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In this chapter, you'll prepare your transaction data for consolidation, step by step. After learning how to set up the Data Monitor, you'll walk through data integration and key consolidation activities like balance carryforward.



"Cash Positioning and Cash Operations"



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Cash Management with SAP S/4HANA

561 Pages, 2021, \$79.95

ISBN 978-1-4932-2014-4



www.sap-press.com/5169

Chapter 3

Cash Positioning and Cash Operations

The daily activities of the cash management team can be summarized into cash positioning and cash operations. SAP Fiori apps help cash managers handle daily workloads efficiently—starting with cash position analysis, then with transferring cash across bank accounts, approving payments if required, and using a variety of reports and analytical tools.

The next pillar of cash management is cash operations. This chapter begins with an overview of the main activities of a cash manager, describing daily operations and examining specific requirements related to closing out each day. We'll illustrate your activities when running your daily cash operations in SAP S/4HANA. Your daily procedure can be executed step by step using SAP Fiori apps that correspond to specific tasks.

This chapter is organized by the business processes that make up cash operations; within each subsection, we'll cover the relevant SAP Fiori apps to accomplish specific tasks. We'll first discuss the operational activities you usually perform at some point during the day to set cash. We'll discuss each activity as a task in its own right, without reference to the daily closing procedure. We'll then go through the cash position itself, especially the reports you'll run to analyze your cash position throughout the day. Finally, we'll discuss some additional functions and reports available to you in cash management in SAP S/4HANA. All apps are accessible from the SAP Fiori launchpad.

3.1 Cash Positioning in SAP S/4HANA

The cash management in SAP S/4HANA functionality for cash positioning is simply called cash operations. Its main focus is the daily procedures and tasks that you, as a cash manager or cash operator, must perform to position cash. This process starts with monitoring bank statements, which are then included in the daily cash position. After you've determined the initial opening position for your bank accounts, you can make the required bank transfers or manual payments, which will be automatically reflected in your cash position. You can also analyze the disbursements and collections forecasted for today, including intraday bank statements into your forecasted cash position for the day. You can make investment, borrowing, and foreign exchange (FX) decisions and act upon them. Once executed, the financial transactions are automatically reflected in your cash position again. A few final updates and adjustments, and

you can close today's cash position. An automatic snapshot functionality makes sure that if you need to go back to the cash position and look at the exact balances you had when you made your investment or borrowing decision at some point during the day, you can do so without the need to download a report or to print and file a report. The cash operations functionality also allows you to monitor bank risk based on your bank balances and helps you manage the approval process for bank payments.

These functionalities are available to you through the same user interface (UI) as in bank relationship management (BRM) discussed in the previous chapter. All SAP Fiori apps can be accessed from the SAP Fiori launchpad (Figure 3.1). You can set up the layout of the SAP Fiori launchpad according to your role and activities.

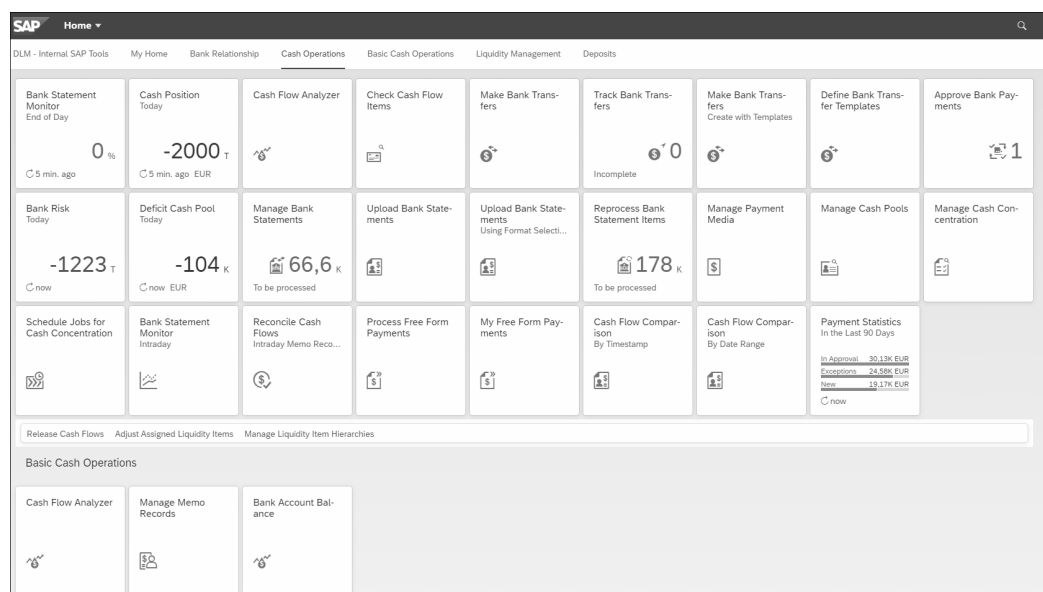


Figure 3.1 SAP Fiori Launchpad with Daily Cash Operations Apps

3.1.1 Common Challenges

From the outside, cash positioning seems to be a rather simple activity. After all, you only need to look at your bank accounts, make a few bank transfers, see what's left in your accounts, and you're done. In practice, however, this activity can be quite daunting. With bank accounts in many different banks, across countries, and in a variety of currencies, determining the accurate opening balance for the current day or the closing balance for the previous day can be challenging.

Next, you'll need an idea of what will happen during the day. How much cash will flow into your accounts, where, in which currency, and at what time? What disbursements will you have to make and from where? The answers to all these questions must take into account time zones and continents to ensure payments are made on time and to

interact in the market for funding and investments during the times of greatest liquidity. To master these challenges, you'll need to deploy state-of-the-art technology and agile processes to bring together all the cash-relevant information from inside and outside your organization.

With limited visibility on your cash position, you'll only have limited options to fulfill your main responsibility as a cash manager, which is to provision liquidity to your company. Without the support of technology, achieving visibility into your liquidity in a timely manner and at varying degrees of granularity is almost impossible, and navigating from a global cash position view to a bank balance and account balance view can be difficult.

You'll also face complex challenges fulfilling your other responsibilities as a cash manager, from compliance to fraud protection. Without the support of a comprehensive solution, you'll be bogged down in the nitty-gritty of manual procedures and controls.

Although a valid first step in the right direction, even the classic SAP solution for cash management didn't address these challenges in a comprehensive manner. Siloed applications, semi-integrated processes and data models, and the fact that classic cash management was built in the early days of SAP ERP means you can no longer rely solely on classic cash management for your daily operations.

3.1.2 Business Benefits with SAP S/4HANA

SAP has answered the call for a more modern cash management solution with cash management in SAP S/4HANA. The cash operations functionality of the new cash management in SAP S/4HANA provides you with real-time cash position reporting capabilities. As soon as bank statements are imported, you can immediately check on your cash position, without any dependence on accounting. The cash position is updated whether you posted the bank statement or not.

You'll also get powerful tools for cash position analysis, with navigation from high-level to detail-level analysis, drilling down to (or navigating to—as we prefer to say in the SAP Fiori world) the line item report and even further down to the original business transactions.

The SAP Fiori apps for cash management in SAP S/4HANA provide seamless integration from insight to action, that is, from the analytical view to the transactional level. For example, you'll be able to initiate bank transfers or cash trade requests directly from the Cash Position (Today) app.

All apps are built based on the SAP Fiori user experience (UX). As a result, cash management in SAP S/4HANA offers user-friendly tools that simplify your processes and tasks, such as the payment approval process, which you now can execute platform-independently from your computer's browser or a mobile device.

All cash-relevant transactions are stored in a single repository, One Exposure from Operations, making generating reports and using analytical apps much easier. Because the data is stored within the SAP HANA database, it's accessible to the SAP Fiori apps and allows you to create new reporting analytical functions, such as reports comparing actual versus planned or forecasted cash flows.

Using SAP's new data model, SAP Smart Business provides key performance indicator (KPI)-based reports and analytical apps to help you gain better insights into your cash operations.

3.2 Analyzing Cash Position

In this section, we'll introduce you to the various apps available in cash management in SAP S/4HANA for analyzing your cash position. After explaining how the SAP Smart Business Cash Position (Today) app functions, we'll dive into the functions of the Cash Flow Analyzer app and then the features of the Check Cash Flow Items app. Next, we'll take you through the new version of the classic cash position report, Transaction FF7AN (the Display Cash Position app), before finally presenting the newest apps in the family, the Bank Account Balance app and Manage Liquidity Item Hierarchies app.

While we discuss these apps, we'll point you to the related functions and the common data structures and give you a high-level overview of the type of app under discussion (SAP Smart Business, SAP Fiori, etc.).

3.2.1 Cash Position (Today) App

The Cash Position (Today) app is also an SAP Smart Business app, like the Bank Statement Monitor (End of Day) app. As an SAP Smart Business app, you'll be able make changes and create additional tiles based on the same underlying data using the KPI Modeler. As a result, you'll interact with the SAP Smart Business app with its tile (Figure 3.2) and the analytical report (Figure 3.3) provided by SAP. The app provided by SAP is an example of the types of apps you can build yourself using the SAP Smart Business framework with the KPI Modeler at its core.

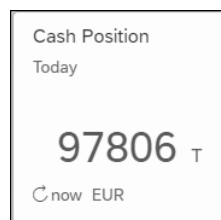


Figure 3.2 SAP Fiori Tile for the Cash Position SAP Smart Business App

Figure 3.2 shows the tile provided by SAP that is installed with cash management in SAP S/4HANA. This tile displays today's cash position in the display currency and the currency code. By default, the reporting currency of the app is EUR.

Changing the Currency of the Cash Position (Today) App

If you want to report your cash position in another currency, one of your first activities when you're doing the initial setup of the SAP Fiori apps for cash management is to change the currency of the SAP Smart Business app.

You do this through the KPI Modeler app in which you create a new version of this app, and define the desired currency as your reporting currency or display currency for the app. Of course, you could also have multiple tiles in different currencies that allow you to report on your cash position or different parts of your cash position in their appropriate reporting currency.

Today's cash position is defined as today's forecasted closing balance. This balance is calculated based on all the aggregated actual cash flows with value dates before today (today's opening balance) and the forecasted cash flows with value dates prior to and including today. Today is defined as the system date of the server. This balance is the same as that calculated by the Make Bank Transfers app and is the balance you'll report on when running the Cash Flow Analyzer app in the **Delta with Balance** view using the default selection parameters for certainty levels.

The cash position displayed in the app is color-coded according to the thresholds defined for the app. These thresholds are defined for the total cash position as defined by the selection parameters in the app. The same key figure displayed in the tile is also shown in the report (Figure 3.3).

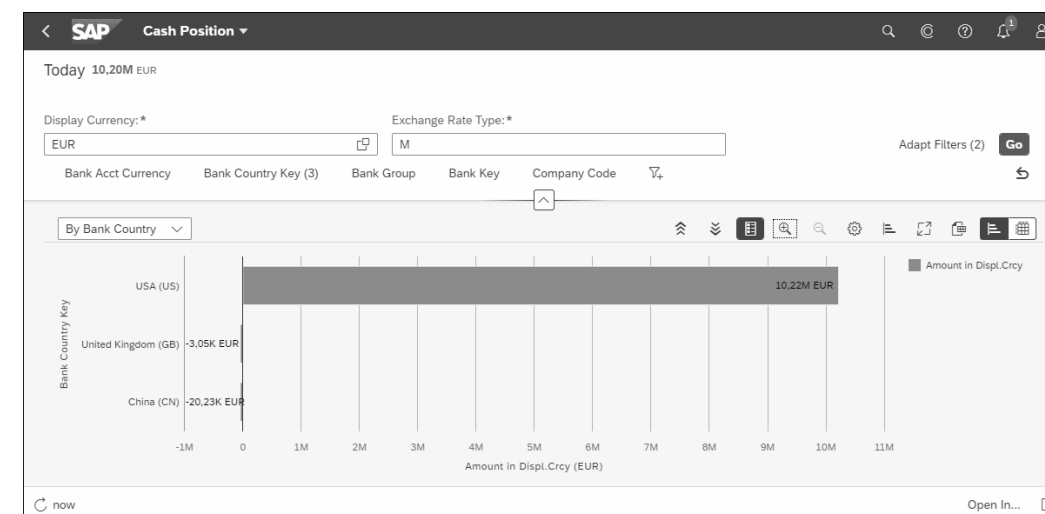


Figure 3.3 Cash Position SAP Smart Business App Overview

In the following sections, we'll take you through the detailed functions of the Cash Position (Today) app, including the navigation options, some general features for SAP Smart Business apps, and the backend data consumed by the app.

Navigation Options

The Cash Position (Today) app has in-app and cross-app default navigation options by default. The in-app options allow you to navigate to different reporting dimensions. By default, the app allows you to look at your data by **Bank Country, Bank, Bank Group, Company, Bank and Currency, Currency and Country, Currency, and Currency (Table View)** (Figure 3.4). Use the dropdown menu in the top-left corner of the report to select the reporting dimension to display.

The in-app navigation shown in Figure 3.4 is configured in the KPI Modeler for each SAP Smart Business app. When you create your own app, you'll be able to select your preferred navigation from the list of available navigation options.

By default, cross-app navigation allows you to continue your analysis in another app. You have multiple ways to navigate to another app from within the Cash Position (Today) app. The navigation options are either standard SAP Fiori functionalities or are part of the SAP Smart Business functionality and, as such, are configurable through the KPI Modeler.

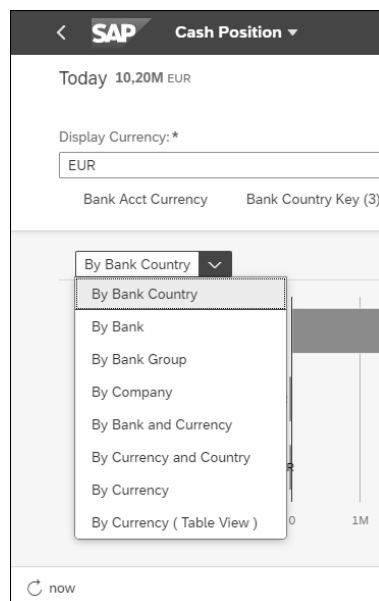


Figure 3.4 Cash Position SAP Smart Business App: Reporting Dimensions Dropdown

Figure 3.5 shows the new cross-app navigation options that are part of the SAP Fiori theme app. From the dropdown menu under the **Cash Position (Today)** app title, you can select **All My Apps** to navigate to the menu of all the apps assigned to your user and

user role. This menu is defined by the catalogs assigned to your user roles and the apps assigned to your launchpad home page. If you click on **Home Page Apps**, you'll see the same apps that you see in your SAP Fiori launchpad, grouped in the same way as on your launchpad home page. If you click on any app, the app will open in a new tab on your browser.

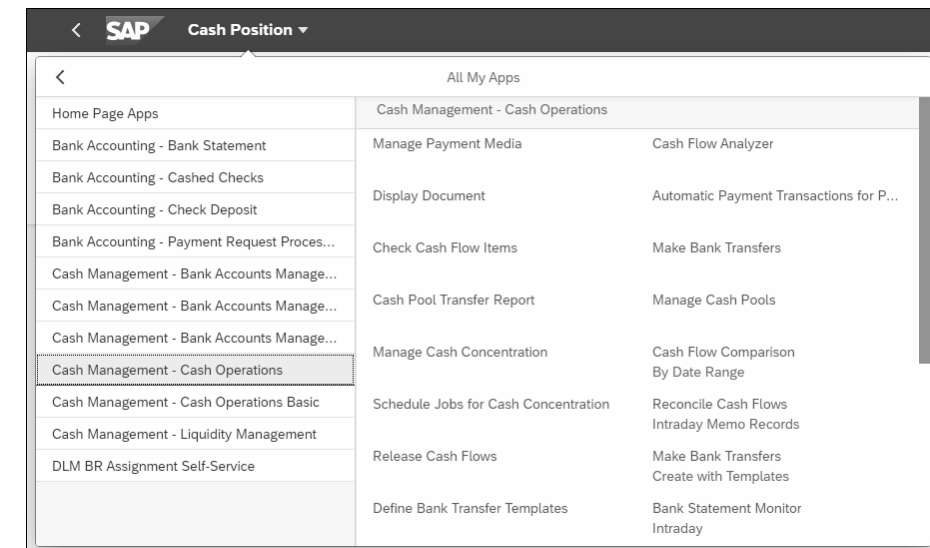


Figure 3.5 Cross-App Navigation SAP Fiori Theme

Another way to navigate to another app is shown in Figure 3.6. In the bottom-right corner, clicking on the **Open In** button will take you to five different apps: Manage Bank Accounts, Track Bank Transfers, Cash Flow Analyzer, Manage Banks, and Make Bank Transfers. This navigation option is part of the SAP Fiori theme, yet the list of apps to navigate to is specific to the current app, in our case, the Cash Position (Today) SAP Smart Business app.

