

- **Reporting Overview**
- **Report Writer Reporting**
- **Drilldown Reporting**
- **Reporting based on ABAP List Viewer (ALV)**
- **Defining Reports using Report Painter**

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**At the conclusion of this UNIT,
you will be able to:**

- **Name the different reporting tools available in Controlling.**
- **Explain the purpose and capability of each reporting tool.**

- **Different Report Tools used**
 - **Report Painter/Writer Reporting**
 - **Drilldown Reporting**
 - **Reporting based on ABAP List Viewer (ALV)**



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- Several different reporting tools are used in the Controlling Information System. Every report tool has its own features and range of applications.
- **Report Painter** allows you to create reports using data from CO and other R/3 application components, which you can adapt to meet your individual requirements. Many of your reporting requirements can already be met by using the standard reports provided by the various CO application components. If these standard reports do not meet your reporting needs, Report Painter enables you to define your specific reports quickly and easily.
- Report Painter fulfills a function similar to **Report Writer**, but is easier to use. Most of the functions found in Report Writer have been built into Report Painter; however, you do not have to be familiar with all Report Writer concepts (such as Sets) in order to use Report Painter.
- **Drilldown reporting** is used in Profitability Analysis (CO-PA) and in Product Cost Controlling (CO-PC). This reporting tool uses characteristics to classify transaction data. Controlling area, company code, customer, product group, order, and product are examples of characteristics. The time reference (fiscal year, period) is also a characteristic. Key figures represent specific values of the classified data. Examples of key figures include direct costs, sales, sales deductions, number of employees, and sales quantity. You can perform calculations with key figures to derive values such as sales per employee and contribution margin.
- The **ABAP List Viewer** standardizes and simplifies the operation of lists in the R/3 System. It is used for line item reporting throughout CO. A uniform interface and list format is available for all lists. It contains convenient features for the dynamic creation of display variants. Using display variants, you can change the format of your list. You can choose fields to be added to the display, change the order of the fields, and adjust the column width to suit your requirements.

Information System

- ☒ **Plan / actual comparisons**
 - CCtr: Actual/Plan/Variance
 - Area: Cost Centers
 - Area: Cost Elements
 - CCtr: Current Period/Cumulated
- ☒ **Additional characteristics**
- ☒ **Additional key figures**
- ☒ **Actual / Actual Comparisons**
- ☒ **Target / Actual Comparisons**



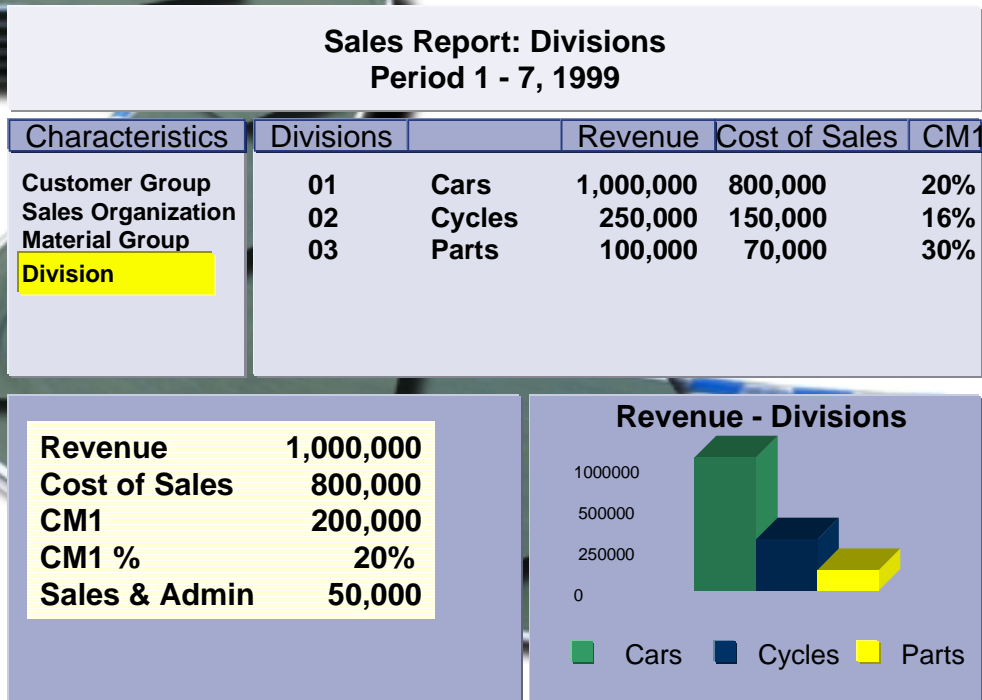
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- Data is evaluated in Controlling by means of reports that are provided in the standard system or that you define yourself.
- You select reports in the information system using the report tree. The report tree contains all reports in an application organized in a hierarchical tree structure.
- There is a separate standard report tree in each application area in Controlling. The standard reports for each application area are assigned to the nodes of the relevant report tree.
- In addition to the report tree in the standard system, you can also define your own report tree to which you can assign both standard reports and your own reports.

