

CNV-9106-Output determination for application V1/V3

Status	Approved
Owner	THOMAS-ext, Ety
Stakeholders	

Purpose

This document defines the conversion approach for migrating Sales (V1) and Billing (V3) output condition records from SAP ECC to SAP S/4HANA, based on a new BRF+-driven output management strategy.

This document introduces a new approach to migrating output management, shifting from the legacy ECC output condition record model to a simplified, rules-driven BRF+ framework. It describes the end-to-end migration process, covering data extraction and transformation (by Syniti), functional transformation (by the Functional Team), and loading into BRF+ decision tables (by the functional team)—ensuring alignment with overall project governance and design principles.

New Approach: BRF+ Output Simplification

- Merge multiple legacy ECC output types (e.g., ZC10,ZC11,ZARM...) into a single BRF+-driven output type, e.g. ORDER_CONFIRMATION to simplify maintenance and governance.
- Global template layout per output type (as much as possible)
- Minimize the creation of outputs that are rarely triggered, focusing on high-value and frequently triggered scenarios.
- Avoid using business partners or email addresses as decision table input parameters. Instead, leverage business partner attributes to determine the appropriate outputs and channels. This approach requires that the relevant attributes be maintained during Business Partner migration, aligned with the existing output conditions.

Key Implications:

- There will be no direct one-to-one mapping between ECC output condition records and BRF+ decision tables. Instead, this approach will use a rules-based model that covers the majority of business scenarios and reduces operational complexity.
- The new model will establish and maintain output determination records—including email recipients, output channels, and Business Partner–related output conditions—within BRF+.
- The transformation builds upon the configuration and master data currently maintained under the Classic Output Management (NAST framework) in ECC, adapting it to the BRF+ governance structure in S/4HANA.
- The tables referenced in this document are intended to illustrate the rationale behind the BRF+ decision tables.
- Similarly, the legacy tables extracted from ECC will not be migrated as-is. Instead, they will serve as a reference to support the migration and transformation of the relevant objects into the S/4HANA target design.

Conversion Scope

The conversion scope covers the extraction, transformation, and loading of output determination data from Classic Output Management (NAST-based framework) into BRF+ Output Parameter Determination (OPD) in S/4HANA, ensuring both initial migration and interim synchronization until full adoption of BRF+ is achieved.

The scope includes:

- Extraction of customer-related output condition records (e.g., for Sales Orders, Scheduling Agreements, Invoice and Credit and Debit memos) from Classic Output Management, including associated communication details such as email addresses, language, and output channels;
- Mapping of Classic condition record keys (application, condition type, key combination) to BRF+ OPD parameters (e.g., Document Type, Output Type, Sales Organization,);
- Transformation of medium and dispatch settings from Classic (e.g., NAST medium codes) to BRF+ equivalent channels (e.g., Email, Print, EDI), ensuring compatibility with S/4HANA Output Management settings;
- Initial Load of the transformed dataset into BRF+ Output Parameter Determination using the OPD framework and/or BRF+ application data load methods;
- Validation to ensure that migrated BRF+ records produce identical output results as their Classic counterparts for equivalent sales scenarios.

Out of Scope:

- Migration of output determination for applications outside of sales (e.g., MM Purchasing outputs);
- Migration of outputs no longer managed in S/4: **Quotations and Contracts** (Managed in Salesforce)
- Migration of output no longer in scope of Sales (V1): SDB outputs (managed in Delivery)
- Modifications to customer master data beyond the email and communication fields required for BRF+;
- Changes to output form templates (Smartforms/Adobe Forms) beyond what is required for enabling BRF+.

The data from legacy system includes:

1. Active output condition records for Sales (Application V1 and V3) linked to customers (Partner Function SP, BP,PY, CONTACTS) with maintained communication details (email address, fax, etc.)
 - a. Output types relevant for Sales Orders, Invoices and memos and Scheduling Agreements that are in active use in the business process
2. Records with valid medium settings (e.g., Email, Print, EDI) compatible with S/4HANA BRF+ output channels
3. Active records where the deletion indicator (LOEKZ) is initial.
4. Language assignments that are valid in the target system

The data from legacy system excludes:

1. Obsolete, expired, or logically deleted output condition records
2. **Output** condition records for customers not in scope of the [CNV-3003 Business Partners - Customer \(Sales and Service\) - FLCU01](#)
3. Output condition records for Sales areas not in scope.
4. Output types not used in the current or target S/4HANA sales processes
5. Records with incomplete or invalid communication data (e.g., missing email for email output medium)
6. Condition records belonging to applications other than sales (e.g., LE, MM, FI outputs)

Data Profiling

The table below based on the entries in the table NAST outlines the legacy configuration values and numbers. Its purpose is to demonstrate how these values inform the design and logic of the BRF+ decision tables.

In addition, the table figures highlight the data that needs to be extracted from ECC systems, even though it will not be migrated into the target S/4HANA target .

System	Application	Scope	Source Approx No. of NAST Records	Target System	Target Approx No. of Records
PF2	V1		53997 records (raw count)	S4/Hana	
PF2	V3		134195 records (raw count)		
WP2	V1		36012 records (raw count)		
WP2	V3		42777 records (raw count)		

System	Application	Table	Table Description	Output Types	Source Approx No. of Records	Target System	Target Approx No. of Records
WP2 V1 SALES OUTPUTS							
WP2	V1	B001	Sales Organization/Customer Number	BA00/SDB/ZMCE/ZRC3/ZRS2/ZRSP/ZRST/ZSY2 /ZSYC	534	S4/OPD	
WP2	V1	B005	Sales Organization/Order Type	SDB/ZAAR/ZAN1/ZARC/ZARD/ZARE/ZBA0/ZBA1 /ZBA2/ZBA6/ZBA8/ZBA9/ZBAC/ ZBDC/ZBSC/ZCQ1/ZLRG/ZMRC/ZMRM/ZPL1/ZSTC /ZSTO/ZTP1/	2441		
WP2	V1	B013	Sales Org.	ZAAR/ZAN0/ZAN1/ZARC/ZARD/ZARE/ZARM/ZBA1/ ZBA2/ZBA5/ZBA6/ZBA7/ZBA8/ZBA9/ZBAC/ZBAR /ZBSC/	125		
WP2	V1	B502	Sales org./Sales off.	ZAAR/ZAN0/ZAN1/ZARC/ZARD/ZARE/ZARM/ZBA0 /ZBA1/ZBA2/ZBA3/ZBA5/ ZBA6/ZBA7/ZBA8/ZBA9/ZBAR/ZBSC/ZCQ1/ZCQR /ZCSC/ZMRC/ZMRM/ZPL1/	477		
WP2	V1	B503	Sales organization/Sales office /Commercial assistant	ZAAR/ZAN0/ZAN1/ZARC/ZARD/ZARE/ZARM/ZBA0 /ZBA1/ZBA2/ZBA3/ZBA5/ZBA6/ ZBA7/ZBA8/ZBA9/ZBAR/ZBSC/ZCQ1/ZCQR/ZCSC /ZMRC/ZMRM/ZPL1/	278		
WP2	V1	B506	Sales organization/Sales office /Sold to party	ZARC/ZARM/ZBA0/ZBA1/ZBA2/ZBA5/ZBA9/ZBAC/ ZBSC/ZC10/ZC17/ZC19/ZCAR/ZCOE/ZMRC/ZMRM/	179		
WP2	V1	B532	Sales Org/DC/Sales Office	ZARC/ZARM/ZBA1/ZBA2/ZBA9/ZBAC/ZBAR/ZBSC /ZMRM/	26		
WP2	V1	B559	Sales org./Sold to Country /Currency	ZARC/ZARM/ZBAC/	16		
WP2	V1	B701	Ship Point/SalesDocTy	ZDOC/	1		
WP2	V1	B933	Sales org./PO type	ZARM/ZAWA/	91		
WP2	V1	B934	Sales org./PO type/Sold-to pt	ZAWA/	763		
WP2 V3 INVOICE OUTPUTS							
WP2	V3	B001	Sales Organization/Customer Number	FUPI/RD00/RD02/RD04/ZFC1/ZINV/ZRD3/ZRD7 /ZRDA/ZRDB/	952		
WP2	V3	B008	Billing Type	ZLO1/ZLOT/ZPI3/ZQBC/ZQCA/ZRAR/ZREJ/	39		

