

Dear users,

This Beta Support Newsletter brings you all the latest news about Beta and Beta products, provides you with notes and information on the latest product versions, and also keeps you up to date with those all-important PTFs required to keep things running smoothly. However, this Newsletter only contains a sample of what you might need to know and is no substitute for a call to the Beta product hotline. We also look forward to receiving suggestions from you and if you have anything to report on your experience working with Beta products, we'd be just as glad to hear it. Maybe you even have some tips and tricks you'd be happy to share with other Beta users. Your ideas are welcome so please contact:
mailto:sieben24@betasystems.com

There are a number of reasons why we've deliberately used simple text for this Newsletter: it's easier to read and easier to distribute. This means that it also supports distribution to 3270-supported mailing systems. We recommend you read the text using the "Courier New" font in 10-point size.

You will find a "Newsletter archive" on our ftp server at
ftp://ftp.betasystems.com/pub/SupportNewsletter

Very best regards,

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Beta Support Newsletter 45 - 6th year - issue of 15.08.2005

News telegram

- General Availability of new releases across the entire Beta Systems product portfolio
- Important tips and tricks for Beta 88 and Beta 93 users

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1. Beta Technology Days from Sept 21-23, 2005

This year's Beta Technology Days taking place from September 21-23, 2005 focus on the topic of "Compliance made easy".

The many presentations, workshops, discussions, expert meetings, live demos and user talks provide you with an ideal opportunity to learn about our latest product and business developments first hand.

We are hoping for numerous participants and are looking forward to seeing you again this year. And you can look forward to getting in touch again with Beta users you met at a previous Beta Technology Days event.

You should have already received an invitation a few days ago. Should this not be the case, feel free to check with your Beta sales representative... (ANRE)

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2. Beta 93 - Document Transformer

Beta 93 - Document Transformer is a new Beta 93 add-on component for z/OS that is generally available at release level V3R3. If you are interested, please get in touch with your sales representative.

Beta 93 - Document Transformer allows you to retroactively analyze existing lists while also providing the option of automatically determining and further processing content. This process basically reconstructs the logical structure of the list by disassembling it into its basic units (content) and matching the corresponding content with a context. Context-based rules are then used to filter data from the browser view or to extract them for further processing. The data is made available in structured format (CSV and XML) to enable seamless integration into follow-up applications. Using this tool you can, for example, make personal data in existing lists anonymous or prepare parts of lists that were stored in Beta 93 in revision-proof format for the purpose of auditing or compliance. (NIHU)

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3. Beta 93 - SMF Reporter - GA with BETA 93 V3R6, scheduled for August 2005

In our Newsletter number 38 issued on September 30, 2004, we already reported on the preliminary version of the B93AOF SR program - but now it's official:

Beta 93 - SMF Reporter is a new add-on component for Beta 93 for z/OS that will be officially released together with the Beta 93 V3R6 release (probably at the end of August 2005). Beta System's Beta 93 - SMF Reporter is a simple yet highly flexible tool for analyzing SMF records. The SMF record descriptions needed for performing an analysis will be included in the SAMPLIB of the corresponding Beta Systems product (Beta 92, Beta 93, Beta 93 - Fast Retrieval and Beta 93 - Document Transformer). Given the relevant record description, you could, for example, use the Beta 93 - SMF Reporter to prepare IBM SMF records for further processing. Thanks to its many output features, Beta 93 - SMF Reporter is the perfect tool for preparing data for the purpose of further processing in professional analysis programs such as Business Objects or Microsoft Excel. To help reduce the scope of data already in the preparatory phase, Beta 93 - SMF Reporter offers a broad range of filter functions and the ability to calculate totals of record contents.

(NIHU)

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4. Release of Beta 88 version V4R1

On July 25, 2005, Beta 88 release V4R1 was shipped out to all Beta 88 customers.

This version features new functions and improvements, with the following highlights:

XCF capability

The new version supports XCF in addition to OCF for communicating in sysplexes. This makes the implementation of additional tasks obsolete.