- Cost Element/Cost Center Actual/Target: Results Report			
***** Cost Element/Cost Center Actual/Target *****			
Reporting period 1 to 03		2000	Date 07.04.00
Cost Elements / Cost Centers	Actual Costs	Target Costs	Variance (abs)
** Other Administrative Costs	6,477,800.00	3,238,900.00	3,238,900.00 -
2210 Electricity	112,000.00	56,000.00	56,000.00 -
* 481000 Depreciation	112,000.00	56,000.00	56,000.00
** Imputed Costs	112,000.00	56,000.00	56,000.00
2110 Goods Receipt	566,000.00	283,000.00	283,000.00
2120 Warehouse, Receiving	849,000.00	424,500.00	424,500.00
2130 Warehouse, Shipping	1,414,999.84	707,499.92	707,499.92 -
2310 Admin Building	590,000.00	295,000.00 -	295,000.00
2320 Warehouse Building	900,000.00	450,000.00 -	450,000.00
2330 Production Building	1,340,000.00	670,000.00 -	670,000.00
* 511111 Assessment			
2110 Goods Receipt	1,277,159.92	638,579.96	638,579.96 -

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- In addition to standard reports, you can also use Report Painter and Report Writer to define your own reports. You can then add these custom reports to your reporting tree.
- In the interactive information system, you can evaluate posted data immediately after its entry into the SAP R/3 System, and follow its origins down to the document level. Both Report Painter and Report Writer reports offer a variety of options to display, sort, filter, and summarize the data.
- Report Painter has similar capabilities to Report Writer, but is easier to use. Most of the functions of Report Writer have been incorporated into Report Painter, but in general have been designed to be more intuitive and end-user oriented.
- Report Painter reports can be edited by using Report Writer, but can then no longer be maintained by Report Painter. Report Writer reports cannot be modified by Report Painter.
- When you use Report Painter to create your own reports, you define the report column and row structure and general data selection. Report Painter can access the data out of an extract, directly out of the data base, or out of an archive.
- The variation feature makes it possible to create an individual report for each element of a group that you defined in the general data selection. For example, you can create an individual report for the total summary node and each group node in a cost center hierarchy.
- All reports available online can be executed in the background at predefined times. This can be particularly useful during a process such as period-end reporting, where multiple reports are executed for various users throughout the organization. This feature allows you to process large quantities of data during periods of lower system use.



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- In drilldown reporting you can summarize data according to the characteristics, and then drill down interactively. At each level of the report, you can display the drilldown list (overview) or detailed information (margin analysis).
- In the example above, the drilldown was executed with the characteristic “Region”, followed by “Customer group”. From the first drilldown list, the region “North” was chosen for further analysis, and both a detail and drilldown list produced. This second drilldown list shows overview profitability information for each value of the next lower level characteristic (customer group). The detail list shows detailed profitability information for all of “North”, without further breakdown to customer group:

Account	Actual Cost	Plan Cost	Var.(abs.)	Var. (%)
470000 Rent	100,000.-	100,000.-		

CO-Documents

470000 Rent 60,000 Cost Center
 470000 Rent 30,000 Cost Center
 470000 Rent 10,000 Cost Center

FI-Document

Debit 470000 Rent 10,000
Credit 113100 Bank 10,000-

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- Every individual transaction is automatically summarized in totals records. This summarization takes place in the R/3 System according to object/account, and provides a quicker evaluation of the data. You can analyze the totals record data using the information system. You can also analyze line items using a line item report by using the drilldown feature from the totals report. You can also branch from a line item to the original documents that created it.
- Original document display
 To display the original document in the application area that originated the CO posting you are analyzing, click on the line item to select it, and choose the Source document button, or the menu path Environment > Source document. Or you can simply double-click on the desired document line. For example, if a document line item originated in Financial Accounting (FI), with a primary posting to a cost center in CO, the system displays the FI document.
- Display Accounting documents (actual line items only)
 When you select a line item and choose the menu path Environment > Accounting documents, the system displays a dialog box containing a list of the accounting documents that were created in connection with the corresponding line item. In the example above (primary posting to a cost center in FI), these would be the FI document, the CO document, the profit center document and possibly other documents (such as Special purpose ledger and Consolidation document).

Unit	Cost element	Value	Cost center	Currency	Total quantity entered
4220	619000	819.083	h		
4220	619000	105.500	h		
4220	620000	1001.000	h		
4220	620000	1476.111	h		
4230	619000	105.500	h		
4230	619000	77.747	h		
4230	619000	1102.800	h		
4230	620000	35.001	h		
4230	620000	3.125	h		
4230	625000	10.000	h		
4230	625000	5.500	h		
4230	625000	82.030	h		

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- The R/3 System offers several standard line item display variants. The display variant controls how the line item information is displayed on the screen. If you wish, you can change the line item fields that are displayed, and the sequence in which they appear. You can save these settings to create your own display variants.
- Depending on the width of a column, the R/3 System automatically displays the short text version or the long text version of the field name, using your logon language, if available for the report.
- Once you have executed a line item report, you have the following display options:
 - Horizontal scrolling by column
 - Hide/show columns
 - Change order of columns
 - Sort list according to certain criteria
 - Totals for value columns
 - Subtotals for each object in a column
 - Original document display
 - Filter Function
 - Source Document Display