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Sample Content for SAP Financial Services Data Management

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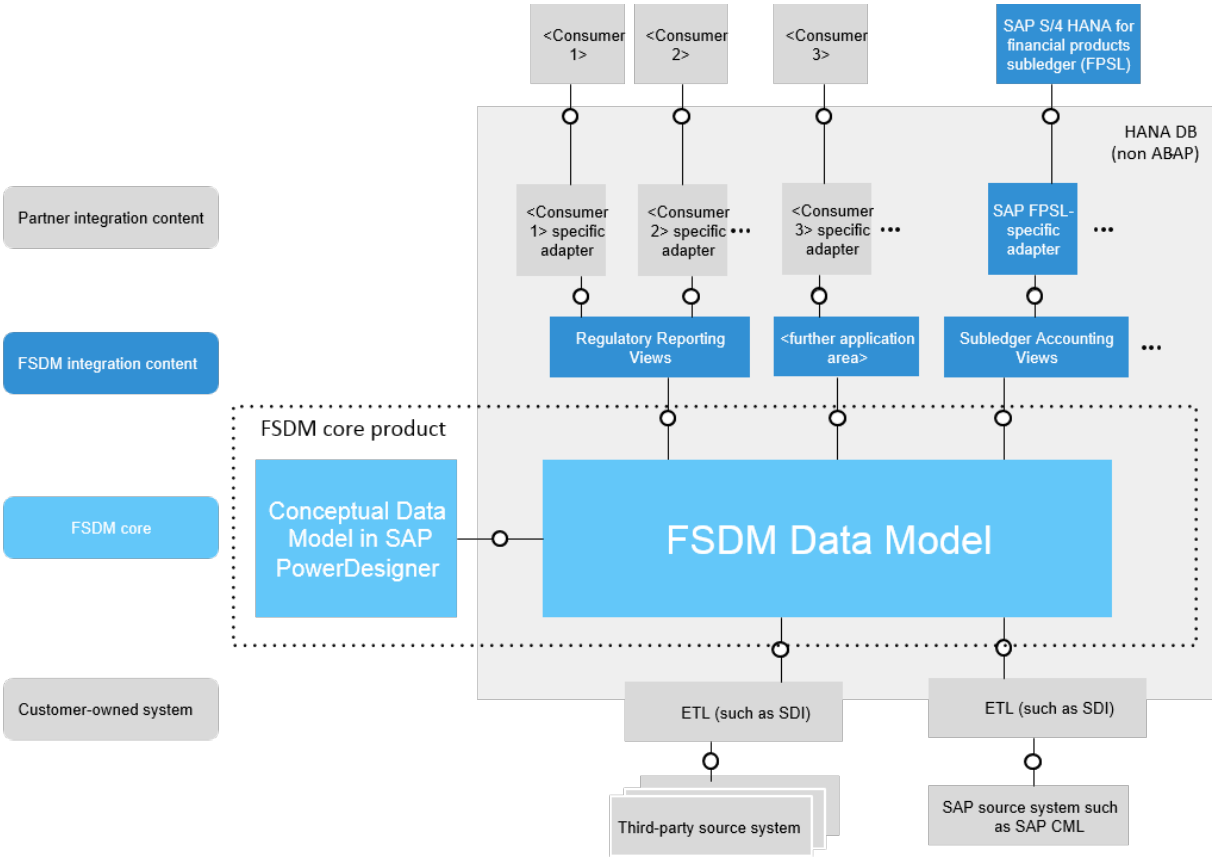
1 Sample Content for SAP FS Data Management

SAP Financial Services Data Management is a key component in the building of a financial services data platform. The data platform provides the basis for other applications to access relevant information. Therefore, integration architecture is defined to show a common pattern for implementation. To support the implementation of integrations, SAP Financial Services Data Management provides content as part of the product. You can, for example, find template views to support European regulatory reporting.

In the following figure, the integration architecture consists of two additional layers:

- SAP Financial Services Data Management integration content: on top of the FSDM core, the FSDM integration content defines a layer that exposes the data in SAP Financial Services Data Management for a certain business purpose, independent of specific consumer applications.
- Partner integration content: based on the FSDM integration content, you can use specific applications on top. This layer is responsible for mapping and transforming data according to the needs of a specific application. These applications can be other SAP internal products or third-party products. The application provider is responsible for the application-specific adapter due to the obvious dependency.



You can use the FSDM integration content as an example of how to read data from the data model. This sample content is delivered in the form of views. You need to adapt these views according to your needs before you can

use them productively. You can use these content views in your implementation project to familiarize yourself with the architecture of the system and to speed up the implementation process.

> **i Note**
>
> Since this is sample content only, we do not provide support for productive use, which means that there are no warranties or maintenance.
>
> To benefit from these views, you need to make your own adaptations to the templates. We cannot provide an upgrade for any new versions that you create. When we upgrade our templates, you must upgrade your views carefully according to your specific needs in a similar way to how you perform an upgrade of the data model template. We reserve the right to withdraw outdated and obsolete templates without further notice.
>
> Do *not* upgrade your productive database schema directly. We recommend that you download the new version to a separate test database schema and test the content there first. After this, you need to make any required changes to your operational database schema *manually*.
>
> You are responsible for compliance with regulations. This content helps you to configure your system in a way that enables you to provide your individual data for follow-on processes such as reporting, according to the business needs of your company.
>
> We recommend that you use different containers to manage your security settings for different use cases. This allows you to control security settings for an entire container, what makes the setup much easier and more efficient, and allows you to respond individually to different requirements. For more information, see the Security Information section of the Administrator's Guide for SAP Financial Services Data Management.

> **i Note**
>
> **Example Code**
>
> Any software coding and/or code snippets are examples. They are not for productive use. The example code is only intended to better explain and visualize the syntax and phrasing rules. SAP does not warrant the correctness and completeness of the example code. SAP shall not be liable for errors or damages caused by the use of example code unless damages have been caused by SAP's gross negligence or willful misconduct.

This guide provides a high-level description of the content. To identify all details of the entities, attributes, and their definitions, see the related diagrams of the data model represented in SAP PowerDesigner.

More Information

Installing or Upgrading the Template to Use or Extend the Data Model

1.1 Data Provisioning for European Regulatory Reporting

The sample content for SAP Financial Services Data Management provides views on top of the data model to support your data provisioning for European regulatory reporting. These sample views are based on the

database tables included in the content for SAP Financial Services Data Management. You need to adapt these views individually to enable productive use, otherwise they cannot be used for regulatory compliance. They help you to configure your system in a way that enables you to create your individual reporting views, which you can use to comply with European regulatory reporting.

Administration

We recommend that you store all views related to each data provisioning topic in a separate container. This allows you to control security settings for all these views centrally on container level, which makes the setup much easier. This supports you also in fulfilling legal requirements as you can specify that all data stored in this container is related to the special purpose of this data provisioning topic.

Default authorization for the sample views to support data provisioning for European regulatory reporting does not allow users to display blocked data. Users who are allowed to display blocked data need the following roles in addition:

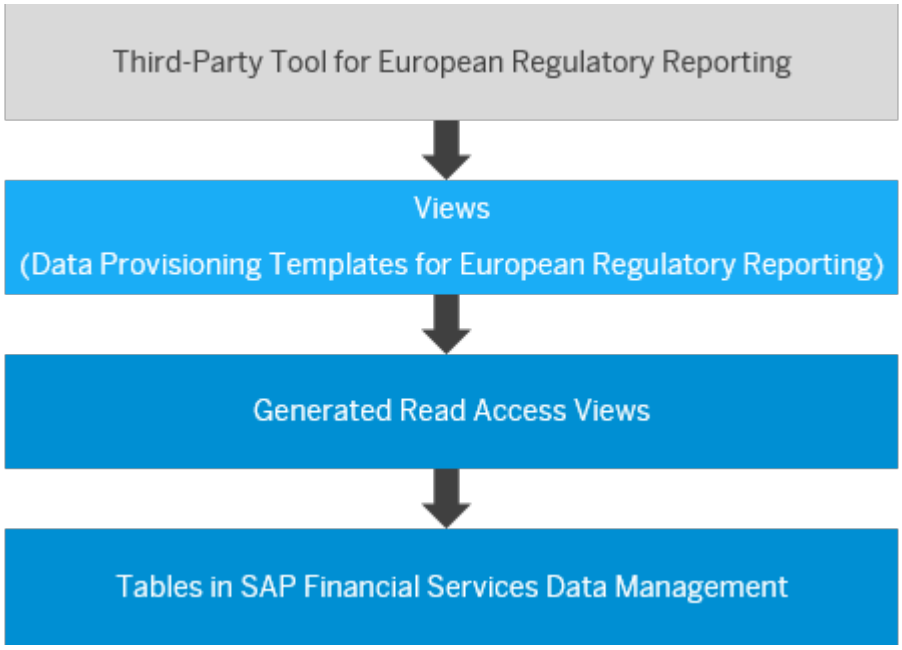
- *DataProtectionAndPrivacyDetails_Blocking.hdbrole*
- *DataProtectionAndPrivacyDetails_FinancialContract_Blocking.hdbrole*

For more information about blocking, see Deletion of Personal Data in the administrator's guide.

Integration

These sample views for data provisioning for European regulatory reporting are intended to be used for the connection between SAP Financial Services Data Management and the third-party product you use for European regulatory reporting.

The sample views are based on the generated read access views of SAP Financial Services Data Management. Each table of the SAP Financial Services Data Management data model has a generated view, which provides two-dimensional versioned read access and exposes all attributes of that table. If you have made individual enhancements to the data model, these are part of the generated views, but cannot be contained in the template views for European regulatory reporting. Make sure to adapt your views accordingly.



The data provisioning views for European regulatory reporting provide the following:

- A projection of the SAP Financial Services Data Management data model on European regulatory reporting requirements. The sample views expose only fields that are required for European regulatory reporting.
- Views as a combination of multiple SAP Financial Services Data Management tables according to CDM business entities. The data of multiple tables is combined according to business entities defined as separate diagrams in CDM in SAP PowerDesigner (for example loan, account, collateral, rating, or FX rate).
- Additional sample views for relationships between business entities.
- Support for reporting of specific business requirements such as syndicated loans.

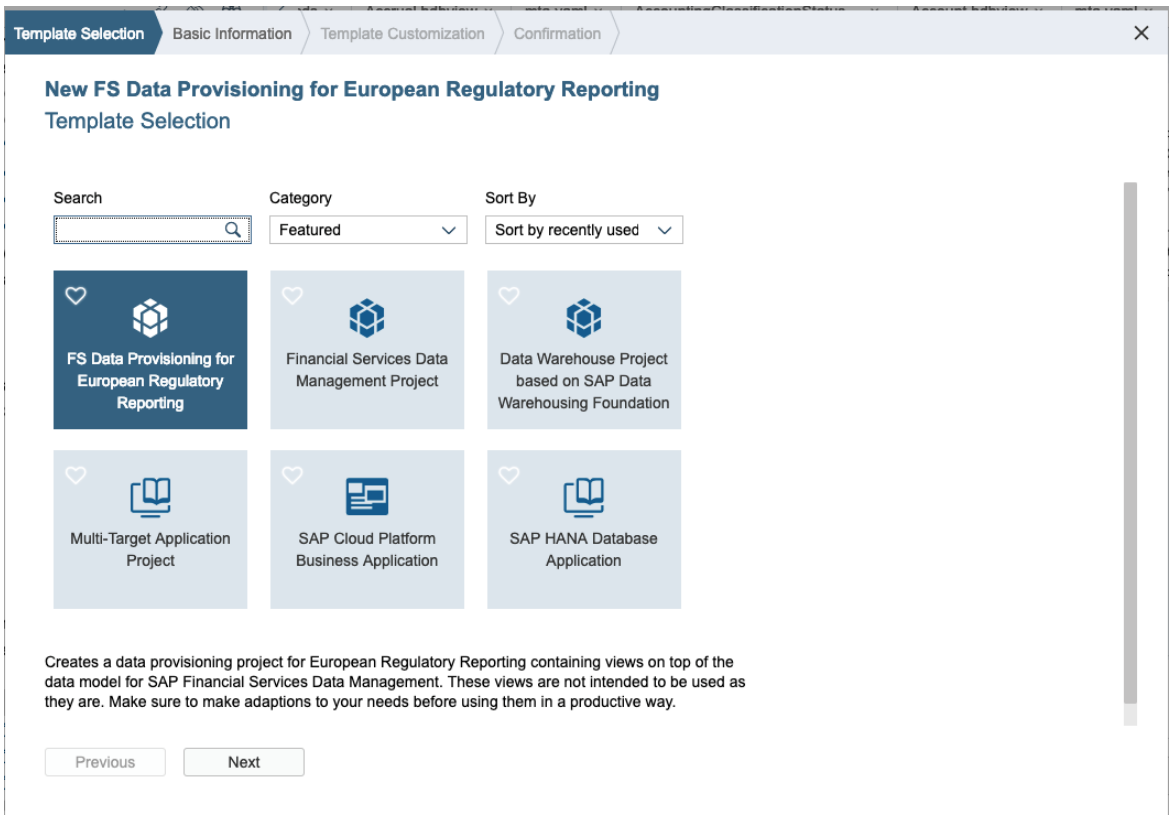
You can find an interactive list of the views under Sample Views for European Regulatory Reporting [page 8].