WP2	V3	B011	Sales Organization/Billing Type	ZBA1/ZEID/ZEIG/ZEII/ZGST/ZPLD/ZRAC/ZRAR /ZRB0/ZRB1/ZRD0/ZRD1 /ZRD2/ZRD8/ZRDE/ZRDP/ZRDQ/ZRLA/ZRLR/ZRS1 /ZRS2/ZRSC/ZRUP/	411		
WP2	V3	B013	Sales Org.	RD04/ZFMX/ZRAR/ZRD3/ZRD5/ZRD7/ZRMX/ZRS5/	9		
WP2	V3	B504	Sales organization/ Shipping point	ZRD4/ZRD5/ZRD6/ZRDD/ZRN5/ZRN6/ZRS5/ZRS6/	1		
WP2	V3	B505	Sales organization/Shipping point /Bill-to party	ZRD6/ZRN6/ZRS6/	3		
WP2	V3	B507	Sales organization/Sales office /Bill-to party	ZGST/ZLIF/ZLIP/ZRAR/ZRB0/ZRD0/ZRD1/ZRD2 /ZRD8/ZRDE/ZRDP/ZREJ/ZRS1/ZRS2/ZRSC/	163		
WP2	V3	B511	Sales organization/Sales office	ZLIF/ZLIP/ZRAR/ZRB0/ZRD0/ZRD1/ZRD2/ZRD8 /ZRDE/ZRDP/ZRDQ/ZRS1/ZRS2/ZRSC/	53		
WP2	V3	B512	Sales organization/Sales office /Commercial assistant	ZCOR/ZPLD/ZRB0/ZRB1/ZRD0/ZRD1/ZRD2/ZRD5 /ZRDE/ ZRDP/ZRDQ/ZRS1/ZRS2/ZRS5/ZRSC/	47		
WP2	V3	B533	Sales Org/Distribution Channel /Sales Office	ZRD6/ZRN6/ZRS6/	5		
WP2	V3	B539	Sales org./Sales Off./Created /Bill. Type	ZPLD/ZRB0/ZRB1/ZRD0/ZRD1/ZRD2/ZRD8/ZRDE /ZRS1/ZRSC/	1		
WP2	V3	B551	Sales org./Doc.cat./Sales Off./Bill to	ZINV/ZRDC/ZREI/ZRWF/	79		
WP2	V3	B552	Sales org./Sales Off./Doc.cat. /SalesDocTy/e-inv. flag	ZRDC/ZRWF/	788		
WP2	V3	B553	Sales Off./Doc.cat./e-inv. flag	ZREI/ZRWF/	85		
WP2	V3	B554	Sales org./Sales Off./Doc.cat./e- inv. flag	ZRDC/ZREI/ZRWF/	673		
WP2	V3	B558	Sales Organization/Sales Office /Billing Type	ZRAC/ZRB0/ZRDE/ZRSC/	106		
WP2	V3	B560	Sales Off./e-inv. flag	ZRDC/ZREI/	6		
WP2	V3	B569	Sales org./Currency/Plant/Bill. Type	ZRAR/ZRB0/ZRD0/ZRD3/ZRDE/ZREJ/ZRLA/ZRN5 /ZRS2/ZRSC/	11		
WP2	V3	B570	Sales org./Currency/Bill. Type	ZGSU/ZPLD/ZRAR/ZRD5/ZRD8/ZRDE/ZREJ/	6		
WP2	V3	B572	Sales org./Distr. Chl/Bill. Type /Sold-To Pt	ZGST/ZRB0/ZRDE/ZRSC/	21		
WP2	V3	B889	Sales org./Sold-to pt	ZRDC/ZRWF/	27		
WP2	V3	B910	Interco. billing: Org.comm./Bill-to	ZGST/ZRB0/ZRD0/ZRD1/ZRD5/ZRD8/ZRDE/ZRDQ /ZRLA/ZRLR/ZRN5/ZRS5/ZRSC/	37		
WP2	V3	B923	Sales Organization/Distribution Channel/Bill-to party	ZGST/ZLIF/ZRB0/ZRD0/ZRD5/ZRDE/ZRS1/ZRS5 /ZRSC/	51		
WP2	V3	B953	Sales org./Bill.type/Payer	ZRDA/ZRGE/	84		
WP2	V3	B955	Sales org./Ship.point/Bill.type /RecipCntry	ZRM6/	6541		
WP2	V3	B957	Sales organization/Billing type /Bill-to party	ZINV/ZRD5/ZRDA/ZRDB/ZRS5/	7326		
WP2	V3	B960	e-invoicing	ZRAR/ZREJ/ZRS2/	1		
WP2	V3	B962	Sales Organization/Distribution Channel/Billing Type/Ship-to	ZLIF/ZRB0/ZRD0/ZRDE/ZRGE/ZRS1/ZRSC/	72		
WP2	V3	B995	Sales Org/Sales Office/Billing Type/Dest country	ZRDE/ZRS2/	44		
PF2 V1 SALES OUTPUTS							
PF2	V1	B001	Sales Organization/Customer Number	BA00/SDB/ZC2B/ZC44/ZC46/ZC52/ZC55/ZMCE /ZRC3/ZRS2/ZRSP/ZRST/ZSY2/ZSYC	18392		
PF2	V1	B005	Sales Organization/Order Type	SDB/ZAAR/ZAN1/ZARC/ZARD/ZARE/ZBA0/ZBA1 /ZBA2/ZBA6/ZBA8/ZBA9/ZBAC/ ZBDC/ZBSC/ZCQ1/ZLRG/ZMRC/ZMRM/ZPL1/ZSTC /ZSTO/ZTP1/	292		
PF2	V1	B006	SOrg./Distrib.Ch/Division /Customer	ZC46/ZC50/ZCER/	11		
PF2	V1	B506	Sales Off./Ship-To/SalesDocTy /Division	ZARC/ZARM/ZBA0/ZBA1/ZBA2/ZBA5/ZBA9/ZBAC/ ZBSC/ZC10/ZC17/ZC19/ZCAR/ZCOE/ZMRC/ZMRM/	75		
PF2	V1	B891	Sales Office/Customer/Sales Document Type	ZC10/ZC11/ZC13/ZC14/ZC15/ZC16/ZC17/ZC19/ ZC35/ZC36/ZC40/ZCAR/ZCOE/ZCOF/	11248		
PF2	V1	B912	Sales office/Sales document type	ZC10/ZC11/ZC13/ZC15/ZC16/ZCAR/ZCOE/	121		
PF2	V1	B913	Sales office	ZC10/ZC11/ZC13/ZC15/ZCAR/	31		
PF2	V1	B917	Sales Office/Sales DocType/PO type	ZC10/ZC17/ZCAR/	121		
PF2	V1	B918	Sales office/Sold-to party	ZC10/ZC11/ZC13/ZC14/ZC17/ZC19/ZC35/ZC36 /ZCAR/ZCOE/	3318		