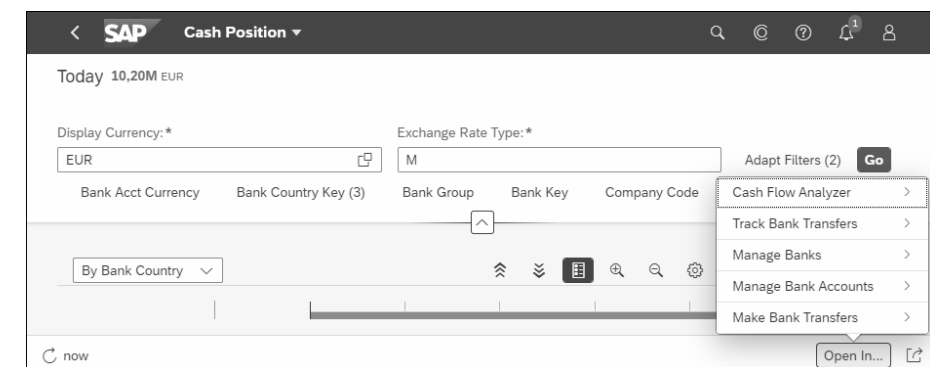


Figure 3.6 Cross-App Navigation SAP Fiori Theme: Open In Button

Another way to navigate among your SAP Fiori apps is shown in Figure 3.7. You can click on any of the areas in the diagram; in our example, when you click on any bar of the bar chart, a navigation menu opens. This option is an SAP Smart Business functionality, and you can configure the available navigation options using the KPI Modeler. Notice that, in this case, the navigation is primarily in-app to different views of the same Cash Position (Today) app using the available reporting dimensions. You can also navigate to the Cash Flow Analyzer app from here.

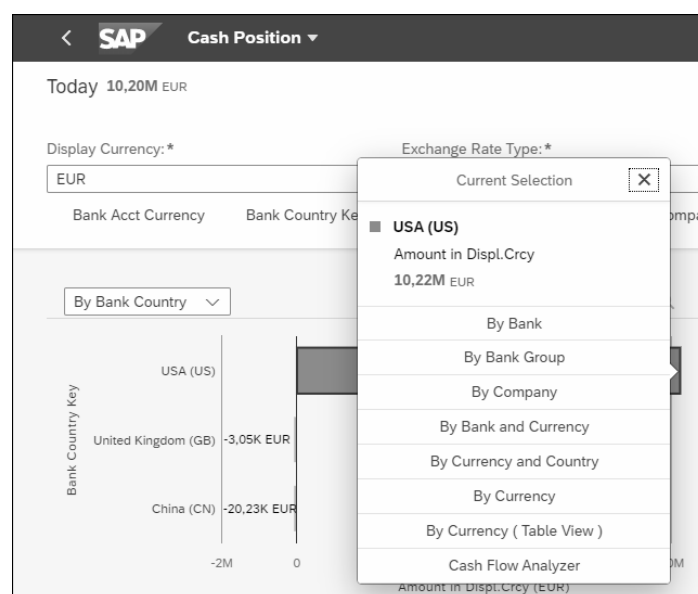


Figure 3.7 SAP Smart Business Apps: Cross-App Navigation

The fundamental difference to the in-app navigation shown in Figure 3.4 is that attributes will be automatically filtered by the attributes of the area in the diagram you clicked on. In Figure 3.7, if you clicked on the bar for the cash position on bank accounts with banks in the United States, then, when navigating to the Cash Flow Analyzer app, the app will open already filtering by **Bank Country** to only show data involving US banks. If you select an in-app navigation option, for example, navigating to the reporting dimension **By Company**, the same bar chart diagram opens, but the filter is set to only show balances for bank accounts with banks in the USA, and the app will group the accounts by company code.

In addition to navigation options from the app, you also have access to a number other generic SAP Smart Business app features, which we'll explore next.

SAP Smart Business App Features

The Cash Position (Today) SAP Smart Business app contains several generic SAP Smart Business app features, as shown in Figure 3.8.

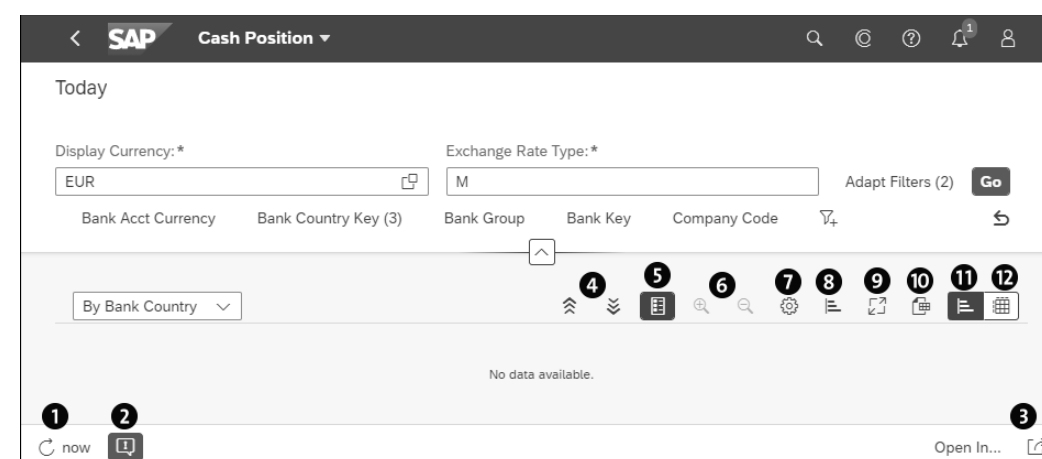


Figure 3.8 SAP Fiori and SAP Smart Business Features

SAP Smart Business apps are configured to refresh at certain intervals. The app's tile and the refresh button ❶ keep track of the aging of the information displayed by the app. You can refresh your data by clicking on the refresh button ❶ at the bottom of the report or by using the refresh link in the app's tile (Figure 3.2).

If any errors or warnings occur while running the app, you'll be notified through the error log icon ❷. Click on the icon to see a short summary of the issues, and, from this summary, navigate to a detailed log. This navigation option is a generic SAP Fiori functionality.

For all SAP Fiori apps, you also have the ability to share your app with its current settings, filters, and variants. When you click on the share icon ❸, you'll be asked whether you want to **Save as Tile** or **Send Email** (Figure 3.9).

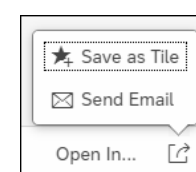


Figure 3.9 Share an SAP Fiori App

When you click on **Save as Tile**, you'll provide a name for the tile and define the thresholds for the tile (Figure 3.10). Click **OK** to save the app to your **Home** group on the launchpad.

When you click on the **Send Email** link, your favorite email client will open, and you can send a link to the app to someone else. When the recipient clicks on the link, the Cash Position (Today) app will open with the exact same settings you had on the screen when you created the link, with the same filters and attributes, diagram type, and so on,

provided the person has sufficient user rights and that access to cash management in SAP S/4HANA has been configured.

Figure 3.10 Share an SAP Fiori App: Save Tile

The drilldown and drillup buttons (4 in Figure 3.8) allow you to navigate one level up or one level down from the position where you currently are reporting. Figure 3.11 shows all reporting dimensions you have available for the underlying data in the SAP Smart Business app for drilling down. The axis title (13) indicates the current drilldown level, which is company code. You can choose any of the remaining dimensions in the dropdown list (14) as the next drilldown level, or you can drill up to the next higher level using the drillup button (4). In the example shown in Figure 3.11, you can also navigate one level up to the **Bank Acct Currency** level.

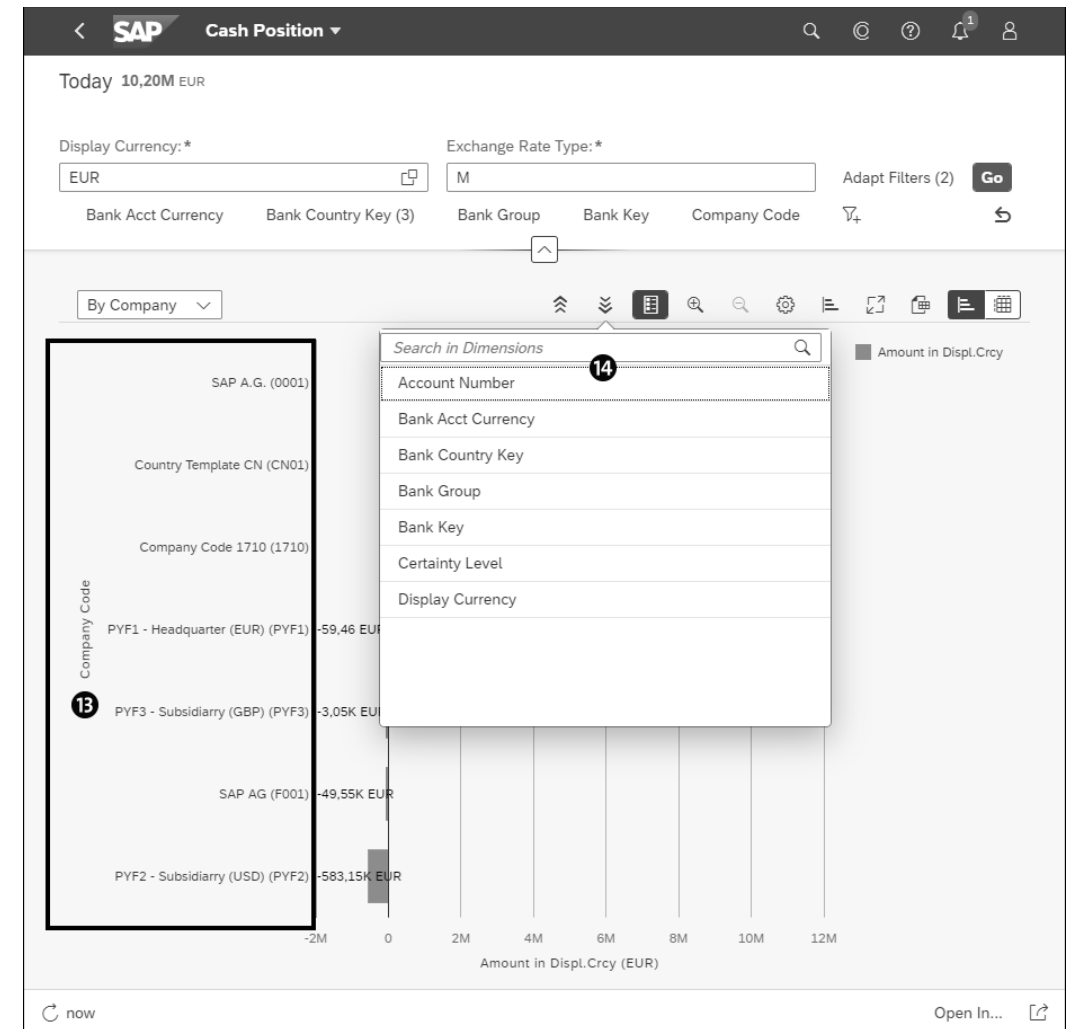


Figure 3.11 SAP Smart Business Apps: Drill Down/Up

You can also show or hide the legend for the diagram (5), and you can zoom in and out using the zoom buttons (6) (shown previously in Figure 3.8). As in all SAP Smart Business apps, you can also zoom in and out using a mouse wheel while pressing the **Ctrl** key, or you can press the **+** and **-** keys on the keyboard.

Clicking on the gear icon (7) takes you to the view settings. In the view settings, you'll have extensive options to define chart-specific settings, such as the chart type and the reporting dimensions to be applied to the chart. You can also define sorting criteria. The available settings and their relevance depend on the chart type and the definitions of the SAP Smart Business app. The restore button allows you to reset the app's settings to the SAP default definitions.

The chart icon ③ allows you to quickly swap between chart types, without making any other changes to the view settings. Not all available chart types (Figure 3.12) will always make sense for the data currently displayed in your app.

The open full screen icon ④ allows you to expand the report display to cover the entire screen, hiding the report title bar, the filter bar, and the footer of the report. Use the open full screen icon to return to the previous view.

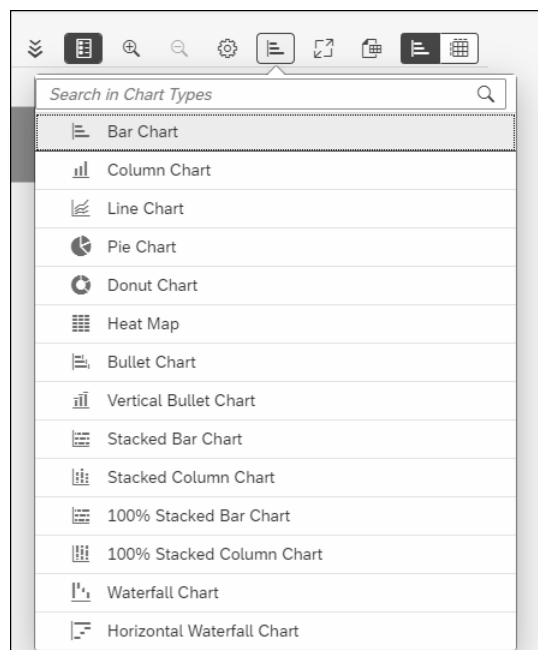


Figure 3.12 SAP Smart Business Features: Select Chart Type

Export your data to Excel using the export to Excel button ⑩ (refer to Figure 3.8). The Excel download will take all the data currently displayed, taking into account the filters and drilldowns defined. Downloading the data from the diagram in Figure 3.11 will look in Excel as shown in Figure 3.13.

	A	B	C	D	E
1	Bank Acct Currency	Company Code	Company Name	Amount in Dspl CrCY	Display Currency
2	EUR	1010	Company Code 1010	2,267,880.40000	EUR
3	GBP	1010	Company Code 1010	1,560,668.73000	EUR
4	USD	1010	Company Code 1010	249,313.08000	EUR
5	EUR	2210	Company Code 2210	-1,000.00000	EUR
6	CAD	2910	Company Code 2910	-1,031.04000	EUR
7	EUR	1710	Company Code 1710	-2,000.00000	EUR
8	USD	1710	Company Code 1710	-108,623.64000	EUR

Figure 3.13 Cash Position Overview: Excel Download

Using the chart view ⑪ and tabular view ⑫ buttons shown earlier in Figure 3.8, you can toggle between these views. In the tabular view, only the relevant features are available, so the list of icons/buttons in the navigation bar at the top of the report is slightly shorter. In the tabular view, the data from our previous examples looks like a clean report (Figure 3.14).

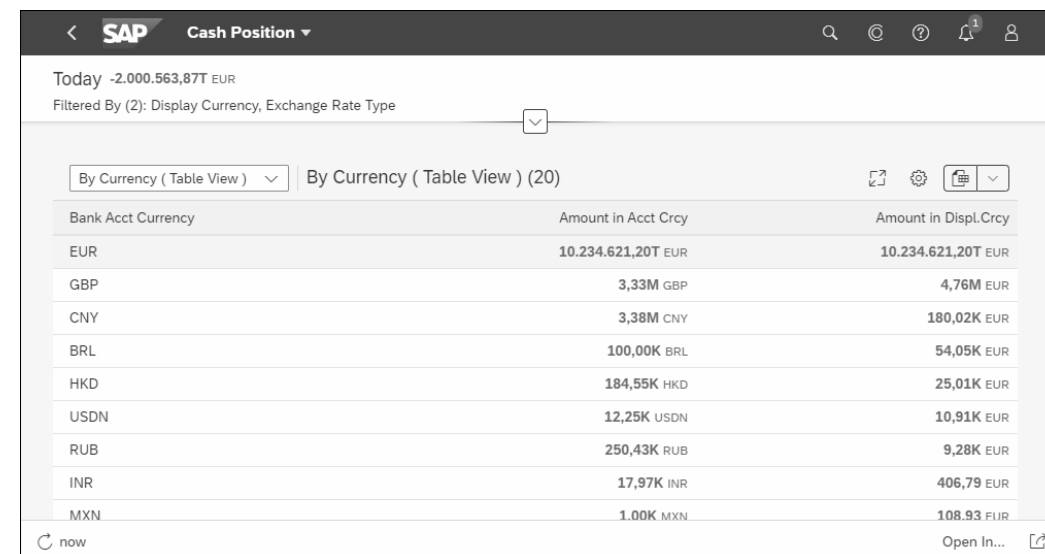


Figure 3.14 Cash Position Overview: Tabular View

KPI Modeler

Using the KPI Modeler, you can create new SAP Smart Business apps based on the existing data views. For example, you could create your own cash position apps, where you define the reporting currency as well as the default filters and the type of tile that should appear on the launchpad. As a result, you could create tiles for each of your pool structures and another one for the global or corporate level.

In the KPI Modeler, you can also define thresholds for tile status alerts. Alert statuses are color-coded; that is, the balance figure in the tile changes to green, yellow, or red depending on the total cash balance when compared to the defined thresholds.

After discussing the SAP-provided SAP Smart Business apps, and now that we've discussed using the KPI Modeler to create your own SAP Smart Business apps, we hope you'll agree that the Cash Position (Today) SAP Smart Business app is really only a sample app. SAP provides this app as a way for you to create your own apps. You can change all the analytical definitions of the app, such as reporting currency and drilldown dimensions in the KPI Modeler. You can create as many specific tiles/apps as you need,

for example, by region or by pool or in different currencies depending on the region, and you can assign navigation options according to your preferences.

We'll take you through a real case of creating your own SAP Smart Business app in Chapter 4, using the Liquidity Forecast app.

Data Consumption

The Cash Position (Today) app uses the exact same data as other cash position apps or any app that calculates a cash position, for example, the account balance in the Make Bank Transfers app.

The cash position in the overview is the forecasted closing balance of the reporting day. This balance is defined as the aggregate actual cash flows up to and including the reporting date (today), plus the forecasted cash flows for the reporting date, including overdue items, that is, cash flows with a due date prior to the reporting date. Apart from memo records, which in versions prior to SAP S/4HANA 1809 were still integrated from the memo records table FDES, the app reads all cash flow data from the line items in One Exposure from Operations derived from a variety of source applications.