Setting Up the Sample Project

The views for data provisioning for European regulatory reporting are available as part of the software component FSDM DATA MODEL TEMPLATE. You install the template technically as a plug-in for SAP Web IDE. To access the template in the SAP Web IDE application, please follow the description in the administrator's guide under Installing or Upgrading the Template to Use or Extend the Data Model. Proceed in the same way as described there for Financial Services Data Management Project, with the following deviations:

1. In the *Development* section, choose *File* > *New* > *Project from Template*.

2. In the new window, choose the project *FS Data Provisioning for European Regulatory Reporting* and continue with the wizard:



3. After you have created the project, search for your new project on the left side of the *Development* section. Expand the project folder, right-click the subfolder *db* and choose *Build*.
4. Connect the *FS Data Provisioning for European Regulatory Reporting* project container to your *Financial Services Data Management Project* container:
    1. In your *FS Data Provisioning for European Regulatory Reporting* project, go to */mta.yaml* file, right-click, and choose *Open With* > *Code Editor*.
    2. Adapt the */mta.yaml* file according to your needs.

1.1.1 Best Practices

Context

The sample views for European regulatory reporting provide a superset for specific business entries by aggregating data from multiple SAP Financial Services Data Management tables. When a joined subtable has many entries, the results in the views are multiplied by the number of entries in each subtable.

The views for European regulatory reporting do not offer a filtering option for result data:

- Each business case requires a different data subset. To reduce the amount of result data, you can define a correct **WHERE** condition to filter data.
- You have your own values in codelists, and filtering is only possible for shipped codelists. However, these filtering options would prevent you from using your own values.

> Example
>
> - There are 300 simulations in the `NotionalSchedule` table
>   and
> - The `sap.fsdm.content.DataProvisioningForERR::Swap` view includes `NotionalSchedule` in *leg1nots* and *leg2nots*.
>
> The number of result data increases as follows:
>
> **300** (for **leg1nots**) * **300** (for **leg2nots**) = 90,000 results

Procedure

1. Review the specific business scenario and define related filters for each use case.
2. Specify the required columns for each `SELECT` statement based on your business scenario. Avoid defining a `SELECT * FROM ERR_VIEW`.
3. Avoid duplicate entries in the ERR view result by using the `SELECT DISTINCT` statement, which then returns only distinct (different) values.

   You receive a customized and reduced amount of result data along with increased database performance.
4. Follow the Query Optimization Steps: Overview for your SAP HANA setup. Pay special attention on the following sub-steps:
   - Select Pull-Up, Column Removal, Select Pushdown
   - Simplify: Remove Join

1.1.2 Sample Views for European Regulatory Reporting

To create your individual views for data provisioning, you can use the following sample views as templates. For details of the related entities and their definitions, see the diagrams of the conceptual data model represented in SAP PowerDesigner.

Sample Views for European Regulatory Reporting

View	Description
`Account`	The view for accounts contains the master data required for European regulatory reporting for an account contract. This is a generic view that comprises all relevant types of accounts. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Account*. Multiple dependent tables that provide additional information for accounts are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
`Account` (multicurrency)	In case of multicurrency, the following joins first run through the additional *Position Currency of Multicurrency Contract* entity: • *Effective Interest Rate* • *Agreed Limit* • *Interest* • *Scale Interval* • *Applicable Interest Rate*
`Account` (netting)	There is a self-join to the *Financial Contract* table, which is required for accessing additional information for netted contracts such as information about the main account. This information can be found in the *Master Agreement* entity.
`Account` (syndicated)	There is a self-join to the *Financial Contract* table, which is required for accessing additional information for syndicated accounts. This information can be found, for example, in the *Syndicated Contract Identifier* or *Type Of Syndication* attributes in the *Syndication Agreement* or the *Syndication Commitment* entities, respectively.
`Account` (participation in syndication)	If an account is used to fund a participation agreement of a syndication commitment, this is modeled using a financial contract relationship between an account and the participation agreement. This is taken into account by a join between the *Financial Contract* table (account) and the *Financial Contract Relation* table, and a join between the *Financial Contract Relation* table and the *Financial Contract* table (participation agreement). The *Financial Contract* table has more self-joins for accessing further information of the participant syndication commitment and syndication agreement. This information can be found, for example, in the *Syndicated Contract Identifier* or *Type Of Syndication* attributes in the *Syndication Agreement* and the *Syndication Commitment* entities, respectively.
`AccountingEntityGLAccount`	This view provides information about a general ledger (GL) account for an accounting entity. This is derived from the chart of accounts that is applicable to the business area (legal entity) of a company. This view is required for accessing additional information for a GL account for an accounting entity, such as the *Company Code* or *GL Account Currency* attributes.
`AccountPosition`	The view for account positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of accounts. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Account*. Multiple dependent tables that provide transaction data for accounts are joined to the base table.

View	Description
`AccountPosition` (multicurrency)	In case of multicurrency, the joins do not run directly to the entities, but through the additional *Position Currency of Multicurrency Contract* entity.
`AssignedRightAsCollateral`	This view provides information about the assigned rights that are used as collateral. For example, if the obligee of an obligation agrees that another business partner is entitled to receive the proceeds from a financial contract instead of the original obligee, the view shows the relationship between the collateral and the financial contract.
`BankingChannel`	The view for banking channel contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of banking channels. It is built as a star join, based on the *Banking Channel* table. The dependent *Address* table that provides additional information about the address of banking channels of the category *Branch* or *Terminal* is joined to the base table.
`BusinessPartner`	The view for business partners contains the master data required for European regulatory reporting for a business partner contract. This is a generic view that comprises all relevant types of business partner. This view is built as a star join, based on the *Business Partner* table. Multiple dependent tables that provide additional information for the business partner are joined to the base table, which provides basic master data for the financial contract.
`BusinessPartnerContractAssignment`	This view provides information about relationships between financial contracts and business partners. More than one business partner can be assigned to a financial contract, and in most cases these business partners have different roles. For example, for a loan there could be a business partner in the role of *Lender* and one in the role of *Borrower*.
`BusinessPartnerOrganizationalUnitAssignment`	This view provides information about the assignment of business partners to organizational units.
`BusinessPartnerRelation`	This view provides information about relationships between business partners. For example, if one business partner is a shareholder of another business partner, or if one business partner is part of a group of jointly liable business partners.
`BusinessPartnerTradeAssignment`	This view provides information about relationships between trades and business partners. More than one business partner can be assigned to a trade, and in most cases these business partners have different roles. Typical roles in this context are *Buyer* and *Seller*.
`BusinessTransaction`	The view for business transactions contains the required data for European regulatory reporting. It is restricted to business transactions of the category *Payment*. This view is built as a star join, based on the *Settlement* table. The dependent *Transfer Order* table that provides additional information for payments is joined to the base table.
`Card`	The view for cards contains the required data for European regulatory reporting. This view provides information about a software token or a physical object that can be used to engage in transactions. A card is specific to one business partner and can be lost individually.
`CashFlowStream`	The view for cash flows contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of cash flows. This view is based on the *Cash Flow Stream* table.

View	Description
Collateral	The view for collateral contains the master data required for European regulatory reporting for a collateral contract. This is a generic view that comprises all relevant types of collateral. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Collateral*. Multiple dependent tables that provide additional information for collateral are joined to the base table, which provides basic master data for the financial contract. This view enables you to represent simple and combined collateral. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
CollateralComponentIDs	This view provides only the IDs of the related collateral agreement, collateral (simple or combined), and portions. It gives an overview of the representation of complex collateral agreements. To obtain specific results and amounts, you can join other views like the *Collateral* view.
CollateralDistributionResult	This view provides information about the result of the process to determine the available collateral for each collateral portion (set of covered exposures) and then the distribution of the available collateral for each set to the individual covered exposures in the set.
CollateralPool	The view for collateral pools contains the master data required for European regulatory reporting. This is a generic view that comprises all relevant types of collateral pools. This view is built as a star join, based on the collection table for the collection category *CollateralPool*. Multiple dependent tables that provide additional information for collateral pools are joined to the base table, which provides basic master data for the collateral pool. *Collateral Pool Assignment* is an example of entities.
CollateralPortionContractAssignment	This view provides information about relationships between portions of collateral and the collateralized financial contracts. The portions assigned to a financial contract can be used to cover all the obligations under that particular financial contract.
CollateralPosition	The view for collateral positions contains transactional data required for European regulatory reporting. This is a generic view that comprises all relevant types of collateral. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Collateral*. Multiple dependent tables that provide additional information for collateral are joined to the base table, which provides basic master data for the financial contract.
CollateralPositionHistorical	The view for historical collateral positions contains transaction data required for European regulatory reporting. This view contains the same information as the *CollateralPosition* view and additionally includes columns for the original values based on the version with the lowest *BusinessValidFrom* date.
Collection	The view for collections contains the required data for European regulatory reporting. This is a generic view that comprises the collection of financial assets that defines a portfolio, a trading desk, or a collateral pool. The financial assets are fungible financial instruments, such as securities and derivative contract specifications, financial contracts, and over-the-counter (OTC) derivatives.

View	Description
CollectionRelation	This view provides information about relationships between collections. You can use this view to connect two or more collections with each other. To classify different relationships between the collections, you can differentiate between the *Collection* entity and the *Collection Relation Type* key attribute. You can use this view, for example, to establish a relationship between two collateral pools for when a specific pool does not contain enough assigned assets to cover the assigned financial contract or financial instrument, so that it can receive further assets from a master collateral pool. When you define a collateral pool as the master collateral pool, upstream systems like regulatory reporting systems can distribute the assigned assets from the master collateral pool to the underlying collateral pool as necessary.
Commodity	The view for commodities contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of commodities. This view is based on the *Commodity* table.
CommodityValuationData	The view for valuation data of commodities contains valuations of commodities required for European regulatory reporting. This is a generic view that comprises all relevant types of commodities. This view is based on the *Commodity End Of Day Price Observation* table.
CoveredFinancialContractAssignment	This view provides information about the assignment of the pool of collaterals to a financial instrument, which is an alternative representation of a covered bond. In addition, *Collection* is joined to the base table.
CoveredFinancialInstrumentAssignment	In case of a covered bond, this view provides information about the assignment of the pool of collaterals to the financial instrument that represents the covered bond. In addition, *Collection* is joined to the base table.
CreditDerivative	The view for credit derivatives contains the master data required for European regulatory reporting. This is a generic view that comprises all relevant types of credit derivative. This view is built as a star join, based on the financial contract table for *Credit Derivative*. Multiple dependent tables that provide additional information for credit derivative are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
CreditDerivativePosition	The view for credit derivative positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of credit derivatives. This view is built as a star join, based on the financial contract table for *Credit Derivative*. Multiple dependent tables that provide additional information for credit derivatives are joined to the base table.
CreditRiskAdjustmentAuditing	The view for audited credit risk adjustments contains the required data for European regulatory reporting. This view contains the same information as the *CreditRiskAdjustment* view and additionally includes columns for the values that were valid on the auditing date (the auditing date is an additional input parameter for this view).
CreditRiskExposure	This view represents a key date value that indicates the risk-weighted potential of economic losses from contracts and positions in instruments arising from credit risk.

