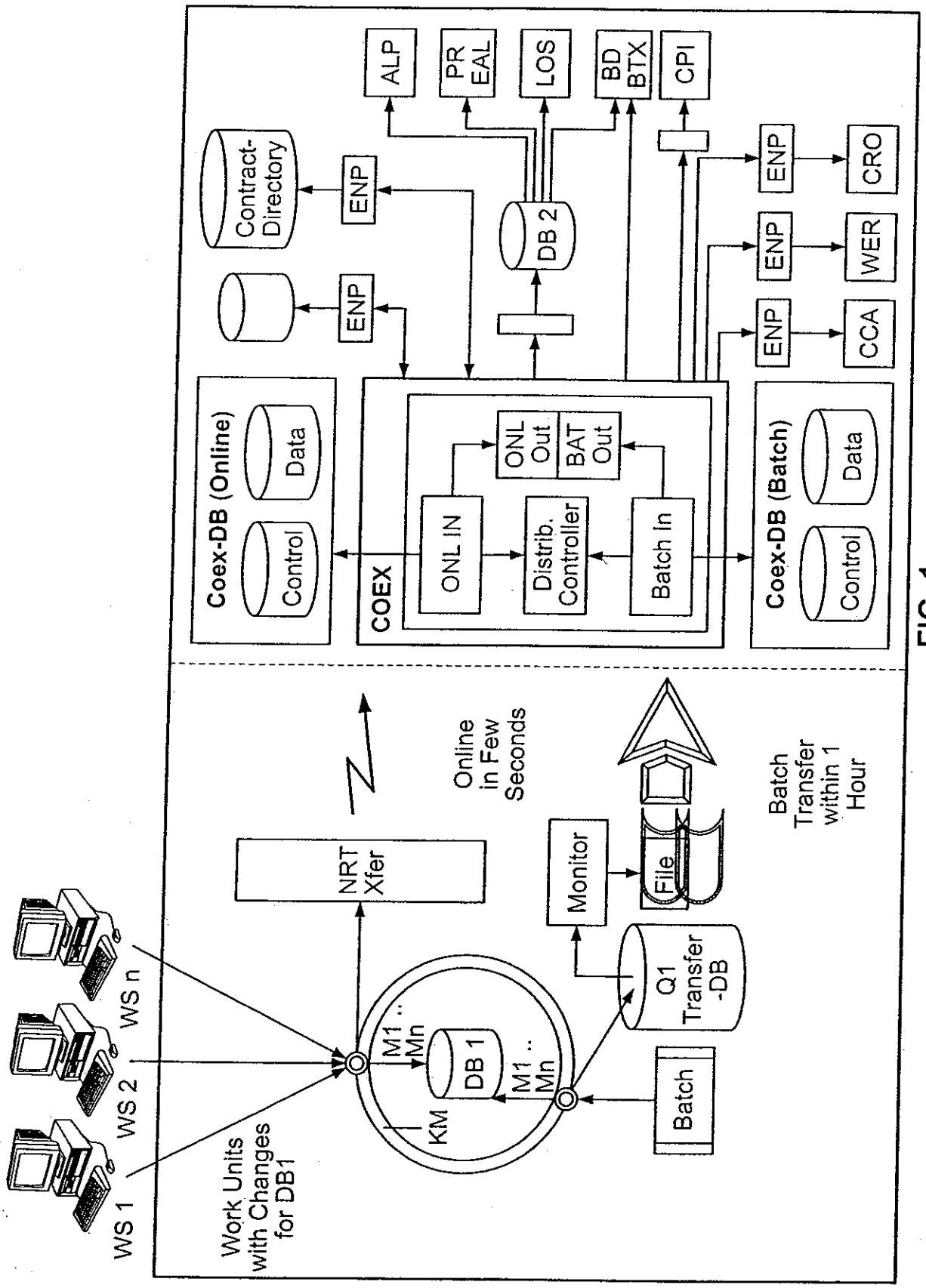

WS 1
WS 2
WS n
Work Units with Changes for DB1
M1 .. Mn
DB 1
M1 .. Mn
KM
NRT Xfer
Online in Few Seconds
Batch
Q1 Transfer -DB
Monitor
File
Batch Transfer within 1 Hour
Coex-DB (Online)
Data
Control
COEX
ONL IN
Distrib. Controller
Batch In
ONL Out
BAT Out
Coex-DB (Batch)
Data
Control
Contract-Directory
ENP
ENP
DB 2
ALP
PR EAL
LOS
BD BTX
CPI
ENP
CRO
ENP
WER
ENP
CCA