PF2	V1	B922	Sales office/Shipping conditions.	ZC30/ZC31/ZC40/	221		
PF2	V1	B938	Sales organization/Purchase order type/Customer	ZC2B/	24		
PF2	V1	B950	Sales office/Division/Sales document type	ZC10/ZC11/ZC13/ZC17/ZC19/ZCAR/ZCOE/	344		
PF2	V1	B956	Sales office/Shipping conditions /Plant	ZC30/ZC32/	34		
PF2	V1	B959	Sales office/Shipping conditions /Service agent	ZC30/ZC40/	108		
PF2	V1	B972	Sales office/Shipping conditions /Contact Agent	ZC31/	1		
PF2	V1	B986	Sales office/Country (Sold-to party)	ZC10/ZC11/ZC17/ZC19/ZCAR/	319		
PF2	V1	B989	Sales Organization/Customer /Sales Document Type	ZC2B/	4		
PF2 V3 INVOICE OUTPUTS							
PF2	V3	B001	Sales Organization/Customer Number	FUPI/RD00/RD02/RD04/ZFC1/ZINV/ZRD3/ZRD7 /ZRDA/ZRDB/	2966		
PF2	V3	B006	SOrg./Distrib.Ch/Division /Customer	RD04	387		
PF2	V3	B008	Billing Type	ZQBC	2		
PF2	V3	B011	Sales Organization/Billing Type	ZBA1/ZEID/ZEIG/ZEII/ZGST/ZPLD/ZRAC/ZRAR /ZRB0/ZRB1/ZRD0/ZRD1/ZRD2/ZRD8/ ZRDE/ZRDP/ZRDQ/ZRLA/ZRLR/ZRS1/ZRS2/ZRSC /ZRUP/	195		
PF2	V3	B013	Sales Org.	RD04/ZFMX/ZRAR/ZRD3/ZRD5/ZRD7/ZRMX/ZRS5/	63		
PF2	V3	B840	Sales office / Sold-to Doc type / Billing Type	ZF00/	35		
PF2	V3	B841	Sales office / Sold-to Doc type	ZF00/ZF0R/ZF1R/	122		
PF2	V3	B913	Sales office	ZF00/ZF01/ZF05/ZFCF/	110		
PF2	V3	B916	Bill-to party	ZF01/	2		
PF2	V3	B919	Sales office/Bill-to party/Billing type	ZF00/ZF01/ZF30/	1332		
PF2	V3	B920	Bill.type/Sales org./RecipCntry	ZF00/ZF01/	14		
PF2	V3	B921	Sales office/Bill-to party	ZF00/ZF01/ZF05/ZF10/	14365		
PF2	V3	B927	Billing type/Bill-to party	RD06/ZF06/ZF17/	72		
PF2	V3	B932	Payer	ZF00/	192		
PF2	V3	B935	Sales organization/Shipping point /Billing type	ZF15/ZF16/	69		
PF2	V3	B937	Payer/Billing type	ZF00/ZF01/	986		
PF2	V3	B939	Sales office/Manual invoice maintenance	ZF00/ZF01/ZF05/	28		
PF2	V3	B940	Sales office/Bill-to party/Manual invoice maintenance	ZF01/	46		
PF2	V3	B942	Sales office/Country (Bill-to party)	ZF00/ZF01/ZF05/ZF10/	271		
PF2	V3	B953	Sales office/Sales group	ZF00/ZF01/	72		
PF2	V3	B958	Sales off./Sales org./Bill.type	ZF00/	71		
PF2	V3	B963	Sales org./Contact agent/Bill.type	ZFCA/	1056		
PF2	V3	B966	Sales org./Payer/Bill.type	ZF00/ZF01/ZF02/ZFCF/ZFMX/	32553		
PF2	V3	B967	Sales Organization/PO type/Sold-to party	ZF2B/	1		
PF2	V3	B973	Bill.type/Sales org./RecipCntry /Payer	ZF01/ZF99/	96		
PF2	V3	B974	Sales organization/Billing type /Bill-to party	RD06/ZF15/ZF16/ZF17/ZFIL/ZFIM/	1882		
PF2	V3	B975	Sales organization/Billing type /Delivering country	ZF15/	23		
PF2	V3	B985	Sales organization/Sold-to party		11		
PF2	V3	B993	Sales Organization/Billing Type /Destination Country	ZF15/	16		
PF2	V3	B998	Sales organization/Payer	ZFIL/	102		

Additional Information

Multi-language Requirement

Output texts and messages will be migrated for all relevant languages (EN, FR, NL, PT, etc.).

Document Management

All deliverables, SQL extractions, and DT Templates will be version-controlled in Confluence and Jira.

Legal Requirement

N/A

Special Requirements

N/A

Target Design

In S/4HANA Output Management (via BRF+), decision tables replace the condition technique. Each BRF+ decision table acts like a flexible rule set:

Input Parameters	Decision Logic	Output Parameters (Result)
------------------	----------------	----------------------------

They determine:

1. **Output Type** (e.g., ORDER_CONFIRMATION, BILLING_OUTPUT)
2. **Output Channel** (Email, Print, EDI, IDoc)
3. **Form Template** (Adobe Form)
4. **Receiver** (Partner Function)
5. **Language**

The decision tables below depict the typical structures of BRF+ tables and are based on the current design within the Toolkit. Please note that these tables will change once the final design has been confirmed.

SALES DECISION TABLES:

Decision Table Name	Input Parameter 1	Input Parameter 2	Input Parameter 3	Input Parameter 4	Input Parameter 5	Input Parameter 6	Input Parameter 7	Input Parameter 8	Input Parameter 9	Input Parameter 10	Result	Result
DT_OUTPUT_TY PE	Sales Document Cat.	Sales Doc. Type									Output Type	Dispatch Time
DT_OUTPUT_CHANNEL	Output Type	Partner Role	Sales Org.	Distr. Channel	Division	Sales Office	Recipient				Channel	
DT_RECEIVER	Output Type	Partner Role									Exclusive Indicator	
DT_EMAIL_SETTING	Output Type	Partner Role	Sales Org.	Distr. Channel	Division	Sales Office					Sender Email	Email Template
DT_EMAIL_RECEIVER	Output Type	Partner Role									Email Type Code	E-Mail Address
DT_OUTPUT_RELEVANCE	Output Type	Purch Conf. Sts	Overall Header	Overall Cred Stat	Delivery Block	Billing Block	All Items				Relevance Indicator	
DT_FORM_TEMPLATE	Output Type	Sales Org	Distribution Channel	Division	Sales Office	Role	Channel	Sender Ctry /Reg	Receiver Ctry /Reg	Receiver Language	Form template	Form Language

BILLING DECISION TABLES:

[illegible]

DT_OUTPUT_TYPE	Document Cat.	Billing Type	Sales Org.	Distr. Channel	Division	Sales Office	Sales Group	Bill to party			Output Type	Dispatch Time
DT_RECEIVER	Output Type										Partner Role	Exclusive Indicator
DT_CHANNEL	Output Type	Partner Role	Sales Org.	Distr. Channel	Division	Sales Office	Recipient	Customer Group 5			Channel	
DT_PRINTER	Output Type	Sales Org.	Distribution Channel	Division	Sales Office	Billing Type					Print Queue	Number of Copies
DT_EMAIL_SETTING	Output Type	Partner Role	Sales Org.	Distr. Channel	Division	Sales Office	Billing Type				Sender Email	Email Template
DT_EMAIL_RECEIVER	Output Type	Partner Role									Email Type Code	E-Mail Address
DT_FORM_TEMPLATE	Output Type	Sales Org.	Sender Ctry /Reg.	Recipient Ctry/Reg.	Recipient Language	Document Cat.	Billing Type				Form Template	Form Language
DT_OUTPUT_RELEVANCE	Output Type	Document Category	Posting Status	Billing Type	Sales Org.	Bill to Party	Receiver Ctry /Reg				Relevance Indicator	

Data Cleansing

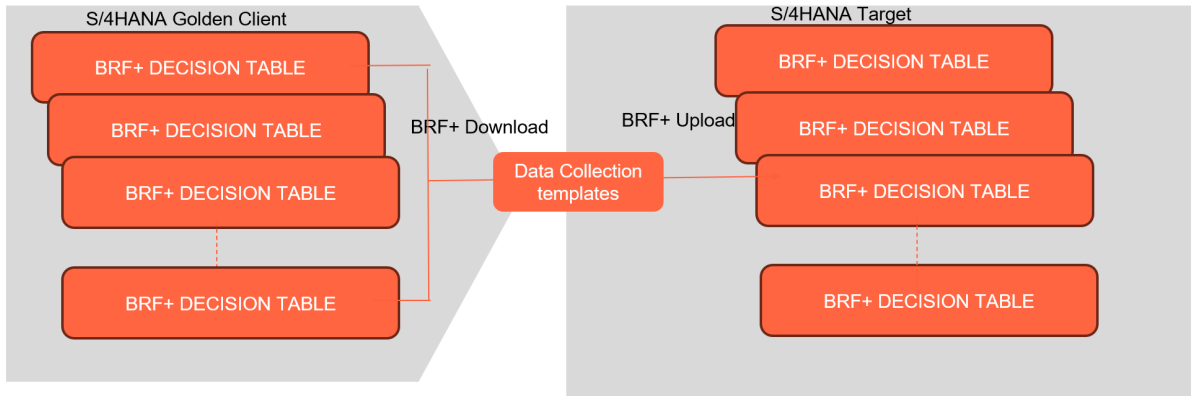
N/A

ID	Criticality	Error Message/Report Description	Rule	Output	Source System

Conversion Process

The high-level process is represented by the diagram below:

OUTPUT DETERMINATION – SALES AND INVOICE



Data Privacy and Sensitivity

All data extracted must be anonymized and handled according to data protection policies.

- Copy 1:1 (keep Legacy)

Extraction

Data will be extracted from ECC using SQL-based queries executed directly on the source database.

The extraction process is required to join those **B*** condition tables—which contain a link to a business partner (KUNNR, KUNAG, KUNRE, KUNRG) or contain a large number of entries for a single output type—to the **NACH** table. This approach enables identification of the output medium and the output language and ensures that all relevant configuration records are captured.

The extracted data will **not** be migrated directly; instead, it will be used to:

- Update the business partner attributes that determine the appropriate outputs and channels.
- Populate the data collection files based on the BRF+ decision table setup.

