

Issuer: 2510 GUNNEL ISAKSSON 031-667162

Subject: GGG-prot 91-06-27

Protocol from the 'GGG-meeting' in Gothenburg, june 3rd - 7th.

Volvo Data has a management responsibility not only for the datacenter in Gothenburg but also for VEDA in Gent and VDNA in Greensboro. In order to increase the cooperation between these datacenters Ronny Wester has initiated an activity that is called the 'GGG-project'.

The task for the project is to create a plan for how to standardize our datacenters and increase the co-operation between the datacenters. The reasons for standardization are basically:

- our customers have expressed a need for a commonality between the datacenters. They have asked for similar services from Volvo Datas datacenters and they need a flexibility in exchanging applications and data between the centers.
- our customers have asked for a similar structure for the pricelists from the datacenters so that the prices mean the same and can be compared. This also gives a possibility to compare the efficiency between the datacenters.
- standardized datacenters makes it possible for us to move load between the datacenters in order to efficiently use the capacity installed at Volvo Datas sites.
- standardized datacenters also makes it possible for one datacenter to be backup for another datacenter, both in terms of equipment and personel. One datacenter can be operated remote from another site and we can take advantage of different time zones.
- we can achieve a more efficient use of the skill from our technicians and operations personel. We can exchange manpower between the centers and it is not necessary to 'invent the wheel' more than once.
- achieve an improved quality at the datacenters
- reduce the purchasing costs by buying at the location where the vendors offer the best prize
- it is a strategic issue to have the datacenters look and act as one datacenter

The project is restricted to operations, technical support and communications for the MVS-systems and the network at the 3 sites.

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The agenda for the meeting consisted of the selected areas which we had identified as strategic to reach the goals of standardized datacenters. General conclusions made during the meeting:

- we need a strategy for the role, services and functions each datacenter shall provide
- VEDA is much more like Volvo Data than VDNA. VEDA has used MEXPACK for many years and has often used the solutions provided by Volvo Data.
- both VEDA and VDNA are small compared to Volvo Data and because of this it is not always possible to afford the same software and hardware on these locations
- an increased cooperation between the datacenters needs an increased travelling
- MEXPACK is a good base in order to achieve a standardization, increased quality and rationalization
- MEXPACK has to be tailored to a new situation. Before it was a copy of a Volvo Data system, now it must be the glue between 3 datacenters and solve the needs at these 3 locations. The documentation must be improved and all functions must be shipped in a proper way.
- Volvo Data has the biggest manpower and for some areas that requires a lot of resources Volvo Datas responsibilities has to be extended. Instead of running projects at 3 locations we will do it in one and extend the responsibility to also include the other datacenters. It is important to have the participation from the other datacenters in the joint projects.
- common documentation must be done in English
- we need a common defined, agreed and documented naming standard
- we need a common defined, agreed and documented JCL
- VEDA and VDNA employees are VD-employees. This must be communicated and much of the information must be global. One suggestion is to have the employee paper, Terminalen, sent to VEDA and VDNA and have articles translated to different languages.

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Summary and conclusions for the selected topics.

Operations and automation:

- automation of operations is a major project. Volvo Data is spending a lot of resources in this area. This project must be a joint project with participation from VEDA and VDNA. Volvo Datas responsibilities must be extended and the project must pick up the needs for VEDA and VDNA and their current position and define the strategy for the project.
- solutions and products for operation and automation must be shipped in MEXPACK. We need a common mandatory base with local options.
- we have some conflicts regarding used products at the sites but we agreed on using the VD-strategy
- questions with Volvo Datas strategy in this area are when there will be available products and what these products will cost
- when VDNA installs OPCA it might be a good oppurtunity to change JCL according to a common standard

Storage Management:

- we have different backup philosophies at the datacenters and the responsibility between Volvo Data and the customer differs between the sites
- portable applications need the same functions, services and standards at all locations. Same software for the functions is not always necessary but makes it easier and provides a safer way of ensuring high quality.
- same accounting must be implemented
- the difference in size between the datacenters means that it is not always possible to have the same software and hardware
- Volvo Datas SMS-project must be extended to also include VEDA and VDNA. We need to pick up the needs from VEDA and VDNA and their current position and define the strategy and we need the participation from VEDA and VDNA in the project.

Security:

- security is a global matter and must be implemented in a similar way to achieve a secure environment
- the Security Committe and Security Board have an international responsibility. The rules are set by the Board and we must all follow these.
- Volvo Data must supply VEDA and VDNA with solutions, guideance and information regarding security

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Data Base Systems:

- VDNA needs IMS V3 and CICS V2 before Volvo Data can supply these versions in MEXPACK. VDNA must install the new versions themselves and convert to MEXPACK later this fall.
- software cost is a problem due to different size. VEDA and VDNA can't always afford to install the same tools as Volvo Data. We need to define a common mandatory base and optional software that can be installed.
- Volvo Data developed tools can be used either at Volvo Data or shipped in MEXPACK. We will look into the possibility to ship VINFO and GENI in MEXPACK.

Communications:

- Volvo Data suggests the splitting of the physical network in 3 parts. VEDA will be responsible for the physical network in Europe, VDNA will be responsible for the physical network in North America.
- we need to agree on a common naming standard for the communications area
- Volvo Data (2200) must initiate a project for SNA-coordination. Topics that must be included are responsibilities, the generation process, standards and operations.
- we must agree on a common way of calculating and accounting for network services
- a topic also to be discussed is if we shall have a co-operative operation of the network. Shall the operation be shifted between the datacenters during weekends, nights and vacations?

Accounting:

- we will aim for similar principles of price-calculation and a similar structure for the price lists in 1993. In order to do this we need to define the items in the price list, we need to collect data in order to be able to set a price, we need the same structure for calculation the prices and handling the costs.

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Quality process:

- if it is cost effective we should have the same way of measuring availability and response times in order to be able to compare figures
- at a start we will have separate reports for each datacenter
- VMF must be shipped in MEXPACK to VDNA
- in 92 we will start a project to find a common and better way of measuring response times. This project is a joint project between the locations.
- we must have coordination of changes that affects the other datacenters. A suggestion is to have a flag in the change record to indicate if the change is local or global.
- Infoman and Volvo Data developed tools must be shipped in MEXPACK. We will start a project when the new version of Infoman is to be installed to define the procedures and tools. This project is a joint project between the locations.
- another possibility is to use Infoman for problem and change at Volvo Data. We will also look into the possibility of using QBASE at Volvo Data or shipping the tool in MEXPACK.
- VEDA will start to use Infoman at Volvo Data this fall for problem and change
- we should have the same skeleton for SLA-agreements at each datacenter. Volvo Data have a skeleton that can be used.

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Decisions for the continued work:

- we will have a steering board for the coordination and joint cooperation between the datacenters. The board will also deal with strategic issues and make decisions regarding the joint projects. Ronny Wester will be the chairman. The steering board will meet 2 times a year. The next meeting will take place this year late october or in november.
- we will have a product board that will meet 2 times a year in close connection with the steering board. The purpose with the product board is to exchange experiences, coordinate the product plans and project plans and to coordinate testing and installation of new products/releases. Tomas Svensson is responsible in defining the purpose and the role with the product board.
- installation of MEXPACK at VDNA has the highest priority. It is important to make sure that MEXPACK is designed in accordance with the needs from the 3 locations. MEXPACK must be well documented and all functions must be shipped in a proper way. Critical issues are common naming standards for datasets, SNA components and JCL. MEXPACK must be designed with a common mandatory base and with the possibilities of local options.
- it is important to start activities in defining the principles for a similar price structure for 1993. This requires a definition of services and a similar structure for the calculation of prices and a similar way of handling costs. Ann Elmeland-Ygge is responsible for this activity.
- a project for SNA-coordination must be started after this summer. Arne Hasselgren is responsible for this activity.
- we will start joint projects in accordance to available resources. Automation should start after this summer. Håkan Robertsson is responsible for this subject and will take contacts with VEDA and VDNA. SMS will probably be a later activity according to available resources at VDNA. Lars Danielsson is responsible for this subject.
- each datacenter is responsible for its capacity planning and tuning. Lars Åström will look into the possibility of having a cooperation in capacity planning and tuning and a way of exchanging ideas and experiences.
- a similar quality process is not a prioritized activity for now. Though, VEDA would like to use Infoman at Volvo Data this fall for change and problem. Later this fall we will discuss the use of the QBASE tool.
- we see a need in having video conferencing between the datacenters. Lars Oden is responsible for an investigation of this topic and this investigation must look into the possibilities and the extent of this need between the datacenters.