FIG. 1

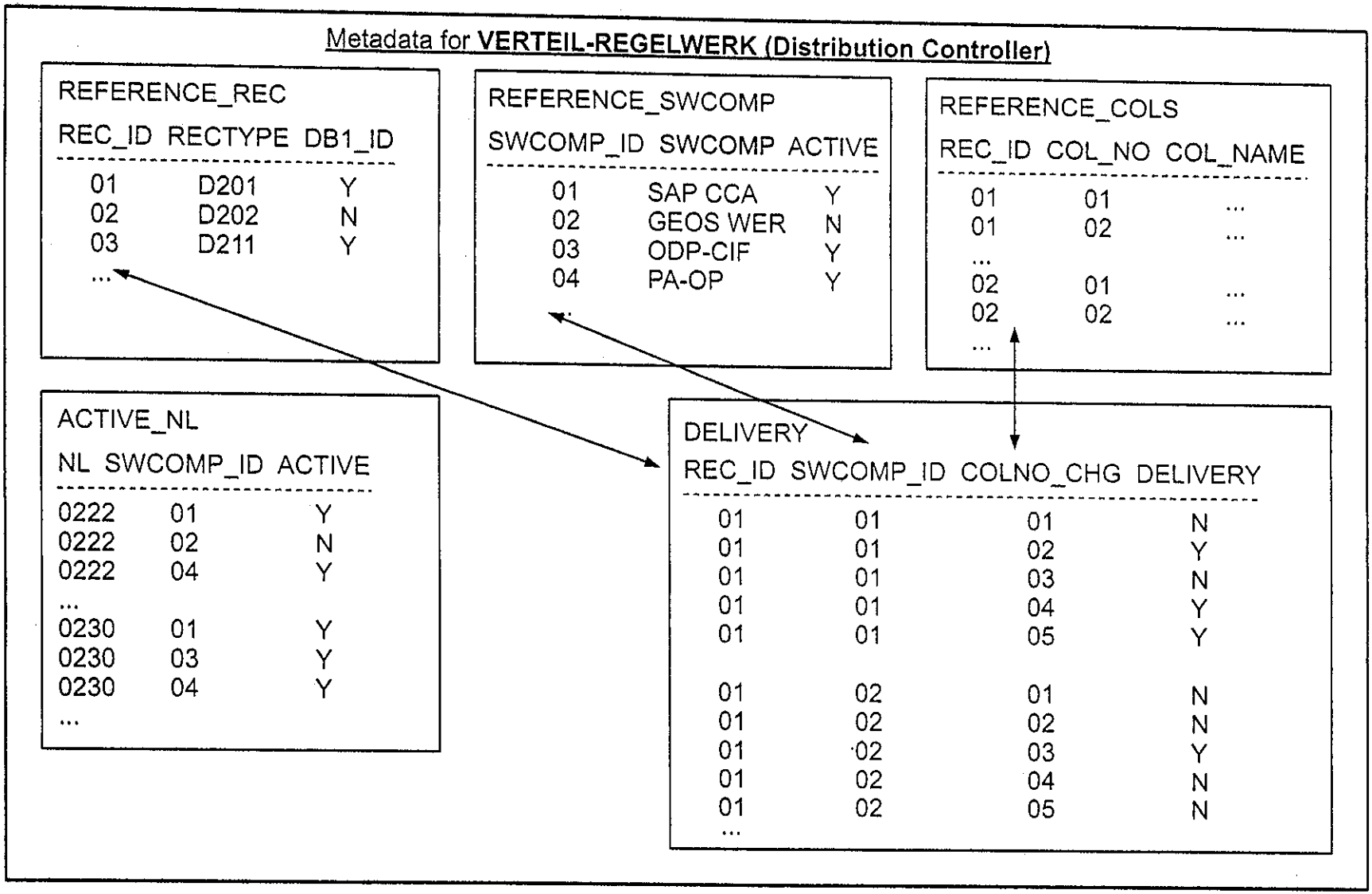

Metadata for VERTEIL-REGELWERK (Distribution Controller)
REFERENCE_REC
REC_ID RECTYPE DB1_ID
01 D201 Y
02 D202 N
03 D211 Y
...
REFERENCE_SWCOMP
SWCOMP_ID SWCOMP ACTIVE
01 SAP CCA Y
02 GEOS WER N
03 ODP-CIF Y
04 PA-OP Y
REFERENCE_COLS
REC_ID COL_NO COL_NAME
01 01 ...
01 02 ...
...
02 01 ...
02 02 ...
ACTIVE_NL
NL SWCOMP_ID ACTIVE
0222 01 Y
0222 02 N
0222 04 Y
...
0230 01 Y
0230 03 Y
0230 04 Y
DELIVERY
REC_ID SWCOMP_ID COLNO_CHG DELIVERY
01 01 01 N
01 01 02 Y
01 01 03 N
01 01 04 Y
01 01 05 Y
01 02 01 N
01 02 02 N
01 02 03 Y
01 02 04 N
01 02 05 N