Multi-CPU support

Several new features were introduced in this area to ensure uninterrupted operation within a complex network, provided at least one STC of a shared-database network is active. Here, the Beta 88 database is synchronized with the RACF data through routing within the SMF exit. It is also still possible to perform online maintenance in the case single STCs become unavailable. Also, V4R1 updates the scope of all STCs that are part of the network.

Direct analysis of SMF data sets in online mode

When performing online queries, it is no longer necessary to load SMF data into Beta 88 database tables. You can specify one or more SMF data sets included in the evaluations. This may include the SYS1.MANx live data sets as well as backup records (binary dump) and dump data sets of the IFASMFDP utility. Also, you can greatly improve the performance for queries by placing the SMF data in a storage image.

In this context, we would like to inform you that support for version V3R5 of Beta 88 will cease as of December 31, 2005.

(KHKR)

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5. Release of Beta 48 V4R1 and Beta 48 Extended Triggering Facility

We announced this article in our last Newsletter, but due to a lack of time, we were not able to cover the new release of Beta 48 and the new add-on in any detail.

As promised, we are doing so now.

5.1. Beta 48 V4R1 - Highlights

The Beta 48 V4R1 release offers significant improvements and new functions. We implemented 18 customer requirements for expanding the function range and for improving the general operation as well as SAP batch handling. For a detailed description of the individual requirements implemented, please visit the Beta homepage.

We would like to seize this opportunity to thank all customers and user group members for their constructive input.

Support of SAP server groups

Beta 48 release V4R1 supports many of the options provided by the SAP R/3 BC-XBP 2.0 interface. SAP-R/3 systems often consist of several application servers that may be divided into server groups focusing on specific resources. To help balance the workload, the TARGETSERVER parameter can be used to route an SAP R/3 batch job to a designated target application server depending on the load.

5.2. Beta 48 Extended Job Manager (ETF).

Modern schedulers are able to launch predefined jobs/job chains based on events.

The Beta 48 ETF AddOn enables you to trigger job chains based on events from decentralized platforms. This can be done by calling a command line program using any script. Beta 48 offers two different procedures for handing over events:

- JOB (submitting MVS jobs via Beta 48 Started Task for schedulers that trigger based on job names), or
- TSR (issuing TWS SRSTAT commands for TWS z/OS)

Events must be predefined in Beta 48 to make sure only authorized machine or machine group users may create these events. Each event executed in Beta 48 is logged in the Beta 48 database in traceable form. Faulty events terminate with RC not equal to zero, making them easy to identify.

The new option of selecting events by machine/EVENT name or time allows users to quickly get an overview of active and executed EVENTS.
(RUTE, CYGA)

6. Synergy: SAM Jupiter Log Audit Facility and Beta 92

A new function has been added in Beta 92 V4R1: "SAM Jupiter Log Audit Facility" (LAF).

SAM Jupiter Log Audit Facility helps to make the SAM Jupiter Identity Management system more secure and transparent. Administrators and auditors are able to evaluate actions performed in SAM Jupiter quickly and virtually at the touch of a button, e.g. to trace who modified user rights for whom. This auditing is possible regardless of whether the actions date back just a few days or several years. Performing log archival in Beta 92 Enterprise

enables you to comply with legal regulations, such as SOX or Basel II and even future provisions, in real-time and with great ease.

How is this possible?

SAM Jupiter service programs unload the DB2 transaction log tables and convert them into a Beta 92-compatible JES SYSOUT class which is then loaded by Beta 92.

Next, Beta 92 sorts the imported data according to daily time frames. Even if the unload and import process takes place several times on the same day, the data will later be combined under a single JBR entry similar to syslog processing.

The Beta 92 Enterprise ISPF user interface provides a separate menu item for evaluating and displaying transaction logs. Also, using a new audit function, you can generate customized reports to accommodate the transaction log structure. The results of the report are also available in Beta 92 Enterprise.