View	Description
CreditRiskLossGivenDefault	This view provides information about estimation of the loss given default (LGD) for a financial contract and a financial instrument.
CreditRiskProbabilityofDefault	This view provides information about the estimated likelihood that a debtor will default.
DefaultEvent	This view provides information about events that occurred for a business partner, a financial instrument, or a financial contract.
DataReleaseInfo	This view provides information about processes that check and release data for use by subsequent processes.
DueSettlement	This view provides information about due settlement items that contain the obligations arising from a financial contract for a due date or from a position in securities that are due on that date.
Equity	The view for equities contains the master data required for European regulatory reporting. This view provides the relevant data for equity investment contracts that are not based on stocks. Shareholdings based on stocks are modeled as security account balances. This view is built as a star join, based on the financial contract table for *Equity*. Multiple dependent tables that provide additional information for equity investments are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
EquityPosition	The view for equity positions contains transaction data required for European regulatory reporting. This view is built as a star join, based on the financial contract table for the financial contract category *Equity Investment*. Multiple dependent tables that provide additional information for equity positions are joined to the base table, which provides basic master data for the financial contract.
ETDerivative	The view for exchange-traded derivatives contains the master data required for European regulatory reporting. This is a generic view that comprises all relevant types of exchange traded derivative. This view is built as a star join, based on the *Financial Instrument* table for *ExchangeTradedDerivativeCategory = OptionsContractSpecification*, *ExchangeTradedDerivativeCategory = FuturesContractSpecification*, or *SecurityCategory = Warrant*. Multiple dependent tables that provide additional information for exchange traded derivative are joined to the base table, which provides basic master data for the financial instrument. In addition, you have the option to assign single fields using the *Financial Instrument* entity.

View	Description
`ETDerivativeTrade`	The view for exchange-traded derivatives contains data required for European regulatory reporting for open transactions. This is a generic view that comprises all relevant types of derivatives. This view is built as a star join, based on the trade table for *TradeCategory = ListedDerivativeTrade*, *ListedDerivativeTradeCategory = FutureTrade*, or *ListedDerivativeTradeCategory = ListedOptionTrade*. Multiple dependent tables that provide additional information for derivative trades are joined to the base table, which provides basic master data for the financial contract.
`ETDerivativeValuationData`	The view for valuation of exchange-traded derivatives data contains valuations of exchange-traded derivatives required for European regulatory reporting. The valuation is done per unit. This is a generic view that comprises all relevant types of exchange traded derivatives. This view is built as a star join, based on the financial instrument table for *ExchangeTradedDerivativeCategory = OptionsContractSpecification*, *ExchangeTradedDerivativeCategory = FuturesContractSpecification*, or *SecurityCategory = Warrant*. Multiple dependent tables that provide additional information for derivatives are joined to the base table, which provides basic master data for the financial instrument. **i Note** You can retrieve more information about exchange-traded derivatives using the *SecurityAccountBalance* view.
`Facility`	The view for facilities contains the master data required for European regulatory reporting for a facility contract. This is a generic view that comprises all relevant types of facilities. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Facility*. Multiple dependent tables that provide additional information for facilities are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
`Facility` (syndicated)	There is a self-join to the *Financial Contract* table. This self-join is required to access additional information for syndicated facilities such as the *Syndicated Contract Identifier* or *Type Of Syndication* attributes, which are located in the *Syndication Agreement* and the *Syndication Commitment* entities, respectively.
`Facility` (participation in syndication)	If a facility is used to fund a participation agreement of a syndication commitment, this is modeled using a financial contract relation between the facility and the participation agreement. This is taken into account by a join between the *Financial Contract* table (facility) and *Financial Contract Relation* table, and in addition a join between the *Financial Contract Relation* table and the *Financial Contract* table (participation agreement). The *Financial Contract* table has more self-joins for accessing further information of the participated syndication commitment and syndication agreement such as the *Syndicated Contract Identifier* or *Type Of Syndication* attributes in the *Syndication Agreement* and the *Syndication Commitment* entities, respectively.

View	Description
FacilityPosition	The view for facility positions contains transaction data required for the European regulatory reporting. This is a generic view that comprises all relevant types of facilities. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Facility*. Multiple dependent tables that provide additional information for facilities are joined to the base table, which provides basic master data for the financial contract.
FinancialContractContractBundleAssignment	This view represents the assignments of financial contracts to a contract bundle. This helps you to collect all data related to a dedicated contract bundle.
FinancialContractRelation	This view provides information about relationships between financial contracts. For example, when a loan is rolled over, the source contract is the original contract and the target contract is the contract that is rolled over.
FSSubledgerDocument	The view for subledger document contains the master data required for European regulatory reporting. This is a generic view that comprises all relevant types of subledger document. This view is built as a star join, based on the *FS Subledger Document* table. Multiple dependent tables that provide additional information for subledger document are joined to the base table, which provides basic master data for the subledger document.
FXRate	The view for foreign exchange rates contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of exchange rates. This view is based on the *End Of Day Exchange Rate Observation* table.
FXTrade	The view for foreign exchange trades contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of foreign exchange trades. This view is based on the table for *Trade*. The information whether the business partner of the trade is in the role of a seller or a buyer comes from the table *BusinessPartnerTradeAssignment*.
GLAccount	The view for general ledger accounts contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of general ledger accounts. This view is based on the *GL Account* table and on the dependent *GL Document* table. In addition, the *AccountingEntityGLAccount* view is joined to the *GLAccount* view.
GLAccountPosition	The view for positions of general ledger accounts contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of general ledger account positions. This view is based on the *GL Account* and *General Ledger Account Balance* tables.
Index	The view for indexes contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of indexes. This view is based on the *Index* table.
IndexConstituent	This view provides information about the financial instruments that belong to an index. This view is based on the *Index Constituent* table.
IndexValuationData	The view for valuation data of indexes contains valuation data required for European regulatory reporting. This is a generic view that comprises all relevant types of indexes. This view is based on the *End Of Day Index Observation* table.

View	Description
`InstrumentInBasket`	This view provides information about the financial instruments that belong to a basket. This view comprises the information of the *Instrument In Nonweighted Basket* and *Instrument In Weighted Basket* tables.
`InterestAndFeeCalculationResult`	This view provides information about interest and fee calculation results.
`Loan`	The view for loans contains the master data required for European regulatory reporting for a loan contract. This is a generic view that comprises all relevant types of loan, for example, a mortgage loan, consumer loan, or a syndicated loan. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Loan*. Multiple dependent tables that provide additional information for loans are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
`Loan` (syndicated)	There is also a self-join to the financial contract table. This self-join is required for accessing additional information for syndicated loans such as the *Syndicated Contract Identifier* or *Type Of Syndication* attributes in the *Syndication Agreement* or the *Syndication Commitment* entities, respectively.
`Loan` (participation in syndication)	If a loan is used to fund a participation agreement of a syndication commitment, this is modeled using a financial contract relation between the loan and the participation agreement. This is taken into account by a join between the *Financial Contract* (loan) and *Financial Contract Relation* tables, and in addition a join between the *Financial Contract Relation* table and the *Financial Contract* table (participation agreement). The *Financial Contract* table has more self-joins for accessing further information of the participated syndication commitment and syndication agreement such as the *Syndicated Contract Identifier* or *Type Of Syndication* attributes in the *Syndication Agreement* and the *Syndication Commitment* entities, respectively.
`LoanPosition`	The view for loan positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of loan, such as a mortgage loan, consumer loan, or syndicated loan. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Loan*. Multiple dependent tables that provide transaction data for loans are joined to the base table.
`LoanSaleOrPurchaseTransaction`	This view contains the required data for European regulatory reporting for existing loans that are sold to another financial institution or purchased from another financial institution. It is joined to the *BusinessPartnerContractAssignment* view.
`Locking`	This view provides locking information with regards to a referenced object, such as a financial contract, a part of a financial contract, or a general ledger account.

View	Description
`MasterAgreement`	The view for master agreement contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of master agreements. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Master Agreement*. The assignment to the main account only exists, if the master agreement is used for account pooling. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
`MasterAgreement` (netting)	This view also provides the netted contracts covered by the master agreement. For each netted contract the view provides an additional result line exposing *ID* and *Category* of the netted financial contract.
`MortgageRegisterEntry`	The view for mortgage register entries contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of mortgage register entries. This view is based on the *Mortgage Register Entry* table.
`OrganizationalUnit`	The view for the organizational unit contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of organizational units. This view is based on the *Organizational Unit* table.
`OrganizationalUnitContractAssignment`	This view provides information about the specific responsibilities of organizational units for financial contracts.
`OTCDerivative`	The view for OTC derivatives contains the master data required for European regulatory reporting. This is a generic view that comprises all relevant types of OTC derivative. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *OTC Derivative*. Multiple dependent tables that provide additional information for OTC derivatives are joined to the base table, which provides basic master data for the financial contract. In addition, you can assign single fields using the *Reference Rate* or *Financial Instrument* entities. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
`OTCDerivativePosition`	The view for OTC derivative positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of OTC derivative. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *OTC Derivative*. Multiple dependent tables that provide additional information for OTC derivative positions are joined to the base table, which provides basic master data for the financial contract.
`PaymentSchedule`	The view for payment schedule contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of payment schedules. It is built as a join, based on the *Payment Schedule* table. The dependent *Payment List Entry* table that provides additional information of the category *Payment List* is joined to the base table.

View	Description
PhysicalAsset	The view for physical assets contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of physical asset. This view is built as a star join, based on the *Physical Asset* table. Multiple dependent tables that provide additional information for physical assets are joined to the base table, which provides basic master data for the physical asset.
PhysicalAssetPosition	The view for physical asset positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of physical assets. This view is built as a star join, based on the *Physical Asset* table. Multiple dependent tables that provide transaction data for physical assets are joined to the base table.
PhysicalAssetPositionHistorical	The view for historical physical asset positions contains transaction data required for European regulatory reporting. This view contains the same information as the *PhysicalAssetPosition* view and additionally includes columns for the original values based on the version with the lowest *BusinessValidFrom* date.
PledgedFinancialInstruments	This view provides information about the assignment of pledged financial instruments to pledged objects. You can use this view if the pledged financial instruments are held at a third party and also if they are held in a separate account in SAP Financial Services Data Management. This view is based on the *Pledged Financial Instruments* table that assigns pledged financial instruments to a pledged object and thus also to the corresponding collateral agreement of category *Pledge*. To cover the case that the financial instruments are held in an account that is represented in SAP Financial Services Data Management, the relevant account identification is read from the *Pledged Object* entity.
RateValuationData	The view for valuation data of reference interest rates contains valuations of reference interest rates required for European regulatory reporting. This is a generic view that comprises all relevant types of reference interest rates. This view is based on the *End Of Day Rate Observation* table.
Rating	The view for ratings contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of rating. This view is built as a star join, based on the *Rating* table. The dependent *Geographical Unit* and *Eligible Rating Method* tables are joined to the base table and provide additional information.
ReceivableBusinessPartnerAssignment	This view contains the assignment of business partners to receivables required for European regulatory reporting.
Receivables	This view contains information about the legal obligation of a business partner (*Obligor*) to provide money or financial instruments to another business partner (*Obligee*).
ReferenceRate	This view contains the reference rates required for European regulatory reporting.
RegulatoryIndicatorForFinancialContract	This view contains the indicators required for the correct treatment of financial contracts in the context of European regulatory reporting.

View	Description
RegulatoryIndicatorForFinancialInstrument	This view contains the indicators required for the correct treatment of financial instruments in the context of European regulatory reporting.
RegulatoryIndicatorForPaymentItem	This view contains the indicators required for the correct treatment of payment items in the context of European regulatory reporting.
RepurchaseAgreement	The view for repurchase agreement contains the required data for European regulatory reporting. This is a generic view that comprises all relevant types of repurchase agreements. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Repurchase Agreement*. It also represents reverse repurchase agreements. If the contract needs to be handled as repurchase agreement or reverse repurchase agreement depends on the position of the lender or borrower. In addition, you have the option to assign single fields using the *Financial Instrument* entity. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
RepurchaseAgreementPosition	The view for repurchase agreement positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of repurchase agreements. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Repurchase Agreement*. Multiple dependent tables that provide additional data for repurchase agreements are joined to the base table, which provides basic master data for the financial contract.
ResultGroup	This view provides information about a group of results that were created in one calculation. This view can provide additional granularity for calculation results, for example, credit risk exposure results, and is relevant if more than one calculation was done for the same business date.

View	Description
SecuritiesLending	The view for securities lending contains the master data required for European regulatory reporting for securities lending transactions. This is a generic view that comprises all relevant types of securities lending especially collateral swaps. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Securities Lending*. Multiple dependent tables that provide additional information for securities lending are joined to the base table, which provides basic master data for the financial contract. You can assign additional data to this view: • You can use the *FinancialInstrument*, *_FinancialInstrument_*, or *FinancialInstrumentID*, to link to the borrowed security. • You can use the *FinancialInstrumentID* to retrieve detailed data of the underlying security using the data provisioning view for securities. • In case of a collateral swap you can use *LentFinancialInstrument*, *_FinancialInstrument_*, or *FinancialInstrumentID* to link to the lent security. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
SecuritiesLendingPosition	The view for securities lending positions contains transactional data required for European regulatory reporting. This is a generic view that comprises all relevant types of securities lending. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Securities Lending*. Multiple dependent tables that provide additional information for securities lending are joined to the base table, which provides basic master data for the financial contract.
Security	The view for securities contains the master data required for European regulatory reporting for a security. This is a generic view that comprises all relevant types of securities, including exchange traded derivatives. This view is built as a star join, based on the *Financial Instrument* table for the financial instrument category *Security* or *Basket*. Multiple dependent tables that provide additional information for securities are joined to the base table, which provides basic master data for the financial instrument.
SecurityAccountBalance	The view for security account balances contains the data required for European regulatory reporting for a security. This is a generic view that comprises all relevant types of securities balance. This view is built as a star join, based on the *Securities Balance* table. Multiple dependent tables that provide additional information for securities are joined to the base table, which provides basic master data for the financial contract. **i Note** The **SecurityAccountBalance** view contains the data of settled trades only. You can find information about open transactions in the **SecurityTrade** view.