FIG. 2

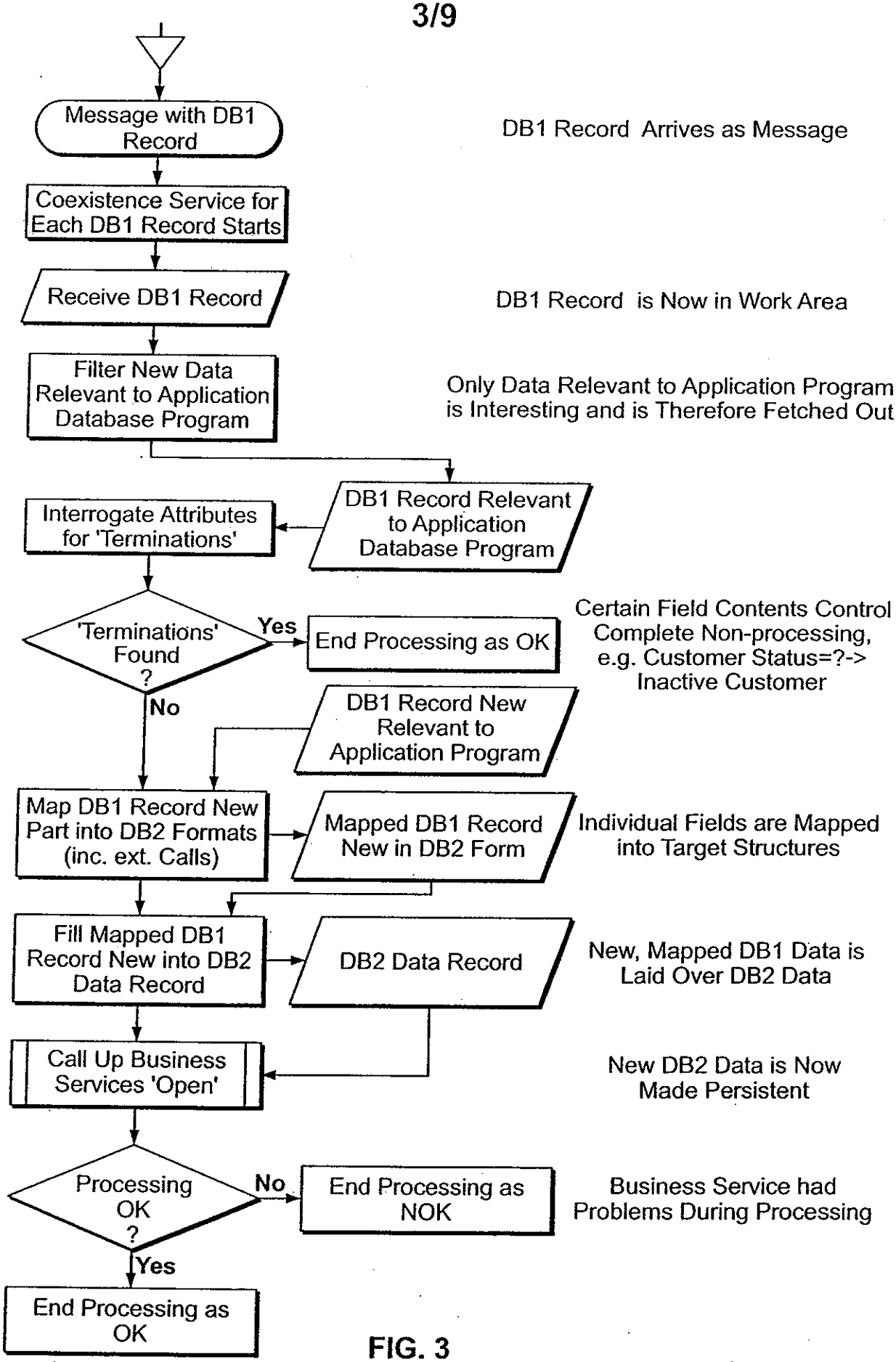

Message with DB1 Record
DB1 Record Arrives as Message
Coexistence Service for Each DB1 Record Starts
Receive DB1 Record
DB1 Record is Now in Work Area
Filter New Data Relevant to Application Database Program
Only Data Relevant to Application Program is Interesting and is Therefore Fetched Out
DB1 Record Relevant to Application Database Program
Interrogate Attributes for 'Terminations'
'Terminations' Found ?
Yes
End Processing as OK
Certain Field Contents Control Complete Non-processing, e.g. Customer Status=?-> Inactive Customer
No
DB1 Record New Relevant to Application Program
Map DB1 Record New Part into DB2 Formats (inc. ext. Calls)
Mapped DB1 Record New in DB2 Form
Individual Fields are Mapped into Target Structures
Fill Mapped DB1 Record New into DB2 Data Record
DB2 Data Record
New, Mapped DB1 Data is Laid Over DB2 Data
Call Up Business Services 'Open'
New DB2 Data is Now Made Persistent
Processing OK ?
No
End Processing as NOK
Business Service had Problems During Processing
Yes
End Processing as OK