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Subject: GGG-projdir. 91-09-18

Project Directive for the GGG-project.

Volvo Data has a management responsibility not only for the datacenter in Gothenburg but also for VEDa in Gent and VDNa in Greensboro. Our customers have expressed a need for a commonality between these datacenters, they have asked for similar services and they need a flexibility in exchanging data between the datacenters.

In order to satisfy our customer needs and achieve rationality and more efficiently use our resources the GGG-project has been started. GGG stands for Gothenburg, Gent and Greensboro. The purpose with the project is to standardize products and methods for operations, technical support and communications and increase the co-operation between the datacenters.

The goals for the project are:

- make it possible and easy to move applications and data between the datacenters
 - make it possible to balance load between the datacenters
 - use one datacenter as backup for another datacenter
 - make it possible to remotely operate one datacenter from another datacenter
 - define and agree on a common name standard
 - define and agree a common JCL
 - define and agree on a common method of calculating prices
 - define and agree on a common structure for the price lists
- (- reduce the purchasing costs by buying at the location where the vendors offer the best prize)

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The project is divided in the following subprojects:

1. Common Platform and Mexpack

A common platform for our datacenters must be defined. It consist of a base with mandatory products and products that are optional depending on the installation. The documentation also includes methods, name-standards for system datasets, JCL-rules and a description of how the products are implemented and distributed.

Responsible: Inge Forsberg, 2510, and Bert Christensson, 2520
VEDA: Hubert Francet 7600, and Wim Clement 7600
VDNA: Fay Donahue, 1068

2. Database Systems

To develop a product plan that leads to standardized database systems at the 3 datacenters with respect to local needs and differences in size of installation.

Responsible: Perry Lundquist, 2540
VEDA: Hubert Francet 7600
VDNA: Lynn Delacour, 1068

3. Storage Management

To develop a product plan that leads to standardized storage management at the 3 datacenters with respect to local needs and differences in size of installation.

Responsible: Lars Danielsson, 2510
VEDA: Willy De Waele, 7600
VDNA: Vern Chanda, 1068

4. Operation and Automation

To define products and methods used for supervising the MVS-environments. Define a strategy for automation of the operations work and develop a product plan that fulfills the strategy.

Responsible: Håkan Robertsson, 2103
VEDA: Ivan Van Eenooog 7300, Stephan De Bleecker 7300.
VDNA: Kent Beecraft, 1068

5. Communications

Achieve a coordination of activities regarding SNA, VCE, voice and video between the 3 datacenters. Topics that are included are responsibilities, the generations process, standards, operation of the network, calculation of services and accounting of the network.

Responsible: Arne Hasselgren, 2202
VEDA: Chris Vandavelde, 7200
VDNA: Bruce Evans, 1068

6. Economy and Administration

To define a similar way of calculating prices at the datacenters and define a structure for the pricelist

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to be used at the datacenters.

Responsible: Miklos Bajzath, 8010

VEDA: Eddy Boone 07000, (Martina Verween 0710)

VDNA: Cliff Thompson, 1068, Don Swankie, 1068

7. Quality

To define a similar quality process to be used at the datacenters. This includes problem and change management and reporting of availability and response times.

Responsible: Gunnar Svensson, 8015

VEDA: Noel De Meyere 7300 for prob & change mgt

Erik Rooms 7020 for SLR/SLA administration

(EB & HF for defining standards of performance)

VDNA: Ron Casey, 1068

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The project is a joint project between the 3 datacenters. Persons at Gent and Greensboro must be appointed to the project. The task for the subprojects is to:

1. describe the present situation at the 3 datacenters, with focus on differences between the datacenters
2. define and agree on longterm objectives
3. to produce a product plan which describes planned activities next year

The next steering committee will take place early november. Results from the sub-projects will be presented and discussed at that meeting.

A time-schedule for the activities is to be discussed and agreed on at the next steering meeting. The only timing decided so far is that we shall aim for using a similar price list 1993.

Responsible for the project is Tomas Svensson, 2500. The project has a steering group that meets 2 times a year. The group consists of:

Ronny Wester
Lars Aastroem
Hans Orrheim
Tomas Svensson
Eddie Boone
Clifford Thompson

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The GGG storage Management subproject

The GGG Storage Management subproject document is divided in the following parts:

1. Subproject specification
2. Present situation
3. Longterm objectives.
4. Product plan.

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Subproject specificationBackground

The GGG Storage Management subproject is set up according to the the GGG-project specification and will adhere to the same strategical goals.

Our customers have need for similar data set services to get ease and flexibility in exchanging data between the datacenters.

The purpose with the Storage Management subproject is to standardize services, products and methods for operations, technical support and data exchange and increase the co-operation between the datacenters.

Task

1. describe the present situation at the 3 datacenters, with focus on differences between the datacenters
2. define and agree on longterm objectives
3. to produce a product plan wich describes planned activities to the end of 1992

Goals

- follow the common strategic GGG-project goals
- provide the same services for the data sets at the datacenters
- make it possible and easy for the data set owners to move data sets between the datacenters
- make it possible and easy for the Storage Manager to move clusters of data sets between the datacenters on behalf of the data set owners
- create rules and routines to guarantee that data sets backuped in purpose to be restored and used after a disaster, could be restored local or remote (if needed) and used in a proper way with no more time delay than accepted by the data set owners.
- collect and feed the accounting and statistics system with information by a common format
- use, with respect to local needs and differences in size of installation, the same rules, methods and products to perform the same kind of storage management routines

Personal involved

Product responsible (Product).

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Global responsibility concerning main technical questions, principles, quality goals and financial and accounting questions.

Mexpack responsible (Mexpack).

Technical responsibility to specify, manufacture and deliver the product.

Operate responsible (Operate).

Responsibility to install the mexpack delivered product and establish proper operation routines to run the subsystem.

Personal.

VD

VEDA

VDNA

Storage
(general)

Product: Hasse Wicktorin
Operate: Hasse Wicktorin
Mexpack: Lars Danielsson

DFHSM

Operate: Börje Joakimsson

DMS

Operate: Lars Hammar

Accounting

Operate: Lars Hammar

Document syntax

GGG: common solution (reference to VD, VDNA or VEDA solution)
xxxx-cost: investment needed (new licenses etc, in USD)
xxxx-work: work to implement solution (estimated man days)
xxxx-time: time to be ready (e.g. 92Q4)

Note: xxxx = VDNA/VEDA/VD

SMDU Storage Management Document (user interface) (VD)
SMDI Storage Management Document Internal (VD)

Areas to be investigated

Name standard

- Internal data sets, i.e. used by SMS, DFHSM, etc.
- Started tasks
- Volumes
- Storage groups

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GGG: VD name standard is mandatory
VDNA-work:
VDNA-time:
VEDA-work:
VEDA-time:

User interface

- SMS classes, UNIT, volser, etc
- JCL, ISPF/PDF 3.2 etc
- data set name pattern
- special designed interfaces
- documentation

GGG:
VD -work:
VD -time:
VDNA-work:
VDNA-time:
VEDA-work:
VEDA-time:

Data set services

- Creation
- Migration/Recall
- Backup synchronous/unsynchronous
- Compress
- Idle space release
- Deletion

...

Volume services

- Defrag
- Full dump
- Install/Formatting/Vtoc/Vvds

...

Tools

- DFHSM
- DFDSS
- DMS

...

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-----Present situation.

A description of the present situation at the 3 datacenters with focus on differences between the datacenters

Present situation in Göteborg (VD)

Place for:

- Storage Management Document (user interface)
- Storage Management Document Internal
- Differences from an estimated GGG-solution

Present situation in Gent (VEDA)

Place for:

...