View	Description
SecurityTrade	The view for security trade contains data required for European regulatory reporting for open transactions. This is a generic view that comprises all relevant types of security trade. This view is built as a star join, based on the *Trade* table for the trade category *Security Trade*. Multiple dependent tables that provide additional information for security trade are joined to the base table, which provides basic master data for the financial contract.
SecurityValuationData	The view for security valuation data contains valuations of a security required for European regulatory reporting. The valuation is done per unit. This is a generic view that comprises all relevant types of securities. This view is built as a star join, based on the *Financial Instrument* table for the financial contract category *Security*. Multiple dependent tables that provide additional information for securities are joined to the base table, which provides basic master data for the financial contract.
Swap	The view for swaps contains the master data required for European regulatory reporting for a swap. This is a generic view that comprises all relevant types of swaps. This view is built as a star join, based on the *Financial Contract* table for the OTC derivative contract categories *FX Swap* or *Interest Bearing Swap*. Multiple dependent tables that provide additional information for swaps are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
SwapPosition	The view for swap positions contains transaction data required for the European regulatory reporting. This is a generic view that comprises all relevant types of swaps. This view is built as a star join, based on the *Financial Contract* table for *OTCDerivativeContractCategory = FXSwap* or *OTCDerivativeContractCategory = InterestBearingSwap*. Multiple dependent tables that provide additional information for swaps are joined to the base table.
Swaption	The view for swaptions contains the master data required for European regulatory reporting for a swaption contract. This is a generic view that comprises all relevant types of swaptions. This view is built as a star join, based on the *Financial Contract* table for *OTCDerivativeContractCategory = Swaption*. Multiple dependent tables that provide additional information for swaptions are joined to the base table, which provides basic master data for the financial contract. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
SwaptionPosition	The view for swaption positions contains transaction data required for European regulatory reporting. This is a generic view that comprises all relevant types of swaptions. This view is built as a star join, based on the *Financial Contract* table for the OTC derivative contract category *Swaption*. Multiple dependent tables that provide additional information for swaptions are joined to the base table, which provides basic master data for the financial contract.

View	Description
SyndicationAgreement	This view provides the hierarchical structure of a syndication as a flat list. It comprises for each syndication agreement the related syndication commitments, syndicated credits (asset contracts), participation agreements, and assigned funding credits (liability contracts). For syndication agreement, syndication commitment and participation agreement additional attributes are provided such as *Syndicated Contract Identifier*, *Type Of Syndication* or *Form Of Participation*. For syndicated credits and funding credits only the *ID*s and the *Financial Contract Category* are provided. Further information regarding these contracts may be accessed using the corresponding views for account, facility, or loan. Simulated financial contracts that are created for plan budget and forecast scenarios are excluded from this view.
SyndicationAgreementPosition	The view for syndication agreement positions contains transaction data required for European regulatory reporting. This view is built as a star join, based on the *Financial Contract* table for the financial contract category *Syndication Agreement*. The dependent *Monetary Balance* table that provides the outstanding principal is joined to the base table.
WriteDownAmountAuditing	The view for audited write-down amounts contains the required data for European regulatory reporting. This view contains the same information as the *WriteDownAmount* view and additionally includes columns for the values that were valid on the auditing date (the auditing date is an additional input parameter for this view).

1.2 Data Provisioning for Subledger Accounting

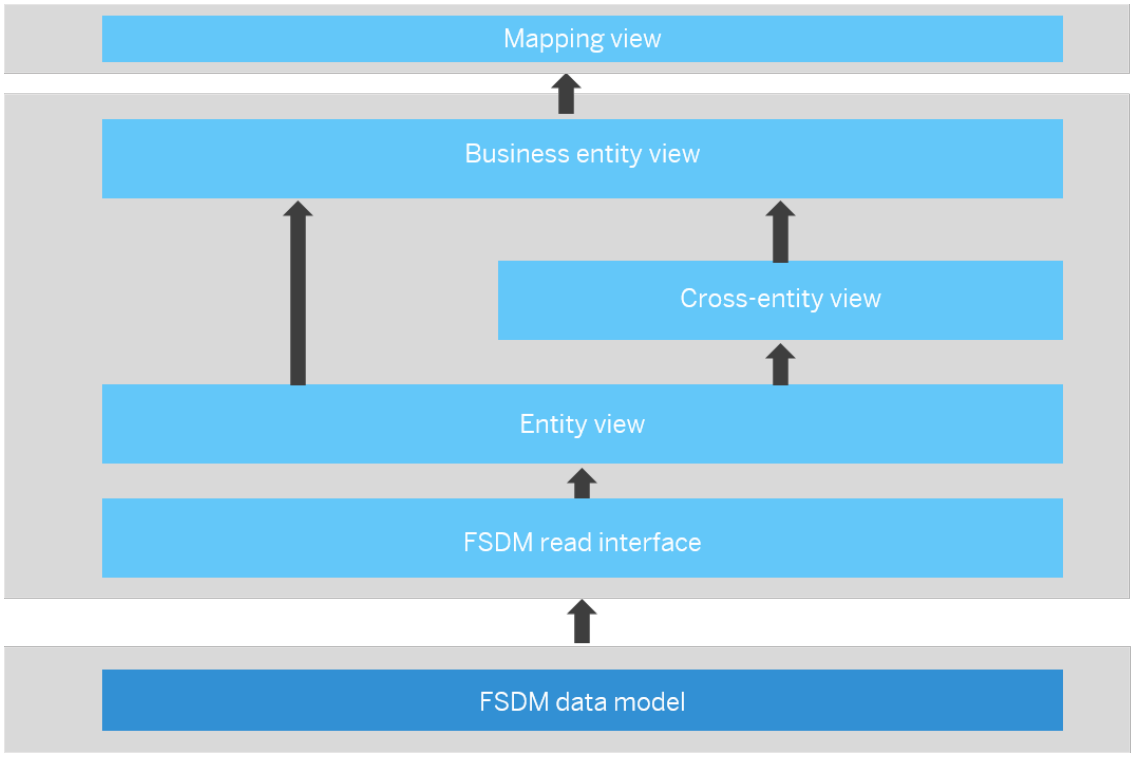
The sample content for SAP Financial Services Data Management provides views on top of the data model to support your data provisioning for subledger accounting for loans, accounts, securities, and over-the-counter (OTC) derivatives. You need to adapt these views individually to enable productive use, otherwise they cannot be used for subledger accounting. They help you to configure your system in a way that enables you to create your individual reporting views.

We recommend that you store all views related to each data provisioning topic in a separate container. This allows you to control security settings for all these views centrally on container level, which makes the setup much easier. This supports you also in fulfilling legal requirements as you can specify that all data stored in this container is related to the special purpose of this data provisioning topic.

Integration

These sample views are intended to be used for the connection between SAP Financial Services Data Management and any product you use for subledger accounting. The entities relevant for subledger accounting and their categorization have been taken from SAP S/4HANA for financial products subledger, assuming that any subledger implementation needs the same business information, just in a different format.

The following figure shows the integration view layer in SAP Financial Services Data Management:



> **i** Note
>
> In a scenario for integration with any subledger system, it is necessary to consider interface specifics of the target application interfaces.
>
> For integration with SAP S/4HANA for financial products subledger, the following needs to be taken into account:
>
> - **Object ID length**
> In SAP S/4HANA for financial products subledger, the data model defines contract IDs of 40 characters, whereas in SAP Financial Services Data Management, contract IDs have up to 128 characters. You find more information to deal with this difference in SAP note 2868940.
>
> For more information about SAP S4/HANA for financial products subledger, see the SAP Help Portal at https://help.sap.com/s4fpsl.

Overview of The Views

Multiple sample views for the following topics are currently available:

- Business Partner
- Financial Contract
- Financial Instruments (for example, securities)
- Key Figures
- Settlement

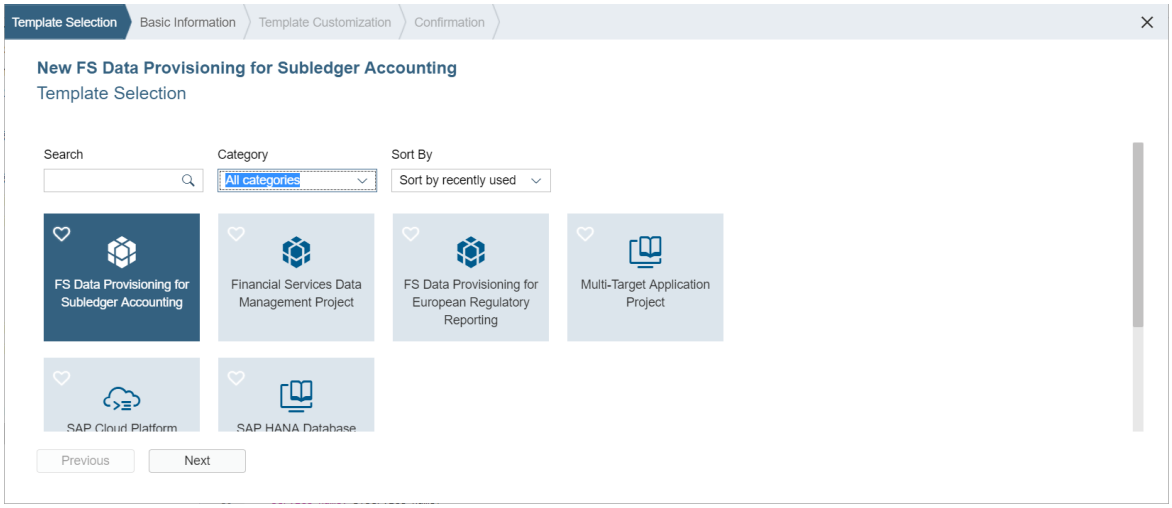
- Market Data

> **i Note**
>
> Views without parameters are used to enable more than one version to be returned. For more information, see Operations Information.

Setting Up the Sample Project

The views for data provisioning for subledger accounting are available as part of the software component FSDM DATA MODEL TEMPLATE. You install the template technically as a plug-in for SAP Web IDE. To access the template in the SAP Web IDE application, please follow the description in the administrator's guide under Installing or Upgrading the Template to Use or Extend the Data Model. Proceed in the same way as described there for SAP Financial Services Data Management project with the following deviations:

1. Go to the *Development* section and choose *File* > *New* > *Project from Template*.
2. In the new window, choose the project *FS Data Provisioning for Subledger Accounting* and continue with the wizard:



3. After you have created the project, search for your new project on the left side of the *Development* section. Expand the project folder, right-click the subfolder *db*, and choose *Build*.
4. Connect the *FS Data Provisioning for Subledger Accounting* project container to your *Financial Services Data Management Project* container:
    1. In your *FS Data Provisioning for Subledger Accounting* project, go to the */mta.yaml* file, right-click, and choose *Open With* > *Code Editor*.
    2. Adapt the */mta.yaml* file according to your needs.

More Information

SAP Note 2785178

1.2.1 Sample Views for Subledger Accounting

To create your individual views for data provisioning, you can use the following sample views as templates. For details of the related entities and their definitions, see the diagrams of the conceptual data model represented in SAP PowerDesigner.

Filters are built into some views to reduce the volume of data to only relevant transactions.