FIG. 3

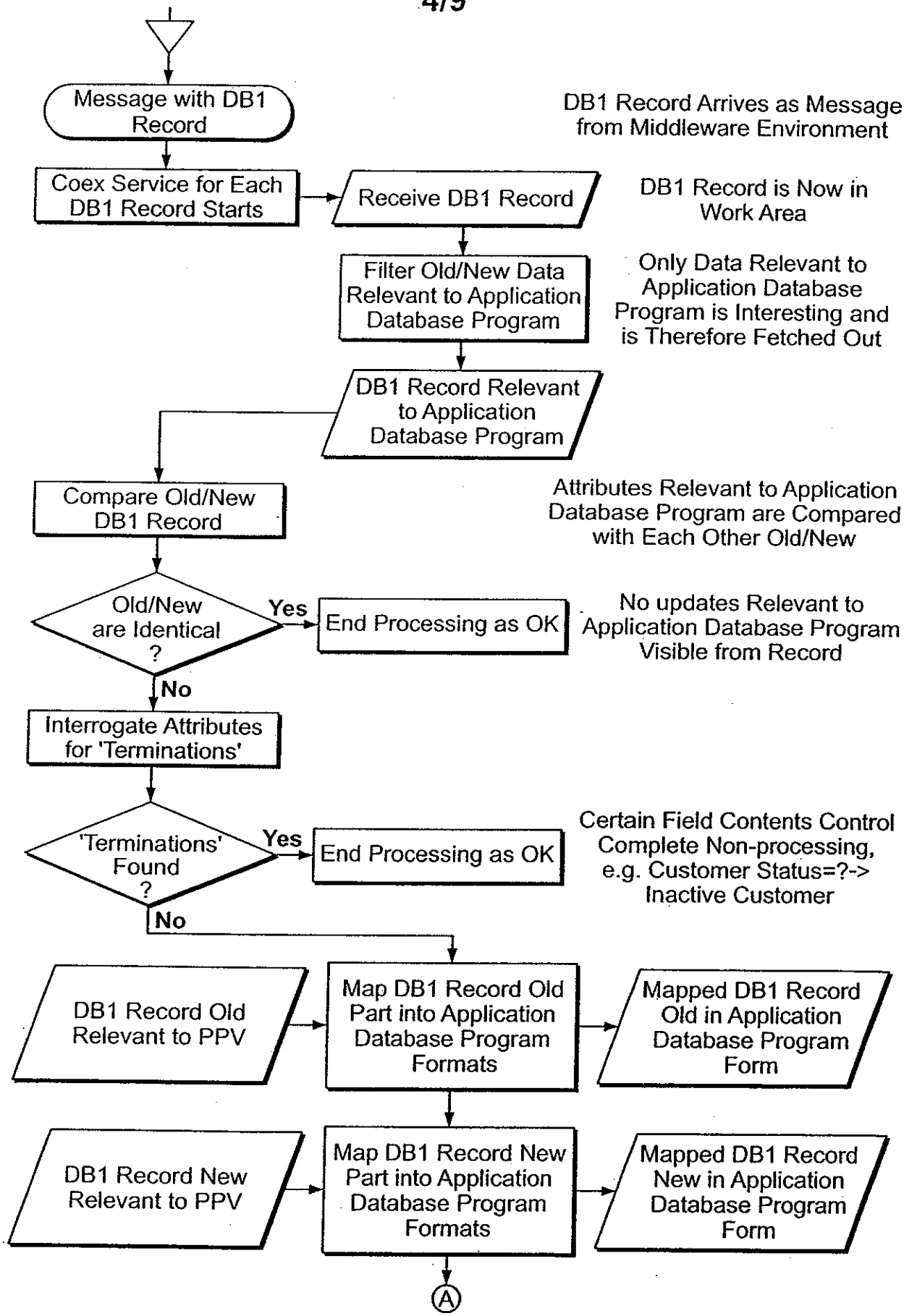

Message with DB1 Record
DB1 Record Arrives as Message from Middleware Environment
Coex Service for Each DB1 Record Starts
Receive DB1 Record
DB1 Record is Now in Work Area
Filter Old/New Data Relevant to Application Database Program
Only Data Relevant to Application Database Program is Interesting and is Therefore Fetched Out
DB1 Record Relevant to Application Database Program
Compare Old/New DB1 Record
Attributes Relevant to Application Database Program are Compared with Each Other Old/New
Old/New are Identical ?
Yes
End Processing as OK
No updates Relevant to Application Database Program Visible from Record
No
Interrogate Attributes for 'Terminations'
'Terminations' Found ?
Yes
End Processing as OK
Certain Field Contents Control Complete Non-processing, e.g. Customer Status=?-> Inactive Customer
No
DB1 Record Old Relevant to PPV
Map DB1 Record Old Part into Application Database Program Formats
Mapped DB1 Record Old in Application Database Program Form
DB1 Record New Relevant to PPV
Map DB1 Record New Part into Application Database Program Formats
Mapped DB1 Record New in Application Database Program Form
A

