SDI

Background

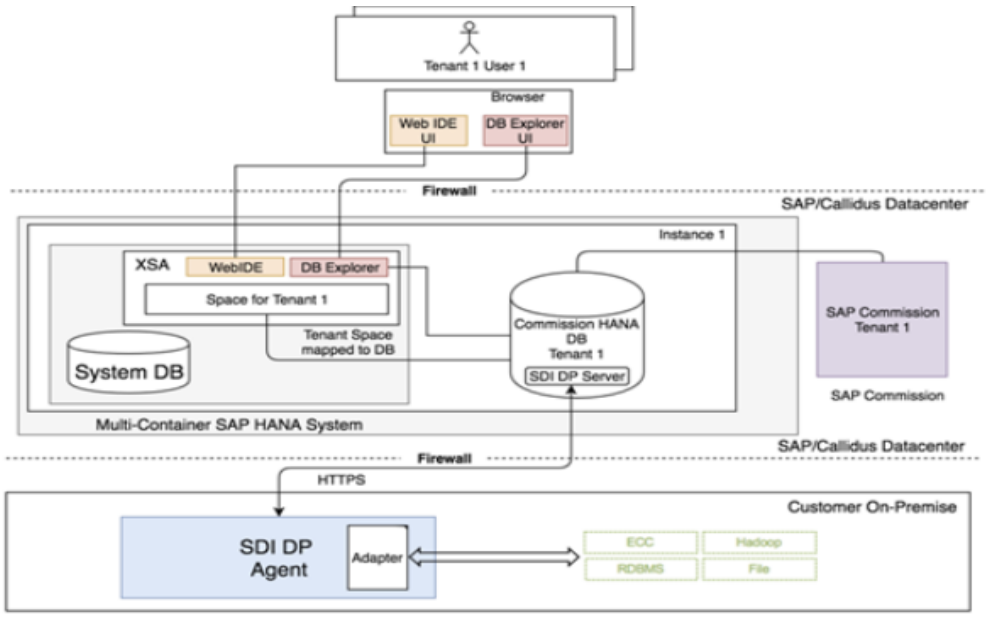
- In EFL the payments for CRC are received and reference of sales order is maintained in the transaction. There can be a part payment against invoice (for all order type except bulk order). Usually clearing is not done against invoices
- In case of Bulk orders, payments are received, and clearing done at invoice level
- For most of the cases of partner channel, clearing process is followed. However, there are exception to the process

Commission integration solution

- CDL provides two option to address collection data
    - Amount received are against invoice line items
      Or
    - Payment data at invoice header level (one time)
- Since the above two options are not feasible for EFL, it is recommended to do SDI implementation for this interface

About SDI

- SAP Smart Data Integration (SDI) is a component of the HANA platform that facilitates receiving, transforming, and loading data to and from the HANA database. Capabilities include high-volume data loads, real-time and batch data movement, high-speed data provisioning, and data transformation.
- Pls refer to link for more information: https://help.sap.com/viewer/271e5f8e84de4fada00d623e5095e77a/latest/en-US/726e41727c231014a804993ce4041860.html



- SDI provide data transformation capabilities which we used to meet the above-mentioned requirement

- This is part of SAP commission license

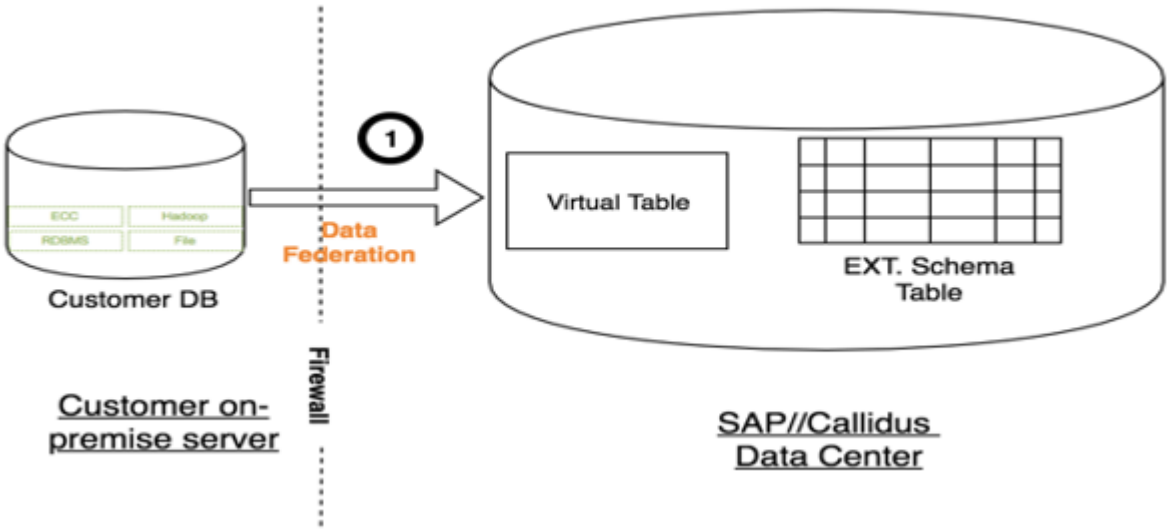
What to do for SDI setup?

- SAP DP agent to be installed in EFL systems. ECC and flat file adapters to be installed
- Remote source connection Commission management solution will be managed by Blueprint

How the data federation works?

In the first stage, data is federated in the virtual table in DB Explorer from the remote data source.