Certainty levels categorize different source applications and enable different cash apps to consume the same data. Selecting the appropriate certainty level, you can define the cash flows that you want included into the actual flows. The default certainty levels selected are the following (see Chapter 5 for more detail on the meanings of these certainty levels):

- **SI_CIT**: Self-Initiated Cash in Transit
- **TRM_D**: Transaction Manager Deterministic
- **TRM_O**: Transaction Manager Optional
- **ACTUAL**: Actual Cash Flows
- **CMIDOC**: Cash Management from Remote System (IDocs)
- **FICA**: FI Contract Account
- **MEMO**: Memo Records

3.2.2 Cash Flow Analyzer App

The SAP Fiori Cash Flow Analyzer app was first released with SAP S/4HANA Cloud 1705 and SAP S/4HANA 1709. The Cash Flow Analyzer app is the successor to the Cash Position Details app. Designed and built on SAP's latest UI controls, the Cash Flow Analyzer app provides more powerful analysis features.

The Cash Flow Analyzer app offers four predelivered filter variants, as shown in Figure 3.15: the standard variant and three variants for specific types of cash and liquidity

analysis. The Cash Flow Analyzer app is designed for all three types of analysis in cash management. By selecting the corresponding filters and personalizing the report layout, the Cash Flow Analyzer app can analyze cash positions, liquidity forecast, and actual cash flows.

In this section, we'll focus on the cash position analysis. The other two reports variants, **Liquidity Forecast** and **Actual Cash Flow**, are closely related to liquidity management, and we'll cover them in Chapter 4. The new features we discuss in this section in the context of cash positions are applicable to all variants.

Manage Variants				
Name	Type	Default	Execute on Select	Author
Standard	Private	<input type="radio"/>	<input checked="" type="checkbox"/>	SAP
Actual Cash Flow	Shared	<input type="radio"/>	<input checked="" type="checkbox"/>	SAP
Cash Position	Shared	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	SAP
Liquidity Forecast	Shared	<input type="radio"/>	<input checked="" type="checkbox"/>	SAP

Figure 3.15 Cash Flow Analyzer App Default Variants

The Cash Flow Analyzer app provides two different views, the **Delta View** and the **Balance View**. You can toggle between the two views without having to redefine your selection parameters and display variant (the layout of your report). As their names suggest, the **Delta View** allows you to report on your cash position showing only the delta amounts, while the **Balance View** reports on the current aggregate balance on the reporting date and for the respective aggregation level defined by your layout.

In addition, you can decide to structure your report using one of the three types of pre-defined hierarchical structures. The **Bank Account Hierarchy** view shows information in a bank account hierarchical view, which you defined in BRM. The **Liquidity Item Hierarchy** view shows cash flow information structured according to the hierarchy of liquidity items. The **Cash Concentration Simulation** allows you to run your cash position as a simulated cash concentration run according to the **Cash Pool Name** and a selected **Display Currency for Cash Pool**. You can navigate back and forth between the main view (without hierarchical display) and any of the three hierarchical views without changing your selection filters.

Main View

When you open the Cash Flow Analyzer app, by default, you'll see the main view with the selection variant **Standard**, which you can change to **Cash Position** (Figure 3.16).

Figure 3.16 Cash Flow Analyzer App Main View

You'll notice the four filter criteria that come predefined with the SAP-delivered selection variant **Cash Position**. The **Time Period** setting is defaulted to the next seven days (**D7**), the **Date** (reporting date, can be **Value Date** or **Posting Date**, depending on what you selected in another filter **Date Indicator**) is set to the current system date, **Reconciliation Status** is set to exclude any intraday bank statement flows, and **Certainty Levels** are preselected as described previously in Section 3.2.1. The certainty levels selected here are the same ones the Cash Position (Today) app uses by default. You can make changes to the default selection and layout of the report and save your selection and display variants. When you click on any amount, you're presented with the navigation options to the detailed reporting in the Check Cash Flow Items app, to move cash using the Make Bank Transfers app (Section 3.3.1), or to move cash by creating treasury deals when you navigate to the Manage Memo Records app to create cash trade requests (Section 3.3.7). In the following list, we highlight some of the features provided by the Cash Flow Analyzer app:

■ **Time Period**

This filter allows you to choose, in a flexible and user-friendly way, the time scale for which the report should display the cash flow. By default, the filter is set to **D7**, which means for the next 7 days (Figure 3.16). You can change this setting to any sequence of number of day (D), weeks (W), months (M), quarters (Q), and years (Y) by simply adding the five parameters together. For example, enter "D14" for the next 14 days or "D3+W2+M1" if you want to check the cash position for the next 3 days, followed by the next 2 weeks, and then 1 month in the future (Figure 3.17).

Figure 3.17 Cash Flow Analyzer App: Time Period

The only limitation is that you can only display up to 32 columns with key figures.

■ **Display Currency**

This, strictly speaking, isn't a filter, but rather a report parameter you can set. This field is empty by default, and the report displays key figures in the bank account currency or transaction currency (depending on the **User Settings**). If you enter a **Display Currency**, the report will show additional columns with the amount in the display currency (Figure 3.18).

Figure 3.18 Cash Flow Analyzer App: Display Currency

The amount in the display currency is for reporting purpose only. Therefore, the report doesn't provide a hyperlink and offers no navigation to the line item level. You must also define an **Exchange Rate Type** using another report parameter disguised as a filter.

■ Overdue

By default, overdue cash flows in all planning levels are shown in the report, and all of them are accumulated to the first day's cash flows so that overdue cash flows can impact future balances. This filter can be used to restrict the list of planning levels for which overdue cash flows should be reported and consequently impact future balances. As a result, you can explicitly exclude or fine-tune, based on planning levels, the way overdue items impact your cash position. The selection criteria have no influence on cash flows that aren't yet overdue.

■ Period Ending

This filter/report attribute works together with **Time Period**. The two options you can choose from are **By Interval** and **By Calendar**. By default, this field is empty and means **By Interval**. For example, if the current day is 2020-06-21, and you enter "M1" (one month) in the **Time Period** field, the report shows one column with label **June, 2020**, while the data included in this column is from the date range 2020-06-21 to 2020-07-20, which is a 30-day interval, that is, 1 month (M1). If you change the filter value to **By Calendar**, the report shows the same label, **June, 2020**, but the data is from the date range 2020-06-21 to 2020-06-30, which is from the current date to the end of the current month, that is, June in 2020. All following periods will be for the complete calendar periods, according to the **Time Period** you selected.

■ Actual Date

This filter means the report will only show actual cash flows before a selected **Actual Date**. This filter can help you set up a report that includes both actual and forecasted cash flows. For example, you can set the **Time Period** to "M12"; the **Value Date** to the beginning of the year, for example "2020-01-01"; and the **Actual Date** to the current date, that is, "2020-06-22" in the example in Figure 3.19. You'll get a report that shows 12 months of cash flows starting at the beginning of the year. You'll get only actual cash flows before *today* but both actual and forecasted cash flows after *today*. Thus, you've created a report that shows the actual cash flow up to your **Actual Date** and shows forecasted balances for future periods.

■ Date Indicator

As of SAP S/4HANA 1909, the new filter **Date Indicator** was introduced, which allows you to analyze the cash based on **Value Date** or **Posting Date** (by default, it's **Value Date**). When selecting **Posting Date** in **Date Indicator**, the date range information defined in filter **Date** is recognized as posting date when selecting data.

Flow Direction	Planning Level	Overdue	January, 2020	February, 2020	March, 2020	April, 2020	May, 2020	June
> Currency: AED		469.830,76 AED	469.830,76 AED	469.830,76 AED	469.830,76 AED	469.830,76 AED	469.830,76 AED	469.830,76 AED
> Currency: AUD		-2.017.736,78 AUD	-2.017.736,78 AUD	-2.017.736,78 AUD	-2.017.736,78 AUD	-2.017.736,78 AUD	-2.017.736,78 AUD	-2.017.736,78 AUD
> Currency: AWG		-100.000,00 AWG	-100.000,00 AWG	-100.000,00 AWG	-100.000,00 AWG	-100.000,00 AWG	-100.000,00 AWG	-100.000,00 AWG
> Currency: BRL		19.673.521,34 BRL	19.673.521,34 BRL	19.673.521,34 BRL	19.673.521,34 BRL	19.673.521,34 BRL	19.673.521,34 BRL	19.673.521,34 BRL
> Currency: CAD		-165.329.607,04 CAD	-165.329.607,04 CAD	-165.329.607,04 CAD	-165.329.607,04 CAD	-165.329.607,04 CAD	-165.329.607,04 CAD	-165.329.607,04 CAD
> Currency: CHF		-596.669,46 CHF	-596.669,46 CHF	-596.669,46 CHF	-596.669,46 CHF	-596.669,46 CHF	-596.669,46 CHF	-596.669,46 CHF
> Currency: CNY		10.202.486,02 CNY	10.202.486,02 CNY	10.202.486,02 CNY	10.202.486,02 CNY	10.202.486,02 CNY	10.202.486,02 CNY	10.202.486,02 CNY
> Currency: CZK		-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK
> Currency: DKK		-13.000,00 DKK	-13.000,00 DKK	-13.000,00 DKK	-13.000,00 DKK	-13.000,00 DKK	-13.000,00 DKK	-13.000,00 DKK
> Currency: EUR		-2.000.567.845.291.834...	-2.000.567.845.291.834...	-2.000.567.845.291.834...	-2.000.567.845.291.834...	-2.000.567.845.291.834...	-2.000.567.845.291.834...	-2.000.567.845.291.834...
> Currency: GBP		110.442.014,07 GBP	110.442.014,07 GBP	110.442.014,07 GBP	110.442.014,07 GBP	110.442.014,07 GBP	110.442.014,07 GBP	110.442.014,07 GBP

Figure 3.19 Cash Flow Analyzer App: Actual Date

Bank Account Hierarchy View

From the main view, you can open the **Bank Account Hierarchy** view, the **Liquidity Item Hierarchy** view, and the **Cash Concentration Simulation** view by clicking on **Display Hierarchy**. The popup window shown in Figure 3.20 opens.

Select Hierarchy

Bank Account Hierarchy
Bank Account Hierarchy ID:
000000000001

Liquidity Item Hierarchy
Liquidity Item Hierarchy ID:
[Empty field]
Display Currency for Liquidity Item Hierarchy:
EUR

Cash Concentration Simulation
Cash Pool Name:
[Empty field]
Display Currency for Cash Pool:
[Empty field]

OK Cancel

Figure 3.20 Cash Flow Analyzer App: Display Hierarchy

When you click the **Display Hierarchy** button for the first time, you'll need to select a **Bank Account Hierarchy ID**. The system will save the information as part of your personalization and use the selected bank account group ID by default.

After selecting the hierarchy ID and clicking **OK**, the system will open the **Bank Account Group** view (Figure 3.21).

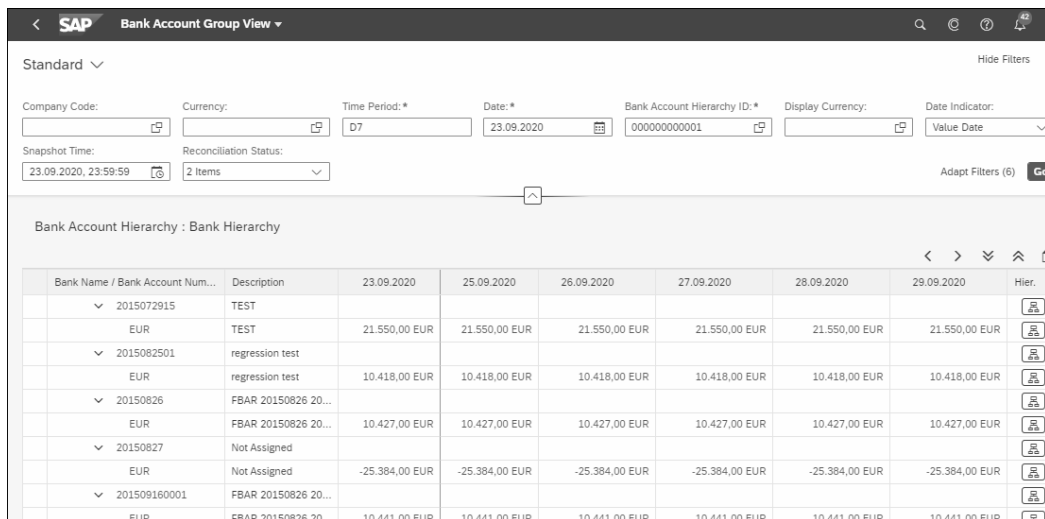


Figure 3.21 Cash Flow Analyzer App: Bank Account Hierarchy View

Bank Account Hierarchies versus Bank Account Groups

Bank account group is the name used in previous releases before the Manage Bank Account Hierarchies app was introduced. However, it's not completely replaced in all places by bank account hierarchy as the name is already widely used and accepted. More strictly speaking, bank account hierarchy is only for the hierarchies defined in the Manage Bank Account Hierarchies app, and it's mainly used for freestyle bank account groups, while the term bank account group also includes cash pools and bank hierarchies.

By default, the view shows the forecasted closing balance for each bank account in bank account currency. You can set your own filters, for example, **Actual Date** and **Certainty Level**, to display different sets of data.

Because you can have bank accounts in different currencies under the same node, by default, the report doesn't calculate the aggregate total amount for the parent node. However, if you define a **Display Currency**, the report will show additional columns for the amount in the **Display Currency** and includes the totals under the parent nodes (Figure 3.22).

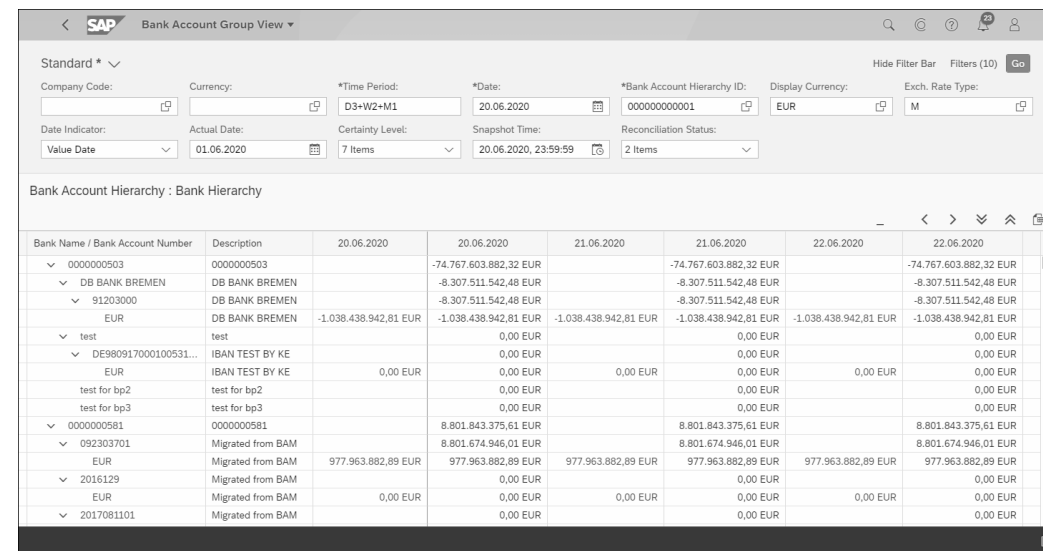


Figure 3.22 Cash Flow Analyzer App: Bank Account Hierarchy View with Display Currency

Liquidity Item Hierarchy View

You can toggle between the **Bank Account Hierarchy** view and the **Liquidity Item Hierarchy** view by clicking on the icons in the last column of the report.

Alternatively, you can navigate from the main view to the **Liquidity Item Hierarchy** view using the **Display Hierarchy** button (refer to Figure 3.20). If you select a **Liquidity Item Hierarchy ID**, you must also enter a **Display Currency**, as shown in Figure 3.23.

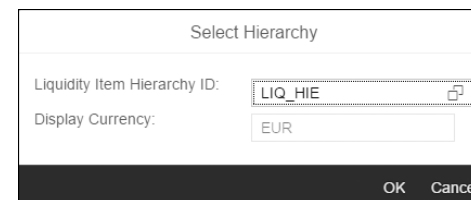


Figure 3.23 Cash Flow Analyzer App: Bank Account Group View Navigation to Liquidity Item Hierarchy View

When you navigate from the **Bank Account Hierarchy** view, the **Liquidity Item Hierarchy** view will show cash flows in the report structure **Opening Balance**, then the **Cash Flows** for the liquidity items in the hierarchy, followed by the cash flows **Not Assigned** to a liquidity item, and the **Closing Balance** at the end (Figure 3.24).

When you navigate from the main view to the **Liquidity Item Hierarchy** view, the report neither shows an **Opening Balance** nor a **Closing Balance**, as the **Liquidity Item Hierarchy** view is for analysis of cash movements during a specified period. The reason why balance information is available when navigating from the **Bank Account Hierarchy**

view is to keep information consistently shown in the source and target views, and the **Bank Account Hierarchy** view always shows the forecasted closing balance.

Liquidity Item	06-22-2017	06-23-2017	06-26-2017	06-27-2017	06-28-2017	06-29-2017	06-30-2017
Opening Balance	1,001,887,638,841.22 E...	1,001,887,574,057.58 E...	1,001,886,895,342.20 E...	1,001,970,944,457.55 E...	1,001,970,713,941.32 E...	1,001,970,766,502.78 E...	1,001,970,734,424.42 E...
LIQ_HIE	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR
> Cash flow from operating	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR
> Cash flow from investing	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR
> Cash flow from financing	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR
> Not Assigned	-64,783.64 EUR	-678,715.38 EUR	84,049,115.35 EUR	-230,516.24 EUR	52,561.47 EUR	-32,078.36 EUR	4,322,671.59 EUR
Closing Balance	1,001,887,574,057.58 E...	1,001,886,895,342.20 E...	1,001,970,944,457.55 E...	1,001,970,713,941.32 E...	1,001,970,766,502.78 E...	1,001,970,734,424.42 E...	1,001,975,057,096.02 E...