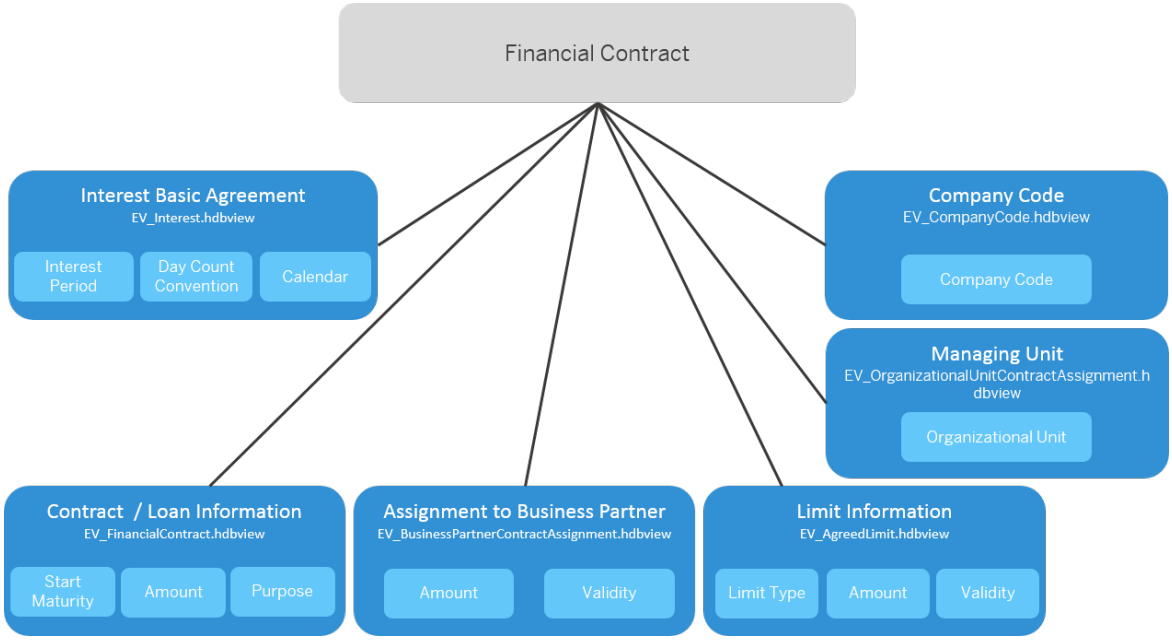
Integration Topic	Entity Views	Cross Entity Views	Business Entity Views	Mapping Views
Financial Contract		CV_ContractChangedVersionBusinessDates		
Financial Contract	EV_AgreedLimit		BV_Limits	Limits
Financial Contract	EV_BusinessPartnerContractAssignment		BV_ContractPartnerData	PartnerData
Financial Contract	EV_CompanyCode	CV_CompanyCode		
Financial Contract	EV_FinancialContract	CV_FinancialContract	BV_ContractData	BasicData
Financial Contract	EV_Interest	CV_Interest		
Financial Contract		CV_InterestForStructured		
Financial Contract	EV_NotionalScheduleForStructured	CV_NotionalScheduleForStructured		
Financial Contract	EV_OrganizationalUnitContractAssignment	CV_OrganizationalUnitContractAssignment		
Financial Contract	EV_ProductCatalogAssignment	CV_ProductCatalogAssignment		
Financial Contract	EV_MonetaryBalance	CV_MonetaryBalance		
Financial Contract	EV_TrancheInSyndication		BV_ContractRelationsData	ContractRelations
Financial Contract	EV_TrancheInSyndication		BV_ContractRelationsDataTrancheInSyndication	
Financial Contract	EV_MasterAgreementContractAssignment		BV_ContractRelationsDataMasterAgreement	
Hedge Accounting	EV_CollateralPoolAssetAssignment		BV_CollateralPoolAssetAssignment	

Integration Topic	Entity Views	Cross Entity Views	Business Entity Views	Mapping Views
Hedge Accounting	EV_Collection		BV_Collection	
Key Figure	EV_AccountingClassificationStatus		BV_AccountingClassificationStatus	AccruingStatus, WriteDownStatus, Classification, MarketConformityStatus, TermSegment
Key Figure	EV_AccountingClassificationStatus		BV_AccountingClassificationStatusInstrumentPerPosition	ImpairmentStatus
Key Figure	EV_Accrual		BV_Accrual	InterestAccruals
Key Figure	EV_AmortizedCost		BV_AmortizedCost	AmortizedCost
Key Figure	EV_AmortizedValuationCost		BV_AmortizedValuationCost	
Key Figure	EV_CashFlowStream		BV_CashFlowStream	ContractualCashFlow
Key Figure	EV_CollateralDistributionResults		BV_FairValueOfCollateral	FairValueForCollateral
Key Figure	EV_CreditRiskAdjustment		BV_CreditRiskAdjustment	CreditRiskAdjustment
Key Figure	EV_CreditRiskExposureAtDefault		BV_CreditRiskExposureAtDefault	CreditConversionFactor
Key Figure	EV_CreditRiskLossGivenDefault		BV_CreditRiskLossGivenDefault	CreditRiskLossGivenDefault
Key Figure	EV_CreditRiskProbabilityOfDefault		BV_CreditRiskProbabilityOfDefault	CreditRiskProbabilityOfDefault
Key Figure	EV_DaysPastDue		BV_DaysPastDue	DaysPastDue
Key Figure	EV_DeferralCalculatedResult		BV_DeferralCalculatedResult	Deferrals
Key Figure	EV_FairValue		BV_FairValue	FairValue
Key Figure	EV_InstrumentAccruedInterest		BV_AccruedInterest	AccruedInterest

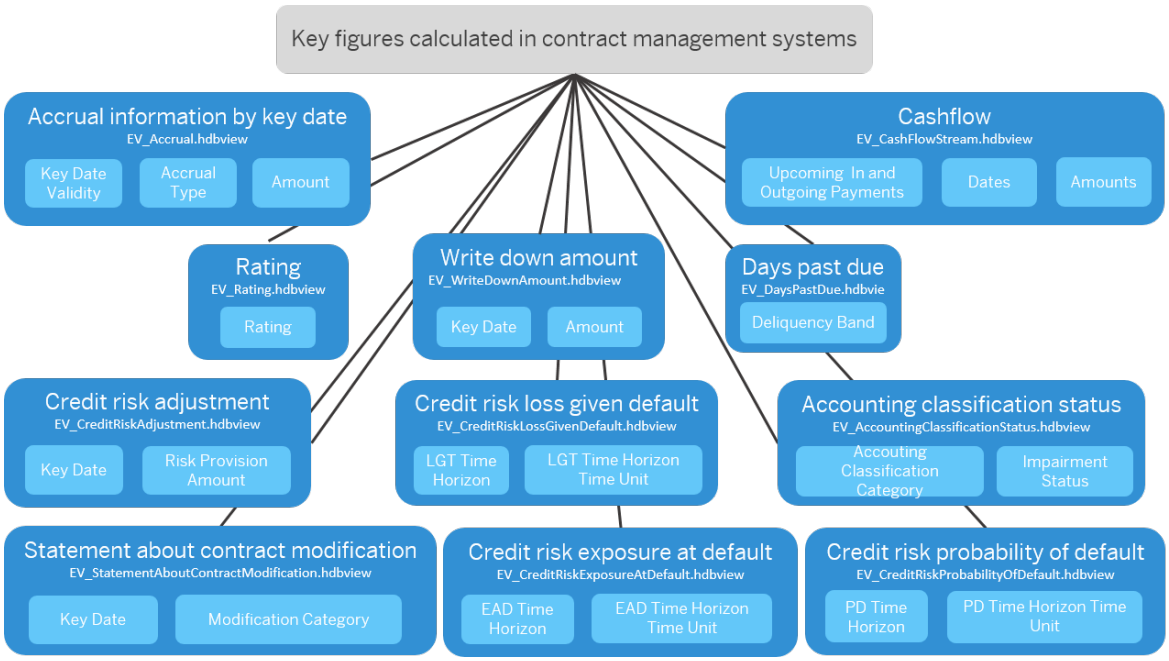
Integration Topic	Entity Views	Cross Entity Views	Business Entity Views	Mapping Views
Key Figure	EV_InterestRateRiskAdjustment		BV_InterestRateRiskAdjustment	InterestRateRiskAdjustments
Key Figure	EV_PriceGain		BV_PriceGain	PriceGain
Key Figure	EV_Rating		BV_Rating	MasterRating
Key Figure	EV_StatementAboutContractModification		BV_StatementAboutContractModification	StatementAboutContractModification
Key Figure	EV_WriteDownAmount		BV_WriteDownAmount	WriteDownAmount
Securities	EV_BusinessPartner		BV_SecurityPartnerData	SecuritiesPartnerData
Securities	EV_CompanyCode	CV_CompanyCodeForSecurity		
Securities	EV_Interest	CV_InterestForSecurity		
Securities	EV_ProductCatalogAssignment	CV_ProductCatalogAssignmentForSecurity		
Securities	EV_Security	CV_Security	BV_SecurityData	SecuritiesBasicData
Securities		CV_SecurityChangedVersionBusinessDates		
Securities	EV_InstrumentAtExchange	CV_InstrumentsAtExchange		
Securities Account	EV_FinancialContract		BV_SecuritiesAccount	SecuritiesAccountBasicData
Settlement	EV_Settlement	CV_Settlement	BV_Settlement	BusinessTransactions
Market Data	EV_EndOfDayExchangeRateObservation		BV_EndOfDayExchangeRateObservation	ExchangeRates
Market Data	EV_EndOfDayPriceObservation		BV_EndOfDayPriceObservation	SecurityPrices
Subledger Document	EV_FSSubledgerDocument		BV_FSSubledgerDocument	PreliminarySubledgerDocuments

Examples in Graphic View

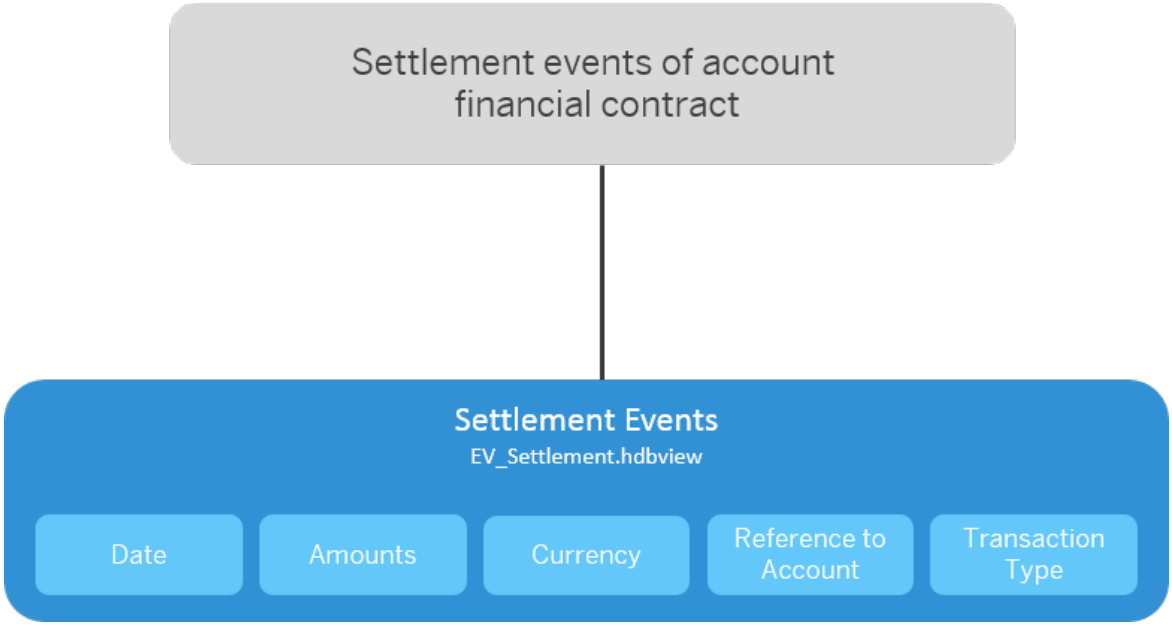
- Financial Contract



- Key Figures



- Settlement



1.2.2 Mapping Tables

The mapping views use mapping tables to make value mapping more flexible. This applies to all fields where you can either replace values in the value range or add your own values to it using customizing settings in SAP S/4HANA for financial products subledger.

> **Example**
>
> SAP delivers a sample mapping in the mapping table MAP_FSDM_TransactionType. This is a mapping of FSDM codelist values to values in the FPSL business content for transaction types. You can add to or replace this mapping with additional entries that each have one or more source values and a target value.

1.2.3 Filter Options

SAP Financial Services Data Management enables you to store your company data in one single source and use it as a central storage for different cases, such as data provisioning to SAP S/4HANA for financial products subledger. However, not all data stored in SAP Financial Services Data Management is relevant for SAP S/4HANA for financial products subledger. The scope of relevant data is defined by the views offered in the sample content. Within certain views, you can filter data that is not relevant for SAP S/4HANA for financial products subledger.

The sample content offers the following filter options.

