Note Language: English   Version: 31 Validity: Valid Since 05.01.2006

Summary

Symptom

There are too many, too few or simply incorrect sales document (quotation, sales order, scheduling agreement) or delivery requirements. You can detect or check this using Transaction MD04 (Stock/Requirements List). These inconsistencies may trigger follow-on errors in planning, procurement (production, purchase order) or document processing (availability check).

Other terms

Sales document, sales requirements, outbound delivery, delivery, delivery requirement, reconstruction, reorganization, VBBE: Sales Requirements Individual Records; VBBS: Sales Requirement Totals Record, summation SUMBD, individual requirement, total requirement, daily requirement, weekly requirement, customer requirement, sales order requirement, ATP availability, batch input, collective processing, /SAPAPO/CIF_DELTAREPORT3: CIF - Comparision/Reconciliation of Transaction Data, VBUK: RFGSK, LFGSK, WBSTK, ABSTK; VBUP: RFGSA, LFGSA, WBSTA, ABSTA

Reason and Prerequisites

The problem may be caused by a program error or an operating error.

Solution

Cause of Error

Try to discover the cause of the error and then try to correct it to avoid new requirements errors. If you cannot correct the error yourself, create a customer message and describe how the error can be reproduced (for further information see Note 547277, point 1).
If errors occur repeatedly in the requirements update that you (still) cannot reproduce, save the log of correction report SDRQCR21 (see below) so that this data may be used when troubleshooting.

Correcting the Error

 o Correct the requirement errors using the SDRQCR21 report in accordance with "Instructions for Using SDRQCR21". To improve system performance, make sure that you have implemented Note 820823 (as of Release 4.5B).

 o If the ATP server is active in your system, update the data in the ATP buffer (see Note 163819).

 o If your R/3 system transfers sales and delivery requirements to an APO system (using an active integration model for the "Sales order" object), adjust the data in APO using Transaction /SAPAPO/CCR (Report /SAPAPO/CIF_DELTAREPORT3). If this does not work, see Note 444641.

Instructions for Using SDRQCR21

o Material and Plant
   If you enter selection criteria for "Material" or "Plant," the
   report processes the requirements according to this selection only.
   If you do not enter a selection criterion, the report processes all
   sales and delivery requirements.
   By severely restricting the selection criterion "Material," you may
   be able to reduce the runtime of the report. In general, selecting
   the "Plant" criterion only does not shorten the runtime period. For
   more information, see the section entitled "Performance of
   SDRQCR21".

o Data transfer
   Select the "Data transfer" parameter so that the report updates the
   requirements on the database.
   If you execute the report without selecting the data transfer
   parameter, the report simulates the update only (that is, it checks
   the requirements and issues a log, but it does not make any
   changes). In this way you can also use SDRQCR21 as a pure check
   report for sales and delivery requirements.

o Compare
   Always select the "Compare" parameter to improve the performance
   (runtime) and to restrict the scope of the log.
   The report then corrects, deletes and creates only the requirements
   affected by the correction. If you do not select the parameter, the
   report completely reconstructs the database (for the
   materials/plants selected).

o Planning entry
   If you select the "Planning entry" parameter, the report creates
   planning file entries (entries for the planning run) for the
   materials/plants affected (and relevant according to the MRP type).

o Processing for material
   If you select the "Processing for material" parameter, the report
   saves the requirements (database commit) one after the other for
   each material/plant, instead of saving all the requirements in one
   step. Correspondingly, the log issued by the report is also sorted
   according to material and plant.

o No parallel processing with a data transfer!
   Only execute the SDRQCR21 report with a data transfer once you have
   made sure that no-one will process sales documents or deliveries
   (for the materials/plants according to the selection) whilst the
   report is running, either in the foreground (dialog) or in the
   background (rescheduling, collective run for creating deliveries,
   EDI-IDoc and so on)!
   Reason: The report does not read or set blocks. It therefore
   produces correct results only if no other program updates sales or
   delivery requirements, or checks availability while the report is
   running. If you execute the report with a data transfer during
   production operation, the system may even generate new requirement
   errors!
   Additional Information: If you run the SDRQCR21 report twice at the
   same time, enter the relevant selection criteria Material/Plant for

the same reason, so that they do not overlap during simultaneous processing.

-   o   Recommendation
    To execute the SDRQCR21 correction report easily, securely and completely, do not enter any selection criteria for "Material" or "Plant," select all four checkboxes and make sure that the report is not running during production operation. If runtime problems or other problems occur, see the following explanations in the sections entitled "Performance of SDRQCR21" and "Solving SDRQCR21 Problems."

-   o   Comments

    -   Even if you execute the report without a data transfer, you should still select the "Compare" parameter.
        However, it is irrelevant whether you select the "Planning entry" parameter in this case, since the report without a data transfer does not create any planning file entries.

    -   The "Compare," "Planning entry" and "Processing for material" parameters are available as of R/3 Release 3.1I only.

Performance of SDRQCR21
The report may require a long runtime. Since you can only execute it at specific times (you cannot use parallel processing, that is, you cannot execute the report with a data transfer during normal production operation), bottlenecks may occur.
In this case, attempt the following solutions:

-   o   Execute the report with a data transfer only for materials with requirement errors. To do this, proceed as follows:

    -   Step 1: Execute the report without a data transfer (!) and without the selection criteria 'Material/Plant', but with 'Compare' and with 'Processing for material'. You can also do this during production operation.