Figure 3.24 Cash Flow Analyzer App: Liquidity Item Hierarchy View

The **Not Assigned** node contains information about cash flows with liquidity items that aren't defined in the specified liquidity item hierarchy and cash flows without liquidity items.

Cash Concentration Simulation View

This view was added as of SAP S/4HANA 1909. Long requested by customers, the view allows you as the cash manager to get a preview of the effects of a cash concentration run before you run it. You can toggle directly between the three different views or access the **Cash Concentration Simulation** view from the main view as described in the previous sections. In the popup window that opens when you click on **Display Hierarchy**, you must enter the **Cash Pool Name** and the **Display Currency for Cash Pool** (Figure 3.25).

Select Hierarchy

Bank Account Hierarchy
Bank Account Hierarchy ID:

Liquidity Item Hierarchy
Liquidity Item Hierarchy ID:

Display Currency for Liquidity Item Hierarchy:

Cash Concentration Simulation
Cash Pool Name:

Display Currency for Cash Pool:

OK Cancel

Figure 3.25 Select Cash Concentration Simulation View

In the **Cash Concentration Simulation** view, you can change the cash pool you're reporting and the display currency as well using the filter settings of the view (Figure 3.26). The layout of the view is fixed; that is, even though you can move the 11 provided columns from one position into another and resize them, you can't save your own layout.

Cash Concentration Simulation

Standard

Value Date: 22.09.2020
Cash Pool Name: MAIN POOL
Display Currency: EUR
Exchange Rate Type: M

Cash Pool Name: Dirk & Lawrence' Pool

Bank Name / Bank Acco...	Description	Cash Pool Name	Bank ...	Balance Before Simul...	Balance After Simulation	Transfer Amount	Balanc
21324354	Lawrence and Dirk'	Dirk & Lawrence' ...	USD	1,000,00 USD	91,87 USD	-908,13 USD	
95512343	CashOperationTesti...		EUR	0,00 EUR	0,00 EUR	0,00 EUR	
9988998899	Migrated from BAM	DIRK & LAWREN...	EUR	-900,00 EUR	0,00 EUR	900,00 EUR	
95512342	CashOperationTesti...		EUR	-900,00 EUR	0,00 EUR	900,00 EUR	

Figure 3.26 Simulate Cash Concentration View: Leading Pool

The **Cash Concentration Simulation** view offers the following columns:

- **Bank Name / Bank Account Number**
- **Description** (of the bank account)
- **Cash Pool Name**
- **Bank Account Currency**
- **Balance Before Simulation** (in account currency and in display currency)
- **Balance After Simulation** (in account currency and in display currency)
- **Transfer Amount** (in transfer currency)
- **Max. Target Amount**
- **Min. Transfer Amount**

This view enables you to simulate the expected cash position after a cash concentration run on any level of your cash pool, even in a hierarchical cash pool where the header of one pool is a subaccount on another pool.

By using the cash pool name as a filter criteria, you can selectively report on only the subpool (Figure 3.27).

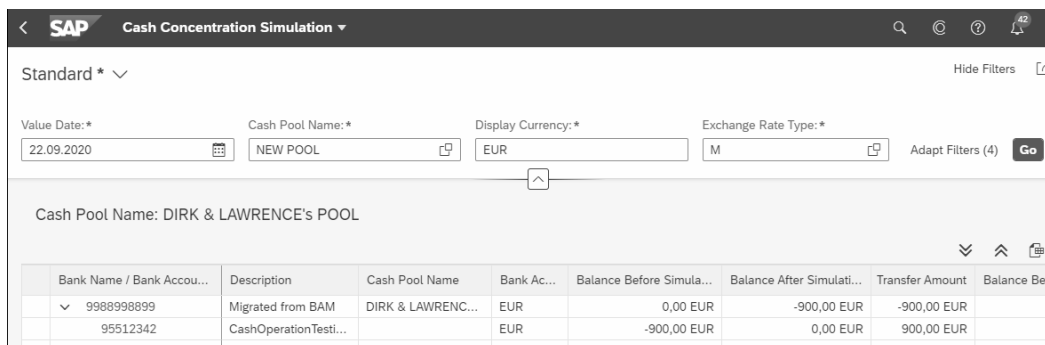


Figure 3.27 Simulate Cash Concentration View: Subpool

New List View for Cash Flow Items

Since SAP S/4HANA 2020, you no longer need to navigate to the Check Cash Flow Items app to understand the details; instead, the Cash Flow Analyzer app offers its own list view for cash flow items. When clicking the aggregated amount of cash flows, there is a new **Display Cash Flow Items** link (Figure 3.28). Note that the link is only available when you click the amount for cash movements, but not for balances.

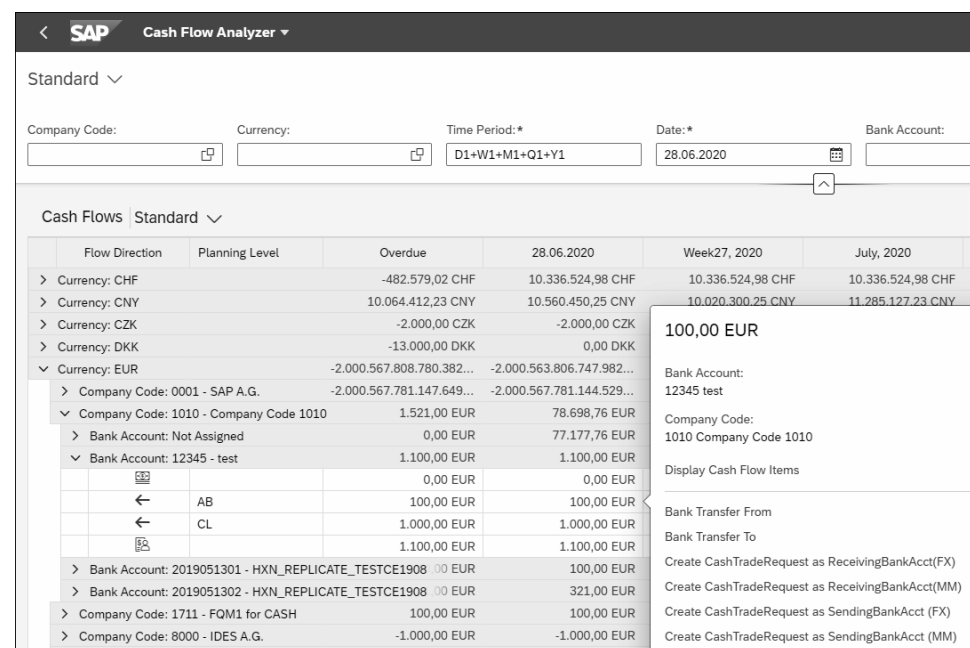


Figure 3.28 Cash Flow Analyzer App: Display Cash Flow Items

When clicking the **Display Cash Flow Items** link, the list view is displayed in the Cash Flow Analyzer app (Figure 3.29). In this view, you can see the additional filter information of the cell you navigate from in the header area and line item details in the report.

You can personalize the layout and save variants, and you can download the information to an Excel file. With the information in list view, you already have a good view of cash flows, and it's still possible to navigate to the Check Cash Flow Items app by clicking the arrow icon at the end of line if you want to understand more or drill down to the original business transactions.

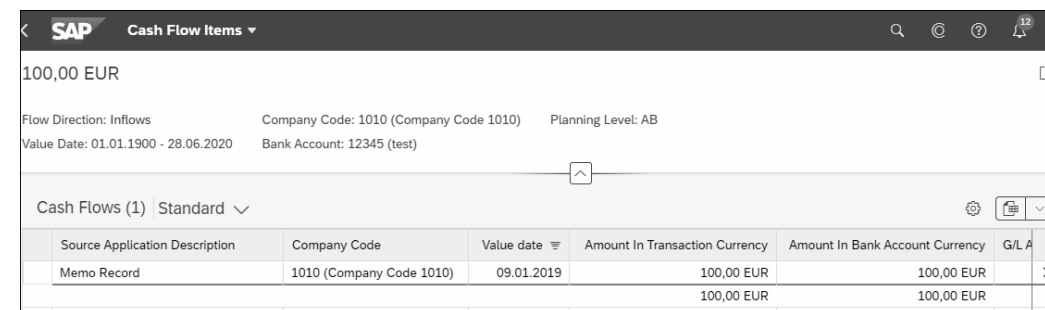


Figure 3.29 Cash Flow Analyzer App: Cash Flow Items View

User Settings

You can leverage the options in **User Settings** to personalize your experience of the Cash Flow Analyzer app (Figure 3.30).

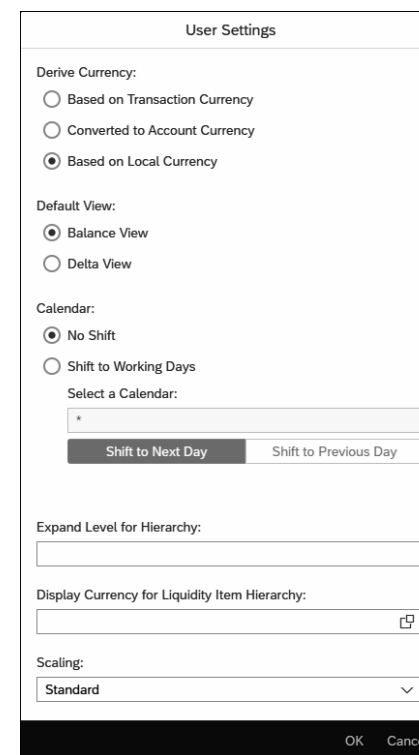


Figure 3.30 Cash Flow Analyzer App: User Settings

The following options are available to influence your UX:

- Derive Currency**
 In the Cash Flow Analyzer app's main view, you can choose **Based on Transaction Currency**, **Converted to Account Currency**, or **Based on Local Currency** (this last option was just added as of SAP S/4HANA 1909).
- Default View**
 In the main view, you can define which view is your default view when you open the app, the **Balance View** or the **Delta View**.
- Calendar**
 You can choose to shift cash flows from nonworking days to the next or the previous working day according to a specified calendar. Alternatively, you can set the parameter to **No Shift**.
- Expand Level for Hierarchy**
 If, by default, you want any of the hierarchy views to open expanded to a specific level, you can define the hierarchy level by entering a number in this field.
- Display Currency for Liquidity Item Hierarchy**
 You can define the default currency used in the **Liquidity Item Hierarchy** view.
- Scaling**
 By default, this parameter is set to **Standard**, and the report will display the amount as actual numbers. Alternatively, you can select **Short** or **Long**; if you select **Long**, the display format of the amount is changed to the long format shown in Figure 3.31.

Flow Direction	Planning Level	Overdue	Overdue	20.06.2020	20.06.2020	21.06.2020	21.06.2020	22.06.2020
> Currency: AUD		-2,1M AUD	-3,1M EUR	-2,1M AUD	-3,1M EUR	-2,1M AUD	-3,1M EUR	-2,1M AUD
> Currency: CAD		-17M CAD	-12M EUR	-17M CAD	-12M EUR	-17M CAD	-12M EUR	-17M CAD
> Currency: CHF		-596K CHF	-459K EUR	-4,3M CHF	-3,3M EUR	-4,3M CHF	-3,3M EUR	-4,3M CHF
> Currency: CNY		761K CNY	51K EUR	-834M CNY	-56M EUR	-834M CNY	-56M EUR	-834M CNY
> Currency: CZK		-2K CZK	-56,79 EUR	-2K CZK	-56,79 EUR	-2K CZK	-56,79 EUR	-2K CZK
> Currency: EUR		-8,8B EUR	-8,8B EUR	-11B EUR	-11B EUR	-11B EUR	-11B EUR	-11B EUR
> Currency: GBP		-11M GBP	-13M EUR	-11M GBP	-13M EUR	-11M GBP	-13M EUR	-11M GBP
> Currency: JPY		-447M JPY	-3,8M EUR	-447M JPY	-3,8M EUR	-447M JPY	-3,8M EUR	-447M JPY
> Currency: KRW		0 KRW	0,00 EUR	0 KRW	0,00 EUR	0 KRW	0,00 EUR	0 KRW
> Currency: MXN		1K MXN	108,93 EUR	1K MXN	108,93 EUR	1K MXN	108,93 EUR	1K MXN
> Currency: NZD		100,00 NZD	46,73 EUR	100,00 NZD	46,73 EUR	100,00 NZD	46,73 EUR	100,00 NZD
> Currency: PLN		0,00 PLN	0,00 EUR	1,3K PLN	320,02 EUR	1,3K PLN	320,02 EUR	1,3K PLN
> Currency: RON		176K RON	48K EUR	-375M RON	-103M EUR	-375M RON	-103M EUR	-375M RON
> Currency: RUB		-10K RUB	-371,91 EUR	0,00 RUB	0,00 EUR	0,00 RUB	0,00 EUR	0,00 RUB
			-1,5B EUR	0,00 *	-3,9B EUR	0,00 *	-3,9B EUR	0,00 *

Figure 3.31 Cash Flow Analyzer App: Scaling with Long Format

3.2.3 Check Cash Flow Items App

The Check Cash Flow Items app was formerly known as the Analyze Payment Details app. This app has seen certain functional changes over time but has been available since SAP S/4HANA Cloud 1708 and SAP S/4HANA 1709.

The Check Cash Flow Items app is the transactional line item report for all cash management reports. You can navigate to the app from the SAP Smart Business Liquidity Forecast app and the Cash Flow Analyzer app. You also have various options to navigate to the app from the launchpad by clicking on the app's tile.

Depending on your version, you can use the generic navigation option in the apps, such as the **All My Apps** menu in the app header of the Cash Position (Today) app. Usually, you'll use the Check Cash Flow Items app to check the underlying line items of a position in your Cash Flow Analyzer app or the SAP Smart Business Liquidity Forecast app. The example shown in Figure 3.32 illustrates the navigation from the Cash Flow Analyzer app.

Flow Direction	Planning Level	Overdue	27.09.2020	28.09.2020	29.09.2020	30
> Currency: AUD		-2.017.936,23 AUD	-2.014.364,80 AUD	-2.014.364,80 AUD	-2.014.364,80 AUD	-2
> Currency: CAD		-17.286.355,60 CAD	-17.297.863,60 CAD	-17.297.863,60 CAD	-17.297.863,60 CAD	-17
> Currency: CHF		-4.790.725,45 CHF	-8.515.132,51 CHF	-8.515.132,51 CHF	-8.515.132,51 CHF	-8
> Currency: CNY		606.218.027,70 CNY	-232.224.803,33 CNY	-232.224.803,33 CNY	-232.224.803,33 CNY	-232
> Currency: CZK		-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK	-2.000,00 CZK	-2
> Currency: DKK		-76.912,40 DKK	-76.912,40 DKK	-76.912,40 DKK	-76.912,40 DKK	-2
> Currency: EUR		770.644.711.847.597.7...	770.644.711.845.739.4...	770.644.711.845.741.4...	770.644.711.845.743.3...	770.644.7
> Company Code: 0001 - SAP A.G.		-11.058.027.851,39 EUR	-11.097.475.542,65 EUR	-11.095.528.474,57 EUR	-11.093.581.494,99 EUR	-11.091
> Bank Account: Not Assigned		12.519.913.539,03 EUR	12.480.974.400,31 EUR	12.480.975.642,61 EUR	12.480.976.884,91 EUR	12.480
> Bank Account: 1 - ERP FIN		1.880,00 EUR	-1.100,00 EUR	-1.100,00 EUR	-1.100,00 EUR	-2
> Bank Account: 101 - TEST		-2.026,67 EUR	-2.026,67 EUR			-2
> Bank Account: 102 - TEST 102		65,67 EUR	65,67 EUR			-2
> Bank Account: 103 - TEST 103		-101,00 EUR	-101,00 EUR			-2
> Bank Account: 112233 - DST EUR Account		2.840.954,88 EUR	2.843.344,88 EUR			-2
		0,00 EUR	2.390,00 EUR			-2
		-0,59 EUR	-0,59 EUR			-2
	DB	3.122.689,65 EUR	3.122.689,65 EUR			-2
	PR	-281.860,87 EUR	-281.860,87 EUR			-2
	TB	-447.331,00 EUR	-447.331,00 EUR			-2
	TB	447.457,69 EUR	447.457,69 EUR			-2
		2.840.954,88 EUR	2.843.344,88 EUR			-2
> Bank Account: 123321 - DB-EUR (TR Account)		782.415,87 EUR	1.010.094,44 EUR			-1
> Bank Account: 12345 - FIN : 99991002 -> ACC 12345		0,00 EUR	0,00 EUR			-1
> Bank Account: 123456 - Yan Created for Test 3NA		-103.169,52 EUR	-103.169,52 EUR			-1
> Bank Account: 123456 - Yan Created for Test 3NA		-103.169,52 EUR	-103.169,52 EUR			-1

Figure 3.32 Navigate to Check Cash Flow Item App from Another App

Clicking on any amount in the report ❶, the cash flow details box opens with the option to navigate directly to the Check Cash Flow Items app ❷. In this navigation option, the app will open with the filters preset to return the underlying line items of the amount you clicked on. In this example, the Check Cash Flow Items app opens, filtering for all items with a value date before the report's value date, the currency ❸, the bank account ❹ you're analyzing, and the company code ❺.

When the Check Cash Flow Items app opens (Figure 3.33), the sum of all cash flow items ❶ displayed in the report will match the amount you clicked on in the Cash Flow Analyzer app. You can see the filter set automatically for the relevant date range ❷, currency ❸, bank account ❹, and company code ❺. You can also adjust the planning level ❻. This navigation works the same way when you navigate from the Cash Flow Analyzer app or the SAP Smart Business Liquidity Forecast app.