(RUTE, CYGA)

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7. Release of Beta 93 - Extended Input and Beta 93 UX - Extended Input V3R6

On July 15, 2005, a new Beta 93 (UX) Extended Input (EDF) version was released. In addition to featuring improved performance, you can now also add the Beta 93 recipient as well as the date when the list was read in to the list's meta data. In addition, V3R6 also supports the WatchOn functionality for Microsoft Windows.

Customers installing Extended Input on Unix or Linux are requested to exchange the BETAend program with the one included on the "Service Pack 1" CD after installing Extended Input V3R6.
(MGSC)

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8. Release of SAM Jupiter version V3R4:

On August 8, 2005, the new SAM Jupiter V3R4 version with build level 2 was released.

These are the highlights of the new version:

- Extended log archiving and analysis options thanks to having been made compatible with SAM Log Audit Facility
- Asynchronous command processing improves management of f remote platforms that are temporarily not available
- Simple configuration of automated provisioning via graphical user interface
- Greater flexibility of the SAM Jupiter workflow, e.g., the option of requesting access rights for several users at the same time
- Customers are provided with new windows for configuring and starting customer-specific utilities

(MXKU for the English version,
translation provided by the editorial staff)

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9. New release of Harbor Enterprise NSM

On July 31, 2005,

Harbor Enterprise NSM for z/OS Backup Server 7.0 SP1 (Service Pack 1)

Harbor Enterprise NSM for Windows Backup Client 7.0

were released.

As already mentioned in previous Newsletters, these products represent a complete redesign of our earlier backup solutions. This includes a full overhaul of the server and client architecture.

The two key goals of the redesign were:

- To create a product that helps the customers secure previous investments in their current solution. The new architecture can backup and restore billions of backup objects run on tens of thousands of servers and clients and can also handle several terabytes of data.
- To develop a portable backup server base component that can be used to create a backup server on a non-mainframe platform (UNIX/Linux).

These are some of the benefits already achieved:

- Significantly reduced CPU load on the mainframe server.
Lab performance tests on incremental backups showed that CPU loads are reduced by up to 86%. Also, the load during the first, i.e. full, backup was reduced by up to 24%. Restore operations achieved reduced CPU loads of up to 64%. As a result, customers can handle greater backup jobs with their present resources.
- Significant reduction of the time needed for backup and restore.
In our labs, we measured reduced processing times for incremental backups of up to 48%. This means the speed has almost doubled. The first (full) backup was processed using up to 16% less time. As regards restore, the reduction measured was up to 36%. This has a highly positive impact on the backup windows, as the same data volume can be backed up much faster or much larger file servers can be processed in the same time frame as before.
- Faster file selection.
Made possible by introducing a local client-side catalog. This catalog allows the client to determine whether files have already been saved. Thus, the server is no longer needed for this process. This results in a significant performance increase during backup and restore.
- Improved procedure for detecting deleted files.
This can be done using the local catalog, enabling faster detection of deleted files. There no longer is a separate "File Delete Synchronisation" process.

For further details, please consult the release notes.

Documentation as well as software can be downloaded from the Beta Systems homepage at:

Support > Storage (Harbor) Support > Downloads

If you aren't yet registered, you can do so quickly and easily.

(WOEH)

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10. News from the training department - monthly overview October 2005

This year's Beta Technology Days in Berlin will take place from September 22-23, 2005. Due to the large demand, we will once again offer free training workshops on the following topics prior to the main event:

Beta 99 and Beta Web Enabler - Workshop

- Beta 99 Introduction to the basic functionality of the server component
- Beta Web Enabler - Company-wide online access and research
- Web Application Builder - Process support for knowledge workers

Date: September 21, 2005

Session 1: 9 am - 1 pm

Session 2: 2 pm - 5 pm

10.1 Highlights - October 2005

Beta 88 Administration - October 17-19, 2005

This course offers an in-depth introduction to RACF profile administration with the help of Beta 88 and will make you familiar with the key system options. Based on learning by doing, you will train how to manage profiles quickly and correctly in addition to learning how to customize maintenance commands. You will be able to efficiently carry out bulk updates and analyze your security environment online.