Relevancy criteria will be applied to include only active, valid, and in scope records.

There will therefore be 2 different sets of Data collection Reports (RT)

- An initial set based on the legacy BXXX tables that will include all relevant information to facilitate the subsequent uploads. It will be referred to "RT_OUTPUT_CONDITIONS"
 - The RT_OUTPUT_CONDITIONS can be used in [CNV-3003 Business Partners - Customer \(Sales and Service\) - FLCU0](#) to set up default outputs channels. **(TBC)**
- A subsequent set of OPD DT tables, referred to as DT_OPD_DECISION_TABLES

Source Tables to be extracted:

Following Bxxx tables relate to output conditions linked to business partners as well as tables with multiple entries. The whole table needs to be extracted:

BXXX TABLES

System	App	Table-Name	Description	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Comment
PF2	V1 /V3	B001	Sales Organization/Customer Number	KAPPL	KSCHL	VKORG	KNDNR			
PF2	V1 /V3	B006	SOrg./Distrib.Ch/Division/Customer	KAPPL	KSCHL	VKORG	VTWEG	SPART	KNDNR	
PF2	V3	B866	Sales Organization/Division/Customer	KAPPL	KSCHL	VKORG	SPART	KNDNR		
PF2	V3	B867	Sales Organization/Division/Customer/Quality code	KAPPL	KSCHL	VKORG	SPART	KNDNR	MVGR3	
PF2	V1	B891	Sales Office/Customer/SalesDocType	KAPPL	KSCHL	VKBUR	KNDNR	AUART		No Sales org
PF2	V1	B918	Sales Office/Sold-to Party	KAPPL	KSCHL	VKBUR	KUNNR			No Sales org
PF2	V3	B919	Sales Office/Bill-to Party/Billing Type	KAPPL	KSCHL	VKBUR	KUNRE	FKART		No Sales org
PF2	V3	B921	Sales Office/Bill-to Party	KAPPL	KSCHL	VKBUR	KUNRE			No Sales org
PF2	V3	B927	Billing type/Bill-to party	KAPPL	KSCHL	FKART	KUNRE			No Sales org
PF2	V3	B932	Payer	KAPPL	KSCHL	KUNRE				No Sales org
PF2	V3	B937	Payer/Billing type	KAPPL	KSCHL	KUNRG	FKART			No Sales org
PF2	V1	B938	Sales organization/Purchase order type/Customer	KAPPL	KSCHL	VKORG	BSARK	KNDNR		
PF2	V3	B940	Sales office/Bill-to party/Manual invoice maintenance	KAPPL	KSCHL	VKBUR	KUNRE	MRNKZ		No Sales org
PF2	V3	B966	Sales Org/Payer/Billing Type	KAPPL	KSCHL	VKORG	KUNRG	FKART		
PF2	V3	B973	Bill.type/Sales org./RecipCntry/Payer	KAPPL	KSCHL	FKART	VKORG	LAND1	KUNRG	
PF2	V3	B974	Sales Org/Billing Type/Bill-to Party	KAPPL	KSCHL	VKORG	FKART	KUNRE		
PF2	V1	B989	Sales Organization/Customer/Sales Document Type	KAPPL	KSCHL	VKORG	KNDNR	AUART		
PF2	V3	B998	Sales organization/Payer	KAPPL	KSCHL	VKORG	KUNRG			
WP2	V1 /V3	B001	Sales Organization/Customer Number	KAPPL	KSCHL	VKORG	KNDNR			
WP2	V1	B005	Sales Organization/Order Type	KAPPL	KSCHL	VKORG	AUART			No customer, 2441 entries
WP2	V3	B505	Sales organization/Shipping point/Bill-to party	KAPPL	KSCHL	VKORG	ZZVSTEL	KUNRE		
WP2	V3	B507	Sales organization/Sales office/Bill-to party	KAPPL	KSCHL	VKORG	ZZVKBUR	KUNRE		
WP2	V3	B551	Sales org./Doc.cat./Sales Off./Bill to	KAPPL	KSCHL	VKORG	VB Typ	ZZVKBUR	KUNRE	
WP2	V3	B572	Sales org./Distr. Chl/Bill. Type/Sold-To Pt	KAPPL	KSCHL	VKORG	VTWEG	FKART	KUNAG	
WP2	V3	B889	Sales org./Sold-to pt	KAPPL	KSCHL	VKORG	KUNAG			
WP2	V3	B910	Interco. billing: Org.comm./Bill-to	KAPPL	KSCHL	VKORG	KUNRE			
WP2	V3	B923	Sales Organization/Distribution Channel/Bill-to party	KAPPL	KSCHL	VKORG	VTWEG	KUNRE		
WP2	V3	B924	Sales org./Distr. Chl/Bill to/Del. type	KAPPL	KSCHL	VKORG	VTWEG	KUNRE	LFART	
WP2	V1	B934	Sales org./PO type/Sold-to pt	KAPPL	KSCHL	VKORG	BSARK	KUNNR		
WP2	V3	B953	Sales org./Bill.type/Payer	KAPPL	KSCHL	VKORG	VTWEG	FKART	KUNWE	

WP2	V3	B955	Sales org./Ship.point/Bill.type/RecipCntry	KAPPL	KSCHL	VKORG	ZZVSTEL	FKART	LAND1	No customer, 6541 entries
WP2	V3	B957	Sales organization/Billing type/Bill-to party	KAPPL	KSCHL	VKORG	FKART	KUNRE		
WP2	V3	B962	Sales Organization/Distribution Channel/Billing Type/Ship-to	KAPPL	KSCHL	VKORG	VTWEG	FKART	KUNWE	
WP2	V3	B964	Sales org./Ship Point/Bill. Type/Ship-to	KAPPL	KSCHL	VKORG	ZZVSTEL	FKART	KUNWE	

The agreed Relevancy criteria is applied to the extracted records to identify the records that are applicable for the Target loads (relevant sales Organisation)

NACH TABLE

	Table	Field	Field	Data Type	Length	Short Description	Requirement
1	NACH	MANDT	MANDT	CLNT	3	Client	Mandatory
5	NACH	KVEWE	KVEWE	CHAR	1	Usage of the condition table	Mandatory
6	NACH	KOTABNR	KOTABNR	CHAR	3	Condition table	Mandatory
7	NACH	KAPPL	KAPPL	CHAR	2	Application	Mandatory
8	NACH	KSCHL	KSCHL_OC	CHAR	4	Condition Type	Mandatory
13	NACH	PARVW	PARVW	CHAR	2	Partner Function	Mandatory
14	NACH	PARNR	NA_PARNR_OC	CHAR	10	Message partner	Mandatory
15	NACH	NACHA	NA_NACHA	CHAR	1	Message transmission medium	Mandatory
17	NACH	VSZTP	NA_VSZTP	CHAR	1	Dispatch time	Mandatory
18	NACH	SPRAS	SPRAS	LANG	1	Language Key	Optional

Extraction Run Sheet

001 WP2 V1 /V3 NACH	NACH-KVEWE = 'B' (Usage Output) NACH-KAPPL = 'V1' (Application Sales Order) OR 'V3' (Application Billing) NACH-KOTABNR (Tables: above) NACH-KSCHL (Output types) NACH-NACHA (Transmission Medium) NACH-PARVW (Partner) NACH-SPRAS ((Language)	
001 PF2 V1 /V3 NACH	NACH-KVEWE 'B' (Usage Output) NACH-KAPPL = 'V1' (Application Sales Order) OR 'V3' (Application Billing) NACH-KOTABNR (Tables: above) NACH-KSCHL (Output types) NACH-NACHA (Transmission Medium) NACH-PARVW (Partner) NACH-SPRAS (Language)	
001 WP2 V1/V3 B TABLES		
001 PF2 V1/V3 B TABLES		

Selection Screen

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set
Not applicable				

Report (RT):

RT OUTPUT CONDITIONS

The legacy output conditions from the B table will be combined with their corresponding medium / partner and language from table NACH in a report Table called RT_OUPUT_CONDITIONS. An additional column will be added to cater for following exceptions:

- a table / table entry without a Sales organisation
- a table / table entry without a customer
- A duplicate (or more) entry for a customer number (if possible)

As we are dealing with multiple tables with different number of fields, the customer number can be in different positions, and have a different field name:

The customer in the BXXX table can be

- KUNNR
- KNDNR
- KUNAG
- KUNRE
- KUNRG
- KUNWE

The customer number field will be referred to as CUSTNO and depending on the B table will be mapped as follows: (eg. B_TABLE-CUSTNO = B_TABLE-KNDNR if table = B001, B006 etc..)