Present situation in Greensboro (VDNA)

Place for:

...

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Longterm objectives.

Product plan.

- A product plan, including activities until end 1992, that leads to standardized storage management at the 3 datacenters with respect to local needs and differences in size of installation

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Subject: GGG-möte 91-09-18

Project GGG, subproject DBDC

This is an attempt to briefly describe the current solutions of different areas within the CICS, IMS and DB2 environments, used at the data centers at Gent, Greensboro and Göteborg. The objective of this list is to use it as a base of further discussions in order to define, within each area, the common solution to be used at all the centers in the future. This work is to be based of the common platform and principles, eg name standard, to be defined in another subproject within the GGG project.

The last, and obvious the longest step to take, is the real implementation of the common solutions at each data center. One important part of this is the specification, manufacturing, deliverance and implementation of the MEXPACK package for the three DBDC products.

The primary choise of solution within each area, is the one currently implemented in Göteborg. HOWEVER, different implementations at Gent or Greensboro are to be considered as a possible solution, should it be the best common one.

Further details about the DBDC systems at VD in Göteborg are to be found in the operating handbooks for CICS, DB2 (both not yet complete) and IMS.

The list of areas to begin with is the one following for IMS.
A similar list should be produced also for DB2 and CICS.

Each point of interest should include description, current use in Göteborg, program products included, and main differences in Gent and Greensboro. Later to be described is the common solution, the costs and work to be done to achieve this, as well as a time plan, for each data center.

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GGG: DBDC products, personal involved

At VD the following responsables take part in the subproject:

Product responsible

Overarching responsibility concerning main technical questions, principles, quality goals, and financial and accounting questions.

Takes part in GGG main project meetings.

Supplies information to other persons involved in subproject.

MEXPACK responsible

Technical responsibility to specify, manufacture and deliver the product in proper MEXPACK package.

Operate responsible

Responsibility to install MEXPACK delivered product and establish proper operation routines to run the subsystem.

<u>CICS</u>	<u>VD</u>	<u>VEDA</u>	<u>VDNA</u>
Product:	Bo Andersson		Lynn Delacour
MEXPACK:	Anders Jonsson		Steve Morono
Operate:	Tore Lantz		-"-

<u>DB2</u>	<u>VD</u>	<u>VEDA</u>	<u>VDNA</u>
Product:	Perry Lundqvist	Hubert Francet	Lynn Delacour
MEXPACK:	Eva Falk	Willy van der Bunde	-"-
Operate:	Eddy Carlsson	-"-	-"-

<u>IMS</u>	<u>VD</u>	<u>VEDA</u>	<u>VDNA</u>
Product:	Perry Lundqvist	Hubert Francet	Lynn Delacour
MEXPACK:	Vesna Stauber	Geert van de Steen	David Niels
Operate:	Anders Öhrnberg	-"-	-"-

GGG: DBDC document syntax

Each area of interest is to be described such as:

n. Area headline

a. function/routine headline

DESC: detail description (if needed)

VD: current solution in Göteborg

DOC: detail description (handbook section)

VDNA: current solution in Greensboro

VEDA: current solution in Gent

INV: investigation to be done

GGG: common solution (reference to VD, VDNA or VEDA solution)

VDNA/cost: investment needed (new licenses etc, in USD)

VDNA/work: work to implement solution (estimated man days)

VDNA/time: time to be ready (e.g. 92Q4)

and corresponding for VEDA (or VD) ...

Other shortenings used

V O L V O

Document: MEMO
Regno:

Insert: PAGE: 3
App:

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CICOH/DB2OH/IMSOH = CICS/DB2/IMS Operation Handbook (at VD)
CICMH/DB2MH/IMSMH = CICS/DB2/IMS Method Handbook (at VD)

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GGG: IMS areas to be investigated

0. Name standard

DESC: Includes name standard for

- system
- internal resources
- data sets
- connections (USS/MSC names)

VD: As described in Appendix A
 DOC: IMSOH 2.0
 GGG: VD name standard is mandatory
 VDNA/work:
 VDNA/time:
 VEDA/work:
 VEDA/time:

1. Resource definitions (GENI, DELTAIMS)

2. Resources

- change (ONLCHA)
- stop/start (VINFO)
- allocations (DYNALLOC)
- backup/recovery (DBRC)
- library backup/compress (PDS MAINT)

3. Automated operations

- STC and job scheduling (PROPER, IMF, OPC)
- start/stop/restart
- log handling
- RECON handling

4. User exits and modifications

- IMS exits
- SMF exits
- USERMOD's

5. User tools

- application development (ADF, IEF)
- application testing (BTS)
- IMS commands (VCMD)
- batch utilities (BMC+IMS)
- online utilities (DBMS)

6. Problems

- automated actions/reporting (IMF, NETVIEW, MEMO)
- offline dump processing
- problem reports (INFO/MAN)
- problem solving (IPCS, INFO/MVS)
- application actions/reporting (IMSAOS)

7. System changes

- manufacturing (GENI, SMP)
- propagating

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- change request (INFO/MAN)
- cutover
- fallback

8. Performance and tuning

- online monitoring (IMF, DCMON)
- dedicated MPP's
- program load (PMO, QFETCH)
- data transmission (SUPEROPTIMIZER)

9. Accounting & statistics

- accounting principles
- PU algorithm
- creating data (ARCHIVE)
- keeping data (MICS, QBAS)
- reports

10. Security

- logon
- resource rules (ACF2)
- IMS commands (SMU, VCMD)

11. Disaster recovery

- documentation
- recovery way
- application recovery
- application move

12. MEXPACK

- specification
- manufacturing
- deliverance
- implementation

- end of GGG/DBDC subproject desription -

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Subject: GGG-projspec 91-08-26

--- Received from VD.TS 667790 91-08-23 13.55

-> VD.8015GS	GUNNAR SVENSSON	8015
-> VD.HAS	ARNE HASSELGREN	2202
-> VD.BC	BERT CHRISTENSSON	031-667506 2520
-> VD.INGE	INGE FORSBERG	2510
-> VD.PPL	PERRY LUNDQVIST	2540
-> VD.LD	LARS DANIELSSON TEL.031-667479	2510
-> VD.2103HR	HÅKAN ROBERTSSON	031-667130 2103
-> VD.MIKLOS	MIKLOS BAJZATH	8010

Mitt herrskap, jag har av Ronny ett uppdrag att åstadkomma en standardisering av våra 3 datacentraler. Vi påbörjade ju det arbetet i början på sommaren, bl a med ett besök av VDNA och VEDA. På de mötet drog vi upp grova riktlinjer för vad som ska göras och i vilken ordning. För att det ska bli något av det hela arbetar jag på att formalisera aktiviteterna inom ett projekt. Ni får här ett utkast till projektspec som jag vill att ni tänker till på.

Jag har alltså utnämnt er till delprojektledare och jag hoppas att det inte möter några hinder. Min avsikt är att vi ska samlas regelbundet för att diskutera och följa upp aktiviteterna. Jag har på förslag att vi kan träffas nu på onsdag den 28:e aug kl 13-16 för att färdigställa projektspec och planera det fortsatta arbetet och diskutera hur vi ska lägga upp arbetet. Tänk till på specen för delprojekten, jag anser det viktigt att specen är tydlig så att uppgift, mål och avgränsningar klart framgår.

OK med onsdag den 28:e kl 1300?

MVH/Tomas

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Subject: GGG-projspec 91-08-26

Project specification for the GGG-project.

Volvo Data has a management responsibility not only for the datacenter in Gothenburg but also for VEDA in Gent and VDNA in Greensboro. Our customers have expressed a need for a commonality between these datacenters, they have asked for similar services and they need a flexibility in exchanging data between the datacenters.

In order to satisfy our customer needs and achieve rationality and more efficiently use our resources the GGG-project has been started. GGG stands for Gothenburg, Gent and Greensboro. The purpose with the project is to standardize products and methods for operations, technical support and communications and increase the co-operation between the datacenters.