Beta 93 Advanced - October 17-21.10, 2005

This course introduces you to advanced and new Beta 93 functions. You will learn how to safely install and implement the product and its add-ons. The training further focuses on database handling, including querying, system options and print management.

10.2 Training schedule for October 2005, Last update: 15.08.2005

From-until Course ID Course title

04.10.-06.10.2005	B93FRV	Beta 93 Fast Retrieval
10.10.-14.10.2005	ASGZEKE	ASG Zeke User-Workshop
17.10.-21.10.2005	B93ADV	Beta 93 Advanced
17.10.-19.10.2005	B88ADM	Beta 88 Administration
20.10.-21.10.2005	B88ADV	Beta 88 Advanced
31.10.-02.11.2005	BQLADM	Beta Query Language Administration

You will find a complete listing of our training offerings at <http://www.betasystems.de/training>.

(HEMI)

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11. Current product status

11.1. MVS products

Status	Produkt	Version	PTFlevel	Freigabe	BSAlevel
	Beta BSA stand alone	V3R4	PBS9217	23.04.04	0234-03
	Beta 14	V3R1M3	PVP2001	09.09.00	9933-03
	Beta 23 4)	V3R5	PBF2103	15.11.04	0234-03
	Beta 28	V3R4	PSI4000	13.12.02	0234-00
new	Beta 48	V4R1	PEJ5069	28.06.05	0234-03
	Beta 55	V3R3M2	new 1)	30.05.03	0234-01
	Beta 77	V1R7M8	PSM1960	29.10.99	9924
	Beta 85	V2R1		31.03.05	
new	Beta 88 3)	V4R1	new	30.06.05	0234-03
	Beta 89	V3R4	PSI4000	13.12.02	0234-00
	Beta 91	V3R3	PQM6543	22.07.03	0234-01
	Beta 92	V3R5	POM8609	13.06.03	0234-01
	Beta 92 EIF	V4R1	POM9484	25.02.05	0234-03
	Beta 92 Enterprise	V4R1	POM9484	25.02.05	0234-03
	Beta 92 Enterprise EIF	V4R1	POM9466	29.10.04	0234-03
	Beta 92 XCF	V4R1	POM9466	29.10.04	0234-03
new	Beta 92 LAF	V4R1	POM9777	15.07.05	0234-03
	Beta 93	V3R5	PPM7717	18.10.04	0234-03
	Beta 93-Fast Retrieval	V3R6	PIR1649 2)	15.11.04	0234-03

1) only applies to CA/1 and RMM

2) formerly Beta 97

3) Beta 88 zSecurity Administrator and zSecurity Auditor

4) the highest PTF status shipped with the corresponding product
(Beta 88, Beta 93 or Beta 93 - Fast Retrieval)

<http://www.betasystems.de/maintenancelevel>

11.2. Beta products for UNIX, Linux, z/Linux, USS, Windows

Status	Produkt	Version	Release
new	Beta 48	V4R1 BuildLevel28	28.06.05
	Beta 88 DAF	V3R1M4a	10.01.02
	Beta 88 zSecurity Auditor GUI	V3R4	13.09.02
	*)Beta 92 for Open Systems	V3R41h	10.05.04
	Beta 92 WIF	V3R5	05.05.03
	Beta 92 EUI	V4.1.0.9	29.10.04
	Beta 92 Enterprise OSY	V4R1	29.10.04
	Beta 93 - Web Access	V3R4b	20.12.02
	Beta 93 - Extended Output	V3R5	05.08.03
new	Beta 93 - Extended Input	V3R6 + SP1	15.07.05
	Beta 93 - SAP Input	V3R5	05.08.03
	***)Beta 93 - Fast Retrieval - Web Access	V3R4b SP2	15.12.03
	Beta 93 UX	V3R4	21.01.05
	Beta 93 UX - Web Access	V3R4d	12.11.03
	Beta 93 UX - Archive	V3R4	21.01.05
	Beta 93 UX - Centera Interface	V3R3	30.01.04
	Beta 93 UX - TSM Interface	V3R4	21.01.05
new	Beta 93 UX - Extended Input	V3R6 + SP1	15.07.05
	Beta 93 UX - Extended Output	V3R5a	12.11.03
	Beta 93 UX - SAP Input	V3R5a	12.11.03
	Beta 99 - Base Component	V2.2	30.06.04
	Beta 99 - Web Application Builder	V2.2	30.06.04