FIG. 4

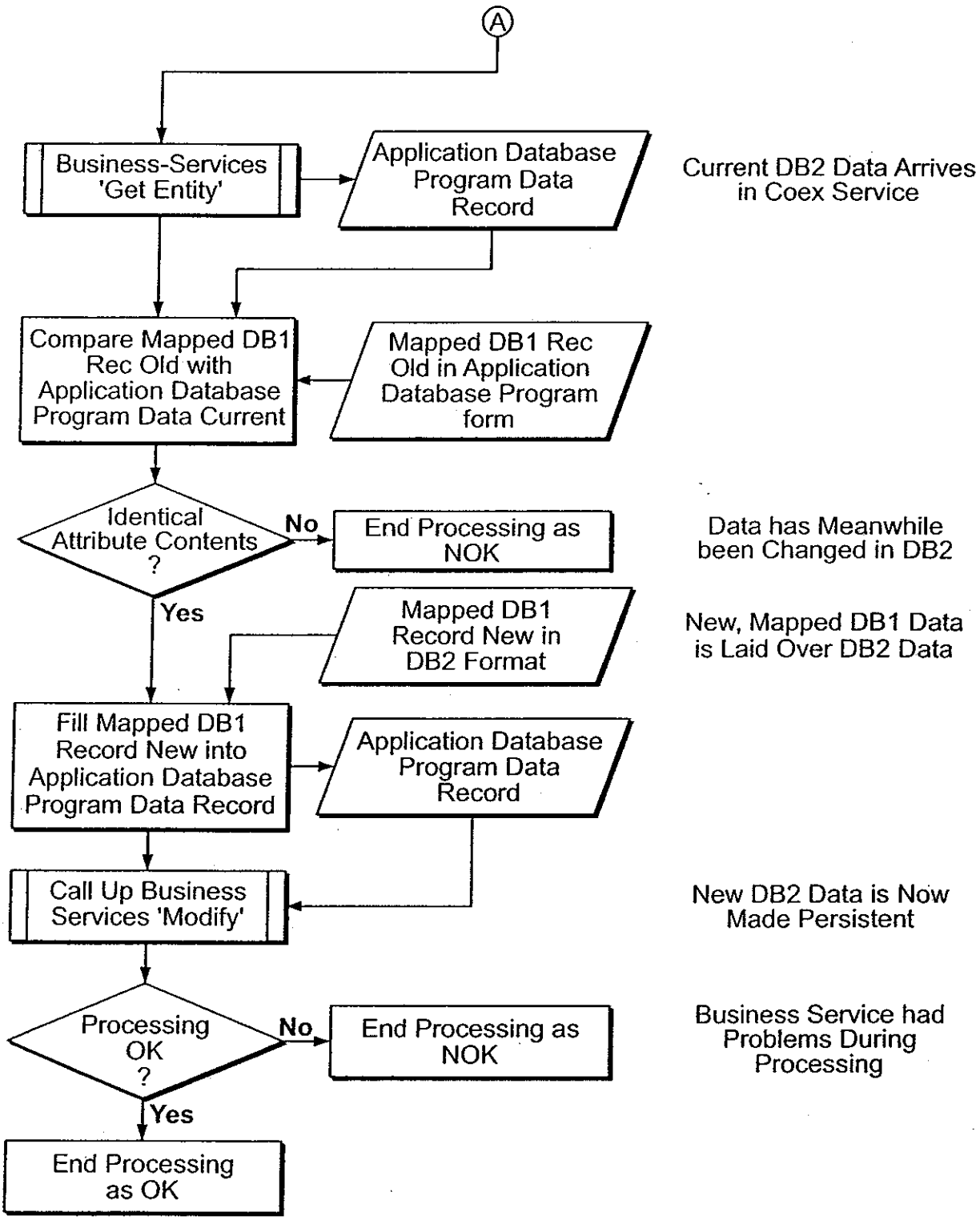

A
Business-Services 'Get Entity'
Application Database Program Data Record
Current DB2 Data Arrives in Coex Service
Compare Mapped DB1 Rec Old with Application Database Program Data Current
Mapped DB1 Rec Old in Application Database Program form
Identical Attribute Contents ?
No
End Processing as NOK
Data has Meanwhile been Changed in DB2
Yes
Mapped DB1 Record New in DB2 Format
New, Mapped DB1 Data is Laid Over DB2 Data
Fill Mapped DB1 Record New into Application Database Program Data Record
Application Database Program Data Record
Call Up Business Services 'Modify'
New DB2 Data is Now Made Persistent
Processing OK ?
No
End Processing as NOK
Business Service had Problems During Processing
Yes
End Processing as OK