PF2										WP2						
KNDNR	B001	B006	B866	B867	B876	B891	B938	B989		B001						
KUNNR	B918									B934						
KUNRE	B919	B921	B927	B932	B940	B974				B505	B507	B551	B910	B923	B924	B957
KUNRG	B937	B966	B973	B998												
KUNAG										B572	B889					
KUNWE										B953	B962	B964				

Data Transformation:

RT OUTPUT CONDITIONS

The target audience for the Output Conditions Report is:

- the L2C functional team responsible for uploading the various OPD decision tables. These tables will be reviewed by the business.
- the L2C data team as the L2C functional team may need to update the Business Partners sales view. (TBC)
 - Each BP's default Medium will be held in Customer Group 4 (sales) and 5 (billing) rather than being an entry in the Decision table (TBC)
 - The extraction will allow the following:
 - a table entry that leads to multiple output Mediums in NACH for the same partner
 - a table entry that leads to multiple output Mediums in NACH and partner depending on the condition type
 - New rules need to be agreed by the business and added to manage multiple table entries

Field Name	Field Description	Source	Rule	Target Table		Target Field	Transformation Logic
<u>TRANSFORMATION LOGIC:</u>							
There are 3 types of B tables							

- B* tables without Sales Org
- B* tables with Sales Org: (they will only be included if they belong to a relevant sales org)
 - B* tables without Customer number (with many entries)
 - B* table with Customer number

EXCEPTION = "MISSING ORG" - entry added to report

EXCEPTION = "NO CUSTOMER" - entry added to report

B* Tables and NACH table are linked via field KNUMH. The purpose of the transformation is

- to obtain the NACH table entry or entries that contains the customer number. The customer number information is contained in NACH-VAKEY and can be the last field (RIGHT,10) or the 2nd field (MID, 4,10) for B919,B940,B940 , B924.
- to obtain NACH entries for the relevant sales organisations if customer no is not available.

The NACH table entry will also contain the output partner (NACH-PARVW) and medium (NACH-NACHA)

It is possible to find multiple entries for a given customer, all the entries will be added to the **RT_OUTPUT_CONDITIONS** and a rule defined by the business will select the relevant one.

As the material number is not available, the sales org transformation should assign all relevant target sales orgs and add them.

B* tables where there is no Sales organisation:

IF TABLE-NAME IN B891,B918,B919,B921,B927,B932,B937,B938 THEN

- EXCEPTION = "MISSING SORG"

ELSE

(exclude entries from not relevant Sales Organisation or Customer)

SELECT from WP2-BXXX where VKORG is in scope and KUNNR is in scope

SELECT from PF2-BXXX where VKORG is in scope and KUNNR is in scope

IF TABLE-NAME IN B005 , B995

- RT_OUTPUT-VKORG = LEFT (NACH-VAKEY,4)
- EXCEPTION = "NO CUSTOMER"

IF TABLE-NAME IN B891,B918,B919,B921,B927,B932,B937,B938 THEN

READ NACH (using KNUMH number) where

NACH-KVEWE = 'B'

NACH-KAPPL = B_TABLE-KAPPL

NACH-KSCHL = B_TABLE-KSCHL

NACH-KNUMH = B_TABLE_KNUMH

NACH-KOTABNR = B_TABLE-NAME

RIGHT(NACH-VAKEY,10) = B_TABLE-CUSTNO IF TABLE-NAME <> B919 OR B940 OR B940 OR B924

ELSE (second field) MID (NACH-VAKEY,4,10) = B_TABLE-CUSTNO

RT_OUTPUT-CUSTNO = B-TABLE-CUSTNO

RT_OUTPUT-PARVW = NACH-PARVW

RT_OUTPUT-CHANNEL = NACH-NACHA

RT-OUTPUT-LANGUAGE = NACH-SPRAS

ADD ENTRY TO TABLE

RT-OUTPUT_CONDITIONS STRUCTURE:

SYSTEM	System PF2/WP2	B*		RT_OUTPUT_CONDITIONS		SYSTEM	Copy 1:1
APP	V1 or V3	B*		RT_OUTPUT_CONDITIONS		APP	Copy 1:1
TABLE		B*		RT_OUTPUT_CONDITIONS		TABLE	Copy 1:1
KSCHL		B*		RT_OUTPUT_CONDITIONS		CONDITION	Copy 1:1
VKORG	Target Sales org	B*	If Mapping is 1:N Exception = "LEGACY"	RT_OUTPUT_CONDITIONS		S4 SALES ORG	If mapping is 1:1 ▪ MAP-VKORG Else ▪ Copy 1:1 (keep Legacy)
VTWEG	Distr Channel	B*		RT_OUTPUT_CONDITIONS		DIST CHANNEL	• Copy 1:1
SPART	Division	B*		RT_OUTPUT_CONDITIONS		DIVISION	

							• Copy 1:1
AUART	Sales order Type	B*		RT_OUTPUT_CONDITIONS		ORDER TYPE	• Copy 1:1
FKART	Billing Type	B*		RT_OUTPUT_CONDITIONS		BILLING TYPE	• Copy 1:1
VKBUR	Sales office	B*		RT_OUTPUT_CONDITIONS		SALES OFFICE	• Copy 1:1
LAND1	Country	B*		RT_OUTPUT_CONDITIONS		COUNTRY	• Copy 1:1
BSARK	Purchase order type	B*		RT_OUTPUT_CONDITIONS		PO TYPE	▪ Copy 1:1
VKGRP	Sales group	B*		RT_OUTPUT_CONDITIONS		SALES GROUP	• Copy 1:1
CUSTNO	Legacy Customer number	B*		RT_OUTPUT_CONDITIONS		CUSTOMER NO	B_TABLE_CUSTNO
CUSTNO	Target Customer number	B*		RT_OUTPUT_CONDITIONS		S4 CUSTOMER NO	Customer-XREF
NAME1	Customer name	ADRC	Read customer name from ADRC-NAME1	RT_OUTPUT_CONDITIONS		CUSTOMER NAME	• Copy 1:1
PARVW	Partner type	NACH		RT_OUTPUT_CONDITIONS		PARTNER TYPE	• Copy 1:1
NACHA	Output Medium	NACH		RT_OUTPUT_CONDITIONS		MEDIUM	• Copy 1:1
SPRACH	Language	NACH		RT_OUTPUT_CONDITIONS		LANGUAGE	• Copy 1:1
				RT_OUTPUT_CONDITIONS		EXCEPTION CODE	

RT OPD DECISION TABLES

The L2C functional team is responsible for uploading the information in the OPD decision tables. Some tables are mainly replacing the legacy condition configuration, and will be populated with predefined values first for business review and update

BRF+ provides a built-in feature to **download and upload decision tables** as Excel files.

Steps:

1. Go to BRF+ application in transaction **BRF+**
2. Open the **Decision Table** object.
3. From the **Table Maintenance** screen:
 - Click on **"Download to Excel"** system exports the current content and structure.
 - Fill in or update the Excel file offline.
 - Use **"Upload from Excel"** to import back.

Note:

- **Each table must be handled individually.**
 - **The creation of Data collection template must be aligned with BRF+ configurations .** For now, the following Templates are based on interim configurations (from S/4HANA sandbox). This will be replaced once the configuration is ready. The same applies to the contents of the DTs, they are here as examples of how the entries look like and will be replaced by real objects .
1. DT_OUTPUT_TYPE
 2. DT_RECEIVER
 3. DT_OUTPUT_CHANNEL
 4. DT_EMAIL_SETTING
 5. DT_EMAIL_RECEIVER
 6. DT_OUTPUT_RELEVANCE
 7. DT_FORM_TEMPLATE

SALES DECISION TABLES

DT OUTPUT TYPE:

DT Rules:

Name	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
SDDOCUMENTCATEGORY	Document Cat.		Element (Text)	VBTYPL	4	0				
SALESDOCUMENTTYPE	Sales Doc. Type		Element (Text)	AUART	4	0		X		
OUTPUT_TYPE	Output Type	X	Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
DISPATCH_TIME	Dispatch Time	X	Element (Text)	APOC_OR_DISPATCH_TIME	1	0		X		

DT Template:

Document Cat.	Sales Doc. Type	Output Type	Dispatch Time
=C	=OR	Z_ORDER_ACKNOWLEDGEMENT_EMAIL	2
=C	<>BV ; exclude =SO01 ; =CCIS	ORDER_CONFIRMATION	1
=C	<>BV ; exclude =SO01 ; =CCIS	ORDER_CONFIRMATION_CHANGE	1
=C	=BV	CASH_SALE	1
=A		SALES_INQUIRY	1