The goals for the project are:

- make it possible and easy to move applications and data between the datacenters
 - make it possible to balance load between the datacenters
 - use one datacenter as backup for another datacenter
 - make it possible to remotely operate one datacenter from another datacenter
 - define and agree on a common name standard
 - define and agree a common JCL
 - define and agree on a common method of calculating prices
 - define and agree on a common structure for the price lists
- (- reduce the purchasing costs by buying at the location where the vendors offer the best prize)

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Subject: GGG-projspec 91-08-26

The project is divided in the following subtopics:

1. MEXPACK.

MEXPACK is the base to achieve a standardization and a rationalization between the datacenters. The goal is to build one MEXPACK-system and copy this system to the other MVS-environments. MEXPACK must be tailored to solve the needs at the 3 datacenters. MEXPACK consist of a common base with mandatory products and products that are optional depending on the installation. The MEXPACK-system must be defined and documented regarding products, methods and name-standard.

Responsible: Inge Forsberg and Bert Christensson.

2. Database Systems.

To develop a product plan that leads to standardized database systems at the 3 datacenters with respect to local needs and differences in size of installation.

Responsible: Perry Lundquist.

3. Storage Management.

To develop a product plan that leads to standardized storage management at the 3 datacenters with respect to local needs and differences in size of installation.

Responsible: Lars Danielsson.

4. Operation and Automation.

To define products and methods used for supervising the MVS-environments. Define a strategy for automation of the operations work and develop a product plan that fulfills the strategy.

Håkan Robertsson.

5. Communications.

Achieve a clear and well-defined SNA-coordination between the 3 datacenters. Topics that are included are responsibilities, the generations process, standards, operation of the network, calculation of services and accounting of the network.

Responsible: Arne Hasselgren.

8. Economy and Administration.

To define a similar way of calculating prices at the datacenters and define a structure for the pricelist to be used at the datacenters.

Responsible: Miklos Bajzath

9. Quality:

To define a similar quality process to be used at the datacenters. This includes problem and change management

V O L V O

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Subject: GGG-projspec 91-08-26

and reporting of availability and response times.

Responsible: Gunnar Svensson.

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Subject: GGG-projspec 91-08-26

The project is a joint project between the 3 datacenters.
The result from the sub-topics should be agreed strategies
between the datacenters and product plans that describe the
activities within the topics for the next 12 months.

Time-schedule:

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Subject: GGG minimum 92-02-03

--- Received from VD.GUNNARSV +46(0)31-667528 92-02-01 10.28
 -> VD.2103HR HÅKAN ROBERTSSON 031-667130 2103
 cc
 -> VD.TS TOMAS SVENSSON 2500
 -> VD.INGE INGE FORSBERG 2510

Hoppsan !

Kluriga GGG-aktiviteten avseende Greensboro är INFOMAN. Tomas har lovat att ta den diskussionen med Greensboro då han är där i slutet av februari. Då är frågan beträffande Hakan Robertsson enl nedan. När i tiden ? Håkan ! Tomas och jag vill bli uppdaterade.
 /Gunnar Sv

--- Received from VDNA.CASEY 919-279-2639 92-01-29 16.08
 -> VD.GUNNARSV GUNNAR SVENSSON 8015
 GUNNAR,
 In Greensboro we have two Info Management systems based on IBM's Info Management. Car system uses version 1, Truck uses version 3 and mexpack is version 4. We plan to discuss our plans for future use of version 4 for all Lpar's in Greensboro with Hakan Robertsson. We will also discuss possibly use of the Info Mang screens currently used in Gothenburg. Ron Casey
 -> VTC.N07020ER ERIK ROOMS 07000
 -> VDNA.CASEY RONALD CASEY 001068
 cc
 -> VD.TS TOMAS SVENSSON 2500

Good morning gentlemen,
 Project leader Tomas wants a project plan for the Q subproject.
 Ron has written in his memo GGG QUALITY

Activities 1/

Investigate the Q functions provided at the three Datacenters (GGG) and agree to minimum Q functions and facilities.

At the GGG meeting held in Gothenburg in June I had a agenda. Ron and I attended that meeting. I have updated that agenda and it is called MINIMUM OF Q FUNCTIONS as below. When Erik comes here 3-4-5 February I will update Erik.

Many items below are only information between the three Gs.
 Some critical questions:

1. Overall Q report
 I will get in touch with Ronny Wester
2. INFOMAN in Greensboro. What does Greensboro want ?

/Gunnar Sv

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Subject: GGG minimum

92-02-03

Updated 920122

MINIMUM OF Q FUNCTIONS

0. Routines (CHANGE, PROBLEM, INCIDENT, ...)
To be known at each site
1. The quality chain
Documentation, OHs
2. Quality report
To be synchronized ?
 - * Customer feed-back
 - * Week-summary
 - * Response times
 - * Availability
 - * Network availability (+ line definitions)
3. Q matrix
Models used
Personnel responsible for unavailability
Calculation
4. The Board of Directors / overall Q reporting
5. Quality decision meetings (May, Sept, Dec)
Procedure
Participants
Agenda and minutes
6. The Q/weekly meeting
CHANGE/PROBLEM where two(three) Gs are involved
The planning meeting for the weekend
7. Link to capacity planning
8. Approval of equipment (impact on classification of lines)
9. Special report re. CDRMs (?)
10. INFOMAN/CHANGE/PROBLEM
What does Greensboro want ?
11. Opening hours, time zones, maintenance windows, IPL
12. SLA
To be synchronized ?
 - * Services 1991
 - * Contents
 - * Confidentiality
 - * Seminars
 - * The network chapter
13. Vendor review meetings
Information to other Gs ?
Pre-meeting
Participants
Minutes
Personnel responsible
14. Annual Quality Report

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Subject: GGG minimum

92-02-03

15. The QBASE project
Quality index. To set weights/importance.
16. Quality reporting for the future
* DEC, VCE, INTERLINK, EDI, PC, VCOM, AS/400,

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Subject: GGG-SM-projsp 91-10-01

--- Received from VD.LD 031-667479

91-09-30 18.14

Hej.

Här (bilaga nedan) är en början till min projektspecifikation. Dokumentet kommer förhoppningsvis att växa till sig ända fram till slutet av november.

I dokumentet refererar jag på ett ställe till "Storage Management Document (user interface)". Det dokumentet har Gunnel just fräschat upp på svenska. Det skall snarast bli översatt till engelska. Jag skeppar det till er via internposten. Oavsett GGG kan det vara bra för er att känna till vad SM har att erbjuda. Eftersom det är en remiss (en kort tid till) är vi tacksamma för synpunkter.

Den andra referensen "Storage Managent Document Internal" slipper ni. Den är inte så långt kommen ännu och inte heller av samma allmänna intresse.

Hälsn. Lasse.

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Subject: GGG-SM-projsp

91-10-01

The GGG Storage Management subproject

The GGG Storage Management (SM) subproject document is divided in the following parts:

1. GGG-SM Subproject specification
2. GGG-SM Present situation
3. GGG-SM Longterm objectives.
4. GGG-SM Product plan.

Issuer: 2510 INGE FORSBERG 031-667495

Subject: GGG-SM-projsp 91-10-01

GGG-SM Subproject specificationBackground

The GGG Storage Management subproject is set up according to the the GGG-project specification and will adhere to the same strategical goals.

Our customers have need for similar data set services to get ease and flexibility in exchanging data between the datacenters.

The purpose with the Storage Management subproject is to standardize services, products and methods for operations, technical support and data exchange and increase the co-operation between the datacenters.

Task

1. describe the present situation at the 3 datacenters, with focus on differences between the datacenters
2. define and agree on longterm objectives
3. produce a product plan wich describes planned activities to the end of 1992

Goals

- follow the common strategic GGG-project goals
- provide the same data set services
- collect, preprocess and feed the accounting and statistics system with information by a common contents and format
- provide a method to move single data sets between the datacenters with ease, functionality and support to current existing data set services (will probably be included in the GGG-Communications subproject)
- provide a method to the Storage Manager to move clusters of data sets between the datacenters, with ease and functionality
- use, with respect to local needs and differences in size of installation, the same rules, methods and products to perform the same kind of storage management routines
- create rules and routines to guarantee that data sets backuped in purpose to be restored and used after a disaster, could be restored local or remote (if needed) and used in a proper way with no more time delay than accepted by the data set owners

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Subject: GGG-SM-projsp 91-10-01

Staff

Category description

Product responsible (Product).