Note the selection of certainty levels shown in Figure 3.33. Certainty levels used in the filter match those used by the app from which you navigated to the Check Cash Flow Items app.

Source ...	Source Application Description	Liquidity Item Desc.	Company Code	Company Name	Transaction Amount	Trans. Currency	Amount in Acct Crcy	Bank Acct Cu
	Payment Request	Bank Balance	0001	SAP A.G.	-281.860,87 EUR	EUR	-281.860,87 EUR	EUR
					-281.860,87 EUR	EUR	-281.860,87 EUR	EUR

Figure 3.33 Check Cash Flow Items App

The Check Cash Flow Items app integrates all source applications available in your edition and version of cash management in SAP S/4HANA. The complete list of source applications is as follows:

- Payment request
- Payment order
- Promise to pay
- Accounts payable
- Accounts receivable
- Confirmed payment
- Bank statement
- Memo record
- SAP Treasury and Risk Management
- SAP Loans Management

- Manual entry of cash balance
- Cash position from distributed cash
- Liquidity forecast from distributed cash
- Contract accounts receivable and payable
- Sales and distribution
- Materials management
- Initial balance upload
- Aggregation flow

The list view (Figure 3.33) shows generic information about the cash flow items, such as the amount, currency, date, source application, liquidity item, and other account assignments. As in other apps, you can define the columns or fields that are shown using the display settings, and you can save your display variants for future use.

You can click on the icon in the last column in the list view of the report to navigate to the detailed line item view (Figure 3.34). The app adapts the details screen that opens to the source application of the cash flow item and displays the relevant information.

Vendor	Customer	Liquidity Item	Transaction Amount	Cost Center	Profit Center	Segment	Business Partner
	SDTEST01 (Cecil Systems SE)		196,00 EUR		TH_PF_01		SDTEST01
	SDTEST01 (Cecil Systems SE)		13,72 EUR		TH_PF_01		SDTEST01

Figure 3.34 Cash Flow Items App: Details

The detailed view shows generic information and source application-specific information. For each source application, a specific section is populated with data and displayed. From the specific source application details, you can navigate to the original document in the source application by clicking on the reference ID from the source

application, for example, the **Document Number** for accounting documents or the **Contract Number** for cash flow items from SAP Loans Management.

For the sake of brevity, we won't go through the entire list of source applications and related sections in the UI. However, in Table 3.1, we list some of the available source applications and their navigation targets to access line item detail and/or the original document.

Source Application/Sector on Screen	Navigation
Business partner information	SAP Fiori app: Manage Business Partner
Accounting document information	SAP Fiori app: Manage Journal Entries
Bank statement	SAP Fiori app: Manage Bank Statement
Bank account information	SAP Fiori app: Manage Bank Accounts
Payment request	Display Payment Request (Transaction F8BT)
Promise to pay	Promise to Pay (Transaction FDM_COLL01)
Materials management information	SAP Fiori apps: Manage Purchase Scheduling Agreements, Purchase Requisition, Purchase Order
Sales and distribution information	SAP Fiori apps: Sales Scheduling Agreement, Sales Order
Consumer and mortgage loans flow information	Loan Contract (Transaction FMVS)
SAP Treasury and Risk Management	Financial Transaction (Transaction FTR_EDIT)
Securities position	Security Account Flow (Transaction TPM40)
Memo records	SAP Fiori app: Manage Memo Records

Table 3.1 Navigation Targets in the Check Cash Flow Items App

In the detailed view, the account assignment information is shown in a separate table at the bottom of the screen. The table shows all the line items related to the same cash flow item, for example, a single invoice with multiple expense line items or a single payment for multiple invoices. The account assignment table will show all line items related to a single cash flow item.

As of SAP S/4HANA 1610 SPS 01, you have the option of manually adjusting cash flow items. The functionality is controlled through a specific authorization object.

Adjust Cash Flows for Accounting in One Exposure from Operations

As of cash management in SAP S/4HANA 1610 SPS 01, you can edit line items in One Exposure from Operations. The functionality is controlled by the authorization object FQM_FLOW (Field: ACTVT, value: Change).

If your user is authorized to edit a cash flow item, you'll see the option in the detailed view of the Check Cash Flow Items app. You'll have the following options and considerations:

- You can change the account assignment information but not the amount or currency.
- You can divide one line into multiple lines, but the total amount remains the same as the original.
- You can merge multiple lines into one, but the total amount remains the same as the original.
- Only flows from accounting can be adjusted (the same as Transaction FLQAM, but with more attributes to adjust).
- Rebuilding cash flows in One Exposure from Operations from accounting documents will overwrite your manual adjustments.
- You can make changes to the line item, assign new liquidity items, split the amount (as long as the total amount is still the same as the original), and make other account assignments.

When you save your changes, One Exposure from Operations will be updated with the new values. However, if you decide to run the One Exposure from Operations update, you'll overwrite your manual changes.

You also have option of adjusting the details screen to better match your own requirements. To do so, you can use the following business add-ins (BAdIs) to adjust the specific sections for each source application:

- BAdI: Bank Details
- BAdI: Bank Communication Management
- BAdI: Memo Records
- BAdI: Accounting Documents
- BAdI: Payment Items
- BAdI: Treasury Management Details

These BAdIs will be discussed in more detail in Chapter 6, Section 6.2.3.

3.2.4 Display Cash Position App (Transaction FF7AN)

Transaction FF7AN is the new transaction code and SAP Fiori theme app called the Display Cash Position app. The UI and layout, as well as the drilldown and navigation functions, are the same as in the old Transaction FF7A (Figure 3.35). However, the backend data is completely different. The Display Cash Position app consumes One Exposure from Operations data from table FQM_FLOW for all source applications except for Agency Business, which is still sourced from its original FD* tables. Remember that before SAP S/4HANA 1809, memo records were still read from the memo records table FDES.

Curr.	Long Text	04.05.17	05.05.17	08.05.17	09.05.17	10.05.17	11.05.17	12.05.17	15.05.17	16.05.17	17.05.17	18.05.17	19.05.17	22.05.17	Later
CAD	Canadian Doll	54	54	54	54	54	54	54	54	54	54	54	54	54	54
CHF	Swiss Franc	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CNY	Chinese Renmi	979-	979-	979-	979-	979-	979-	979-	979-	979-	979-	979-	979-	979-	979-
EUR	European Euro	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.417-	349.418-
GBP	British Pound	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119	10.119
JPY	Japanese Yen														
MXN	Mexican Pesos	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-
USD	United States	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.872	759.864

Figure 3.35 Display Cash Position: Transaction FF7AN

The following is a quick overview of the release-related availability of the cash position and liquidity forecast reports in Transactions FF7AN and FF7BN:

- SAP Note 2336069: Introduction of FF7AN and FF7BN in SAP Cash Management for Simple Finance 1503
- SAP Note 2336112: Introduction of FF7AN and FF7BN in SAP Cash Management for S/4HANA Finance 1605
- SAP Note 2378072: Support for Cash Position and Liquidity Forecast Reports in SAP S/4HANA 1511 (this note is “Pilot Released,” meaning you’ll need to make a request with SAP to use the note)

In SAP S/4HANA 1610 and 1709, you don’t need to apply any SAP Note; the Display Cash Position and Display Liquidity Forecast apps are offered by default. In SAP S/4HANA Cloud, they are also offered by default.

Unless you’re a basic cash management user, the Display Cash Position app isn’t available in your SAP Fiori launchpad by default. To include this app in your launchpad, you’ll have to add **Cash Management – Basic Edition** from the catalog (Figure 3.36).

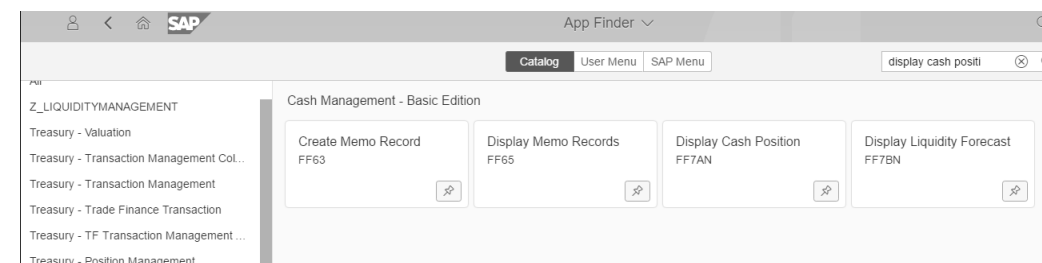


Figure 3.36 Adding the Display Cash Position App to Your App Catalog

Since SAP S/4HANA 1809, the Display Cash Position app has been removed from SAP Fiori launchpad, and the Cash Flow Analyzer app is offered to customers with the basic cash management license, although it only supports limited features.

3.2.5 Bank Account Balance App

The Bank Account Balance app was introduced with SAP S/4HANA 1909 in response to many requests from customers to have a report that allows you to display your available balances for bank accounts individually or grouped by certain dimensions (Figure 3.37). The **Available Balance** column includes not only the actual bank balances but also the available overdraft facilities. The app was built using the SAP Fiori overview list page design element, which includes the dynamic integration between the diagram display of the selected data and a table view that can optionally be dynamically adjusted according to a selected area in the diagram.

Bank Account Cur...	Company C...	Bank Account	Available Balance	Opening Balance In Bank Account ...	Overdue Inflow In Ba
EUR (European Eu...	F001 (SAP AG)	1111111111 (Credit Card...	38.011.728,51 EUR	14.122.392,62 EUR	
EUR (European Eu...	0001 (SAP A...	112233 (DST EUR Acco...	13.226.216,43 EUR	2.390,00 EUR	
EUR (European Eu...	0001 (SAP A...	29932993 (test reuse a...	10.850.807,31 EUR	85,00 EUR	
GBP (British Pound)	FQM1 (FQM...	66090800001 (RBS GBP)	8.571.428,57 EUR	6.000.000,00 GBP	

Figure 3.37 Bank Account Balance App

The app provides a number of filters, including the obvious ones such as company code, bank country, and so on, which don’t need to be explained here. The following filters do need to be explained a little further, however:

■ Value Date

This field is the value date of the report and the basis for the **Position in Days** calculation explained in the next list item. All overdue items are selected based on the value date. While it defaults to your current system date, you can set it to any other date as well.

■ Position in Days

This field determines the actual reporting date for your cash balances—let's call it the cash position date—and it's simply the number of days after the value date. That means you'll see the balances on your accounts displayed as of the calculated position date. The **Position in Days** defaults to 1, which means the balances are reported on the value date.

For example, the **Value Date** is June 4, 2020, and you enter "7" for the **Position in Days**. You can then see the **Available Balance** on your accounts for June 10, 2020.

■ Bank Account Balance Profile

This profile defines the cash flow planning levels that you want to consider in the calculation of bank account balances. You define the available profiles in the configuration settings for your system (in the **Assign Planning Levels to Profiles** configuration step in the IMG for SAP S/4HANA solutions or in your Manage Your Solution app for SAP S/4HANA Cloud versions; Section 3.6.3).

After you've defined the filters and run the report, the app displays the selected accounts and related balances in a diagram and a table at the bottom of the screen.

You can influence the diagram view using the standard SAP Fiori controls for this **Overview List Page** view. For example, you can use the **View By** button to select a grouping of the balances by **Bank Account**, **Bank**, **Bank Country**, or **Company Code**. Note that the app doesn't give you the aggregated view for the cash pool or bank account hierarchy.

You can also change the display parameters of the diagram and the entire overview list page view. For example, you can change the measure displayed from **Available Balance** to **Opening Balance**. You could also change the type of diagram you're using, for example, from a bar chart to a pie chart. You can also switch on or off the diagram and table part altogether and maximize either of the sections to get a better view. You can save the diagram and the table section settings separately as variants.

Now let's turn our attention to some of the key figures, or measures, as they're called:

■ Available Balance in Display Currency

This is the total amount of the net cash flows that are overdue before the value date, plus the opening balance on the value date, and the net cash flows from the value date to cash position date (**Position in Days**, as discussed previously) plus the amount of overdraft limits.

Available Balance Calculation

Calculating the available balance uses the following formula:

$$\text{Available balance} = \text{Opening balance} + \text{Overdue inflows} - \text{Overdue outflows} + \text{Cash inflows} - \text{Cash outflows} + \text{Overdraft limits}$$

The items in this formula are as follows:

- Overdue items before value date
- Cash flows until the cash position date
- Overdraft limits on the cash position date

■ Opening Balance in Bank Account Currency

This is the total amount of the opening balance, and it equals the closing balance on the previous day. The balance is calculated based on the definitions in the **Bank Account Balance Profile** discussed earlier.

■ Overdue Inflows and Overdue Outflows in Bank Account Currency

This is the total amount of cash inflows and outflows that are overdue before the value date.

■ Cash Inflows and Cash Outflows in Bank Account Currency

This is the total amount of cash inflows and outflows due between the value date (report filter) and the cash position date (see **Position in Days**, discussed earlier in this section).

Clicking on an amount in the table view takes you directly to the Check Cash Flow Items app. When you click on any account number, the default setup offers to navigate to the Manage Bank Accounts app and the Make Bank Transfers app. When you click on a currency, you're taken to a view that allows you to define the display order of the currency pairs or to the currency exchange rate maintenance.

3.2.6 Manage Liquidity Item Hierarchies App

This app is built based on the generic Manage Global Accounting Hierarchies app, like the Manage Bank Account Hierarchies app (refer to Chapter 2, Section 2.3.6). As of SAP S/4HANA 1909, you use this app to define your liquidity item hierarchies (Figure 3.38). In prior versions, you only had the option to use the native Web Dynpro app, which requires the activation of the Web Dynpro framework and related authorizations in the backend.

You can define as many liquidity item hierarchies as you need. Liquidity item hierarchies are used for reporting, for example, in the Cash Flow Analyzer app (refer to Section 3.2.2), and for the planning activities in SAP Analytics Cloud, which we'll discuss in detail in Chapter 4.

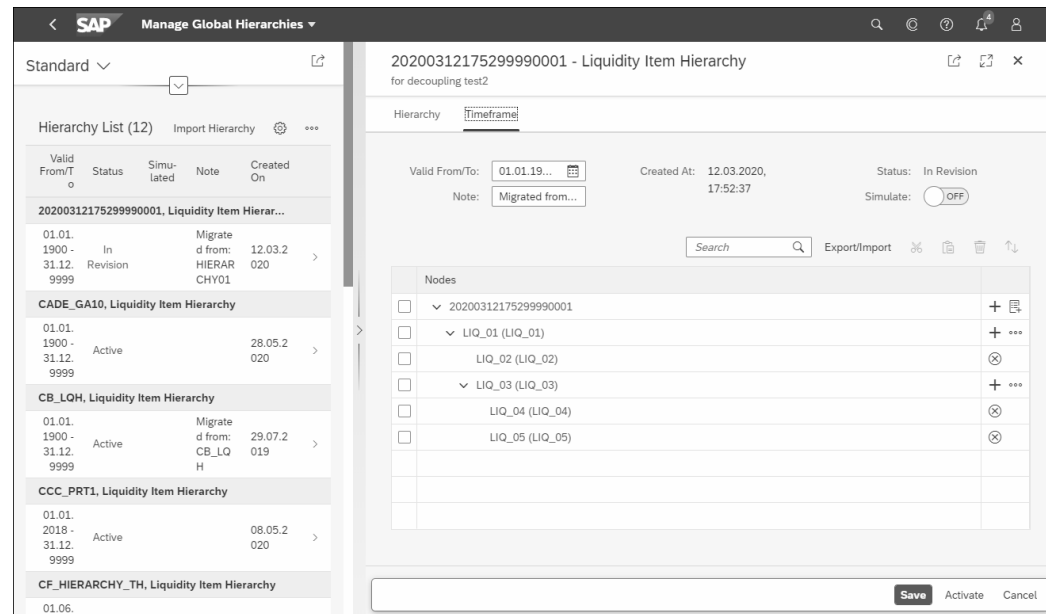


Figure 3.38 Manage Global Hierarchies App: Liquidity Item Hierarchy

3.2.7 Release Cash Flows App

The Release Cash Flows app (Figure 3.39) gives you an overview of all the cash flows from specific source systems and allows you to check and set their release status. You can filter by specific attributes such as **Planning Level**, **Planning Group**, **Certainty Level**, **Company Code**, and **Release Status**. Selected cash flows are available for your further review. Based on your requirements and your settings in configuration, you can then manually release these cash flows. The Cash Flow Analyzer and Check Cash Flow Items apps have been enhanced with a filter for **Release Status** so that you can now fine-tune your cash flow reporting to only include released cash flows.

The Release Cash Flows app was introduced with SAP S/4HANA 1809. The underlying idea of the release process is to prevent information sourced from other applications and sources or loaded manually into One Exposure from Operations to automatically update cash reports. It's intended to give the user an option to review imported data before using it in the cash flow analysis and cash reporting.

For example, after a memo record was created by another user in one of your subsidiaries, you can see this memo record in the unreleased status in your cash flows. You can review the key information of the unreleased cash flow and then release the cash flow if all is correct. Now the new cash flow is displayed in the Cash Flow Analyzer app and the Check Cash Flow Items app as a released cash flow and is part of the cash position and forecast.

