

CICS #
SESAM
MEMO
NCP

BILL BALDWIN

DB2 #
IMS #
Platinum Products #

March 7, 1991

General Manager VDHA
Ronny Westher

Customer Contact Manager
Don Swankie

Data Services Manager
Cliff Thompson

Operations Manager
Ken Carlie

Software & Security Manager
Fay Donahue

Telecommunications Manager
Ron Casey

Secretary
R. Miller

Operations Analysts
K. Becraft SOA
G. Parsons OA

Software
E. Deloye PM
L. Ovitto PL
T. Perkins PL
V. Chanda SP

Software
B. Evans PM
S. Horono PL
L. Delacour PL
D. Nields ASP

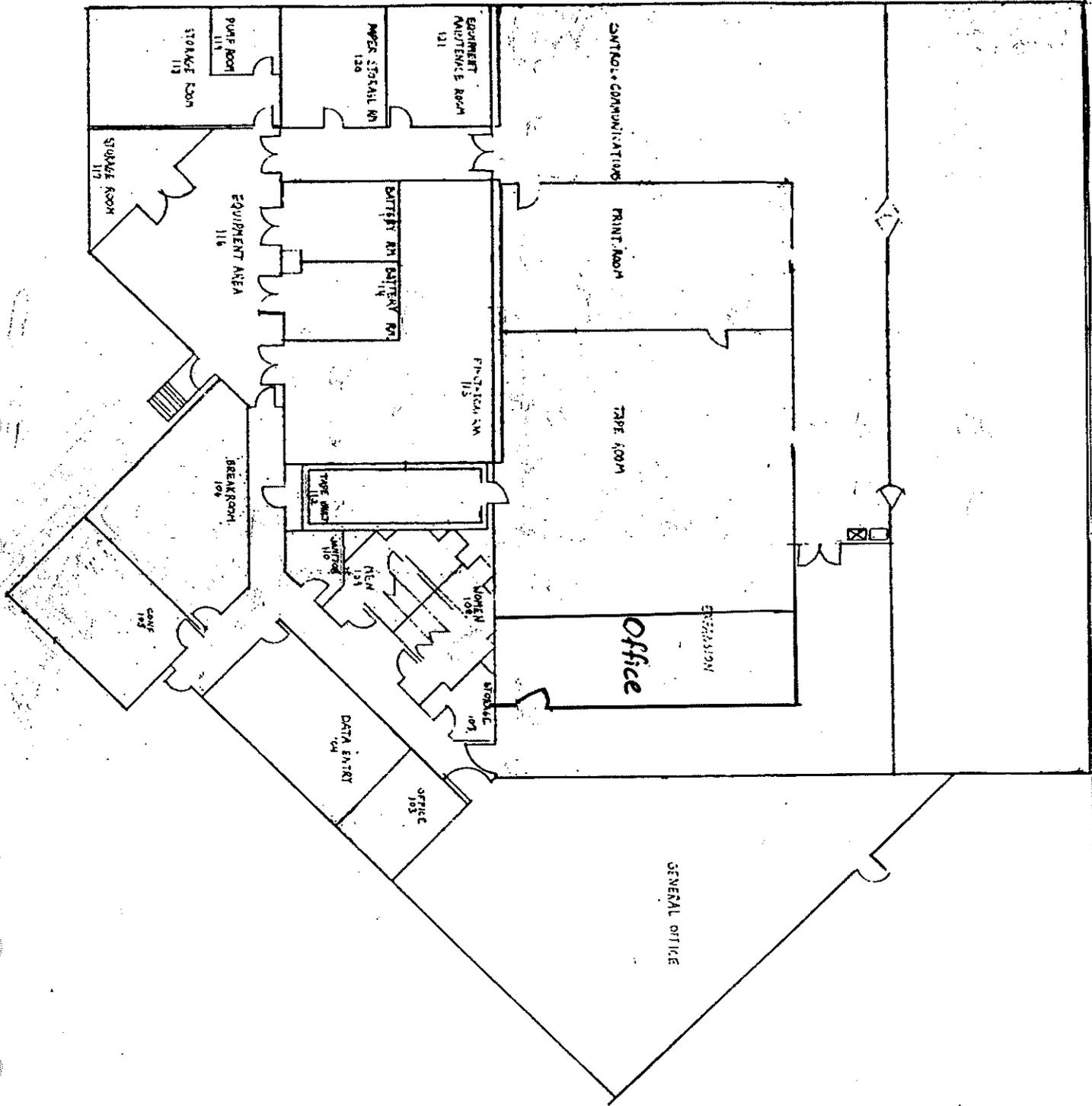
Customer Service
C. Chanda CSR
C. Morgan CSR
S. Wall CSR