Global responsibility concerning main technical questions, principles, quality goals and financial and accounting questions.

Mexpack responsible (Mexpack).

Technical responsibility to specify, manufacture and deliver the product.

Operate responsible (Operate).

Responsibility to install the mexpack delivered product and establish proper operation routines to run the subsystem.

	VD	VEDA	VDNA
Subproject	Lars Danielsson	Willy De Waele	Vern Chanda

Storage
(general)

Product: Hasse Wicktorin
Operate: Hasse Wicktorin
Mexpack: Lars Danielsson

DFHSM

Operate: Börje Joakimsson

DMS

Operate: Lars Hammar

Accounting
(data coll.)

Operate: Lars Hammar

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Subject: GGG-SM-proj91-10-01

Areas to be investigated

Data set services (orderable and standard)

- Creation
- Migration/Recall
- Backup synchronous/asynchronous
- Compress
- Idle space release
- Deletion

User interface

- SMS classes, UNIT, volser, etc
- JCL, ISPF/PDF 3.2 etc
- data set name pattern
- special designed interfaces
- documentation

Name standard

- Internal data sets, i.e. used by SMS, DFHSM, etc.
- Started tasks
- Volumes
- Storage groups

Accounting

- accounting principles
- SRU (Space Resource Unit)
- data collection
- preprocessing
- format
- keeping data
- statistics

Tools (data managers, data movers, monitors, tape managers, ...)

- DFHSM
- DFDSS
- DMS
- TMS
- ...

Exits and modifications

- DFP exits
- DFHSM exits
- VAMS
- DMS exits

Backup

- data set support
- disaster recovery support
- integration data set and disaster recovery support

Automated operations

- STC and job scheduling (OPC, Netview,)

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-
- log handling

Authorization

- Storage Management functions
- Storage Management's data sets

Volume services

- Defrag
- Full dump
- Install/Formatting/Vtoc/Vvds
- Treshold monitoring
- ...

Problems

- automated actions/reporting
- problem reports
- problem solving

Performance and tuning

- online monitoring

Disaster recovery

- documentation
- principles

Mexpack

- specification
- manufacturing
- deliverance
- implementation

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Subject: GGG-SM-projsp 91-10-01

GGG-SM Present situation

A description of the present situation at the 3 datacenters with focus on differences between the datacenters. In purpose to give the discussion a platform to start from, the GGG solution is supposed to be like the VD solution.

Present situation at VD

Refer to:

- Storage Management Document (user interface)
- Storage Management Document Internal

VD differences compared to the GGG-solution

...

Present situation at VDNA

...

VDNA differences compared to the GGG-solution

...

Present situation at VEDA

...

VEDA differences compared to the GGG-solution

...

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Subject: GGG-SM-projsp 91-10-01

GGG-SM Longterm objectives

Common dataset services

- 1. Mandatory support for
 - storage class STANDARD
 - and
 - management class NOBACKUP
 - BACKUP1
 - BACKUP7
 - BACKUPC
 - DEL2
 - PROFILE

and there corresponding services as at VD-installation.

- 3. Common solution concerning other services and their corresponding SMS-classes (or other user-inteface)

- Some other classes are already used for storage management internal business at VD and could be a platform for further discussions.
- there are need for new classes to support service that are provided today in VEDA/VDNA/VD which doesn't fit in any of the mandatory SMS-classes
- some installation unique services used only local could be defined as local and not implemented in the other installations
- the following services (initial mandatory services excluded) will be used common
 - .
 - .
 - .
 - .

4. ...

5. ...

...

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Subject: GGG-SM-projsp 91-10-01

GGG-SM Product plan

A product plan, including activities until end 1992, that leads to standardized storage management at the 3 datacenters with respect to local needs and differences in size of installation

Activities

1. Investigate the today provided services at each installation

- define each provided dataset service
- find a method to convert each specific service to, if possible, one of the corresponding mandatory services without, or as little as possible, demand for user activities
- decide what to do with other services. Convert to new defined SMS services, keep as they are or ...

VD -work:
VD -time:
VDNA-work:
VDNA-time:
VEDA-work:
VEDA-time:

2. Support for SMS classes and their corresponding services

- define storage groups
- create proper SMS constructs and ACS routines
- customize DFHSM or FDR if needed
- inform and educate the users
- change the ACS routines step by step where each new step selects one more type of new allocations until all types of allocations are trapped and directed to SMS

VD -work:
VD -time:
VDNA-work:
VDNA-time:
VEDA-work:
VEDA-time:

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Subject: GGG-SM-projsp

91-10-01

-> VD.TS	TOMAS SVENSSON	2500
-> VD.INGE	INGE FORSBERG	2510
-> VD.BC	BERT CHRISTENSSON	031-667506 2520
-> VD.PPL	PERRY LUNDQVIST	2540
-> VD.2103HR	HÅKAN ROBERTSSON	031-667130 2103
-> VD.HAS	ARNE HASSELGREN	2202
-> VD.MIKLOS	MIKLOS BAJZATH	8010
-> VD.GUNNARSV	GUNNAR SVENSSON	8015
-> VD.HH	HENRIK HOLST	2502

Issuer: 2202 ARNE HASSELGREN 031-667644

Subject: GGG proj 5 *Comm*

91-10-07

--- Received from VD.HAS 031-667644
--- Received from VD.HAS 031-66764491-10-07 08.42
91-10-07 08.41

Hej.

Som ni kanske vet så har jag fått ett uppdrag att hålla ihop 2200 GGG (Gent Greensboro Göteborg) aktiviteter så att vi kan få datacentralerna att i största möjliga utsträckning att se lika ut, m.a.p produktbud och prisstruktur. Vi har fått 10 mw för 1992. Hur mycket vi kan jobba med detta under 1991 vet jag inte men ni som kommer att jobba i projekt kan rapportera eran tid på 092507. Ni får gärna ha synpunkter på innehåll och stavfel. Ronny skall träffa Cliff Thomson och Eddy Boone i slutet av november och då skall projektspecen vara klar.

/arne

The GGG Communication subproject

The GGG Communication (COM) subproject document is divided in the following parts:

1. GGG-COM Subproject specification
2. GGG-COM Present situation
3. GGG-COM Longterm objectives
4. GGG-COM Product plan

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Subject: GGG proj 5

91-10-07

GGG-COM Subproject specificationBackground

The GGG COM subproject is set up according to the the GGG-project specification and will adhere to the same strategical goals.

Our customers have need for similar price structure so they ease can compare prices when moving application between datacenters. Our customer also have need for a similar logon to all Volvo application round the world.

The purpose with the Communication subproject is to standardize services, products and methods for Sna, Voice, Vce and Video communications.

Task

1. describe the present situation at the 3 datacenters, with focus on differences between the datacenters
2. define and agree on longterm objectives
3. produce a product plan wich describes planned activities to the end of 1992

Goals

- follow the common strategic GGG-project goals
- provide the same data communication services
- provide same prices structure in communication area
- provide a Sna enviroment so people can logon to application in same way from any datacenter.
- provide same metod for measure quality in the network
- provide accounting tools in Tpreg
- provide an ncpgeneration enviromet so all Ncpgens can be done from Tpreg
- use Help for documentaion of network, applications and other useful network information
- provide same Voice communications services and same price structure for pricelist 1993.
- agree on a common developing plan for Voice communication
- provide same Vce services and same price structure for pricelist 1993.

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Subject: GGG proj 5

91-10-07

-
- agree on a common developing plan for Vce
 - provide same Video services and same price structure for pricelist 1993.
 - agree on a common developing plan for Video

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Subject: GGG proj 5

91-10-07

Staff

Category description

Product responsible (Product).

Global responsibility concerning main technical questions, principles, quality goals and financial and accounting questions.

Mexpack responsible (Mexpack).