    -   Step 2: Outside production operation (!), execute the report with a data transfer only for those materials (or material/plant combinations) for which step 1 logged requirement errors.

    -   Step 3, only if you use total requirements (Table VBBS, daily/weekly requirement) and not individual requirements (Table VBBE):
        Outside of production operation (!), repeat step 1 without 'Processing for material' for test purposes. The report should no longer log any errors.

    -   Comment 1: If step 1 logged several materials with requirement errors, repeat it (several times if necessary) with selection(s) according to these materials. By repeating the step in this way, the system may log fewer materials with requirement errors. (During production operation, the report usually logs more requirement errors than actually exist. If data was transferred, the report would then create new errors.)

Carry out step 2 only for those materials for which the report has logged permanent requirement errors.

- Comment 2: If the time outside production operation is insufficient for step 2, divide the step into several substeps. That is, divide the material list determined in step 1 into sections that do not overlap and execute the report for each corresponding subsection. You can execute these substeps in succession, if necessary over several days, or partially at the same time depending on your system capabilities.

- Comment 3: If, contrary to expectations, step 3 logs materials with requirement errors, (repeatedly) treat this step as step 1 of a new correction process. Outside production operation, reduce the list of materials with requirement errors as described in comment 1, and so on.

o Do not select the 'Planning entry' parameter.
  The report then does not create any new planning file entries (see above). However, you must be aware of the risks involved in doing this!

o Archive sales documents and deliveries.
  We recommend that you archive sales documents and deliveries. Document archiving reduces the database for the SDRQCR21 report and for other programs, and therefore significantly improves performance.

o Optimize database performance.
  The tables that the report uses to approximately preselect the relevant document items are the most important:

  - VBUK and VBUP (without a selection according to Material/Plant)

  - VAPMA, VLPMA and VBUP (with a selection according to Material/Plant)

  The report still reads entries from tables VBAK, VBAP, VBEP, LIKP, LIPS, as well as VBPA, VBUP and VBFA (if necessary).
  Finally, it reads and updates tables VBBE (requirement individual records) or VBBS (totals records for each day/week).

Solving SDRQCR21 Problems

o Document status
  The report returns correct results only if the statuses of the documents affected are correct (with regard to reference, delivery, goods movement, reason for rejection). This prerequisite is usually met. Only if you have good reason to suspect that the statuses are inconsistent or that the report has returned incorrect results because of inconsistencies, see Note 207875 and/or 506510, to check and, if necessary, correct the statuses of sales documents and/or deliveries.

o Item Material Index
  If you enter the 'Material' or 'Plant' selection criteria, the report returns correct results only if the document items affected

are contained correctly in the relevant material index (VAPMA, VLPMA). This prerequisite is usually met. Only if you have good reason to suspect that the index is inconsistent, that the report has returned incorrect results because of inconsistencies, or that the report terminated with SAPSQL_ARRAY_INSERT_DUPREC because of inconsistencies, check the TVIND Customizing table and see Note 128947 and/or 33267 for information about correctly reconstructing the material index.

o   ATP server: After the run of SDRQCR21 (if you use the ATP server), you must load the requirements for the combinations from material and plant for which SDRQCR21 was started to the ATP server.

Header Data

Release Status: Released for Customer
Released on: 05.01.2006   14:47:17
Master Language: German
Priority: Recommendations/additional info
Category: Consulting
Primary Component: SD-BF-AC Availability Check

Secondary Components:

                         SCM-APO-ATP Global Available-to-Promise
                         LE-SHP-GF-AC Availability control Delivery
                         SCM-APO-INT-SLS Sales

The Note is release-independent

Related Notes

Number	Short Text
997573	enable external calls for requirement calculation
950801	Wrong sales requirements after processing batch split items
929718	Requirements for deliveries are not correctly updated
907053	Analysis report for missing reqmts due to initial SUMBD
870311	Reason for rejection for prod sel does not delete reqmts
820823	Performance improvement for report SDRQCR21
547277	FAQ: Requirements in SD and in the delivery
506510	Correction report: Status in the delivery
444641	Correction of incorrect sales order requirements with APO

Number	Short Text
360859	Correctn report: Missing material availability date
207875	Using report SDVBUK00
201667	Incor.requiremts alloc.for comp.suppl.sched.agreemt
166276	Missing requiremts fr.del.schedule for ABDIS= B/D
163819	ATP: Transaction ACBD
128947	Correction of SD document indexes with RVV05IVB
121728	Open qty/requirements for sched.agreemts different
33267	SDRQCR21 cancels with duplicate record

Attributes

Attribute	Value
Transaction codes	/SAPAPO/CCR
Transaction codes	/SAPAPO/SDRQCR21
Transaction codes	ACBD
Transaction codes	CO09
Transaction codes	MD04
Transaktionscodes - manuell	/SAPAPO/CCR
Transaktionscodes - manuell	/SAPAPO/SDRQCR21
Transaktionscodes - manuell	ACBD
Transaktionscodes - manuell	CO09
Transaktionscodes - manuell	MD04