DT RECEIVER: (Partner)**DT Rules:**

DT_RECEIVER										
	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE Name	Role	X	Element (Text)	APOC_ROLE_CODE	2	0		X		
EXCLUSIVE_IND	Exclusive Indicator	X	Element (Text)	APOC_EXCLUSIVE_INDICATOR	1	0		X		

DT Template:

Output Type	Role	Exclusive Indicator
=Z_ORDER_ACKNOWLEDGEMENT_EMAIL	AP	-
=ORDER_CONFIRMATION	AP	-
=ORDER_CONFIRMATION	AG	-
=ORDER_CONFIRMATION_CHANGE	AG	-
=CASH_SALE	RE	-
=CASH_SALE_CHANGE	RE	-
=CUSTOMER_RETURN	AG	-
=CUSTOMER_RETURN_CHANGE	AG	-
=DEBIT_MEMO_REQUEST	ZM	-
=DEBIT_MEMO_REQUEST_CHANGE	ZM	-
=CREDIT_MEMO_REQUEST	ZM	-

DT CHANNEL: (Medium)**DT Rules:**

Name	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role		Element (Text)	APOC_ROLE_CODE	2	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
DISTRIBUTIONCHANNEL	Distr. Channel		Element (Text)	VTWEG	2	0		X		
ORGANIZATIONDIVISION	Division		Element (Text)	SPART	2	0		X		
SALESOFFICE	Sales Office		Element (Text)	VKBUR	4	0		X		
BUSINESS_PARTNER_ID	Recipient		Element (Text)	APOC_RECEIVER_ID	10	0		X		
SALESDOCUMENTTYPE	Sales Doc. Type		Element (Text)	AUART	4	0		X		
OVRLITMGGENERALINCOMPLETIONSTS	All Items		Element (Text)	UVALL_SU	1	0		X		
CHANNEL	Channel	X	Element (Text)	APOC_CHANNEL	5	0		X		
EXCLUSIVE_IND	Exclusive Indicator	X	Element (Text)	APOC_EXCLUSIVE_INDICATOR	1	0		X		

DT Template:

Output Type	Role	Sales Org.	Distr. Channel	Division	Sales Office	Recipient	Sales Doc. Type	All Items	Channel	Exclusive Indicator
=Z_ORDER_ACKNOWLEDGEMENT_EMAIL									EMAIL	-
=ORDER_CONFIRMATION	=AP								EMAIL	-
=ORDER_CONFIRMATION	=AG								PRINT	-
=ORDER_CONFIRMATION	=AG	=1001					=OR		EDI	-
=ORDER_CONFIRMATION	=AG								PRINT	-
=ORDER_CONFIRMATION_CHANGE									PRINT	-
=CASH_SALE									PRINT	-

DT EMAIL RECEIVER:**DT Rules:**

Name	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role		Element (Text)	APOC_ROLE_CODE	2	0		X		
EMAIL_ROLE	Email Type Code	X	Element (Text)	APOC_EMAIL_ROLE_CODE	5	0		X		
EMAIL_URI	E-Mail Address	X	Element (Text)	AD_SMTPADR	241	0				

DT Template:

Output Type	Role	Email Role	Email URI
=Z_ORDER_ACKNOWLEDGEMENT_EMAIL	=AP	TO	
=ORDER_CONFIRMATION	=AP	TO	
=ORDER_CONFIRMATION	=AG	TO	

DT_EMAIL_SETTING:DT Rules:

Name	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role		Element (Text)	APOC_ROLE_CODE	2	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
DISTRIBUTIONCHANNEL	Distr. Channel		Element (Text)	VTWEG	2	0		X		
ORGANIZATIONDIVISION	Division		Element (Text)	SPART	2	0		X		
SALESOFFICE	Sales Office		Element (Text)	VKBUR	4	0		X		
EMAIL_FROM	Sender Email	X	Element (Text)	APOC_SENDER_EMAIL_ADDR	241	0				
EMAIL_TEMPLATE_ID	Email Template	X	Element (Text)	APOC_EMAIL_TEMPLATE	30	0		X		

DT Template:

Output Type	Role	Sales Org.	Distr. Channel	Division	Sales Office	Sender Email	Email Template
=ORDER_CONFIRMATION	=AG	=1001				jatin.somaiya-ext@syensqo.com	SD_SLS_DEFAULT_EMAIL_TEMPLATE
=ORDER_CONFIRMATION		=1001				jatin.somaiya-ext@syensqo.com	SD_SLS_DEFAULT_EMAIL_TEMPLATE
=Z_ORDER_ACKNOWLEDGEMENT_EMAIL	=AP					jatin.somaiya-ext@syensqo.com	SD_SLS_DEFAULT_EMAIL_TEMPLATE

DT_OUTPUT_RELEVANCE:DT Rules:

Name	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
OVERALLPURCHASECONFSTATUS	Purg Conf. Sts		Element (Text)	COSTA_D	1	0		X		
HDRGENERALINCOMPLETIONSTATUS	Overall Header		Element (Text)	UVALL_UK	1	0		X		
TOTALCREDITCHECKSTATUS	OverallCredStat		Element (Text)	CMGST	1	0		X		
DELIVERYBLOCKREASON	Delivery Block		Element (Text)	LIFSK	2	0		X		
HEADERBILLINGBLOCKREASON	Billing Block		Element (Text)	FAKSK	2	0		X		
OVLITMGGENERALINCOMPLETIONSTS	All Items		Element (Text)	UVALL_SU	1	0		X		
RELEVANCE_IND	Relevance Indicator	X	Element (Text)	APOC_RELEVANCE_INDICATOR	1	0		X		
OVLITMGGENERALINCOMPLETIONSTS	All Items		Element (Text)	UVALL_SU	1	0		X		
CHANNEL	Channel	X	Element (Text)	APOC_CHANNEL	5	0		X		
EXCLUSIVE_IND	Exclusive Indicator	X	Element (Text)	APOC_EXCLUSIVE_INDICATOR	1	0		X		

DT Template:

Output Type	Purg Conf. Sts	Overall Header	OverallCredStat	Delivery Block	Billing Block	All Items	Relevance Indicator	All Items	Channel	Exclusive Indicator
=Z_ORDER_ACKNOWLEDGEMENT	= " "						" "		EMAIL	-

_EMAIL										
=ORDER_CONFIRMATION	=C ; =" "	=C	contains not any 'BC'	is initial		=C	X		EMAIL	-
=ORDER_CONFIRMATION_CHANGE	=C ; =" "	=C	contains not any 'BC'	is initial		=C	X		PRINT	-
=CASH_SALE		=C	contains not any 'BC'	is initial	is initial		X		EDI	-
=CASH_SALE_CHANGE		=C	contains not any 'BC'	is initial	is initial		X		PRINT	-
=CUSTOMER_RETURN		=C	contains not any 'BC'	is initial			X			
=CUSTOMER_RETURN_CHANGE		=C	contains not any 'BC'	is initial			X			
=ORDER_WO_CHARGE	=C ; =" "	=C	contains not any 'BC'	is initial			X			
=ORDER_WO_CHARGE_CHANGE	=C ; =" "	=C	contains not any 'BC'	is initial			X			
=DEBIT_MEMO_REQUEST		=C	contains not any 'BC'		is initial		X			
=CREDIT_MEMO_REQUEST		=C	contains not any 'BC'		is initial		X			

DT FORM TEMPLATE:

DT_Rules

Name	Description(Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
SALESORGANIZATION	Sales Org		Element (Text)		1	0		X		
DISTRIBUTIONCHANNEL	Distribution Channel		Element (Text)		1	0		X		
DIVISION	Division		Element (Text)		1	0		X		
SALESOFFICE	Sales Office		Element (Text)		2	0		X		
ROLE	Role		Element (Text)		2	0		X		
CHANNEL	Channel		Element (Text)		1	0		X		
SENDER_COUNTRY	Sender Ctry/Reg		Element (Text)		2	0		X		
RECEIVER_COUNTRY	Receiver Ctry/Reg		Element (Text)		2	0		X		
RECEIVER_LANGUAGE	Receiver Language		Element (Text)		2	0		X		
FORM_TEMPLATE_NAME	Form template Name	X	Element (Text)			0		X		
FORM_TEMPLATE_LANGUAGE	Form template Language	X	Element (Text)							

DT Template:

Output Type	Sales Org	Distribution Channel	Division	Sales Office	Role	Channel	Sender Ctry/Reg	Receiver Ctry/Reg	Receiver Language	Form template Name	Form Template Language
=Z_ORDER_ACKNOWLEDGEMENT_EMAIL	= " "						" "			X	X

BILLING DECISION TABLES

DT OUTPUT TYPE:

DT Rules:

Name	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
SDDOCUMENTCATEGORY	Document Cat.		Element (Text)	VBTYPL	4	0				
BILLINGDOCUMENTTYPE	Billing Type		Element (Text)	FKART	4	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
DISTRIBUTIONCHANNEL	Distr. Channel		Element (Text)	VTWEG	2	0		X		
DIVISION	Division		Element (Text)	SPART	2	0		X		
SALESOFFICE	Sales Office		Element (Text)	VKGRP	2	0		X		
SALESGROUP	Sales Group		Element (Text)	VKBUR	4	0		X		
Bill to party	Bill to party		Element (Text)	KUNNR	10	0		X		
OUTPUT_TYPE	Output Type	X	Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
DISPATCH_TIME	Dispatch Time	X	Element (Text)	APOC_OR_DISPATCH_TIME	1	0		X		

DT Template:

Document category	Billing Doc Type	Sales Org	Distribution Channel	Division	Sales Office	Sales Group	Bill-to Partner	Output Type	Dispatch Time
								X	X

DT RECEIVER: (Partner)

DT Rules:

DT_RECEIVER										
	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role	X	Element (Text)	APOC_ROLE_CODE	2	0		X		
EXCLUSIVE_IND	Exclusive Indicator	X	Element (Text)	APOC_EXCLUSIVE_INDICATOR	1	0		X		

DT Template:

Output Type	Role	Exclusive Indicator

DT CHANNEL: (Medium)

DT Rules:

	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role		Element (Text)	APOC_ROLE_CODE	2	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
DISTRIBUTIONCHAN			Element							

NEL	Distr. Channel		(Text)	VTWEG	2	0		X		
DIVISION	Division		Element (Text)	SPART	2	0		X		
SALESOFFICE	Sales Office		Element (Text)		2	0		X		
BUSINESS_PARTNER_ID	Recipient		Element (Text)	APOC_RECEIVER_ID	10	0		X		
CUSTOMERGROUP5	Customer Group 5		Element (Text)	KDGRP	2	0		X		
CHANNEL	Channel	X	Element (Text)	APOC_CHANNEL	5	0		X		
EXCLUSIVE_IND	Exclusive Indicator	X	Element (Text)	APOC_EXCLUSIVE_INDICATOR	1	0		X		

DT PRINTER

DT Rules:

	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
DISTRIBUTIONCHANNEL	Distr. Channel		Element (Text)	VTWEG	2	0		X		
DIVISION	Division		Element (Text)	SPART	2	0		X		
SALESOFFICE	Sales Office		Element (Text)		2	0		X		
BILLINGDOCUMENTTYPE	Billing Type		Element (Text)	FKART	4	0		X		
PRINT_QUEUE_NAME	Print Queue	X	Element (Text)	APOC_PRINT_QUEUE	32	0		X		
NUMBER_OF_COPIES	Number of Copies	X	Element (Number)	APOC_NUMBER_OF_COPIES	5	0	X			

DT EMAIL SETTING

DT Rules:

	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role		Element (Text)	APOC_ROLE_CODE	2	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
DISTRIBUTIONCHANNEL	Distr. Channel		Element (Text)	VTWEG	2	0		X		
DIVISION	Division		Element (Text)	SPART	2	0		X		
SALESOFFICE	Sales Office		Element (Text)		2	0		X		
BILLINGDOCUMENTTYPE	Billing Type		Element (Text)	FKART	4	0		X		
EMAIL_FROM	Sender Email	X	Element (Text)	APOC_SENDER_EMAIL_ADDRESS	241	0				
EMAIL_TEMPLATE_ID	Email Template	X	Element (Text)	APOC_EMAIL_TEMPLATE	30	0		X		

DT EMAIL RECEIVER

DT Rules:

	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
ROLE	Role		Element (Text)	APOC_ROLE_CODE	2	0		X		

EMAIL_ROLE	Email Type Code	X	Element (Text)	APOC_EMAIL_ROLE_CODE	5	0		X		
EMAIL_URI	E-Mail Address	X	Element (Text)	AD_SMTPADR	241	0				

DT FORM TEMPLATE: ()

DT Rules:

	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
SENDER_COUNTRY	Sender Ctry /Reg.		Element (Text)	APOC_SENDER_COUNTRY	3	0		X		
RECEIVER_COUNTRY	Recipient Ctry /Reg.		Element (Text)	APOC_RECEIVER_COUNTRY	3	0		X		
RECEIVER_LANGUAGE	Recipient Language		Element (Text)	APOC_RECEIVER_LANGUAGE	1	0				
SDDOCUMENTCATEGORY	Document Cat.		Element (Text)	VBTYPL	4	0				
BILLINGDOCUMENTTYPE	Billing Type		Element (Text)	FKART	4	0		X		
FORM_TEMPLATE_NAME	Form Template	X	Element (Text)	APOC_FORM_TEMPLATE_ID	30	0		X		
FORM_TEMPLATE_LANGUAGE	Form Language	X	Element (Text)	APOC_FORM_TEMPLATE_LANGUAGE	1	0				

DT Template:

Output Type	Sales Org	Sender Country/Reg	Recipient Ctry/Reg.	Recipient Language	Document Cat.	Billing Type	Form template Name	Form Template Language
	" "						X	X

DT OUTPUT RELEVANCE: ()

DT Rules:

	Description (Text)	Result Column	Type	Binding	Length	Decimals	Only Positive	Only Uppercase	Timepoint Type	Dimension Key
OUTPUT_TYPE	Output Type		Element (Text)	APOC_OUTPUT_TYPE	30	0		X		
SDDOCUMENTCATEGORY	Document Cat.		Element (Text)	VBTYPL	4	0				
ACCOUNTINGTRANSFERS STATUS	Posting Status		Element (Text)	RFBSK	1	0		X		
BILLINGDOCUMENTTYPE	Billing Type		Element (Text)	FKART	4	0		X		
SALESORGANIZATION	Sales Org.		Element (Text)	VKORG	4	0		X		
Bill to party	Bill to party		Element (Text)	KUNNR	10	0		X		
RECEIVER_COUNTRY	Recipient Ctry /Reg.		Element (Text)	APOC_RECEIVER_COUNTRY	3	0		X		
RELEVANCE_IND	Relevance Indicator	X	Element (Text)	APOC_RELEVANCE_INDICATOR	1	0		X		

DT Template:

Output Type	Document Cat.	Posting status	Billing Type	sales Org	Bill-to partner	Recipient Ctry/Reg.	Relevance Indicator	All Items	Channel	Exclusive Indicator
	" "						" "		EMAIL	-

Extraction Dependencies

Item #	Step Description	Team Responsible
1	Source System Availability - Ensure that the source database or application is accessible. - Confirm that necessary credentials and permissions are granted	Syensqo IT
2	Data Structure Identify relationships between tables, views, and stored procedures.	Syniti
3	Referential Integrity Ensure dependent records are extracted together.	Syniti
4	Extraction Methodology - Define whether extraction is full, incremental, or delta-based. - Establish batch processing schedules for large datasets.	Syniti
5	Performance and Scalability Considerations - Optimize extraction queries to prevent system overload. - Ensure network bandwidth supports data transfer volumes.	Syniti
6	Security and Compliance Adhere to regulatory standards for sensitive information if applicable	Syniti

Transformation

There will be no transformation on the legacy data. The data will be used to help design / complete the new decision tables in S/4 Hana.

Transformation Run Sheet

Item #	Step Description	Team Responsible
	Finalized mapping document approved by Functional and Business teams.	
	Completion of source data extraction and cleansing.	
	Availability of default values for S/4 mandatory fields.	

Legacy condition tables setup:

Please note that there is no direct mapping between the output condition types and the BRF+ output types. Not all Communication medium will be used in OPD. The tables below are used as guidelines as how the outputs will be managed in S/4.