Technical responsibility to specify, manufacture and deliver the product.

Operate responsible (Operate).

Responsibility to install the mexpack delivered product and establish proper operation routines to run the subsystem.

Subproject	VD	VEDA	VDNA
SNA	Arne Hasselgren	Cris Vandervelde	Brewster Evans

Product: Åke Lindmark
Operate: Bengt Rydberg
Mexpack:

VOICE Hasse Oom

Bobby Ericson

Product: Hasse Oom
Operate: Hasse Oom

VCE Martin Särnberger

Bobby Ericson

Product: Martin Särnberger
Operate: Bengt Rydberg

VIDEO Göran Johansson

Bobby Ericson

Product: ?
Operate: ?

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Subject: GGG proj 5 91-10-07

Areas to be investigated

Can VDNA use VD as Bacupcenter

Name standard

- Agree on a new Sna component list

Accounting

- accounting principles
- technic

Tools

- Help
- Vmf
- Tpreg
- Ncp gen

Problems

- problem reports
- problem solving

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Subject: GGG proj 5

91-10-07

GGG-Com Present situation

A description of the present situation at the 3 datacenters with focus on differences between the datacenters. In purpose to give the discussion a platform to start from, the GGG solution is supposed to be like the VD solution.

Present situation.

Below is a short way to describe the differences in GGG.

Task	VD	VEDA	VDNA
Use Vmf for qualiti	Yes	Yes	No
Use Help for TP info	Yes	Yes	No
Use Tpreg for Ncpgen	Yes	Yes	No
Use Tpreg for accounting	Yes	No	No
Gen of NCP	2230	2230	VDNA
Gen of Modetabels	2230	2230	VDNA
Gen of Pathtabels	2230	2230	2230
Gen of Costabels	2230	2230	2230
Gen of USStabels	2230	2230	VDNA
Product calculation	2230	VEDA	VDNA
Maint of NCP	2230	2230	VDNA
New NCP releases/version	2230	2230	VDNA
Maint of Vtam	2510	2510	VDNA
New Vtam releases/version	2510	2510	VDNA
Name standards	2230	2230	VDNA
Production of new NCP	2110	VEDA	VDNA
Voice price structure	VD	VEDA	VDNA
Voice product development	VD	VEDA	VDNA
Vce price structure	VD	VEDA	VDNA
Vce product development	VD	VEDA	VDNA
Video price structure	VD	VEDA	VDNA
Video product development	VD	VEDA	VDNA

Present situation at VDNA

...

VDNA differences compared to the GGG-solution

...

Present situation at VEDA

...

VEDA differences compared to the GGG-solution

...

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Subject: GGG proj 5

91-10-07

GGG-Com Longterm objectives

Common datacommunication services within GGG

Common datacommunication pricestructure

Common datacommunication information tools

Common datacommunication quality tools

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Subject: GGG proj 5

91-10-07

GGG-SM Product plan

A product plan, including activities until end 1992, that leads to standardized communications services and price structure, with respect to local needs and differences in size of installation

Activities

1. Investigate the today provided services at each installation

VD -work:
VD -time:

VDNA-work:
VDNA-time:

VEDA-work:
VEDA-time:

2. Make a price calculation for pricelist 1993, hade to be ended may 1992.

VD -work:
VD -time:

VDNA-work:
VDNA-time:

VEDA-work:
VEDA-time:

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Subject: GGG proj 5

91-10-07

-> VD.TS	TOMAS SVENSSON	2500
-> VD.INGE	INGE FORSBERG	2510
-> VD.BC	BERT CHRISTENSSON	031-667506 2520
-> VD.PPL	PERRY LUNDQVIST	2540
-> VD.2103HR	HÅKAN ROBERTSSON	031-667130 2103
-> VD.HAS	ARNE HASSELGREN	2202
-> VD.MIKLOS	MIKLOS BAJZATH	8010
-> VD.GUNNARSV	GUNNAR SVENSSON	8015
-> VD.HH	HENRIK HOLST	2502

cc:		
-> VD.ALL	ÅKE LINDMARK	2230
-> VD.GÖRAN	GÖRAN JOHANSSON +46-31-667645	2240
-> VD.MARTINS	MARTIN SÄRNBERGER	2210
=> VD.OOM	HASSE OOM	2250
=> VD.ORRHEIM	HANS ORRHEIM	2200

VOLVO

Volvo Europa Data

07600 Main Projects for 1992

07600 07300 VD-supp

1. GGG activities.	Mw	Mw	Mw
1.1. Installation of TMS.	2	3	1
1.2. Installation of OMEGAMON 2	2	2	1
1.3. Migration to SD-SM 1			
1.3.1 Installation & maint of VD-toolb	2		
1.3.2 Conversion : Pilote, training..	10		2
1.3.3 Joint develop of extensions	8		4
1.4. JCL-generator	12		5
1.5. Vinfo review	6	2	2
1.6. Logical recovery	1		1
1.7. Archiving & delete of DL1-roots	1		1
1.8. Integration of VEDA-SLR into Q-BASE	6		2
1.9. Review accounting approach	4		2
1.10 Automation - integration NETVIEW	6	25	8
1.11 MEXALETT documentation & print	?		?
1.12 INFOMAN customisation & integration	2	2	1
1.13 Toolbox for Database admin	6	1	2
SUBTOT	68	35	32

2. Mainframe operating systems domain.

07600 07300 VD-supp

2.1 Migration to 3390-blksize	1	1	
2.2 Migrate DASD to HSM-SMS	6	4	1
2.3 Define DASD-TAPE strat for the 90's	4	1	2
2.4 Review Backup & Recovery using HSM	12	4	1
2.5 Optimise ACF2-admin-environment	5		1
2.6 Exploit ESA-functions	2		1
SUBTOT	30	10	6

3. Database environment

07600 07300 VD-supp

3.1 Cooperative processing & Distr DB	20	2	3
3.2 Hot backup & recovery for critical appl	16	2	2
3.3 Review authorisation in DB2	8		2
SUBTOT	44	4	7

4. Systems development environment		07600	07300	VD-suppl
4.1	Integration of IEF into VEDa-prod-env	5		1
4.2	Phase out ADF - provide environment	8		5
4.3	VCOM extensions to OS-2 and OS-400	14	3	3
4.4	Extension of EDI-telecom-applications	6	1	
SUBTOT		33	4	9
5. End-user environment on mainframe		07600	07300	VD-suppl
5.1	Introduction of SESAM	2		1
5.2	Integrated EU-environment under VICS	12		3
5.3	Installation of AS V2	8		1
5.4	Migration tools for AS-DB2	4		
SUBTOT		26		5
6. PWS- & OS400-environments		07600	07300	VD-suppl
6.1	^{LECS} Full-OEXPACK service	4	6	2
6.2	Establish OS2 Backup & DB-server-env	20		6
6.3	Upgrade of VCEM-LAN	6		
6.4	Full OS400 mexpack service	10		4
6.5	OS400 SDEV at VEDa (incl CIS-VCEM)	4	10	2
6.6	Standardise 8 CIS-environments	18		12
6.7	Consolidate C2- & ASS-prod at VEDa	6	4	1
6.8	Provide Hot BACKUP for ASS-appl	8	2	2
SUBTOT		76	22	29
----- TOTAL		277	75	88 -----

Conclusions.

1. All activities - except the GGG-projects - fit exactly the existing man-power capacity in 07600 for 1 year : 5 man-years divided over 10 people. Balancing the workload over the different skill-profiles donnot seem to be a problem.
2. The VD-support - except for AS400 and GGG-projects - may be considered as in normal proportion to the 07600-workload, and by that, included in the budget 1992.
3. For AS400-workload however, an extra 21-manweek-support of VD is already implied : due to importance of an allied approach for all projects. The greater part of support will be spent on mapping and standardisation of all CIS-sites. Since the activities start soon, a fast selection procedure must be applied.
4. The remaining overload is generated by GGG : estimated on 30 Mw for 07600 and 32 Mw for VD-support. It is essential that the latter 32 Mw must be supplied and planned by VD, from which 8 are related to the automation project.
5. The missing 30 Mw for 07600 can only be performed by skilled Volvo-engineers. Below an attempt / proposal to solve this...
6. The most critical domain is SD/SM-1 : the installation and conversion can be realised in 1992 only if 10 Mw of extra VD-expert-support can be delivered by dept 2800.
7. Another extra 10 Mw could be assigned to the JCL-generator. A skilled programmer-profile with knowledge of JCL, ISPF, REXX and Data-manager is required.
8. The remaining 10 Mw may be spread over different VD-people : as the essential GGG-support was estimated on 32 Mw, it can be increased to 42 Mw over departments 2500 and 2100 at VD.