FIG. 5

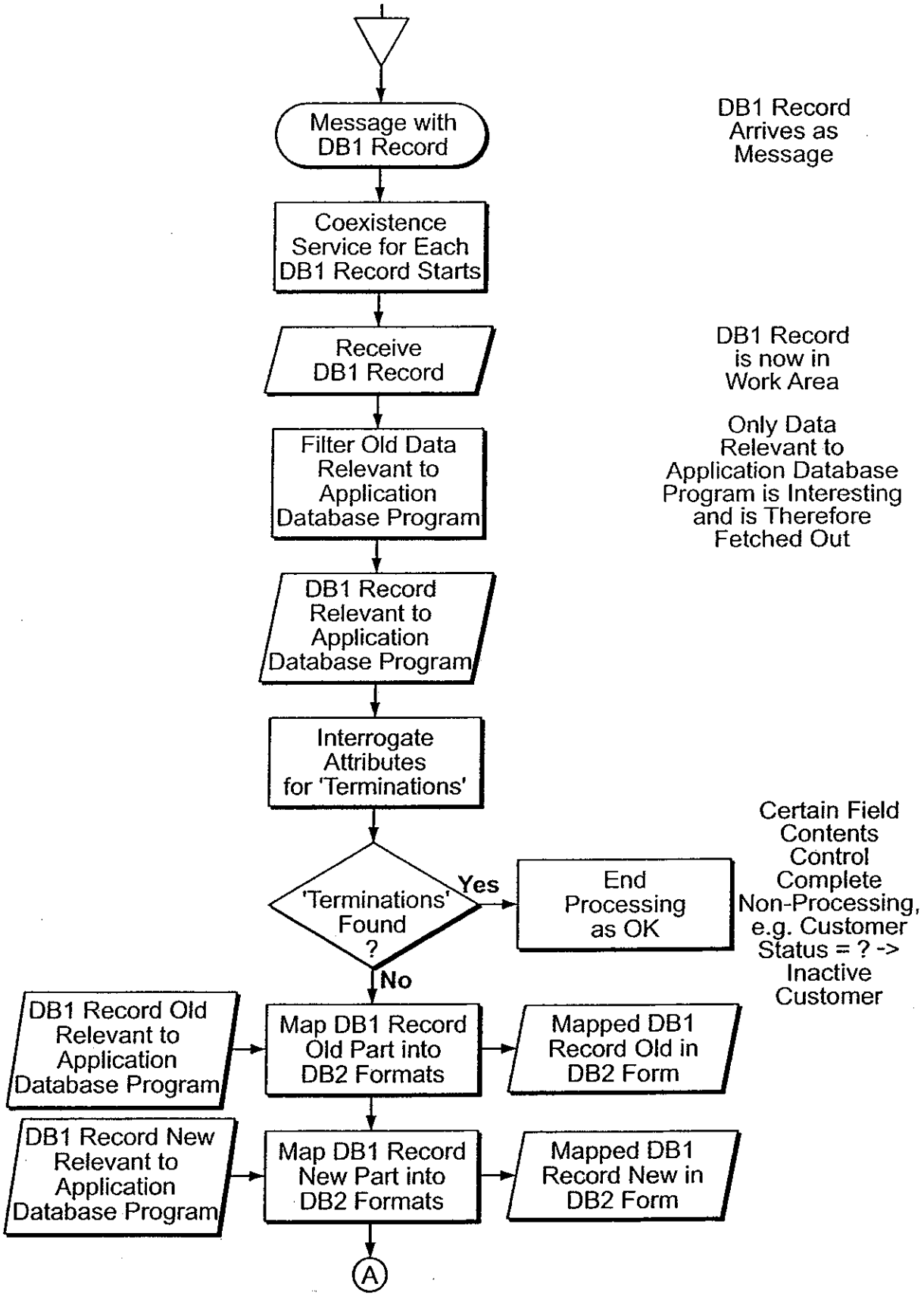

Message with DB1 Record
DB1 Record Arrives as Message
Coexistence Service for Each DB1 Record Starts
Receive DB1 Record
DB1 Record is now in Work Area
Filter Old Data Relevant to Application Database Program
Only Data Relevant to Application Database Program is Interesting and is Therefore Fetched Out
DB1 Record Relevant to Application Database Program
Interrogate Attributes for 'Terminations'
'Terminations' Found ?
Yes
End Processing as OK
Certain Field Contents Control Complete Non-Processing, e.g. Customer Status = ? -> Inactive Customer
No
DB1 Record Old Relevant to Application Database Program
Map DB1 Record Old Part into DB2 Formats
Mapped DB1 Record Old in DB2 Form
DB1 Record New Relevant to Application Database Program
Map DB1 Record New Part into DB2 Formats
Mapped DB1 Record New in DB2 Form
A