Beta Web Enabler	V1.2	27.09.04
Beta AFP Browser	V1.29j	15.10.03

- *) BETA 92 for Open Systems (formerly Beta 92 EDF and ADF)
- ***) Beta 93 - Fast Retrieval Web Access (formerly Beta 97 WIF)

<http://www.betasystems.de/maintenancelevel>

11.3. Harbor Products product status

Status	Produkt	Version	Release
	Harbor NSM z/OS	V6.3.SP2	01.03.04
new	Harbor Enterprise NSM z/OS	V7.0 SP1	31.07.05
	Harbor Backup OS/390	V5.3 HSPA	01.05.02
	Harbor HFT	V2.2.0.0	01.07.04

<http://www.betasystems.com/storagesupport>

Note:

The first time you visit this site, you will be asked to register. You can safely do so.

11.4. SAM Products product status

Status	Produkt	Version	Release
neu	SAM Jupiter	V3R4 BuildLevel2	Aug. 05
	SAM Password Synchronization	V4R5	Dec. 04
	SAM Password Reset	V2R0	Feb. 04
	SAM *)	V2R4 12/2003	Dec. 03
	SAM Request Manager *)	V2R2	Jan. 02
	SAM Request Manager *) V2R2 Jan. 02		

*) SAM 2.4 and SAM Request Manager are no longer sold, but maintenance is still being carried out.

Further information:

<http://www.betasystems.de/samsupport>

Note:

This also requires you to register before accessing the site for the first time.

11.5. Availability information about Beta and Harbor products for UNIX, Linux, z/Linux, USS and different Windows operating systems:

<http://www.betasystems.de/availability>

(ANRE)

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12. Tips and tricks

12.1. Beta 93 and using the DCR function of type CLIST for SYSOUT output

For historic reasons and due to pending changes, we would like to inform you about the DCR function of type CLIST. As this is a "historically grown" function that was included in version 3 for compatibility reasons only, there are plans to no longer support it as of version 4.

We therefore urge you to look into this matter as soon as possible to determine where you are currently using this function and to replace it with a more comfortable and powerful function already present.

Here, we are referring to the OUTPUT command of type CLIST in the DCR. (See also the Administrator's Guide, chapter 9.2, Defining a Distribution Characteristic, CLIST)

Explanation:

In version 1, there were only PCRs. These were used to define where and how to print.

The PCR of type SYSOUT only allowed you to define a few and selected Output parameters. It was not possible, for example, to define XEROX output statements.

In order to remove this bottleneck, a solution was introduced to allow PCRs of type Clist to define a large set of freeform text parameters in addition to simply printing into data sets.

As part of migrating from Beta 93 version V1R6M5 to version V3, the printing definitions were divided into PCRs (how to print) and DCRs (where to print) according to the new Beta 93 V3 functionality. Only the DCR of type Clist corresponded with and still corresponds with PCR of type Clist from version V1R6M5. However, it is outdated and has been offered for compatibility reasons only.

In order to focus on the options offered by a divided set of PCRs and DCRs, the OUTPUT parameter will no longer be supported in the DCR as of version 4.

Starting with version 3, this function has been taken over by the PCR, which is the place where you define all OUTPUT parameters as allowed by the JCL and predefined in the SOP table.

Syntax example: SYSOUT(A) OUTPUT PAGEDEF(TEST01) FORMDEF(TEST01)

In version 3, you would implement this example using a DCR of type SYSOUT (where SYSOUT=A) and a PCR with the parameters "PAGEDEF(TEST01) FORMDEF(TEST01)".