*Kolla ut, se på det
att man inte får eller
om "local men ej ännu för ut"*

1.0 Inputklasser

Beskrivning av klasser A-Z

Klass	Användare	Tider	Regler	3G
A	Alla	00-24	När klass saknas. Init ej aktiv.	J
B			RESERVERAD	N
C	OPC	00-24	Prodjobb utan tape prio 1,2,3	J
D	OPC	00-24	Prodjobb utan tape prio 6	J
E	Alla	00-24	Test IMS-bmp'er	J
F	21/25xx	00-24	Systemunderhåll. Archive-jobb IMS-prod	
G	OPC	00-24	Prodjobb med tape prio 1,2,3,6	J
H	VKAB	18-06	Endast VKAB	
I	Alla	00-24	Användar initierade jobb. "Direkt" I: 005 min, S: 002 Msu, A: 010 Msu, P: 4	J
J	ÅF	00-24	Volvo ÅF-kunder (uppringt)	
K			RESERVERAD	N
L	VLV	00-24	Endast LV	
M			RESERVERAD	N
N	Alla	00-24	Användar initierade jobb. "Normal" I: 020 min, S: 001 Msu, A: 003 Msu, P: 1	J
O	CAE	00-24	CAE/CADAM och plotter	J
P	Penta	00-24	Endast Penta	
Q	Alla	18-06	Användar initierade jobb. "Mycket tunga" I: --- min, S: --- Msu, A: --- Msu, P: 0.4 (Natt) I: --- min, S: --- Msu, A: --- Msu, P: 0.33 (Helg)	J
R	Parts	00-24	Endast Parts	
S	Alla	00-24	Användar initierade jobb. "Snabba" I: 005 min, S: 0.1 Msu, A: 0.3 Msu, P: 2	J
T	Alla	00-24	Användar initierade jobb. "Medel tunga" I: 240 min, S: 004 Msu, A: --- Msu, P: 0.8 (Dag) I: 240 min, S: 004 Msu, A: --- Msu, P: 0.58 (Natt)	J
U	RJE-övrigt	00-24	Prod. RJE-kunder utan egna klasser	
V	Alla	00-24	IMS-bmp'er "Hög-prio."	J
X	CICS	00-24	Online-klass Cics.	
Y	RJE	00-24	Input från RJE till V-D och Extraheringar. I: 005 min, S: --- Msu, A: --- Msu, P: ---	
Z	TADB-kunder	00-24	Spec. klass för tek. ADB. Finns bara i VK01 I: --- min, S: 030 Msu, A: --- Msu, P: 0.8	

I = Max inkötid, S = SU gräns, A = Abend gräns, P = Pris faktor.

Kolla in Elisabet om ev. framtid "a la Söts" för input/output: 3e52.

1.0 Outputklasser

Beskrivning av klasser

Klass	Användare	Rensas	Regler	3G
A	Alla	30 dag	STD-sysout, JCLSPLIT (Forms 1800)	J
B	Alla	30 dag	Kort	
C	Alla	30 dag	Central printning VD.	
D	Alla	2 dag	Dump sysout (Forms 1811)	
E	Alla	30 dag	Central printning VD.	
F	Alla	30 dag	Kort	
G	Alla	30 dag	STD-sysout för SASWTR, VPS grafik	
H	Alla	2 dag	Held	J
I	VDSYD	2 dag	Cicsprint	
J	RJE	30 dag	Special-forms	
K	RJE	30 dag	Kort	
L			RESERVERAD	
M	Alla	2 dag	Held output skapas endast vidabend/JCL-error	J
N			RESERVERAD	
O	SAR	30 dag	SAR internt	J
P	Alla	30 dag	VPS Plotter	
Q			RESERVERAD	
R	HSM	1 dag	HSM	
S	Alla	1 dag	Held	
T			RESERVERAD	
U	Alla	30 dag	Com-prod	
V	Alla	30 dag	Com-test	
X	Syslog	7 dag	Test (SU)	
Y	Syslog	7 dag	Prod	J
0	Alla		Ingen output skapas	J
1			RESERVERAD	
2			RESERVERAD	
3			RESERVERAD	
4			RESERVERAD	
5			RESERVERAD	
6			RESERVERAD	
7	RMO	30 dag	RMO internt.	J
8	Alla	30 dag	VPS-sysouter över printer limit	
9	2130	30 dag	2130	

*page 1: Delete an word just fall
from list.*

*Com
PS: TS can fill us in*

The GGG Subproject 'Access Control'

REVISION DATE: 911120

DOCUMENT STRUCTURE

Part I: Common terminology, background and subproject specification.
Part II: Present situation
Part III: Long term objectives
Part IV: Plan for 1992

PROJECT SCOPE

This subproject is named Access Control, not Security.

Security is a wider term, usually also including topics like fire protection, disaster planning, physical access restrictions etc.

This project is not intended to cover these areas, but if a topic outside access control is needed to fulfil the intensions of the GGG project, and the topic is in the security area, it should be included as a part of this subproject.

SUBPROJECT INTERFACES

The access control subproject of the GGG project interfaces to most of the other subprojects. Therefore it is needed to crossreference the other subproject documentation and resources

ACCESS CONTROL LAYERS

In todays MVS environment access control is not only ACF2! Several components using various mechanisms form the access control environment needed to professionally secure our computing resources from unauthorized access. They are described below.

Several layers (similar to the OSI model) can be defined. These layers does not in all cases represent a hierarchical relationship, they should be seen as a method to group various types of access control mechanisms in a manageable manner.

- 1.Processor layer
- 2.MVS layer
- 3.SAF layer
- 4.Application layer
- 5.Network layer

6. Encryption layer

7. Authentication layer

8. Audit layer

Processor layer

Access control at this layer is managing access to the 370 processor console. The console may be remote to the processor, located at the operators desk, in the local IBM office, or via remote maintenance port in IBM somewhere. With the new functions TSCF of Netview it can be almost everywhere.

The functions performed at this console include display and alter memory/psw affecting all operating systems executing in this hardware.

MVS layer

The MVS layer consists of:

MVS integrity as defined in IBM integrity statement for MVS. "... the inability of any program not authorised by a mechanism under the users control to:

1. Circumvent or disable store and fetch protection
2. Access an OS-password or RACF protected resource
3. Obtain control in authorised state i.e. supervisor state protection key less than eight or APF authorised."

The MVS implementations includes:

PSW state, Protection keys for memory, Page protection, Address space isolation and APF authorisation.

The foundation for the SAF layer is MVS integrity. The access control mechanisms here are control over user extensions to MVS and "MVS functions" such as:

1. user svcs
2. APF libraries
3. system exits
4. dynamic reconfiguration utilities
5. advanced software capable of display and/or alter memory in common storage or other address spaces.
6. various parameter and script libraries controlling the behaviour and functions of MVS.
7. MVS consoles and console support
8. MVS subsystems such as JES2.
9. All other authorized files and functions.

In short this layer protects "central storage" and it must be tamperproof.

SAF layer

The SAF layer access control is implemented by calls to SAF using the SAF interface i.e the RACROUTE macro. SAF calls the Access Control software installed (be it ACF2, RACF or TSS) to answer the access request with a yes or no, based on the rules stored in the access control database.

ACF2 also insert its own intercepts into MVS and subsystems to provide calls directly i.e bypassing SAF when needed.

Various resources such as datasets, IMS and CICS transaction codes and numerous "system resources" can be defined and protected. For this protection to be manageable a naming convention must be in place.