Fixed Filter on Financial Contract Category Level

Only financial contracts of the following categories are transferred to SAP S/4HANA for financial products subledger by default:

- BankAccount
- CollateralAgreement
- Facility
- FinancingScheme
- Loan
- OTCDerivative
- RepurchaseAgreement
- StructuredProduct
- StructuredProductSubleg
- SyndicationAgreement
- ParticipationAgreement

This fixed filter is implemented in the `BasicDataStructured` and `BasicDataUnstructured` views.

> **i** Note
>
> The same fixed filter applies to the `InterestAccruals` key figure view.

Customizable Filters

The following customizable filters can be applied to transfer data to SAP S/4HANA for financial products subledger:

1. **Global Filter on Collection Level**
   The filter table `FilterCollection` enables you to specify a collection ID in combination with the collection assignment type. Financial contracts and securities assigned to collections entered in the filter table are filtered out during provisioning. This means that **any** data related to such contracts or securities is not provided to SAP S/4HANA for financial products subledger.
2. **Local Filters**
   - **Based on Mapping Tables**
     - Business transactions: Only business transactions with a transaction type listed in the mapping table `MAP_FSDM_TransactionType` are transferred to SAP S/4HANA for financial products subledger.
     - Partner data: Only partner data with a business partner role listed in the mapping table `MAP_FSDM_BusinessPartnerRole` are transferred to SAP S/4HANA for financial products subledger.
     - Financial contracts: Only financial contracts with a lifecycle status listed in the mapping table `MAP_FSDM_LifecycleStatus` are transferred to SAP S/4HANA for financial products subledger.
   - **Based on Filter Tables**
     Filter for accruals based on product catalog item, source system ID, and accrual type: The filter table `FilterAccrual` enables you to specify combinations of product catalog items, source system IDs,

and accrual types to be **filtered out** by the `InterestAccruals` view. You must specify at least the product catalog item when filtering. The other columns can be left **NULL** and are not taken into account for filtering in such a case.

3. **Filters Based on Business Scenarios**
   The customizing table `SyndicatedLoanSwitchConfig` enables you to:
   1. Exclude specific source systems from the syndicated lending filter
   2. Deactivate the filtering function
      You can deactivate the filtering function by setting the value of the *GrossViewOnSyndicatedLoan* field to *TRUE*.
      All financial contracts under a syndicated lending scheme, along with the respective business transactions belonging to source systems for which filtering is deactivated, are not filtered out during provisioning. This means that any data related to such contracts are provided to SAP S/4HANA for financial products subledger.

More Information

- Sample Views for Subledger Accounting [page 25]
- Mapping Tables [page 29]

1.2.4 Data Federation from SAP S/4HANA for Financial Products Subledger

The federation scenario for integration with subledger accounting systems enables you to access the data created by the subledger application without the need for replication. We provide you with federation views as detailed under *More Information*.

SAP Financial Services Data Management contains definitions for data created by subledger applications. It also has its own database tables, which are defined and deployed in an SAP HANA database. This enables the replication of data to SAP Financial Services Data Management. Each replication increases latency between the creation of information and its consumption. To reduce the impact, direct access to the data storage of the subledger application is possible.

As part of the integration with SAP S/4HANA for financial products subledger, we provide views that have the same signature as the object definition in the conceptual data model (CDM), but that directly access the HANA data storage for SAP S/4HANA for financial products subledger. These are federation views. The data access interface (DAI) is used as an interface to SAP S/4HANA for financial products subledger and can be generated there.

> **i Note**
>
> Since the integration between SAP S/4HANA for financial products subledger and SAP Financial Services Data Management focuses on accounting, SAP Financial Services Data Management assumes only the business purpose **`accounting`**. This information is not federated to SAP Financial Services Data Management. If you use these federation views, you need to do this in accordance with the specific purpose

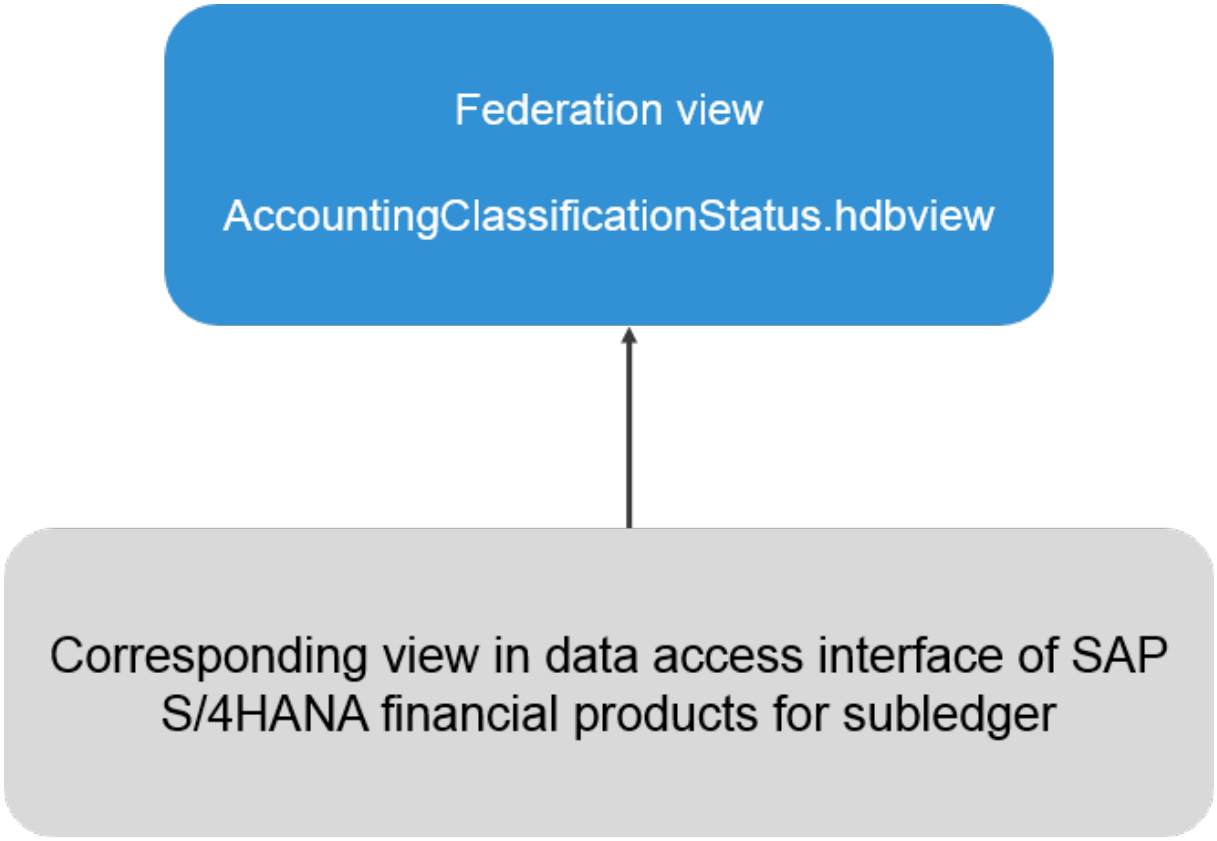
of SAP S/4HANA for financial products subledger. The data access interface does not deliver information about reaching the end of purpose date in the source system.

More Information

- Accounting Classification Status [page 32]
- Subledger Document [page 33]
- For more information about SAP S/4HANA for financial products subledger, see SAP Help Portal at https://help.sap.com/s4fpsl.

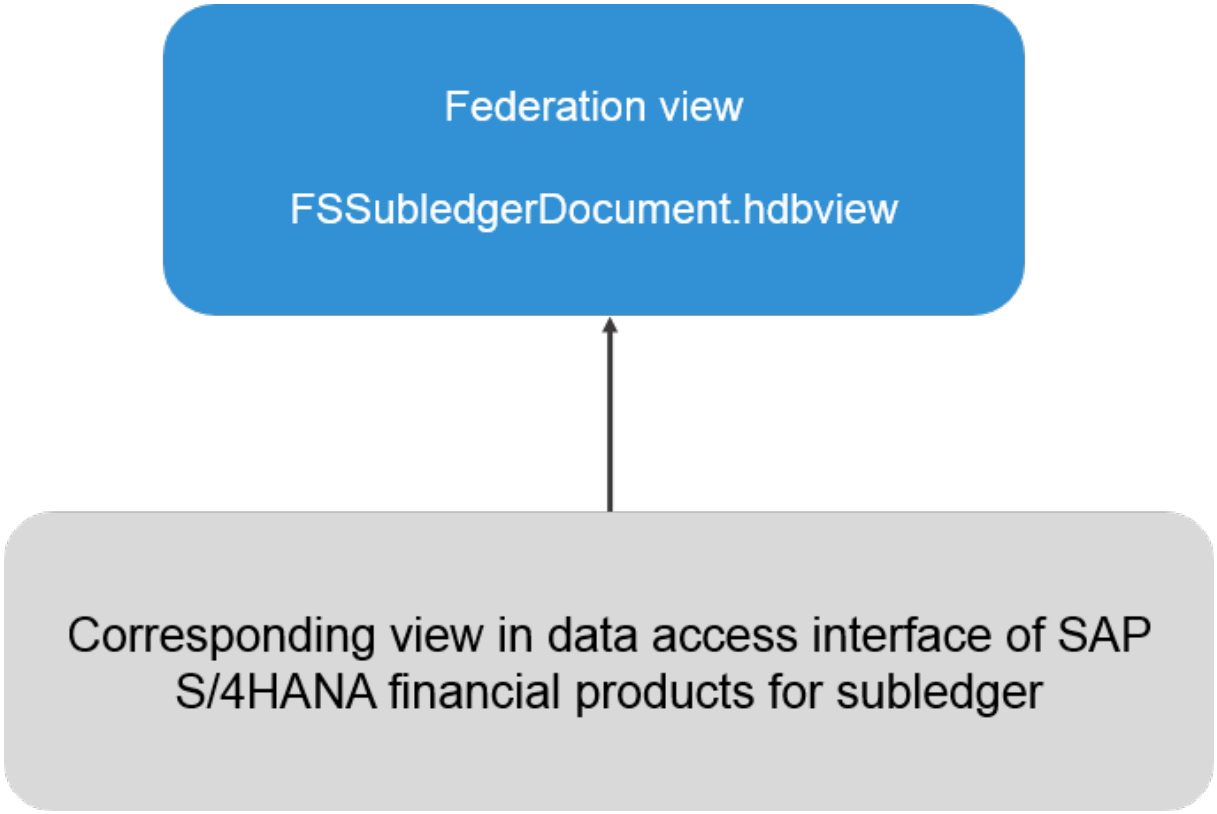
1.2.4.1 Accounting Classification Status

To expose the SAP S/4HANA for financial products subledger (FPSL) results data in SAP Financial Services Data Management, you can use the following view, which reads the data from the corresponding view in the data access interface in FPSL:



1.2.4.2 Subledger Document

To expose the SAP S/4HANA for financial products subledger results data in SAP Financial Services Data Management, you can use the following view, which reads the data from the corresponding view in the data access interface in FPSL:



1.3 Data Provisioning for SAP Loans Management (FS-CML)

The sample content for SAP Financial Services Data Management provides an approach for loading data from FS-CML to FSDM. Mapping between the two systems for a small subset of data (loan contract data and transactional data) is used to exemplify how you can implement data transformation (such as value mapping, or data type conversion) in a mapping and ingestion procedure.

In inbound integration, the source views are available in the SAP Loans Management (FS-CML) system. We recommend that you store the FSDP data provisioning container (containing integration content such as views for status management, flowgraphs, staging tables, and database triggers) separately from the FSDM data model container as facilitated by separate WebIDE project templates for data provisioning and the data model respectively.