The bundler, for example, can use these definitions to create packets with the correct banner pages etc. and pass on this information to the JES SPOOL using the right parameters.

Please check whether your DCRs use the OUTPUT parameter and whether you are using these DCRs in your list, report or reci definitions or in the connection definition list/report reci (LRI table). If this is the case, make sure to change your printer definitions by implementing a corresponding PCR.

The last chapter, which is, by tradition, "RPGs for collection", provides you with a few reports for performing the needed analyses.

Please inform us if the change from using a PCR instead of a DCR proves too complicated for you. This will allow us to assist you and to determine whether it might be necessary to develop a tool for automatic conversion.

(ANRE)

12.2. Beta 88 - Refresh instead of reload - the "Refresh no sync." function

During talks to customers, we noticed that one Beta 88 version V3R6 function is not being used, i.e., not even known to administrators. As we learned, many customers reload the entire database every night. Other customers load the database on demand only (so several weeks may pass between reloading).

These customers complained that they can't afford to reload the database since they are running a 24/7 operation - but when loading, Beta 88 is "not fully" available.

Usually, you do not need to worry about keeping Beta 88 databases up to date. Beta 88 is automatically synchronized with the RACF database. This is done using the IEFU83 SMF exit.

When reloading (see above), the timestamp added by Beta 88 during real-time synchronization - which is important to many customers - is lost.

There are, however, a few special cases when Beta 88 and RACF are not synchronized, such as:

- Actions for modifying the RACF DB that do not include writing an SMF record (see Administrator's Guide V3R6 page 24)
- Actions that write SMF records, but which are not taken into account due to performance reasons. This is quite often the case for all active host users each day, e.g. during every submit.
- If the Beta 88 STC is being stopped for a short time, or even
- When reloading the RACF database (job B88LRACF), if changes are made to the RACF during the job execution.

(And this is where the problem really begins...)

As a result, RACF changes are missing in Beta 88:

- "Last logon" and "Last connect" with date and time
- New definitions (permits, users, group associations...)

What can you do to counter this problem?

As of V3R6, there is a very elegant new function called "Refresh no sync.". Under option S.1, you can use the "RF" line command to generate a job. This job can be scheduled and run on a regular basis (e.g. 2 x each day), ideally during a time of day when very few RACF commands are being executed, e.g. late at night.

As opposed to reloading (L - Load generation), Beta 88 is fully available during job execution, and the refresh takes place much faster and uses fewer resources than loading the entire generation DB. RACF changes (e.g. for resources, permits) can be easily added, and "Last logon/Connect" fields are quickly updated.

For a detailed description of this topic, see chapter "Refreshing the Beta 88 Database" of the Beta 88 V3R6 or V4R1 Administrator's Guide.

(CXBR)

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13. PTFs/Updates

In this section we present you with important product and BSA PTFs based on the experience gained by working with the products and on recommendations from the product hotlines. Please also carefully read the accompanying information and install the PTFs if necessary.

At present there are no new PTFs.

You can order these PTFs from the relevant product hotlines.
The PTFs published here have been available for download from our ftp server since March 30, 2001:
ftp://ftp.betasystems.com/pub

Please install these PTFs using
RECEIVE SYSMODS LIST.
This will ensure that the text information from the PTF will be available in the SMPE log.
(ANRE)

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14. RPG for collection - Beta 93 reports for detecting CLIST DCRs using the OUTPUT command

The following reports are intended to help you detect DCR definitions of type CLIST where you use the OUTPUT command. They further allow you to find these in the tables LDR, LRN and LRI, i.e., where it is possible to define DCRs.
(