Legacy Communication Medium to OPD Channel:

Application	MEDIUM	CHANNEL
V1/V3	ALE	

WP2	V1	ZTP1	TP - Mail creat	ORDER_CONFIRMATION						156	
PF2	V3	RD04	RD04 InvoiceReceipt FI IV								2997
PF2	V3	RD06	RD06 Inv. Bridge ERP /RCS								
PF2	V3	ZF00	ZF00 Invoice		1025	1053					
PF2	V3	ZF01	ZF01 Invoice (C. Cust.)		204	168					
PF2	V3	ZF02	ZF02 Invoice (C. Acc. Dep)		2100						
PF2	V3	ZF06	ZF06 Invoice (C.Loc.cur.)		5						
PF2	V3	ZF0R	ZF0R Invoice archive		443						
PF2	V3	ZF15	ZF15 Customs/Prof Invoice		64579	232					
PF2	V3	ZF16	ZF16 Export document								
PF2	V3	ZF17	ZF17 Customs Invoice (C)			296					
PF2	V3	ZF1R	ZF1R Inv. archive w/o T&C								
PF2	V3	ZF99	ZF99 Invoice (Copy BG)								
PF2	V3	ZFCF	ZFCF Invoice (C. Frwd)		27						
PF2	V3	ZFEI	ZFEI Excise Invoice IN		29						
PF2	V3	ZFIL	ZFIL Invoice list		66						
PF2	V3	ZFIM	ZFIM Invoice list(C.Cust)			25					
PF2	V3	ZFMX	ZFMX Invoice (MX)								
PF2	V3	ZQBC	ZQBC Batch cert for India								
WP2	V3	RD04	Invoice Receipt MM				191				
WP2	V3	ZCOR	Cert of Origin(Asia)		21						
WP2	V3	ZEID	IN Excise inv depot		105						
WP2	V3	ZEIG	IN Form 403 gujarat		225						
WP2	V3	ZEII	IN Excise invoice		225						
WP2	V3	ZFMX	XML invoice (MX)						108		
WP2	V3	ZGSC	IN GST Credit Memo		1						
WP2	V3	ZGSE	IN GST Exportinvoice		17						
WP2	V3	ZGST	IN GST invoice		112		14				
WP2	V3	ZGSU	IN GST Subcontractin		18						
WP2	V3	ZINV	EDI: Invoice								86
WP2	V3	ZLOT	Batch number recov.						5		
WP2	V3	ZPI3	Pilotage						4492		
WP2	V3	ZPLD	Pack List (Dropship)		84						
WP2	V3	ZQBC	Batch cert for India		18						
WP2	V3	ZQCA	COA for deliveries						153		
WP2	V3	ZRAC	Original Inv Aero		1163						
WP2	V3	ZRAR	Invoice archive		22166						
WP2	V3	ZRB0	Original Asian Inv		1447						
WP2	V3	ZRB1	duplicata Asian Inv		46						
WP2	V3	ZRBI	Asian Pro-forma INV		4						
WP2	V3	ZRD0	Original Invoice		221						
WP2	V3	ZRD1	Invoice		215						
WP2	V3	ZRD2	Invoice comm. assit		1						
WP2	V3	ZRD3	Invoice for accounti		125						
WP2	V3	ZRD5	Export Invoice		172						
WP2	V3	ZRD6	Plant Invoice		277						
WP2	V3	ZRD7	Inv for plant abroad		1						
WP2	V3	ZRD8	Orig Inv Letter		40						
WP2	V3	ZRDA	Invoice Direct Ship.				328				
WP2	V3	ZRDB	IntercoBridg RCS/ERP				78				

WP2	V3	ZRDC	eInvoice PDF by mail							1522	
WP2	V3	ZRDD	Invoice Customs Mono		4						
WP2	V3	ZRDE	Inv by mail to ZI							829	
WP2	V3	ZRDF	Proforma Inv.RE		5						
WP2	V3	ZREI	Trad revers ex inv								417
WP2	V3	ZRLA	Letter of Auth. CN		199						
WP2	V3	ZRLR	Invoice List		29						
WP2	V3	ZRM6	PDF Invoice by email						141		
WP2	V3	ZRMX	Invoice mexico		129						
WP2	V3	ZRN5	Export Invoice Lett		38						
WP2	V3	ZRN6	Plant Invoice Letter		195						
WP2		ZRS1	Invoice Cust. copy		4						
WP2		ZRS2	ORD RESP APRIS INDEN		2001						
WP2		ZRS5	Export Invoice		165						
WP2		ZRS6	Plant Invoice		39						
WP2		ZRSC	Original Invoice GTC		219						
WP2		ZRWF	Workflow							48	

List of Custom Target Reports for this object is maintained here: [Conversion Specification - Custom Reports Register](#).

Transformation Mapping

Mapping Table Name	Mapping Table Description
Not Applicable	

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Decision Tables are complete	Functional Team (L2C) + Data Team (L2C)
2	OPD configuration is complete	Functional Team (L2C) + Data Team (L2C)
3	Org structure configuration is complete	Functional Team (L2C) + Data Team (L2C)
4	Dependent Master Data records for Customer and Material are loaded	Functional Team (L2C) + Data Team (L2C)

PreLoad Validation

Project Team

Completeness

Task	Action
Configuration	Ensure necessary configurations are in place in target system
Check Values	Validate the pre-load data confirming the values are aligned with BRF+ configuration
Validate template structure and required field population	Ensure mandatory fields as per the definition table are available

Accuracy

Task	Action
Perform format validation (if relevant)	Standardize format to match SAP accepted input (e.g., YYYYMMDD for dates)
Conduct dry runs using BRF+ Simulations	Analyze load results and correct format or conversion errors

Business

Completeness

Task	Action
Completeness	Review and confirm if the extraction contain all the relevant DT and DT entries

Accuracy

Task	Action
Completeness	Review and confirm if the extraction contain all the accurate DT and DT entries

Load

The load process includes:

1. The process will involve downloading the DCT Excel Decision Tables and then uploading the tables into the target system using the standard SAP BRF+ upload functionality .The generated excel files will be used as load files
2. Once the data is loaded to the target system, it will be extracted and prepared for Post Load Data Validation

BRF+ provides a built-in feature to **download and upload decision tables** as Excel files.

Steps:

1. Go to BRF+ application in transaction **BRF+**
2. Open the **Decision Table** object.
3. From the **Table Maintenance** screen:
 - Click on **"Download to Excel"** system exports the current content and structure.
 - Fill in or update the Excel file offline.
 - Use **"Upload from Excel"** to import back.

Load Run Sheet

Each Item represent a Decision table downloaded from Golden Client

There will be Decision tables for sales and Billing.

Item #	Step Description	Team Responsible

DT_OUTPUT_TYPE		
DT_OUTPUT_CHANNEL		
DT_RECEIVER		
DT_EMAIL_SETTING		
DT_EMAIL_RECEIVER		
DT_OUTPUT_RELEVANCE		

Load Phase and Dependencies

Configuration

Item #	Configuration Item
BRF+ configurations	Ensure configurations are complete for the target system and mapping tables are updated accordingly
Organization Data	Ensure configurations for all the organization units are imported into the target system

Conversion Objects

Object #	Preceding Object Conversion Approach
Material Master	Material Master Basic and Sales View
Business Partner	Business Partner Basic and Sales View

Error Handling

Error Type	Error Description	Action Taken
Authorization Errors	Lack of access to execute load in target client/system	Raised access request; obtained necessary authorizations
Obsolete Master Data	Customer or material master data no longer exists in target system	Replaced or removed based on business input
Technical Load Failure	File not processed due to syntax/format error or system issue	Reviewed logs; regenerated file; re-executed load after resolving issue
Missing Dependencies	Dependent records (Order types, business partners, Email Addresses) not available	Reviewed config dependencies; coordinated with config team for correction

PostLoad Validation

Project Team

Completeness

--	--

Task	Action
Download DT in target as described before	

Accuracy

Task	Action

Business

Completeness

Task	Action

Accuracy

Task	Action

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- is in scope based on data design and any exception requested by business.

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 62)	Jan 22, 2026 11:09	THOMAS-ext, Ety	
v. 61	Jan 22, 2026 11:04	THOMAS-ext, Ety	
v. 60	Jan 21, 2026 11:27	THOMAS-ext, Ety	
v. 59	Jan 16, 2026 13:58	THOMAS-ext, Ety	
v. 58	Jan 12, 2026 13:14	THOMAS-ext, Ety	

v. 57	Dec 02, 2025 12:54	THOMAS-ext, Ety
v. 56	Dec 01, 2025 13:59	THOMAS-ext, Ety
v. 55	Dec 01, 2025 13:46	THOMAS-ext, Ety
v. 54	Dec 01, 2025 13:38	THOMAS-ext, Ety
v. 53	Nov 30, 2025 14:04	THOMAS-ext, Ety

[Go to Page History](#)