Company Code	Bank Account	Value Date	Amount in Bank Account Currency	Amount in Display Currency
Company Code: 0001 - SAP A.G.				
> Bank Account: 0531669922 - multi hb by ke	0531669922 (multi hb by ke)		110,00 EUR	13.530,00 USD
> Bank Account: 1 - ERP FIN	1 (ERP FIN)		237,96 EUR	29.269,08 USD
> Bank Account: 100002 - DBHH - EUR12	100002 (DBHH - EUR12)		9,00 EUR	1.107,00 USD
> Bank Account: 101 - TEST	101 (TEST)		20,00 EUR	2.460,00 USD
> Bank Account: 1128588 - FIN - Bank Account	1128588 (FIN - Bank Account)		200,00 EUR	24.600,00 USD
> Bank Account: 12345 - FIN : 99991002 -> ACC 12345	12345 (FIN : 99991002 -> ACC 12345)		5,00 EUR	615,00 USD
> Bank Account: 123456 - FIN: 99991002 - 123456	123456 (FIN: 99991002 - 123456)		10,00 EUR	1.230,00 USD
> Bank Account: 197889 - Nelly Test Reconcile - DO NOT CHANGE!	197889 (Nelly Test Reconcile - DO NOT ...)		200,00 EUR	24.600,00 USD
> Bank Account: 548334 - Current account (Bank 1)	548334 (Current account (Bank 1))		3.000.400,00 EUR	369.049.200,00 USD
> Bank Account: 548488668 - Test DE acc	548488668 (Test DE acc)		12,00 EUR	1.476,00 USD
> Bank Account: 98765432188 - Google Workshop for Lawrence	98765432188 (Google Workshop for La...)		12,00 EUR	1.476,00 USD
> Bank Account: BR01001 - LEO Acc	BR01001 (LEO Acc)		22,20 BRL	1.476,00 USD
0001 (SAP A.G.)			Show Details	369.151.039,08 USD
> Company Code: FQM1 - FQM1 for CASH			Show Details	270.400.490,46 USD
			Show Details	639.551.529,54 USD

Figure 3.39 Release Cash Flows App

To enable the manual release process for cash flows, you have to define the release rules for the logical system, company code, and planning level assignment (see the configuration settings in Section 3.6.7).

For the cash flows for which the manual release rules have been defined, the following release statuses are available:

- **Unreleased**
The cash flow has been saved but not released. By default, the cash flow isn't displayed in the Cash Flow Analyzer or in the Check Cash Flow Items apps. However, you can display the cash flow by using the **Unreleased Cash Flow Included** filter option.
- **Released**
The cash flow is released and therefore is part of the reported data in the Cash Flow Analyzer app.

3.3 Moving Cash

In this section, we'll show you how to execute your daily tasks using the SAP Fiori apps provided by cash management in SAP S/4HANA. We'll present these activities outside the context of your daily cash positioning procedures, as activities in their own right.

3.3.1 Make Bank Transfers App

Making bank transfers is one of the essential activities of your daily cash operations. To make the correct transfers at the right time, you'll need up-to-date cash position information, and bank transfer activities must be completely integrated with cash position information. The Make Bank Transfers app (Figure 3.40) is tightly integrated with both the Cash Position (Today) app and the Cash Flow Analyzer app. The Make Bank Transfers app provides the forecasted day-end balance for each account, so you'll have the information available as you enter a bank transfer.

You can navigate to the bank transfers directly from the Cash Position (Today) and the Cash Flow Analyzer apps. Thus, as you analyze cash position information, you'll be able to switch over to bank transfers, enter a transfer, and immediately continue your analysis of your cash position, which has now already been updated with the bank transfer you just entered.

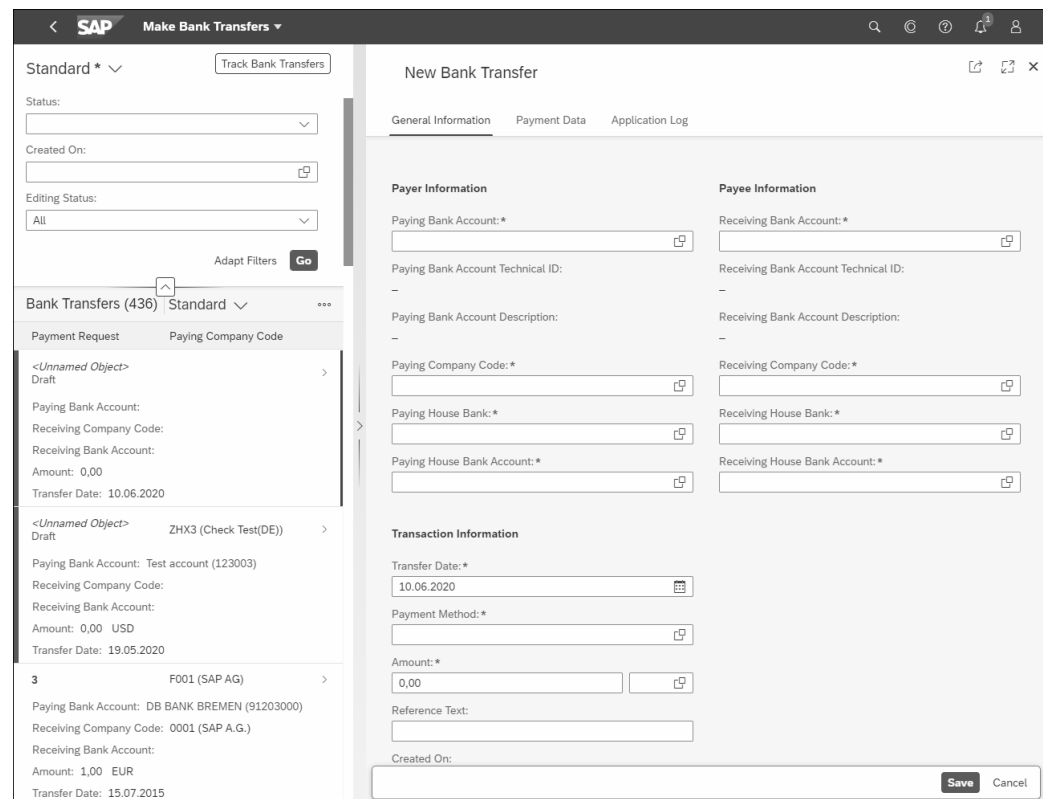


Figure 3.40 Make Bank Transfers App

The Make Bank Transfers app allows you to make manual bank-to-bank transfers, that is, transfers between your house bank accounts. When you open the Make Bank Transfers app, the default view appears based on the standard SAP Fiori smart template UI

controls list page and detail page. The list page shows all existing bank transfers in the system, processed ones, and those that are still being created, such as drafts. You can use the filters, such **Transfer Date**, **Paying Company Code or Account**, **Payment Method**, **Status**, and so on, or the fuzzy search field to define the list of transfers to be displayed.

From the list page, you have a few navigation options:

- **Track Bank Transfers**
Opens the Track Bank Transfers app.
- **Create with Templates**
Takes you to the Make Bank Transfers (Create with Templates) app.
- **Create**
Opens the detail page, which is empty and ready for you to enter a new bank transfer.

When you click on any of the existing bank transfers in the list, the detail page opens where you can check the **General Information** (payer and payee data, amount, payment method), **Payment Data** (instruction keys), and **Application Log** data for the bank transfers. To see the status of the transfer (**Created**, **Released**, **Reversed**, **Cleared**), you may have to expand the header bar to display the status field underneath the payment request ID.

The app automatically saves the entries you make as drafts. After you're done, click on the **Save** button, and the payment request is created.

Change the Exchange Rate Type Used for Currency Conversion

You can change the exchange rate type used by implementing a BADl (see SAP Note 2361560 – FRFT_B Does Not Allow Specifying the Amount in Local Currency).

You can only enter bank transfers with transfer dates on the current date (today) or on a date in the future.

In the backend, the app uses the standard payment requests and bank communication management (BCM) functionalities. When you create a transfer, the app creates a payment request in the backend system, executes the payment program for payment requests (Transaction F111), and passes the payment on to the BCM merge payments functionality (Transaction FBPM1). If you're not using BCM, the system still creates the payment request, but you won't be able to track the transfer using the Track Bank Transfers app.

Again, this app requires no specific configuration settings. The Make Bank Transfers app uses the BCM, payment request, and payment program settings of the SAP S/4HANA system.

When you save a new bank transfer using the Make Bank Transfers app, the cash position is updated in real time. The Cash Position (Today) app and the Cash Flow Analyzer app use the information in the payment request (planning level, amount, date, bank, etc.) to update the cash position information, that is, the balances for both accounts.

When making the transfer, after the payment run has been executed and the transfer has posted to the general ledger, the details of your cash flows are updated immediately, now based on the accounting documents instead of the payment requests. The balance itself won't change; only the line item's certainty level in the Cash Flow Analyzer app will be updated.

3.3.2 Define Bank Transfer Templates App

Starting with SAP S/4HANA 1909, the possibility to maintain repetitive codes or payment templates has been added to cash management. This is comparable to Transaction FRFT (Repetitive Code Payments). Two SAP Fiori apps have been added for this purpose: the Define Bank Transfer Templates app, which we'll discuss in this section, and the Make Bank Transfers (Create with Templates) app that allows you only to create payments based on the created templates. We'll discuss this app in the next section.

You use the Define Bank Transfer Templates app to define the transfer templates that you would have previously maintained either on the online banking platform or in SAP as repetitive codes.

The list view of the app shows all existing transfer templates (Figure 3.41). You have a long list of filter options, including a few related to the processing status of the transfer templates.

Repetitive Code	Paying Company Code	Paying Bank Account	Receiving Company Code	Target Bank Account	Payment Method	Currency
06291->PB02	0001 (SAP A.G.)	197889 (Nelly Test Reconcile - DO NOT CHANGE!)	0001 (SAP A.G.)	20150630002 (2015063000222)	U (Überweisung)	EUR
1001->CN88BOC1002	CN88 (Country Template CN)	123863975 (Labs China - holder BOC/1001)	CN88 (Country Template CN)	135436578 (Labs China - holder BOC/1002)	T (Bank transfer BOC)	CNY
1001->CN88DEMO1008	CN88 (Country Template CN)	123863975 (Labs China - holder BOC/1001)	CN88 (Country Template CN)	1234567890123456789 (SAP account)	T (Bank transfer BOC)	CNY
1002->CN88BOC1001	CN88 (Country Template CN)	135436578 (Labs China - holder BOC/1002)	CN88 (Country Template CN)	123863975 (Labs China - holder BOC/1001)	U (Transfer)	CNY
1008->CN88BOC1001	CN88 (Country Template CN)	1234567890123456789 (SAP account)	CN88 (Country Template CN)	123863975 (Labs China - holder BOC/1001)	U (Transfer)	CNY

Figure 3.41 Define Bank Transfer Templates App: List View

From the list view, you can either navigate into the details of an existing template to view or edit it, or you can create a new template. Clicking on the active link of any of the

bank accounts in the list, the activated default navigation options can take you to the Make Bank Transfers app or to the Manage Bank Accounts app (of course, you can always activate any of the other 66 navigation options, but not all of them may make sense in the context of the process of creating bank transfer templates).

To delete a template, select it and use the **Delete** button to remove it from your list.

When you click **Create**, an empty form opens, asking you to fill in the **Payer Information** and **Payee Information** composed of the paying and receiving bank accounts, company codes, and so on. You also assign **Payment Method**, **Currency**, and an optional **Reference Text** to be added to the bank transfers (Figure 3.42).

Figure 3.42 Create New Template for Bank Transfers

To save your template, you also have to define an ID for it, which in the app is called the **Repetitive Code**. We recommend that before you start entering hundreds of templates into the system, you think through the process of making bank transfers based on

templates and define a convenient naming convention for the repetitive codes. Use something that works for your process; for example, you might want to be able to easily understand the payer or payee assigned to the template, the payment method, the purpose of such payment, and so on. You have 20 characters to define the code, and the repetitive code is part of the list view when you're creating the bank transfers based on your templates in the Make Bank Transfers (Create with Templates) app.

3.3.3 Make Bank Transfers (Create with Templates) App

This app is a derived version of the Make Bank Transfers app. It essentially has all the same functionalities, but it allows a user to enter only bank transfers based on the templates defined previously.

When you open the app, a list of all templates is displayed (Figure 3.43). You can use the single filter field to find your desired template, for example, using the repetitive code you've assigned to your templates. You can use any string to get to a subset of your pre-defined transfer templates, make an entry, and then find another line, and make your entries until you're done.

Repetitive Code	Paying Company Code	Paying Bank Account	Receiving Company Code	Receiving Bank Account	Payment Method	Transfer Date	Amount	Reference Text	Payment Request
XIESHU1	0001 (SAP A.G.)		F001 (SAP AG)	91203000 (DB BANK BREMEN)	U (Überweisung)	25.06.2020	0,00	EUR	
XIESHU	0001 (SAP A.G.)		F001 (SAP AG)	91203000 (DB BANK BREMEN)	U (Überweisung)	25.06.2020	0,00	EUR	
SUNXIN1	0001 (SAP A.G.)		F001 (SAP AG)	91203000 (DB BANK BREMEN)	U (Überweisung)	25.06.2020	0,00	EUR	
SUNXIN	0001 (SAP A.G.)		FQM1 (FQM1 for CASH)	123456 (Account for payments)	U (Überweisung)	25.06.2020	0,00	EUR	
RC-NEO	0001 (SAP A.G.)	2018121901 (COP - Do Not Touch II)	0001 (SAP A.G.)	2018121901 (COP - Do Not Touch IV)	U (Überweisung)	25.06.2020	0,00	EUR	
RC-ARC	0001 (SAP A.G.)	2018121201 (COP - Do Not Touch)	0001 (SAP A.G.)	2018121901 (COP - Do Not Touch II)	U (Überweisung)	25.06.2020	0,00	EUR	
RBS03-FQM1F QM2FQM2	FQM1 (FQM1 for CASH)	66090800003 (RBS EUR)	FQM1 (FQM1 for CASH)	987654 (FQM 02)	0 (Payment Order Only)	25.06.2020	0,00	EUR	
QJTEST	0001 (SAP A.G.)	20170118003 (Test Create - 20170118001 - Full Cash)	0001 (SAP A.G.)	052101234 (Test by KERRY)	U (Überweisung)	25.06.2020	0,00	EUR	

Figure 3.43 Make Bank Transfers (Create with Templates) App

After you've filled all your template line items you want to use to make transfers at this moment, you simply save the entries and they are created. The processing in the backend follows the same logic as for the transfers created without templates.

Depending on your settings in BCM, bank transfers can be triggered directly from here (**Release and Pay**) or through the creation of a payment request, which then is processed through a release workflow.

3.3.4 Track Bank Transfers App

The Track Bank Transfers app helps you monitor the status and processing of bank transfers. Like the Make Bank Transfers app, the Track Bank Transfers app is based completely on BCM settings in the backend system. As a result, you can only use this app if you're also using BCM in the backend and it's set up to allow the tracking of the payment requests in BCM.

The Track Bank Transfers app (Figure 3.44) displays the bank transfers from the past three months. This information is based on the status from the BCM Bank Statement Monitor (Transaction BNK_MONI).

Transfer Date	Run ID	From Bank Account	To Bank Account	From Company Code	To Company Code	Payment Method	Detailed Status	Urgent Indicator	Amount
30.03.2017	00002R	Deutsche Bank Frankfurt Branch 20150827	Deutsche Bank 20041111002	0001 72901 0001	FQM1	I ISO Pain 001: Bank Transfer	Payment Medium Created	No	100,00 EUR
29.03.2017	00001R	Deutsche Bank Frankfurt Branch 20150827	Deutsche Bank 20041111002	0001 72901 0001	FQM1	I ISO Pain 001: Bank Transfer	Payment Medium Created	No	100,00 EUR
26.04.2017	00001R	Deutsche Bank Frankfurt Branch 20150827	Deutsche Bank 20041111002	0001 72901 0001	FQM1	I ISO Pain 001: Bank Transfer	Payment Medium Created	No	100,00 EUR
26.04.2017	00002R	Citigroup Global Markets DE AG & Co. KG aA 60010070002	Deutsche Bank Frankfurt Branch 20150827	FQM1 FQM3 CIT02	0001	I ISO Pain 001: Bank Transfer	Payment Medium Created	No	888,00 CNY
06.04.2017	00002R	Citigroup Global Markets DE AG & Co. KG aA 60010070002	Deutsche Bank Frankfurt Branch 20150827	FQM1 FQM3 CIT02	0001	I ISO Pain 001: Bank Transfer	Payment Medium Created	No	1.000.001,00 CNY

Figure 3.44 Track Bank Transfers App

The Track Bank Transfers app only shows transfers created using the Make Bank Transfers app. As a result, you'll need to define business process procedures to ensure that you don't inadvertently miss important transfers when analyzing bank transfers using the app.

The app provides you with a number of predefined filters. For each filter, the app displays an icon or button in the title bar. Use these buttons to show subsets of bank transfers created using the Make Bank Transfers app over the past three months. The following filters are available:

- **Exceptions**

Shows all bank transfers that have been flagged as an exception, for example, because an error occurred in the transmission, during the processing of the payment run, and so on.

- **New**
Shows all new bank transfers, that is, those transfers that have been created but haven't yet been edited or approved by any user.
- **In Approval**
Shows a user has started the approval process. Depending on the BCM setup, one or more approval steps will be required.
- **Approved**
Shows the bank transfers that have been approved by all the approvers required according to the BCM settings.
- **Sent to Bank**
Shows the bank transfers that have been sent to the bank, after approval, but that haven't yet been confirmed by the incoming bank statement.
- **Completed**
Shows bank transfers that have been confirmed by the incoming bank statement; that is, the open item on the bank clearing account has been reconciled against a line item in an incoming bank statement.

If you need to drill down more deeply into a specific payment process and line item, you can navigate from the Track Bank Transfers app directly to the Check Cash Flow Items app.

3.3.5 Approve Bank Payments App

For the approval of bank payments, you should use the Approve Bank Payments app. This app enables you to approve bank payments generated by the financial payment program. The app has been developed for use on desktops as well as on mobile devices. From a functionality standpoint, the app provides similar approval functionality to Transaction BNK_APP in the BCM backend.