14.1. Find DCRs that use the OUTPUT command.

The following report searches the DCR table and creates a file containing all DCRs that include the OUTPUT command. This file is used as input for the following reports.

```
//B93PRPGD JOB 724,'BETA',CLASS=X,MSGCLASS=E,NOTIFY=&SYSUID
/*
//*****
/* PRODUCT : BETA 93 *
/* REPORT : Search for DCRs *
//***-----***
/* NOTE : *
/* *
//***-----***
/* MODIFY : - STEPLIB DSN *
/* - SSID *
//*****
/*
//REPORT EXEC PGM=BSS16RPG,REGION=0M
/*
//STEPLIB DD DISP=SHR,DSN=BETA.BSA.LOAD
/*
//RPGPARM DD *
SSID=X93A
//DCROUTDD DD DISP=(,CATLG),UNIT=3390,SPACE=(TRK,(10,10)),
```

```

//          DSN=BETA93.DCR.INPUT,DCB=(LRECL=80,RECFM=VB,DSORG=PS)
//RPGSCAN DD SYSOUT=*
//RPGTRACE DD SYSOUT=*
//RPGSUM DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//RPGIN DD *
*
TRACE ON
*
DEFPCH P1 DDNAME 'DCROUTDD'
*
DEFNUM RC1 DIGI 2 VALUE 0
DEFCHAR DCROUT LENGTH 16 VALUE ' '
*
WHILE RC1 EQ 0
  BQL_EXEC 'SELECT TABLE DCR -
           FIELDS(DCR) -
           WHERE(DCRCLIST LIKE *OUTPUT* )'
  MOVE $BQLRC TO RC1
  IF RC1 EQ 0
    PUNCH DCR TO P1
  ENDIF
ENDWHILE
*
EXIT
*
//

```

14.2. Find definitions where DCRs from the preceding report are being used

These reports sequentially read the output file created in chapter "Reading DCRs using the OUTPUT command" and attempt to match each DCR with the associated records in the list and report (LDR) and recipient (LRN) definitions as well as with the definitions connecting lists and reports with recipients (LRI).

Under DD OUTLIST you get the definitions found.

These definitions must be changed to PCRs for Beta 93, version 4.

14.2.1. Find DCRs in list and report definitions

```

//B93PRPGL JOB 724,'BETA',CLASS=X,MSGCLASS=E,NOTIFY=&SYSUID
//*
//*****
//* PRODUCT : BETA 93 *
//* REPORT : Search for DCRs in LDRs *
//***-----***
//* NOTE : *
//* *
//***-----***
//* MODIFY : - STEPLIB DSN *
//* - SSID *
//* - Eingabedatei DCRINDD *
//*****
//

```

```

//REPORT EXEC PGM=BSS16RPG,REGION=0M
//*
//STEPLIB DD DISP=SHR,DSN=BETA.BSA.LOAD
//*
//RPGPARAM DD *
SSID=X93A
//DCRINDD DD DISP=SHR,
//          DSN=BETA93.DCR.INPUT
//OUTLIST DD SYSOUT=*
//RPGSCAN DD SYSOUT=*
//RPGTRACE DD SYSOUT=*
//RPGSUM DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//RPGIN DD *
*
DEFPPCH P1 DDNAME 'OUTLIST'
DEFFILE F1 DDNAME 'DCRINDD'
*
DEFCHAR DCRIN LEN 16 VALUE ' '
DEFNUM RC1 DIGI 2 VALUE 0
*
WHILE $READRC EQ 0
  READ DCRIN FROM F1
  IF $READRC EQ 0
    MOVE 0 TO RC1
    WHILE RC1 EQ 0
      BQL_EXEC 'SELECT TABLE LDR -
                FIELDS(FORM,EXT,REPORT,DCR) -
                WHERE(DCR LIKE ' DCRIN ') -
                ORDER BY KEY LDRDCR'
      MOVE $BQLRC TO RC1
      IF RC1 EQ 0
        PUNCH DCRIN ' IN TABLE LDR UNTER: ' FORM EXT REPORT TO P1
      ENDIF
    ENDWHILE
  ENDIF
ENDWHILE
EXIT
*
//

```

14.2.2. Find DCRs in the recipient definitions

```

//B93PRPGR JOB 724,'BETA',CLASS=X,MSGCLASS=E,NOTIFY=&SYSUID
//*
//*****
//* PRODUCT : BETA 93 *
//* REPORT : Search for DCRs in LRNs *
//***-----***
//* NOTE : *
//* *
//***-----***
//* MODIFY : - STEPLIB DSN *
//* - SSID *
//* - Eingabedatei DCRINDD *