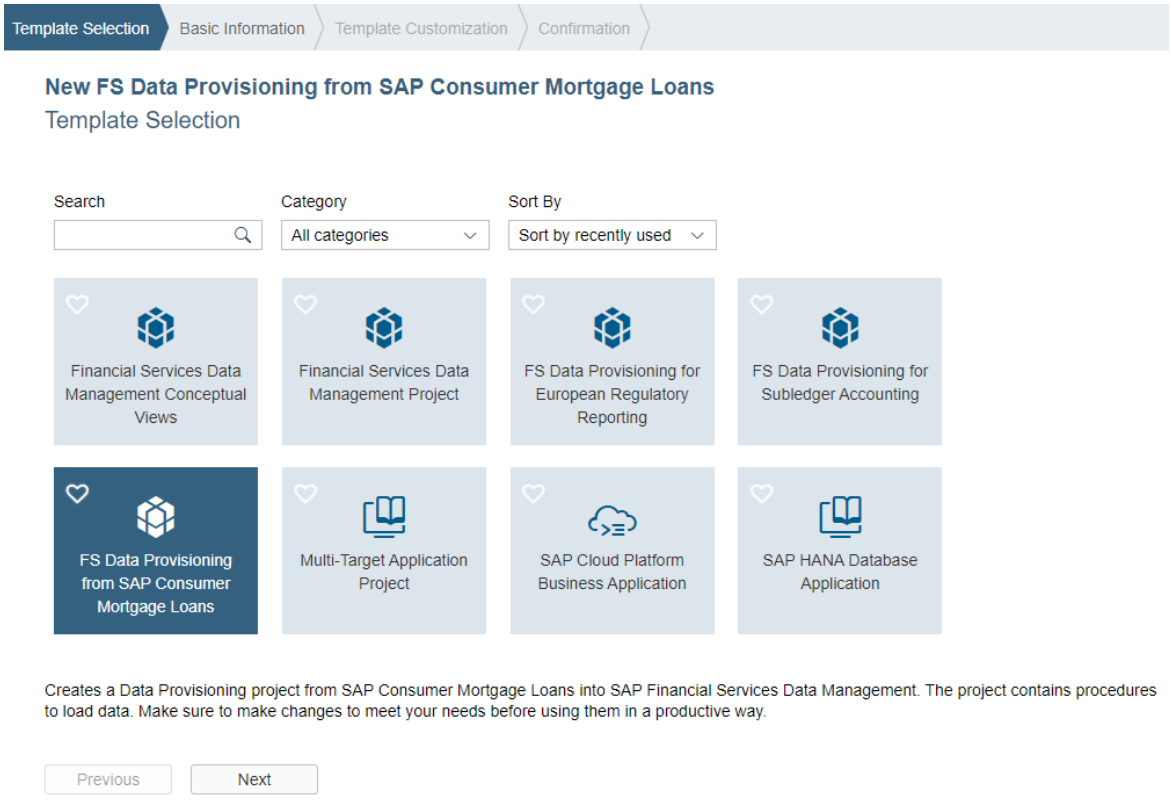
Integration

FS-CML provides ABAP CDS views for data extraction from the operational system. The data integration is based on the change data capture (CDC) functionality implemented for ABAP Core Data Services views (ABAP CDS views) which can be consumed via the SDI ABAP adapter. Operational data provisioning (ODP) is used to connect a SAP S/4HANA system as the source system to SAP FSDM. The ABAP CDS views allow extraction using the analytics annotations. With the required analytical annotations, the ABAP CDS views can be used for the full extraction or for the delta extraction of data. The CDC delta mechanism extracts only new, changed or deleted records. For more information about the ABAP adapter, see SAP ABAP Adapter.

The same infrastructure supports both **real-time** and **batch** loading. SDI flowgraphs (real-time or batch type) are used to extract data from FS-CML ABAP CDS views (through virtual tables) into a staging area (temporary tables). A database trigger then performs data transformation (mapping and ingestion) to load the data into SAP Financial Services Data Management.

Setting Up the Sample Project

1. In *Development* area in SAP Web IDE, import the FSDM-CML template into the workspace by choosing *File* > *New* > *Project from Template*.
2. Select the template *FS Data Provisioning from SAP Consumer Mortgage Loans* and choose *Next*.



3. For the further steps follow the description in the SAP Note 2837614.

1.4 Data Provisioning for SAP Business Partner (SAP S/4HANA)

The sample content for SAP Financial Services Data Management provides an approach for loading business partner data from SAP S/4HANA to FSDM. Mapping between the two systems for a small subset of data is used to exemplify how you can implement data transformation (such as value mapping, or data type conversion) in a mapping and ingestion procedure.

In inbound integration, the source views are available in the Business Partner S/4HANA system. We recommend that you store the FSDP data provisioning container (containing integration content such as views for status management, flowgraphs, staging tables, and database triggers) separately from the FSDM data model container as facilitated by separate WebIDE project templates for data provisioning and the data model respectively.

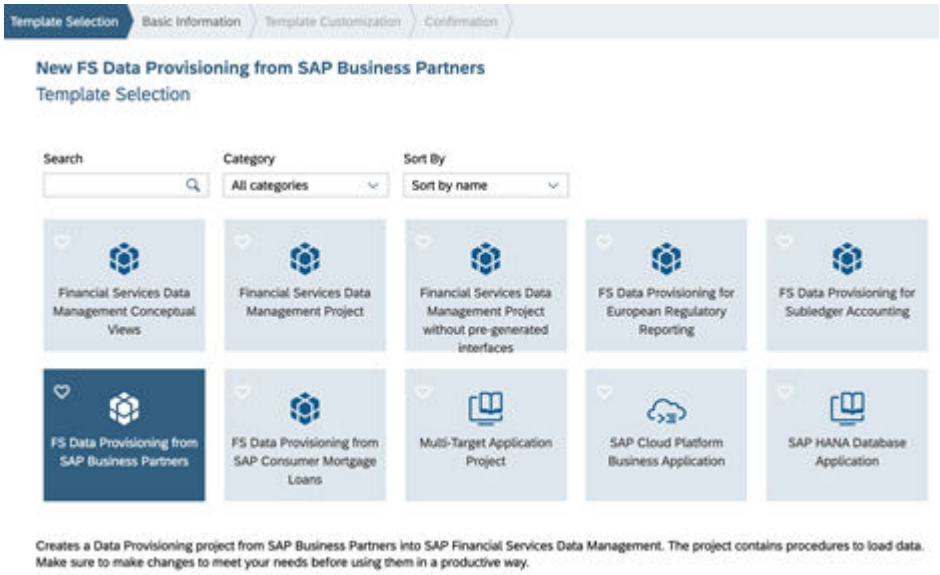
Integration

SAP S/4HANA provides ABAP CDS views for data extraction from the operational system. The data integration is based on the change data capture (CDC) functionality implemented for ABAP Core Data Services views (ABAP CDS views), which can be consumed via the SDI ABAP adapter. Operational data provisioning (ODP) is used to connect a SAP S/4HANA system as the source system to SAP FSDM. The ABAP CDS views allow extraction using the analytics annotations. With the required analytical annotations, the ABAP CDS views can be used for the full extraction or for the delta extraction of data. The CDC delta mechanism extracts only new, changed, or deleted records. For more information about the ABAP adapter, see SAP ABAP Adapter.

The same infrastructure supports both **real-time** and **batch** loading. SDI flowgraphs (real-time or batch type) are used to extract data from ABAP CDS views (through virtual tables) into a staging area (temporary tables). A database trigger then performs data transformation (mapping and ingestion) to load the data into SAP Financial Services Data Management.

Setting Up the Sample Project

1. In the *Development* area in SAP Web IDE, import the FSDM-BP template into the workspace by choosing *File* > *New* > *Project from Template*.
2. Select the template *FS Data Provisioning from SAP Business Partner* and choose *Next*.



3. For the remaining steps, follow the description in the SAP Note 3017695.

1.4.1 Sample Views for Business Partner for Financial Services (SAP S/4HANA)

To create your individual views for data provisioning, you can use the following sample views as templates. For details of the related entities and their definitions, see the diagrams of the conceptual data model represented in SAP PowerDesigner.

Unlike SAP Financial Services Data Management views for outbound integration (for example, for the integration of SAP S/4HANA for financial products subledger, and ERR views), the views used in inbound integration (for example, for the integration of SAP Loans Management for Banking, SAP S/4HANA edition or Business Partner for Financial Services) are created in the source system, not in the Financial Services Data Platform (FSDP) system. The business partner views described below are ABAP CDS views created on business partner tables in the business partner source system. These source views are then consumed (to access data from the remote source system in the FSDP system to load data into SAP Financial Services Data Management tables using, for example, flowgraphs, procedures, triggers, and staging tables) in the FSDP integration content.

We provide standard CDS views and you need to create wrapper views on top of the standard business partner views for consumption in FSDP integration content. For more information, see SAP Note 3017695.

The following standard ABAP CDS views for Business Partner for Financial Services (S/4HANA) are used:

- `I_BusinessPartner`
- `I_BusinessPartnerAddressUsage`
- `I_BPFinancialServicesExtn`
- `I_BPEmployment`
- `I_BusinessPartnerRating`

- I_BPCreditWorthiness
- I_BusinessPartnerIndustry
- I_ILMDataPrivacyNotification
- I_BuPaIdentification

You can extract business partner relationship data from table **BUT050** (BP relationships/role definitions: General data) by manually creating a custom CDS view for consumption in the integration content.

You create CDC-enabled ABAP CDS views in a Business Partner for Financial Services system in S/4HANA. For sample code for creating a CDC-enabled ABAP CDS view in the source system, see SAP Note 3017695.

Sample views for Business Partner for Financial Services

View	Usage	Description	Underlying ABAP CDS View or Database Table
ZI_FSDM_BUSINESSPARTNER_DATA	View for central business partner data	This view provides central BP data.	I_BusinessPartner
ZI_FSDM_BUSINESSPARTNERSTATUS	View for business partner status	This view provides different status and lock data for a business partner.	I_BusinessPartner I_BPCreditWorthiness
ZI_FSDM_OCCUPATION_DATA	View for employment/ occupation data	This view provides the employment and income data of a business partner.	I_BPEmployment I_BPFinancialServicesExtn
Z_ADDRESS_DATA	View for address data	This view provides address data of a business partner.	I_Businesspartneraddressusage I_Address I_BusinessPartner
ZI_FSDM_RATING_DATA	View for rating data	This view provides rating data of a business partner.	I_BusinessPartner
ZI_FSDM_INDUSTRY_CLASS	View for industry data	This view provides industry data of a business partner.	I_BusinessPartnerIndustry

View	Usage	Description	Underlying ABAP CDS View or Database Table
ZI_FSDM_ILMNOTIFICATION	View for ILM notification	This view provides notification of business partner blocking, archiving, and deletion events.	I_ILMDataPrivacyNotification
Z_FSDM_BPRELATION_DATA	View for Business Partner Relation	This view provides relation data of business partner.	ZI_BPRelationship
Z_FSDM_BPIDENTIFICATION	View for Identification data	This view provides identification data of business partner.	I_BuPaIdentification I_BusinessPartner
ZI_FINANCIALSTATEMENTDATA	View for financial statement data	This view provides financial statement data for the business partner.	Table BP021

More Information

For more information about sample code for creating a CDC-enabled ABAP CDS view in the source system, see SAP Note 3017695.

1.5 Conceptual Views for Reporting

This sample content for SAP Financial Services Data Management provides conceptual views for reporting. These sample views are based on the database tables included in the content for SAP Financial Services Data Management.

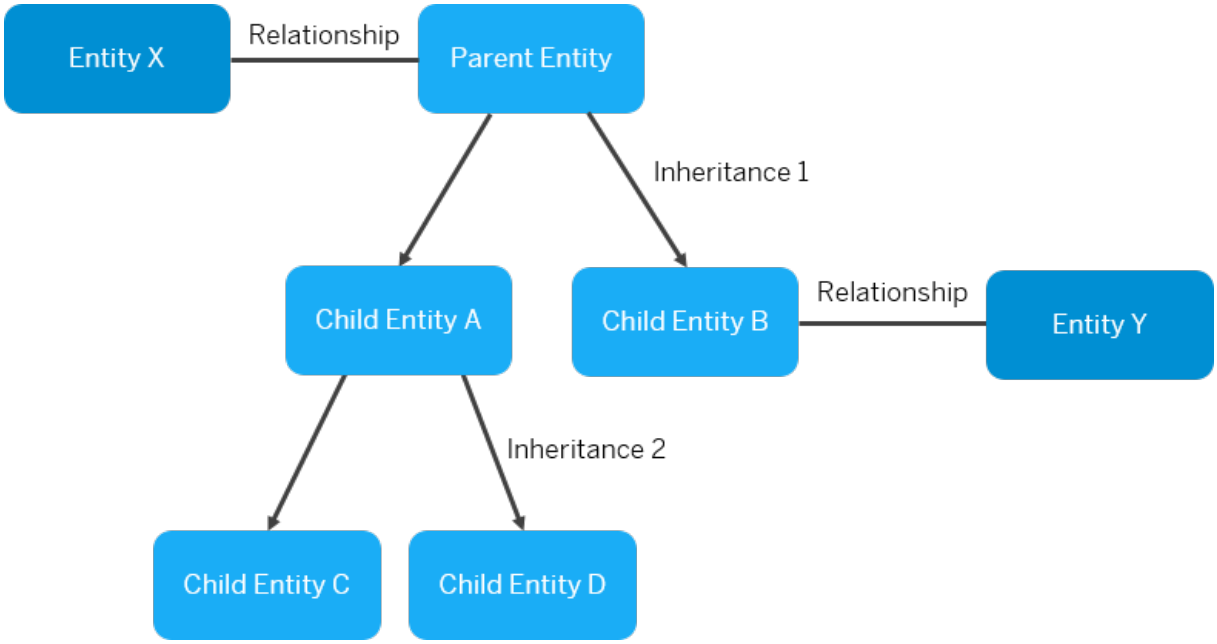
You need to adapt these views individually for any customer extensions done to the data model.