FIG. 6

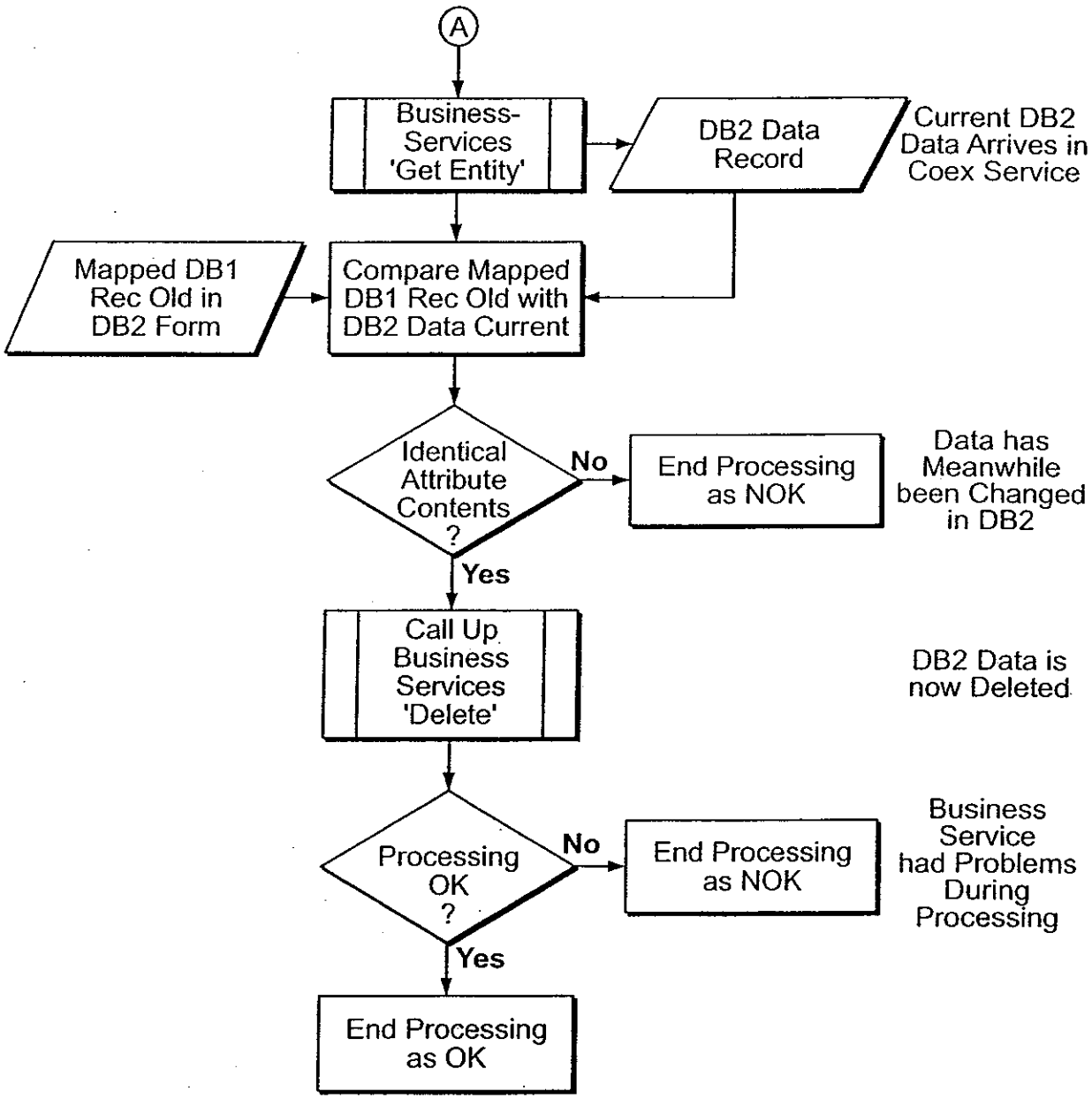

A
Business-Services 'Get Entity'
DB2 Data Record
Current DB2 Data Arrives in Coex Service
Mapped DB1 Rec Old in DB2 Form
Compare Mapped DB1 Rec Old with DB2 Data Current
Identical Attribute Contents ?
No
End Processing as NOK
Data has Meanwhile been Changed in DB2
Yes
Call Up Business Services 'Delete'
DB2 Data is now Deleted
Processing OK ?
No
End Processing as NOK
Business Service had Problems During Processing
Yes
End Processing as OK

FIG. 7

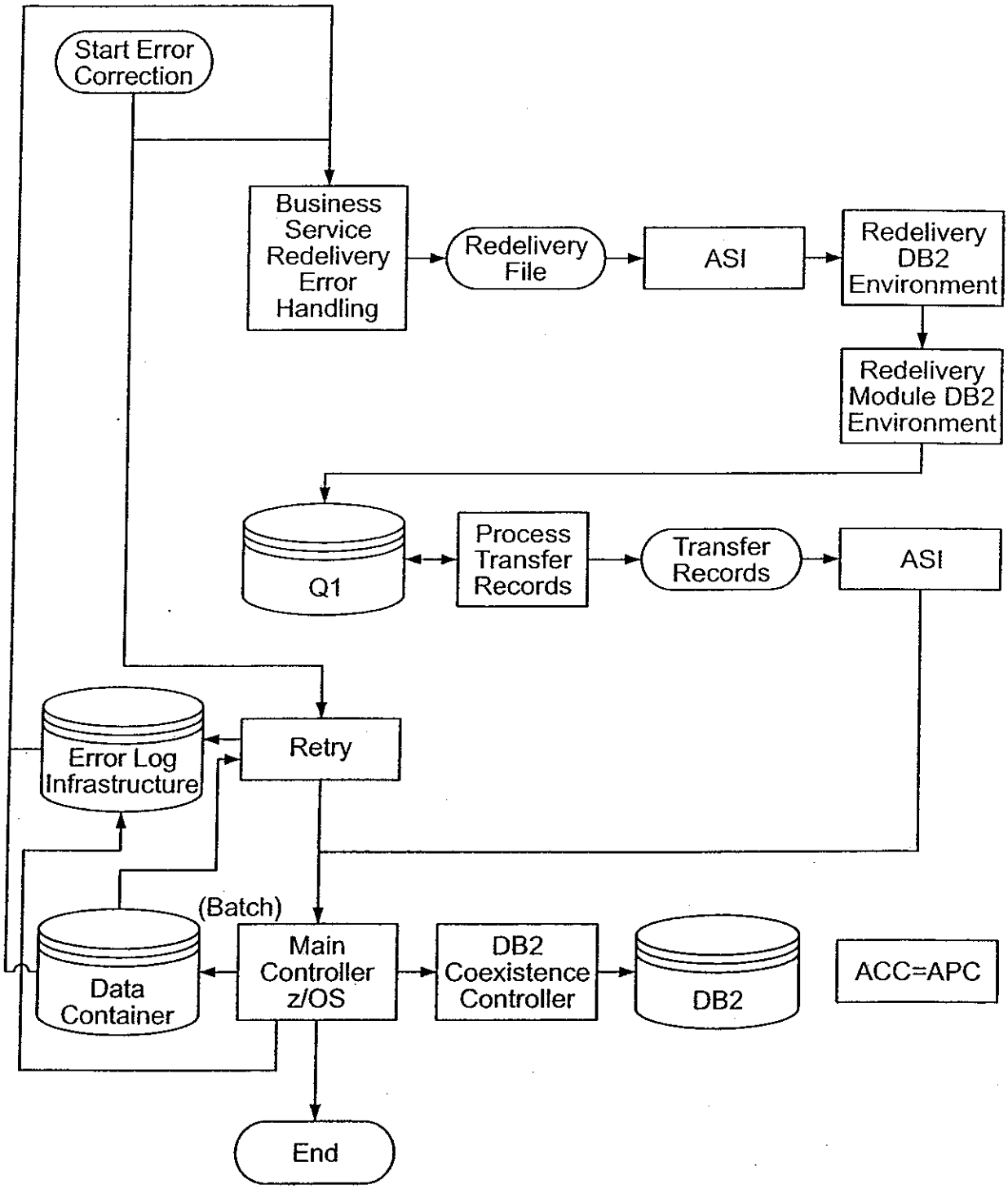

Start Error Correction
Business Service Redelivery Error Handling
Redelivery File
ASI
Redelivery DB2 Environment
Redelivery Module DB2 Environment
Q1
Process Transfer Records
Transfer Records
ASI
Error Log Infrastructure
Retry
(Batch)
Data Container
Main Controller z/OS
DB2 Coexistence Controller
DB2
ACC=APC
End