When you open the app, you access the list view of all the payment batches. Two separate tabs display the batches for review and those already reviewed separately. You can click on any batch to navigate to its details (Figure 3.45), that is, the list of all payments, and then navigate further into the details of each of the payments.

After you're done analyzing the batch on the **For Review** tab, you can decide how to process it further (Figure 3.46). You select the batches you want to process and then click on **Approve**, **Reject**, **Return**, or **Discard Changes**.

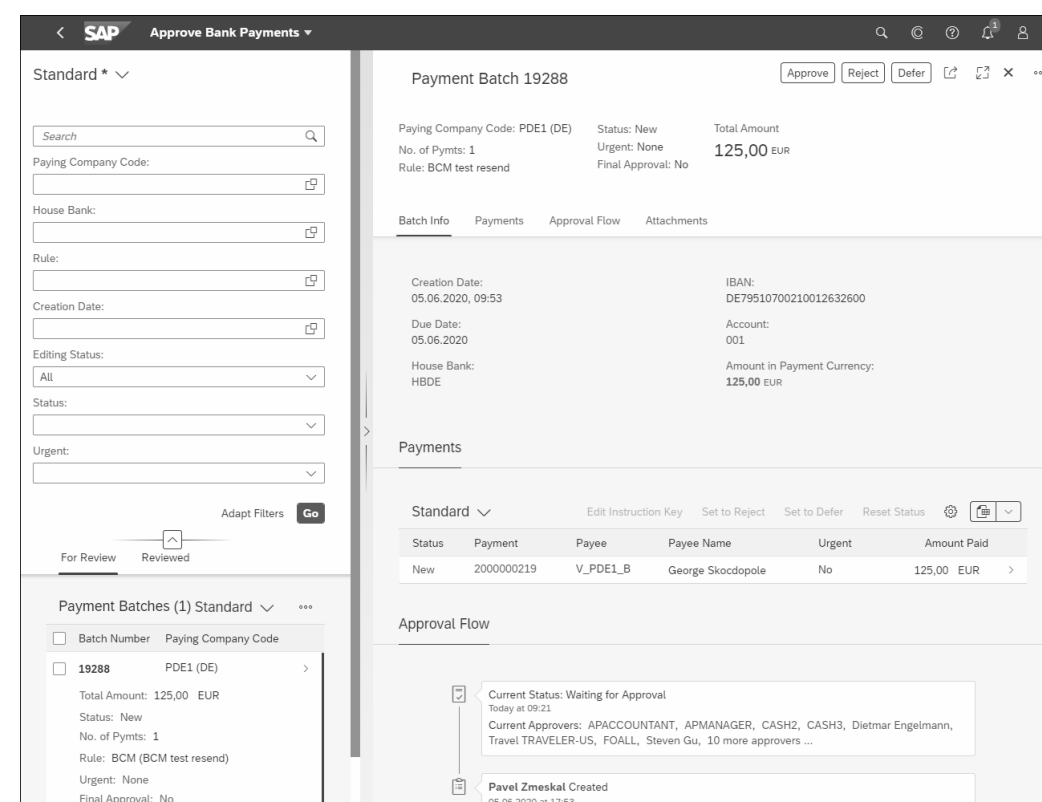


Figure 3.45 Approve Bank Payments App: Details

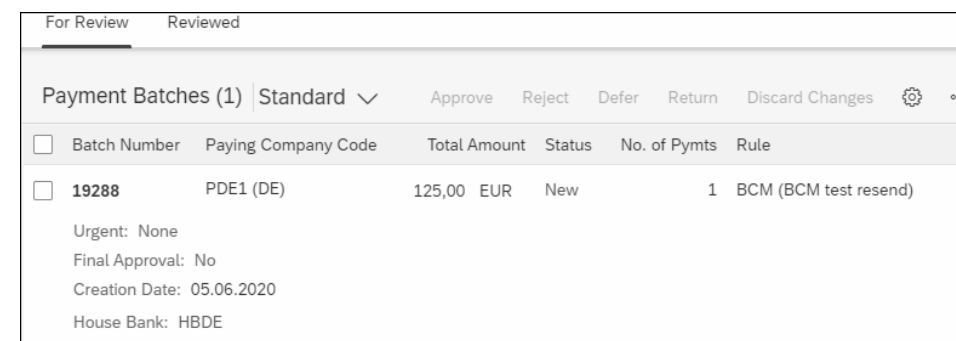


Figure 3.46 Further Process of Payment Batches

On the **Reviewed** tab, you can select the batches and then click on **Submit** or **Discard Changes**.

Segregation of Duty/Four Eyes Principle

You should be aware that, based on the standard settings, the app will allow you to approve your own bank transfers, meaning you can create bank transfers and then also approve them yourself. While this setting may be valid in certain scenarios and organizations, if you need to change this standard behavior, SAP has provided the business transaction event (BTE) OBANK002, where you can program your own logic to prevent users from approving their own transfers. For example, you can introduce approval patterns following the four eyes principle.

3.3.6 Cash Concentration

In this section, you'll learn how to use cash pools and learn about the rules and restrictions that apply. You'll see how to use cash concentration to manage your cash balances and to concentrate cash across accounts, banks, and company codes.

The way you manage cash in cash management has drastically changed from SAP S/4HANA 1709 to SAP S/4HANA 1809. You can refer to Appendix A to read about the previous cash concentration and cash pool functionalities.

As of SAP S/4HANA 1809, cash pools and cash concentration are managed through five different apps:

- **Manage Cash Pools app**
Define a cash pool.
- **Manage Bank Accounts app**
Assign bank accounts to cash pools.
- **Manage Cash Concentration app**
Manually start a cash concentration run.
- **Schedule Jobs for Cash Concentration app**
Automate cash concentration.
- **Cash Pool Transfer Report app**
See the payment requests and instructions created by cash concentration runs.

In the following sections, we'll describe each of these apps.

Manage Cash Pools App

Using the Manage Cash Pools app (Figure 3.47), you define the main attributes (**General Information**) of a cash pool, as we'll describe in this section. First, you should give your cash pool a meaningful **Cash Pool Description**, either the actual name you're also using in your day-to-day business or some technical name, based on a consistent naming convention, that allows you to recognize what this pool is used for, which accounts participate, when it's run, and so on.

The **Pool Type** is a field created for future usage. You define whether the pool is a physical pool or a notional pool, as well as other possible types. As of SAP S/4HANA 2020, only the **P (Physical)** type is available, with the notional pool in the backlog for future functionalities.

The **Service Provider** describes where the cash pool is managed. If a **Bank** manages your pool, you're probably looking at a zero-balance account setup (ZBA pooling structure) or any other bank service where the bank monitors your account balances for a specified set of accounts and generates automatic transfers at the end of the day. If you're managing the cash pool yourself, you want to set the **Service Provider** attribute to **E (Enterprise)**. Only for **E (Enterprise)**-managed pools, you can manually run the cash concentration and generate the payment request for the bank-to-bank transfers that result from the cash concentration process. For a **Bank**-managed pool, the bank creates the transfers between the accounts, and you'll see the result only in your bank statements. You still want to set up a bank-managed pool in the system, as you can now use the pool definition to simulate the expected transfers (refer to the "Cash Concentration Simulation View" subsection in Section 3.2.2) and thus already include the cash impact of the projected bank transfers in your cash positioning decisions.

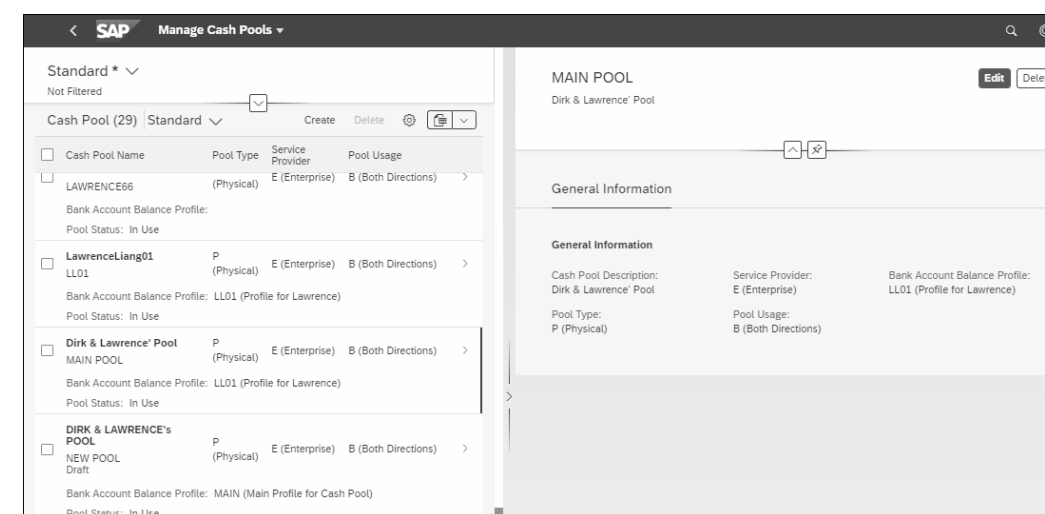


Figure 3.47 Manage Cash Pools App

Bank- and Enterprise-Managed Cash Pools

If your cash pools are managed by the bank, for example, if you have a bank-managed ZBA pool structure, you'll usually see the result of the cash pooling only the following day after receiving your current day bank statements. In addition, a bank-managed pool usually only includes bank accounts held at the bank managing the pool.

In addition to, or instead of this paid bank service, you may also be operating cash pools that you're managing internally. For these cash pools, you might be doing manual transfers every day; for example, you may have transfer templates or repetitive codes set up on your banking platform or in SAP that you use on a daily basis to shift balances between accounts and concentrate cash at the header level of your regional or global pooling structures. While the cash concentration of a bank-managed pool results in intrabank transfers, the internally managed pools also take care of interbank transfers. For example, you might take the balances from the various intrabank pool headers and concentrate them to your global cash pool, that is, making interbank transfers. Essentially, you could have a multilevel structure of subpools that make up your complete, or global, cash pool structure.

The cash pooling and cash concentration functionality in cash management in SAP S/4HANA allows you to completely automate this process, either by managing the entire structure internally or by combining the bank-managed pools and internally managed pools into your process. You should discuss this idea and its limitations (because of the difficulties to operate a cash pool across multiple time zones and within different national financial markets with incompatible cutoff times and processing delays) when you're planning to implement the cash pooling functionality.

The **Pool Usage** setting, currently, has no immediate functional effect and is for information only. You can define whether the pool is to be used for **U (Cash Concentration)** (funds flowing to the header account), for **D (Cash Distribution)** (funds flowing from the header account), or funds flowing in **B (Both Directions)**.

One of the most important settings is the **Bank Account Balance Profile**. This is the same profile used in various places across cash management, such as in the Bank Account Balance app. The profile is defined in the configuration settings of your solution by assigning the planning levels you want to include in the calculation of the account balances, which means you can apply different definitions of the balances used for the account balances in distinct cash pools. For example, depending on the time of the day when you run cash concentration for a pool, you may want to include or exclude cash in transit or forecasted transactions.

For your Bank Account Balance app, you can report on your bank account balances using the same balance definition as you use for your cash pools, or you can choose a different logic, for example, report account balances based strictly on actual cash flows.

Manage Bank Accounts App

The actual structure of the cash pool is defined directly in the Manage Bank Accounts app. Any account can be assigned to two cash pools, once as the header account of a cash pool, and once as a subaccount in a cash pool (Figure 3.48). This way, it's possible to define multilevel pool structures.

If the account is a subaccount of one pool and the header of another pool, when you're running or simulating the cash concentration, all transactions from the pool header relationship are processed first, and then the pool subaccount relation is processed. Therefore, first cash is concentrated into or out of the account as a header account of a pool, and then the balance of the same account is included in the cash concentration process of the second pool to which the account is assigned as a subaccount.

Pools can be defined across company codes and using accounts in different account currencies. For each bank account, you also define the **Target Balance** for the account and the **Minimum Transfer Amount**, both in the account currency. You assign separate payment methods for the pool header relation and the subaccount relation. These will be used when the automatic bank transfers are generated during the cash concentration run. For more details on the bank account setup, refer also to details on the Manage Bank Accounts app in Chapter 2.

As Header Account	As Subaccount	
Cash Pool (Header Account): NEW POOL (DIRK & LAWRENCE'S POOL)	Cash Pool (Subaccount): MAIN POOL (Dirk & Lawrence' Pool)	Minimum Transfer Amount: 0,00 EUR
Payment Method (Header Account): : (MT101 via FSN)	Target Balance: 0,00 EUR	Payment Method (Subaccount): I (ISO Pain 001: Bank Transfer)

Figure 3.48 Assigning a Bank Account to Cash Pools in the Manage Bank Accounts App

Manage Cash Concentration App

In the Manage Cash Concentration app, you manually start a cash concentration run. You need to specify a **Cash Pool Name**, the **Exchange Rate Type** to be used to convert amounts from one currency to another in case accounts with different account currencies are part of the pool, and the **Plan Date** of the cash concentration run (Figure 3.49).

Specify Cash Pool

Cash Pool Name: *
MAIN POOL

Exchange Rate Type: *
M

Plan Date: *
25.06.2020

Specify Cash Pool Cancel

Figure 3.49 Specify a Cash Pool

As soon as you click **Specify Cash Pool**, the bank accounts that are part of the pool are listed, and the balance before and after a hypothetical transfer are calculated for each account based on the target balances and minimum transfer amounts defined for the accounts (Figure 3.50). The transfers from child cash pools linked to the selected cash pool are simulated, and the result is displayed in a separate section below the pool's account list.

Bank Account Number	Header Account	Bank	Company Code	Balance Before	Target Balance	Transfer Amount	Value Date	Balance After	Minimum Transfer Amount	Child Cash Pool
21324354 (Lawrence and Dirk's Account)	X	34286823	1710 (Company Code 1710)	1,000,00 USD		-908,13 USD		91,87 USD	0,00 USD	
998898899 (Migrated from BAM)		67270024	F001 (SAP AG)	-900,00 EUR	0,00 EUR	900,00 EUR	25.06.2020	0,00 EUR	0,00 EUR	NEW POOL
95512343 (CashOperationTesting3)		10020030	0001 (SAP A.G.)	0,00 EUR	0,00 EUR	0,00 EUR	25.06.2020	0,00 EUR	0,00 EUR	

Figure 3.50 Initiating Cash Concentration Manually

Schedule Jobs for Cash Concentration App

The Schedule Jobs for Cash Concentration app, where you can automate cash concentration, contains three steps. After defining the name of the job in step 1 – **Template Selection**, in step 2 – **Scheduling Options**, you can automate the execution of regular cash concentration runs by setting up a job schedule. Here you can set up a periodicity for the job and define a time at which the job should run. In step 3 – **Parameters**, you select the cash pool for which to run the job and assign the exchange rate type (Figure 3.51). Click on **Schedule** to set up the job.

Cash Pool Transfer Report App

The Cash Pool Transfer Report app provides you with an overview of the cash concentration runs and the bank transfers generated as a result of the execution of cash concentration (Figure 3.52). This report can be run daily, and it shows the cash concentration cash flows between each header and subaccounts that have been confirmed by the bank (through the bank statement).

Figure 3.51 Schedule Job for Cash Concentration

Cash Pool Name	Currency	Header Account N.	Subaccount Number	Company Code of...	Transfer Amount	
					19.11.2018	19.12.2018
COP_001	EUR	61085193	2018092803	F001	0,00 EUR	
NT-0	EUR	2018121901	2018121902	0001		-100,00 EUR
NT-1	EUR	2018121201	95512341	0001		-10,00 EUR

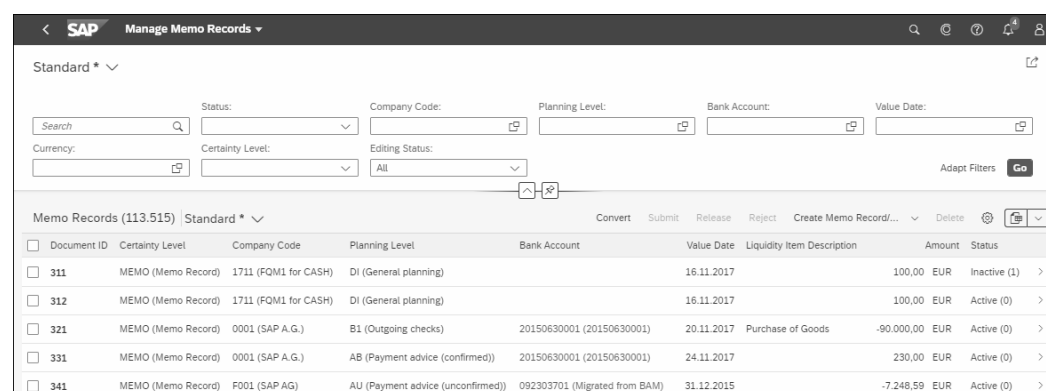
Figure 3.52 Cash Pool Transfer Report App

3.3.7 Managing Memo Records

In this section, we'll discuss the new app for the creation and maintenance of memo records, some of the changes in the integration of memo records with One Exposure from Operations, and some new features related to the trade integration with SAP Treasury and Risk Management.

Manage Memo Records App

The Manage Memo Records app (Figure 3.53) was introduced in SAP S/4HANA 1809. This new SAP Fiori app replaces the SAP Fiori theme apps for Transactions FF63N/FF65N, which have been disabled on the SAP Fiori launchpad. The transactions still exist in the backend and can still be used as SAP GUI transactions.



