

Generic SAP Extractor

SAP provides Business Content for extractors and BI objects and allows a fast implementation up to the reporting layer in many application areas. The drawback starts with requests from business and the end user for additional data details. The enhancements can become difficult and complex and have a negative impact on performance as well.

When to use

A solution with generic extractors could be beneficial for cases with many additional requirements. The business analyst needs then a deep understanding for the data content and its dependency but allows a more flexible reporting.

The underlying idea for generic extractors is to extract the content of a whole table structure, load it into the target BI platform and use it for the further steps of the data modeling for the reporting.

Full or delta

A full load enables a complete load of the table content or a selection by a specific filter criteria. A delta extraction reduces the volume of data exchange by continuously updating the latest changes in the source table.

For some tables a delta extraction is simple. In those cases there are characteristics that enable a delta update, e.g. by date, counter or index field. Nevertheless in other cases a delta update extraction becomes more complex. An issue could also be the data volume to be handled. New concepts and approaches are required.

Go for generic extractor

If you decide to do the data extraction by generic extraction the best approach is to do it by application area and benefit from a similar approach for groups of tables.

Application Area	Tables
FI	BKPF, BSEG, FAGLFLEXA, FAGLFLEXT, ...
MM	EKKO, EKPO, EKBE, RBKP, RSEG, ...
MM Material Movement	MKPF, MSEG, ...
MM Master Data	MARA, MARC, MARD, MVKE, ...
QM	QMEL, QMFE, QMMA, QMUR, QMSM, ...
PP / PM / ...	AUFK, AFKO, AFIH, AFPO, RESP, IHPA, ILOA, ...
PP BOM	STKO, STAS, STPO, STZU, MAST, ...
CO Product Costing	KEKO, CKHS, CKIS, ...
Change Log Data	CDHDR, CDPOS, ...
Classification	TCLA, TCLT, TCLAO, KLAH, KSML, CABN, CAWN, ...
...	...

Implementation

For the implementation there are conceptual data model available that show the link and dependency between the different tables. Each customer or even developer is following a different approach but could benefit from the general overview.

For the SAP BW HANA specific implementation there are Calculation Views (CV) and CV Data Models available.