In short this layer protects MVS and user resources from unauthorised access, i.e no protection from MVS layer or authorised users at this layer.

The guideline is to use SAF layer access control whwnver applicable.

Application layer

The application layer access control consist of functions built into a product to enhance the products internal security. An example is an IMS application with its own security mechanism, or "native IBM DB2 security".

"Real user" applications with built in internal security totally selfcontained in the application is of no interest to the GGG project and are not discussed further.

The guideline however is to use ACF2 whenever possible also for application unique security requirements. Products with ACF2 security as an alternative to internal security should use ACF2 if applicable.

In this layer some products as an option may use SAF layer security. Examples are Netview logon security.

Several products in this area are powerful such as HSM and Omegamon, where their internal security protects at the SAF or MVS layer, but the security interface exist at this layer.

Many products on this layer posses powers qualifying them for the MVS layer some just applications as in the IMS application example desribed above.

In short this layer protects resources or functions unique to a product regardless of MVS or SAF layer.

Network layer

Access control at the network layer identifies requirements for SNA network entry, exit and pass through. It also defines access control for gateways to other non-SNA networks and devices such as PCs PC LANs Ethernet and DECnet connections.

Special interest are for this project TCP/IP , INTERLINK , NJE RJE connections type connections.

VCOM, FILEMON, various distributed functions in ACF2, DB2, IMS CICS etc are existing and more will come.

Connections to non-Volvo companies for MEMO communication and other information exchange.

Connections to government agencies and finance institutions such as customs as an example may require specific attention.

In short this layer protects the other layers from the outside i.e other computers inside or outside Volvo.

Encryption layer

This layer protects against modification or disclosure of information stored on disk, or in transit, but not in "central storage" during processing.

Various methods exist for disk and communications encryption. In the communications case also at several layers in the OSI model.

Authentication layer

This layer is controlling that "the user is the user he claims to be". Several methods exist from userid + password to more elaborate smart card implementations resulting in "one time passwords".

Audit layer

This layer does not protect, it reports access activity. The main audit trace is MVS SMF records, but also others exist such as console log , processor log and IMS log.

GGG ACCESS CONTROL OBJECTIVES

Access control must:

1. Look, feel and behave the same across datacenter boundaries i.e same administration, similar tools, parameters and standards.
2. Protect resources with similar "quality" ,i.e same types of controls.
3. Provide "trusted and tamperproof" nodes in our SNA network. I.e no revalidation of user identity should be needed when units of work cross datacenter boundaries.
4. Similar security policy must exist.

PROJECT TASKS

1. To identify layers needed to fulfil GGG overall objectives. In these layers identify functions and products for detailed analysis in the access control area.
2. Issue guidelines, parameters etc to define a common access control platform.
3. Investigate and suggest a "name standard" for various items used in access control.
4. Establish a uniform access control administration.
5. Establish a uniform audit/reporting environment.
6. Investigate today's environment in the different datacenters
7. Identify GGG requirements on access control
8. Define and agree on longterm objectives.
9. Produce a plan describing planned activities for 1992.
10. Define access requirements for GGG personell at each others datacenters ?

OTHER SUBPROJECT DEMANDS

GGG-Common Platform and Mexpack

To be investigated

GGG-Database Systems

To be investigated

GGG-Storage Management

To be investigated

GGG-Operation and Automation

To be investigated

GGG-Communications

To be investigated

GGG-Economy and Administration

To be investigated

GGG-Quality

To be investigated

NEW FUNCTIONS

Is there a need for account code protection ?

STAFF

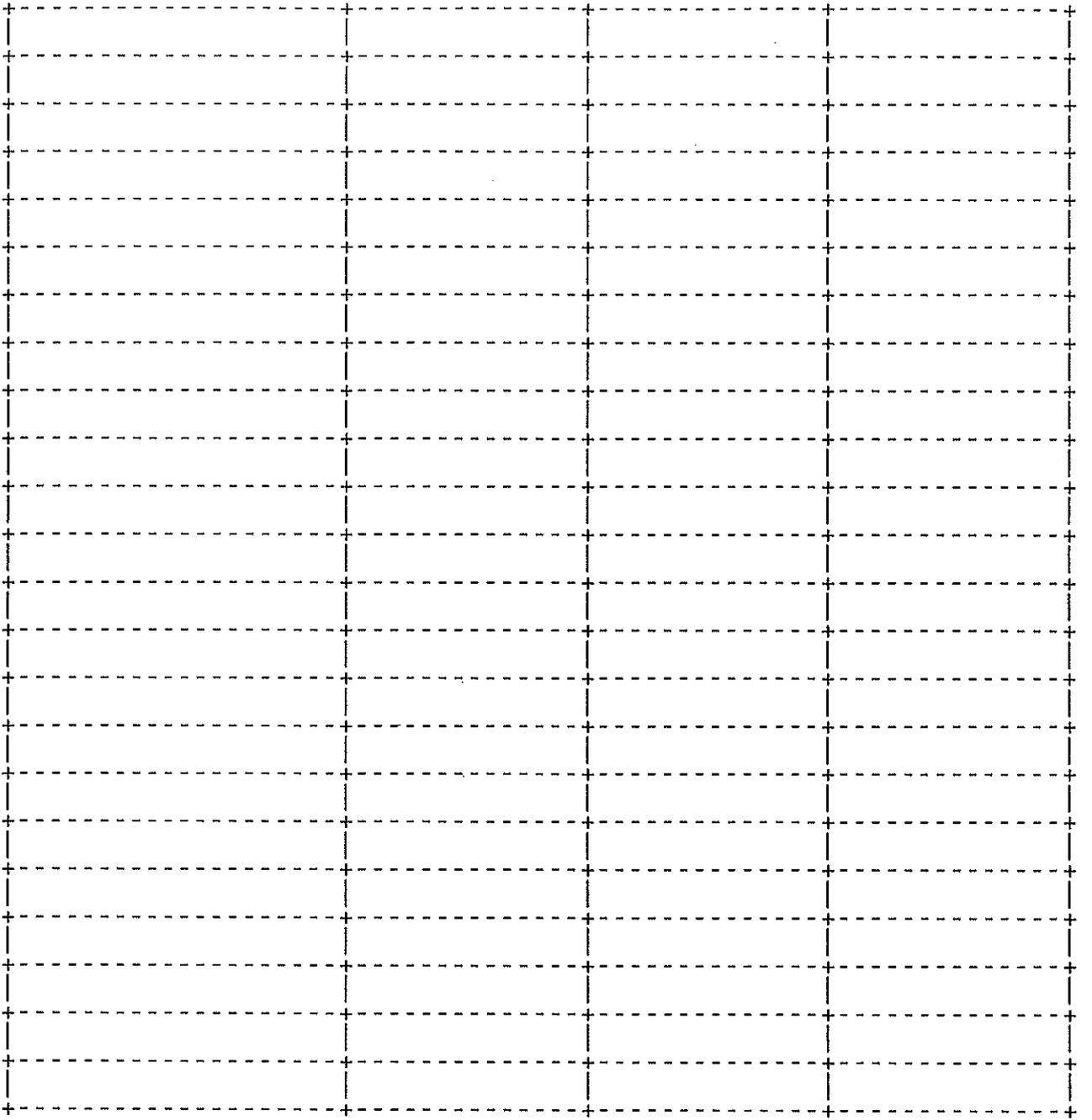
VD: Conny Johansson
VDNA: Fay Donahue
Dennis Joebgren
VEDA: Erik Rooms

PROCESSOR LAYER

FUNCTION	VD	VDNA	VEDA
IBM console			
Operator Console			
REMOTE SUPPORT			
Dial out			
Dial in			
TSCF console			

SAF LAYER

	VD	VDNA	VEDA
ACF2 FUNCTIONS			
ID standard			
UID standard			
SCOPE standard			
SHIFT standard			
ZONE standard			
RESOURCE GROUPS			
Terminals			
Transactions			
Operator Ids			
CFDE changes			
GSO parameters			
SYSTEM Res types			
USER Res types			



PART III

Long term objectives

To be developed

PART IV

Plan for 1992

To be developed