A remote data source is created in HANA DB via Web IDE DB Explorer. The remote source is required to create a virtual table.



The following tables will be used in Data federation

- BSID
- BSAD

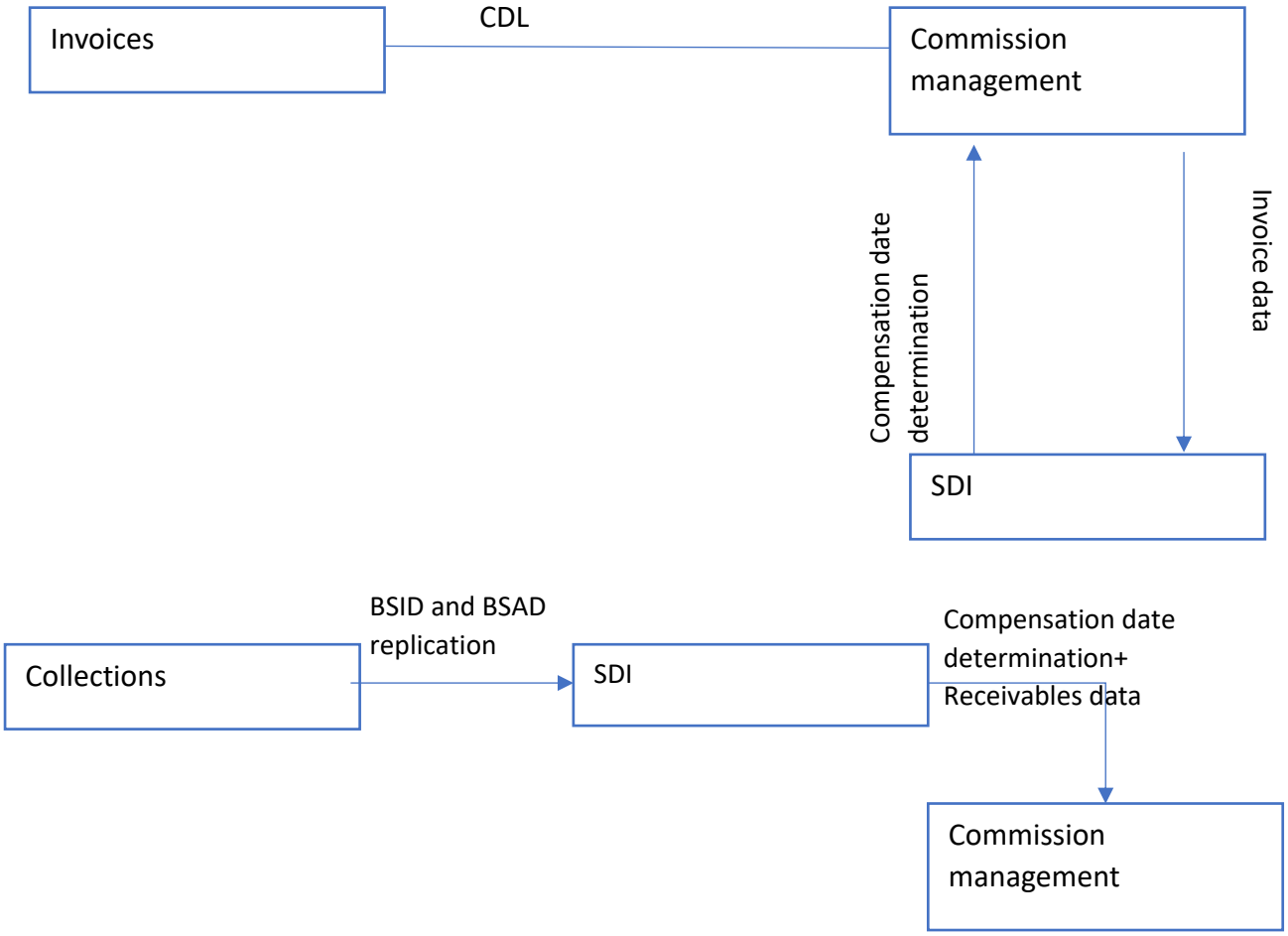
The following collection types will be used

Collection Doc types	
CRC	Partner
SK	SK
BD	BD
DZ	DZ
BH	
EV	

Solution

1. In SDI , ZICM_ Cycle will be maintained in SDI. The same table in ECC will be replicated in SDI.
2. BSID and BSAD table will be replicated in SDI for receivables data
3. Compensation date will be determined, and this will used to update cycle in collection file from receivables data
4. However, compensation date that has been stamped in invoice to be modified based on final collection date
5. Hence, Invoice date from Commission will be replicated in SDI and compensation date and cycle date will be redetermined
6. SDI compensation date stamping status and date will be available in commission system.

Data flow



Consideration for this design- CRC

- Once the invoices are received in commission system, only SE function/ employee number updates will happen.
- SDI will check if the amount is received in full and collection data will be posted in commission system. In case of CDA, document will be posted immediately.

- CDA and redeposits will identified with event type and will be available in the system for calculation
- Final payment received date will determine compensation date and based on this rest of the transactions (Invoice, payment, CDA, re deposit) compensation date will be re determined
- The BSID and BSAD transactions and invoice transactions will be stored in SDI for XX months for audit logs
- The daily data replication for invoices will happen based on status = Processed / Reprocessed status available in the Commission data
- SDI replication of invoice data will happen every day after invoice loads are completed
- BSID/BSAD data replication will on daily basis

Scenario working

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