Security
D. Joebgen SP

Hardware
R. Erikson PM
D. Bebout Comm. Anal.
K. Koeller Comm. Anal.
D. MacDonald Comm. Tech.

Operators
T. Koeller OA
E. Maloney OA
B. Simpson OA
D. Burch Sr.Op.
M. Clark Sr.Op.
B. McDaniel Sr.Op.
D. Janssen Op.

ASP - Associate Systems Programmer
CSR - Customer Service Representative
OA - Operations Analyst
OP - Operator
PL - Project Leader
PM - Project Manager
SOA - Staff Operations Analyst
SP - System Programmer
SrOP - Senior Operator



Hardware

IBM 9021 - 580
256 CS 128 ES 64 Chan

DASD 250 GB (MRX 3890 & IBM 3380K)

Tape Cartridge 2 2X8 autoloader

Automatic Tape Library 4X16 5000 cartridges

2 IBM 3725

2 IBM 3825 Laser Printers

MRX SSD 256 MB

On Trial

MRX Dual density 3890 (120 GB 3.15m X .92m)

EMC SYMETRIX (1 GB X 24GB)

Facility

11,000 sq. ft. Raised Floor

3 Water Chillers

6 Air Conditioners (240 tons each)

2000 AMP Service

300 KVA UPS

500 KW Generator (future)

4,000+ sq. ft. Unused Raised Floor

Organization

Telecommunications

IMS

CICS

VTAM

NCP

Netview, NLDM, NPDA

DB2

MEMO, SESAM

Develop & Maintain Interactive Software ACF2 Interfaces

Telephone Switch

Changes, Maintenance, Trouble Shoot and Repair

3174 and CRT Installation

Modems

Lines

Multiplexors

3725

Fiber

TR

ETHERNET

Communications Tuning & Capacity Planning

Network Design

Comm. Hardware Planning and Configuration

Comm. Network Disaster Recovery

VOLVO

Volvo Data North America

Software and Security

MVS / JES2

VM/PDM

NON TP Products

Tuning

Capacity Planning

Hardware Planning and Configuration

Disaster Recovery

Security / ACF II

Operations

Operations Analysis

DASD allocation and maintenance

Tape Library

Backup and recovery

Production job tuning

Automation

Quality Control

VOLVO

Volvo Data North America

Customer Service

Help Desk

TSO, MEMO, SESAM, ACFII ID's

Phone Switch programming

Scheduling for VGHT

Operators

Automation

Special Projects

VOLVO

Volvo Data North America

Customers

Sales \$10,500,000

VGHT

Fixed price contract for
37 MIPS and 170 GB
Variable price for managing
Network
Printing
Telephone Service
Unique software

Support for
5 Manufacturing locations
5 Warehouses
200 US Dealers
30 Canadian Dealers
Engineering data storage
Central Office

VOLVO

Volvo Data North America

VCNA

Fixed price contract for
18 MIPS 80 GB

Variable price for managing
Network

Unique Software

Support for

Corporate Headquarters

6 Warehouses

9 District Offices

412 Dealers

2 Plants (Car and Boat Engines)

1 Olofstrom - Robotics

1 Volvo Finance North America

4 Material Handlers

2 Volvo Transport - Materials Division

1 Bus

8 Other Offices

VOLVO

Volvo Data North America