```

```

//*****
//*
//REPORT EXEC PGM=BSS16RPG,REGION=0M
//*
//STEPLIB DD DISP=SHR,DSN=BETA.BSA.LOAD
//*
//RPGPARM DD *
SSID=X93A
//DCRINDD DD DISP=SHR,
// DSN=BETA93.DCR.INPUT
//OUTLIST DD SYSOUT=*
//RPGSCAN DD SYSOUT=*
//RPGTRACE DD SYSOUT=*
//RPGSUM DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSABEND DD SYSOUT=*
//RPGIN DD *
*
DEFFILE F1 DDNAME 'DCRINDD'
DEFPCH P1 DDNAME 'OUTLIST'
*
DEFCHAR DCRIN LEN 16 VALUE ' '
DEFNUM RC1 DIGI 2 VALUE 0
*
WHILE $READRC EQ 0
  READ DCRIN FROM F1
  IF $READRC EQ 0
    MOVE 0 TO RC1
    WHILE RC1 EQ 0
      BQL_EXEC 'SELECT TABLE LRN -
                FIELDS(RECI,DCR) -
                WHERE(DCR LIKE ' DCRIN ') -
                ORDER BY KEY LRNDCR'
      MOVE $BQLRC TO RC1
      IF RC1 EQ 0
        PUNCH DCRIN ' IN TABLE LRN UNTER: ' RECI TO P1
      ENDIF
    ENDWHILE
  ENDIF
ENDWHILE
*
EXIT
*
//

```

14.2.3. Find DCRs in list/report recipient connect definitions

```

//B93PRPGC JOB 724,'BETA',CLASS=X,MSGCLASS=E,NOTIFY=&SYSUID
//*
//*****
//* PRODUCT : BETA 93 *
//* REPORT : Search for DCRs in LRIs *
//***-----***
//* NOTE : *
//* *
//***-----***
//* MODIFY : - STEPLIB DSN *

```

```

//*          - SSID                                     *
//*          - Eingabedatei DCRINDD                   *
//*****
//*
//REPORT    EXEC PGM=BSS16RPG,REGION=0M
//*
//STEPLIB   DD DISP=SHR,DSN=BETA.BSA.LOAD
//*
//RPGPARM   DD *
SSID=X93A
//DCRINDD   DD DISP=SHR,
//          DSN=BETA93.DCR.INPUT
//OUTLIST   DD SYSOUT=*
//RPGJOB    DD SYSOUT=*
//RPGSCAN   DD SYSOUT=*
//RPGTRACE  DD SYSOUT=*
//RPGSUM    DD SYSOUT=*
//SYSOUT    DD SYSOUT=*
//SYSABEND  DD SYSOUT=*
//RPGIN     DD *
*
  DEFFILE F1 DDNAME 'DCRINDD'
  DEFPCH  P1 DDNAME 'OUTLIST'
*
  DEFCHAR DCRIN LEN 16 VALUE ' '
  DEFNUM RC1  DIGI 2 VALUE 0
*
  WHILE $READRC EQ 0
    READ DCRIN FROM F1
    IF $READRC EQ 0
      MOVE 0 TO RC1
      WHILE RC1 EQ 0
        BQL_EXEC 'SELECT TABLE LRI -
                  FIELDS(FORM,EXT,REPORT,RECI,DCR) -
                  WHERE(DCR LIKE ' DCRIN ') -
                  ORDER BY KEY LRIDCR'
        MOVE $BQLRC TO RC1
        IF RC1 EQ 0
          PUNCH DCRIN ' IN TABLE LRI UNTER: ' FORM EXT REPORT RECI -
          TO P1
        ENDIF
      ENDWHILE
    ENDIF
  ENDWHILE
*
  EXIT
*
//
(ANRE)
=====

```

```
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