Background

The PDM contains denormalized database tables, which means that fields from multiple CDM entities are put together into a single PDM table. So if we look at a database table, it may not be apparent which fields are related to which conceptual entity.

Conceptual views are projections on top of the read interface, which provide only the fields relevant for the specific entity for which the view is created. Furthermore, there are filter conditions specified in the conceptual view to only provide the relevant data from the underlying table.

The following figure shows a sample CDM:



In this image, *Parent Entity* has two children, *Child Entity A* and *Child Entity B*. *Child Entity A* also has two children, *Child Entity C* and *Child Entity D*. Additionally, *Parent Entity* has a relationship with *Entity X* and *Child Entity B* has a relationship with *Entity Y*.

Conceptual view for *Child Entity A*	• Contains fields from its *Parent Entity*, its own attributes, and fields from its children *Child Entity C* and *Child Entity D*. • Has an association to *Entity X* as the relationship specified at parent level is valid for all of the descendent entities. • Has a filter condition such that only data relevant for *Child Entity A*, *Child Entity C* or *Child Entity D* appears.

Conceptual view for *Child Entity B*	• Contains fields from its *Parent Entity* and its own attributes. • Has an association to *Entity Y* as there is a relationship between *Child Entity B* and *Entity Y*. • Has an association to *Entity X* as there is a relationship defined at parent level. • Has a filter condition such that only data relevant for *Child Entity B* appears.

Overview of Sample Views

The following sample conceptual views are currently available:

Topic	View
Business Partner	IndividualPerson
Business Partner	Group
Business Partner	Organization
Collateral Agreement	AssignedRightAsCollateral
Collateral Agreement	AssignmentOfBusinessInterestAsCollateral
Collateral Agreement	AssignmentOFinancialContractAsCollateral
Collateral Agreement	AssignmentOfReceivableAsCollateral
Collateral Agreement	AssignmentOfRightsAsCollateral
Collateral Agreement	BankGuarantee
Collateral Agreement	CollateralAgreement
Collateral Agreement	CollateralPortion
Collateral Agreement	CollateralPortionCoveringAllLiabilities
Collateral Agreement	CollateralPortionCoveringIssue
Collateral Agreement	CollateralPortionCoveringSpecificLiabilities
Collateral Agreement	CollateralPortionWithWideDeclarationOfPurpose
Collateral Agreement	CombinedCollateralAgreement
Collateral Agreement	DocumentaryCollection

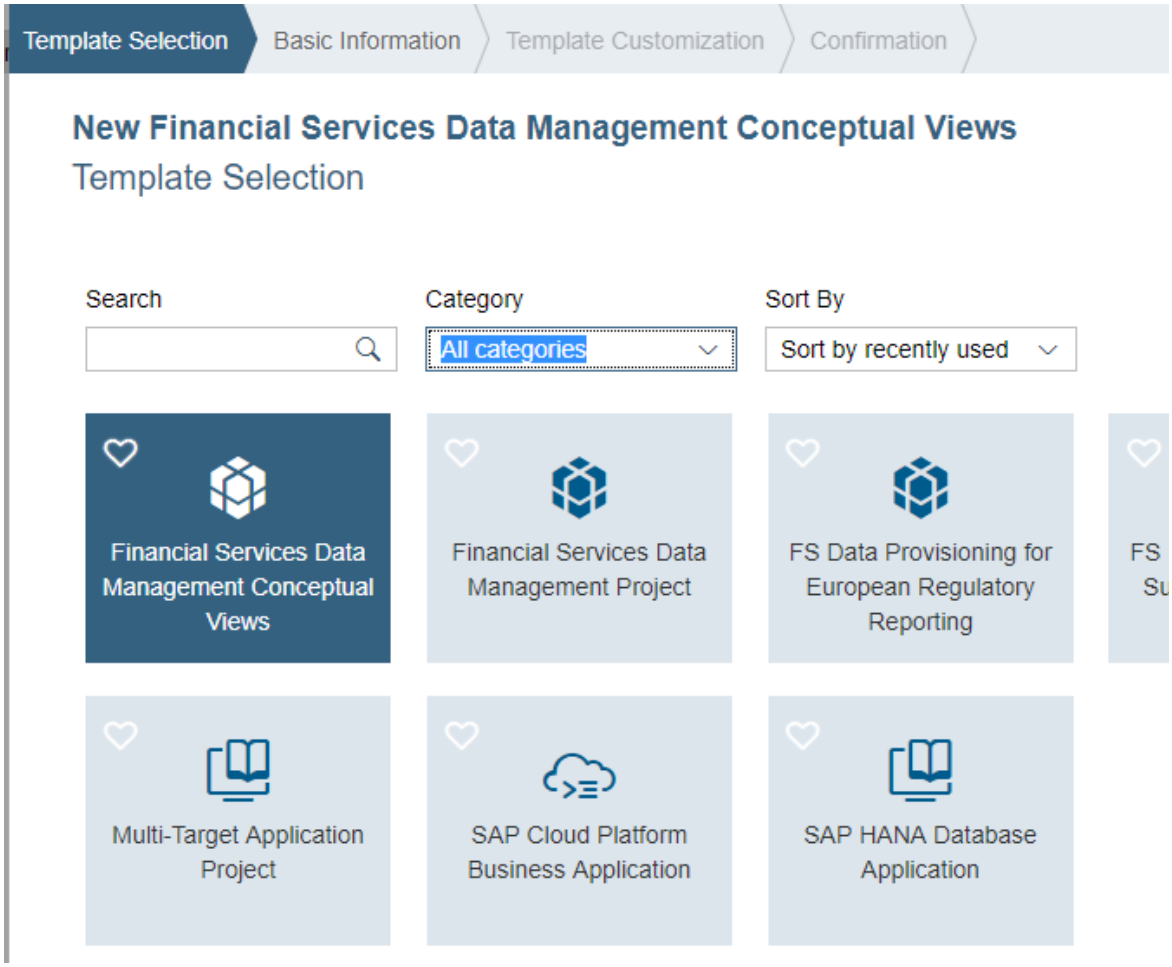
Topic	View
Collateral Agreement	Guarantee
Collateral Agreement	LandChargeArrangement
Collateral Agreement	LetterOfCredit
Collateral Agreement	MovablesMortgageArrangement
Collateral Agreement	Pledge
Collateral Agreement	PledgedObject
Collateral Agreement	PledgeOfAssetsHeldAtThirdParty
Collateral Agreement	PledgeOfBusinessInterest
Collateral Agreement	PledgeOfFinancialContract
Collateral Agreement	PledgeOfInstrumentsHeldInOwnAccount
Collateral Agreement	PledgeOfPhysicalAsset
Collateral Agreement	PledgeOfReceivable
Collateral Agreement	SimpleCollateralAgreement
Collateral Agreement	ThirdPartyBankAccountAssignment
Collateral Agreement	TradeLetterOfCredit
Collateral Agreement	TransferOfOwnershipAsCollateral
Valuation	BusinessInterestValuation
Valuation	ContractValuation
Valuation	CorporationValuation
Valuation	FundNetAssetValue
Valuation	InstrumentPositionInSecuritiesAccountValuation
Valuation	InstrumentValuation
Valuation	PhysicalAssetValuation
Valuation	ReceivableValuation
Valuation	SwapLegValuation

Setting Up the Sample Project

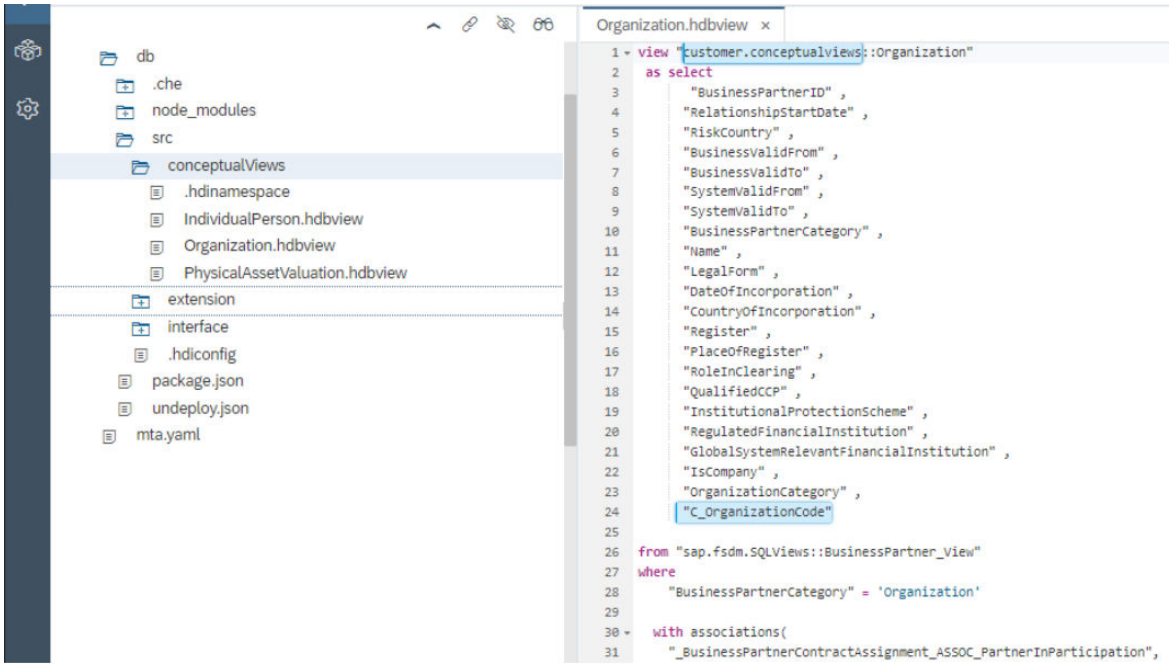
The conceptual views are available as part of the software component FSDM DATA MODEL TEMPLATE. You install the template as a plug-in for SAP Web IDE. To access the template in the SAP Web IDE application, please follow the description in the administrator's guide under Installing or Upgrading the Template to Use or Extend the Data Model.

Following the single-container deployment approach, we recommend that you deploy the conceptual views together with the data model project.

1. In the *Development* section, choose *File* > *New* > *Project from Template*.
2. In the new window, choose the project *Financial Services Data Management Conceptual Views* and continue with the wizard:



3. In the data model project, create a new conceptual view folder under the `src` folder and give it a name of your choice.
4. Go back to the views folder in the conceptual view project and copy the view files that you require into the data model project.
5. Change the namespace of the copied views to reflect the new namespace as specified by the `hdinamespace` file.
6. If you make any customer extensions in the underlying table that are relevant for the copied views, append the required field list at the end.



7. In the conceptual view folder, right-click the subfolder *db* and choose *Build*.

2 Document History

Document history for the sample content guide for SAP Financial Services Data Management

The document version number is based on the related software version number.

Document Version	Date	Description

1.19	17-March-2023	Update for version 1.19
		• New and updated views for European regulatory reporting and subledger accounting
		• The following topics have been changed:
		  • Filter Options [page 29]
		  • Sample Views for European Regulatory Reporting [page 8]
		  • Best Practices [page 7]

1.18	10-November-2022	Update for version 1.18
		• New and updated views for European regulatory reporting and subledger accounting
		• The following topics have been added:
		  • Best Practices [page 7]
		  • Filter Options [page 29]

1.17	29-July-2022	Update for version 1.17 • New and updated views for European regulatory reporting and subledger accounting
1.16	08-April-2022	Update for version 1.16 • New and updated views for European regulatory reporting • New views for subledger accounting
1.15	15-December-2021	Update for version 1.15

Document Version	Date	Description
1.14	06-August-2021	Update for version 1.14 • New and updated views for European regulatory reporting • New views for subledger accounting • New views for business partner
1.13	28-May-2021	Update for version 1.13
1.12	26-February-2021	Update for version 1.12 • New views for key figures (Amortized Costs) for data provisioning for subledger accounting. • New views for data provisioning for Integration with SAP S/4HANA business partner
1.11	13-November-2020	Update for version 1.11 • New views for data provisioning for European regulatory reporting. • New views for financial instruments (OTC derivatives) for data provisioning for subledger accounting. • Updated technology for integration to SAP CML

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