FIG. 8

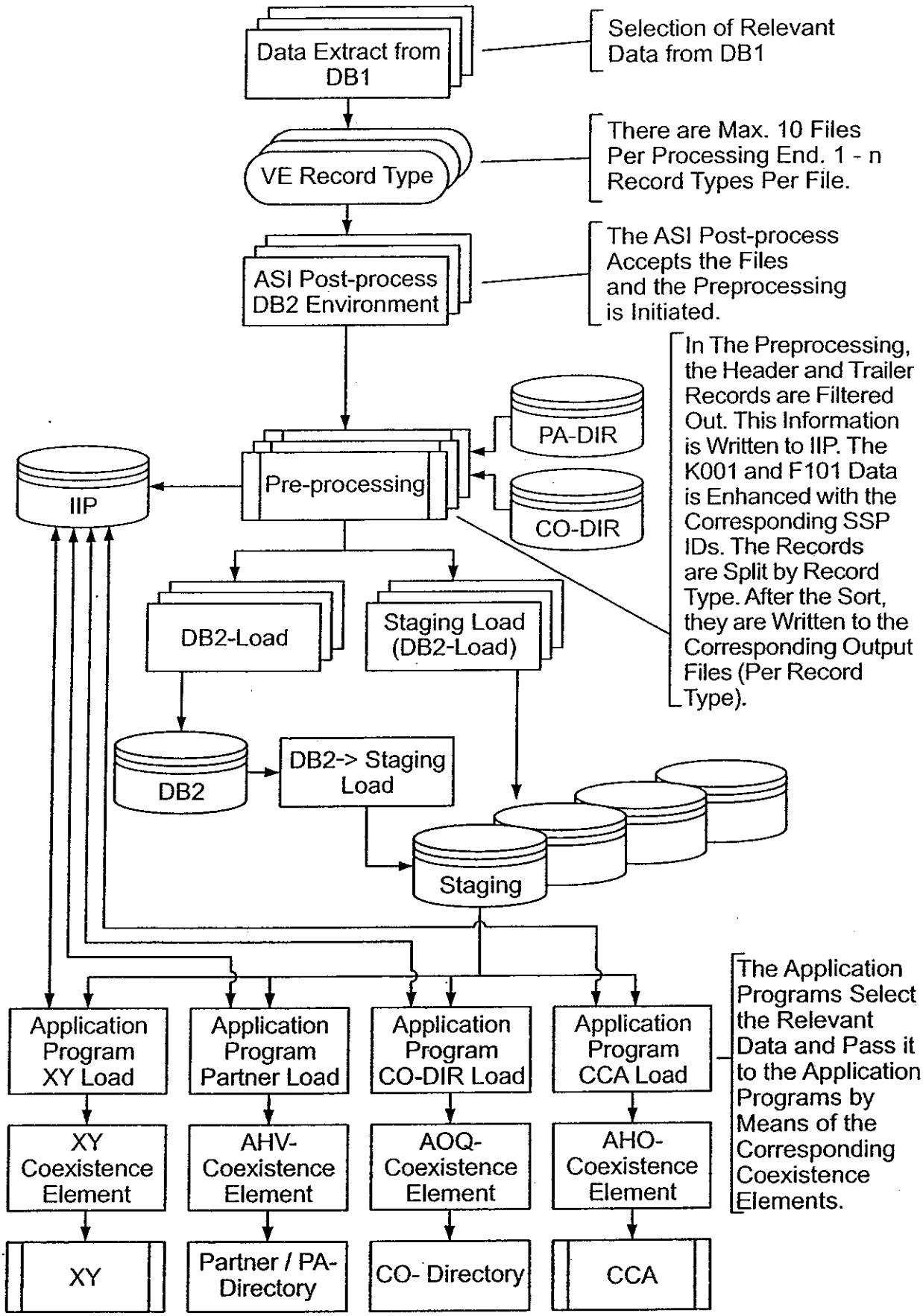

Data Extract from DB1
Selection of Relevant Data from DB1
VE Record Type
There are Max. 10 Files Per Processing End. 1 - n Record Types Per File.
ASI Post-process DB2 Environment
The ASI Post-process Accepts the Files and the Preprocessing is Initiated.
In The Preprocessing, the Header and Trailer Records are Filtered Out. This Information is Written to IIP. The K001 and F101 Data is Enhanced with the Corresponding SSP IDs. The Records are Split by Record Type. After the Sort, they are Written to the Corresponding Output Files (Per Record Type).
PA-DIR
CO-DIR
IIP
Pre-processing
DB2-Load
Staging Load (DB2-Load)
DB2
DB2-> Staging Load
Staging
Application Program XY Load
Application Program Partner Load
Application Program CO-DIR Load
Application Program CCA Load
The Application Programs Select the Relevant Data and Pass it to the Application Programs by Means of the Corresponding Coexistence Elements.
XY Coexistence Element
AHV-Coexistence Element
AOQ-Coexistence Element
AHO-Coexistence Element
XY
Partner / PA-Directory
CO- Directory
CCA

FIG. 9