The screenshot shows the SAP Manage Memo Records app interface. At the top, there are search and filter options for Status, Company Code, Planning Level, Bank Account, and Value Date. Below this is a table of memo records with columns for Document ID, Certainty Level, Company Code, Planning Level, Bank Account, Value Date, Liquidity Item Description, Amount, and Status. The table contains five rows of data, including records for CASH, SAP A.G., and SAP AG.

Document ID	Certainty Level	Company Code	Planning Level	Bank Account	Value Date	Liquidity Item Description	Amount	Status
311	MEMO (Memo Record)	1711 (FQM1 for CASH)	DI (General planning)		16.11.2017		100,00 EUR	Inactive (1)
312	MEMO (Memo Record)	1711 (FQM1 for CASH)	DI (General planning)		16.11.2017		100,00 EUR	Active (0)
321	MEMO (Memo Record)	0001 (SAP A.G.)	B1 (Outgoing checks)	20150630001 (20150630001)	20.11.2017	Purchase of Goods	-90.000,00 EUR	Active (0)
331	MEMO (Memo Record)	0001 (SAP A.G.)	AB (Payment advice (confirmed))	20150630001 (20150630001)	24.11.2017		230,00 EUR	Active (0)
341	MEMO (Memo Record)	F001 (SAP AG)	AU (Payment advice (unconfirmed))	092303701 (Migrated from BAM)	31.12.2015		-7.248,59 EUR	Active (0)

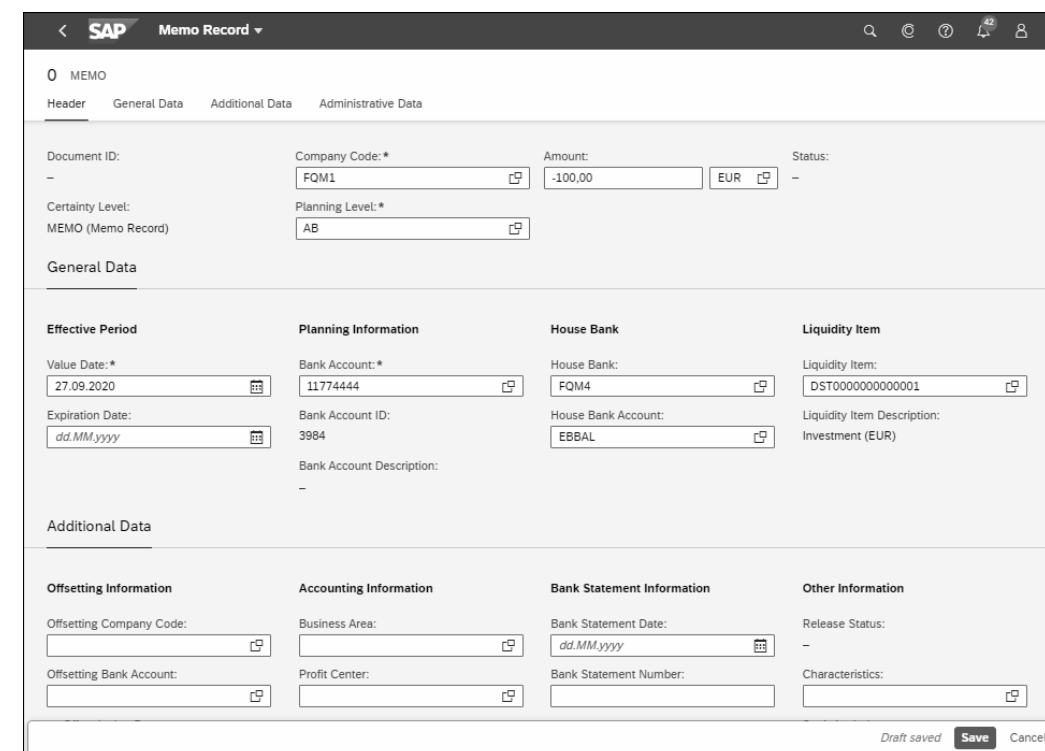
Figure 3.53 Manage Memo Records App

You can get a list of memo records when opening the app, and the selection criteria and layout of report can be personalized for your convenience. Numerous filters and columns are available, for example, **Status** for **Inactive/Active** memo records, **Company Code**, **Planning Level**, **Planning Group**, **Liquidity Item**, **Bank Account**, **Value Date**, and **Created by User**.

From the list, besides the generic SAP Fiori app features, you can perform various actions on memo records. The **Convert** button is used to switch the memo record status between **Active** and **Inactive**, which is the same as the feature supported in Transactions FF63/FF63N. You can also delete the memo record from the list by clicking the **Delete** button. The deleted memo record will not be shown in the list anymore; the system sets the deletion flag in the memo record in the database table instead of deleting it physically. **Convert** should be used if you just want to temporarily deactivate the memo record while **Delete** should be used when the memo record won't be used permanently. The three buttons **Submit**, **Release**, and **Reject** are relevant to cash trade requests, which will be discussed later in this section.

After you select **Create Memo Record** from the dropdown list, the detail page for the new memo record is displayed (Figure 3.54). Most fields are identical to Transactions FF63/FF63N. When entering a planning level with **Source Symbol BNK** in the **Planning Level** field, the system will make the **Bank Account** field mandatory for input and hide the **Planning Group** field, which is similar behavior as memo records in cash position. When entering a planning level with **Source Symbol PSK**, you will be asked to enter a planning group; entering a bank account is optional.

When you click the **Save** button, one new memo record is created successfully.



The screenshot shows the SAP Memo Record app interface for creating a new memo record. The form is divided into several sections: Header, General Data, Additional Data, and Administrative Data. The Header section includes fields for Document ID, Company Code, Amount, and Status. The General Data section includes fields for Effective Period, Planning Information, House Bank, and Liquidity Item. The Additional Data section includes fields for Offsetting Information, Accounting Information, Bank Statement Information, and Other Information. The form is currently in a 'Draft saved' state.

Figure 3.54 Manage Memo Records App: Create New Memo Record

Memo Records Update in One Exposure from Operations

Another fundamental change in SAP S/4HANA 1809 was to include the memo records directly into the One Exposure from Operations table and have all apps read the memo records data from there and no longer from table FDES (also check out SAP Note 2781585 – Cash Management: Memo Records in SAP S/4HANA 1809).

Create Cash Trade Request

A new type of memo record can be created directly from the Manage Memo Records app. These memo records are the cash trade requests that will integrate with the trading platform integration (TPI) tool on SAP Cloud Platform. There are two different ways to navigate to the creation of trade requests, either directly from the Manage Memo Records app or through the navigation from the Cash Flow Analyzer app described in Section 3.2.2.

In the Manage Memo Records app, you have two additional options to create memo records. In addition to the **Create Memo Record** option, you now also have **Create Cash Trade Request (FX)** (available since SAP S/4HANA 1809) and **Create Cash Trade Request (MM)** (available since SAP S/4HANA 2020). When you use either of these two options, a memo record is created with the certainty level **Cash Trade Request**, which updates One Exposure from Operations directly.

You can also create the cash trade requests directly from the Cash Flow Analyzer app (Section 3.2.2), where four navigation options have been added and can be accessed when you click on an amount in the report (Figure 3.55).

The screenshot shows the SAP Cash Flow Analyzer interface. At the top, there are filters for Company Code, Currency, Time Period, Date, and Bank Account. Below this is a table of cash flows. A pop-up window is open over a 100,00 EUR entry, showing options to create a cash trade request as either a receiving or sending bank account for FX or MM.

Flow Direction	Planning Level	Overdue	23.06.2020
>	Company Code: 0001 - SAP A.G.	-2.000.567.783.221.114...	-2.000.567.783.219.957...
>	Company Code: 1010 - Company Code 1010	1.521,00 EUR	85.365,76 EUR
>	Bank Account: Not Assigned	0,00 EUR	83.844,76 EUR
>	Bank Account: 12345 - test	1.100,00 EUR	1.100,00 EUR
		0,00 EUR	0,00 EUR
←	AB	100,00 EUR	100,00 EUR
←	CL	1.000,00 EUR	1.000,00 EUR
		1.100,00 EUR	1.100,00 EUR
>	Bank Account: 2019051301 - HXN_REPLICATE_TESTCE1908	00 EUR	100,00 EUR
>	Bank Account: 2019051302 - HXN_REPLICATE_TESTCE1908	00 EUR	321,00 EUR
>	Company Code: 1711 - FQM1 for CASH	100,00 EUR	100,00 EUR
>	Company Code: 8000 - IDES A.G.	-1.000,00 EUR	-1.000,00 EUR
>	Company Code: AAAA - Jabra	-63.500,00 EUR	-63.500,00 EUR
>	Company Code: ADB1 - SAP A.G.	0,00 EUR	-7.000,00 EUR

Figure 3.55 Navigate from Cash Flow Analyzer to the Cash Trade Request Creation

After you've accessed the create cash trade request UI for either the FX or the money market (MM) deals, you define a few attributes related to the creation of the deals, in

addition to the usual details required for the creation of memo records. Specifically, the **Instrument Category**, trade direction (**Buy / Sell** for FX and **Invest / Borrow** for MM), **Term Start**, and **Term End Dates** are needed for the trading activity (Figure 3.56).

When you save the memo record, along with a memo record, a trade request is also created that can then be integrated in the trading platform integration tool and sent to an external trading platform or to a bank (see the “Integrating External Trading Platforms” box later in this section).

The screenshot shows the SAP Memo Record app interface for creating a cash trade request. The form is divided into three main sections: General Information, Detail Information, and Other Information.

General Information	Detail Information	Other Information
Trade Request: CSHRQ	Requested Amount: * 1.000,00 EUR	Document Availability: <input type="checkbox"/>
Cash Trade Request Status: -	Requested Opposite Amount (Forecasted): * 0,00 USD	Payer / Payee: <input type="checkbox"/>
Instrument Category: * FXSP (FX Spot)	Sending Bank Account ID: <input type="checkbox"/>	Partner Bank: <input type="checkbox"/>
Value Date: * 23.06.2020	Sending Bank Account: -	Instrument Assignment: <input type="checkbox"/>
Buy / Sell: * Buy	Receiving Bank Account ID: 13991	Internal Reference: <input type="checkbox"/>
Company Code: * 1010	Receiving Bank Account: 2019051301 (HXN_REPLICATE_TESTCE1908)	Characteristics: <input type="checkbox"/>
		Liquidity Item: KB045
		Planning Level: -
		Text: Test Request

Figure 3.56 Manage Memo Records App: Create Cash Trade Request

Let's walk through the complete end-to-end process for an FX trade:

1. From within the Cash Flow Analyzer app, identify a currency amount surplus or deficit you need to take care of through an FX spot trade. Select the **Create Cash Trade Request as Receiving or Sending Bank Account (FX)** navigation option to open the Manage Memo Records app.
2. Define the **Instrument Category**, **Buy/Sell**, **Requested Amount** (and currency), **Opposite Bank Account**, **Liquidity Item**, **Characteristics**, additional **Text**, and so on.
3. Click **Save** or **Save and Submit** to create the cash trade request.
4. A cash trade request is submitted so that a second user with review authorization can approve or reject it. If the trade request is rejected, it goes back to the Manage Memo Records app. You can find the created trade requests in Transaction TPITRO (Process Trade Requests) (Figure 3.57).
5. If approved, the system automatically creates a trade request with category **Cash**, which can be further processed or displayed in Transaction TPITRO.

Process Trade Requests

Trade Request ID: to

Trade Request Category:

Trade Request Status:

Process | Originating Request

TRequestID	Status	Cancel R.	T.Req.Cat.	Instrument Group	Origin ID	Instrument	Created On	Time (UTC)	Last Edited On	Last Edited
3955	Released		Cash	Money Market	5287006	Not defined	27.07.2020	05:45:19		00:00:00
3888	Released		Cash	Money Market	5286761	Not defined	23.06.2020	05:57:23		00:00:00
3887	Released		Cash	Money Market	5286751	Not defined	23.06.2020	05:23:13		00:00:00
3820	Released		Cash	Money Market	5285471	Not defined	20.05.2020	07:24:03		00:00:00
3562	Released		Cash	Money Market		Not defined	05.05.2020	07:45:07		00:00:00
3548	In Process		Cash	Money Market		Not defined	28.04.2020	07:33:24	28.04.2020	07:33:25
3547	In Process		Cash	Money Market		Not defined	27.04.2020	10:44:27	27.04.2020	10:46:20
3539	In Process		Cash	Money Market		Not defined	21.04.2020	09:01:52	21.04.2020	09:01:53
3538	Released		Cash	Money Market		Not defined	21.04.2020	08:58:55		00:00:00
3537	Released		Cash	Money Market	5285182	Not defined	21.04.2020	08:44:29		00:00:00
3536	Released		Cash	Foreign Exchange	5285171	FX Spot	21.04.2020	08:43:52	21.04.2020	08:43:52

Figure 3.57 Process Trade Requests Transaction

6. After the trade request has been approved, the end user can retrieve the trade request in the trading platform integration tool on SAP Cloud Platform and then start the trade execution process there (Figure 3.58).

SAP Manage Trade Requests

Standard*
Not Filtered

Trade Requests (4,528)

Send Get Create Phone Trade Split Undo Split Create Block Undo Block Assign to Block

Status	Fulfillment Status	Instrument Category	Trading A...	Traded Amount	Value Date	Created At	Changed At	Company ID
Manually Traded	Fulfilled	FX Spot	Buy	6,000,000.00 USD	Oct 30, 2020	Sep 2, 2020, 2:23:22 PM	Sep 25, 2020, 10:24:36 AM	0001
Technical Error	Fulfillment Check Error	FX Forward	Buy	666.00 USD	Sep 17, 2020	Aug 25, 2020, 4:07:44 PM	Sep 25, 2020, 10:08:22 AM	0001
Manually Traded	Fulfilled	FX Forward	Buy	666.00 USD	Nov 17, 2020	Sep 16, 2020, 4:59:11 PM	Sep 25, 2020, 2:12:49 AM	0001
Manually Traded	Fulfilled	FX Forward	Buy	1,111.00 USD	Jan 31, 2021	Sep 16, 2020, 9:58:54 PM	Sep 24, 2020, 10:14:42 AM	0001
Completed	Fulfilled	FX Forward	Buy	70.00 USD	Sep 30, 2020	Sep 24, 2020, 9:23:44 AM	Sep 24, 2020, 9:26:56 AM	0001
Completed	Fulfilled	FX Forward	Buy	30.00 USD	Sep 30, 2020	Sep 24, 2020, 9:24:42 AM	Sep 24, 2020, 9:25:27 AM	0001
Initiated	Initial	Money Market Undefin...				Sep 24, 2020, 9:23:42 AM	Sep 24, 2020, 9:23:44 AM	0001
Initiated	Initial	Money Market Undefin...				Sep 24, 2020, 9:23:42 AM	Sep 24, 2020, 9:23:43 AM	0001

Figure 3.58 Manage Trade Requests App in SAP Cloud Platform

7. In the trading platform integration tool, the trader can approve the request and release it to the trading external platform.

8. After traded on the external platform, the trade comes back into the trading platform integration tool, and the tool automatically creates the FX deal in the backend, that is, the Transaction Manager of SAP Treasury and Risk Management.

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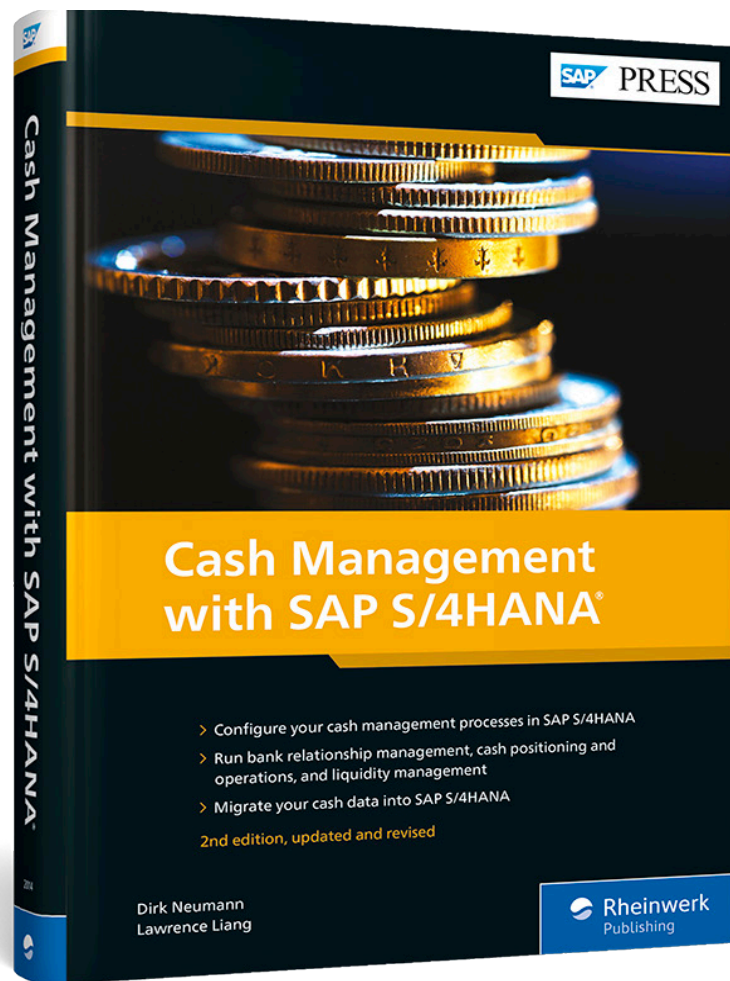
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Dirk Neumann, Lawrence Liang

Cash Management with SAP S/4HANA

561 Pages, 2021, \$79.95

ISBN 978-1-4932-2014-4

 www.sap-press.com/5169



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