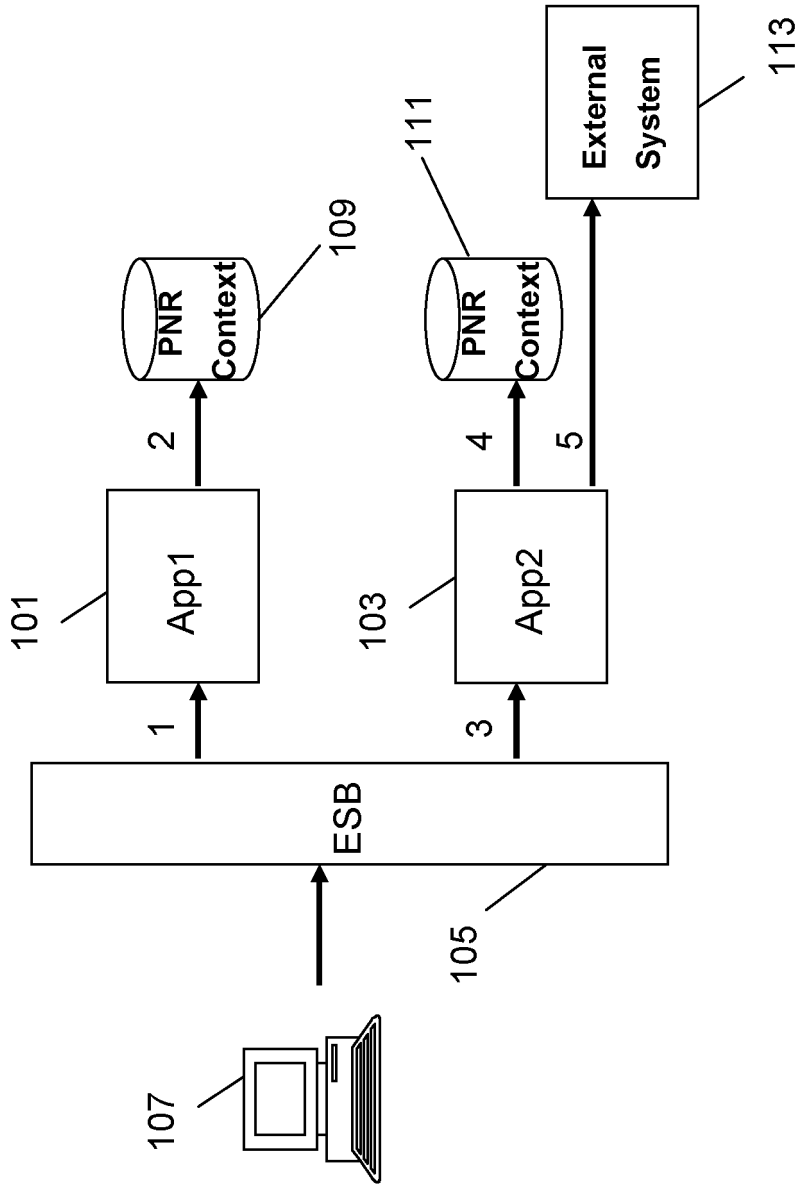
External System
113
111
109
PNR Context
PNR Context
2
4
5
101
App1
103
App2
1
3
ESB
105
107

Fig. 1

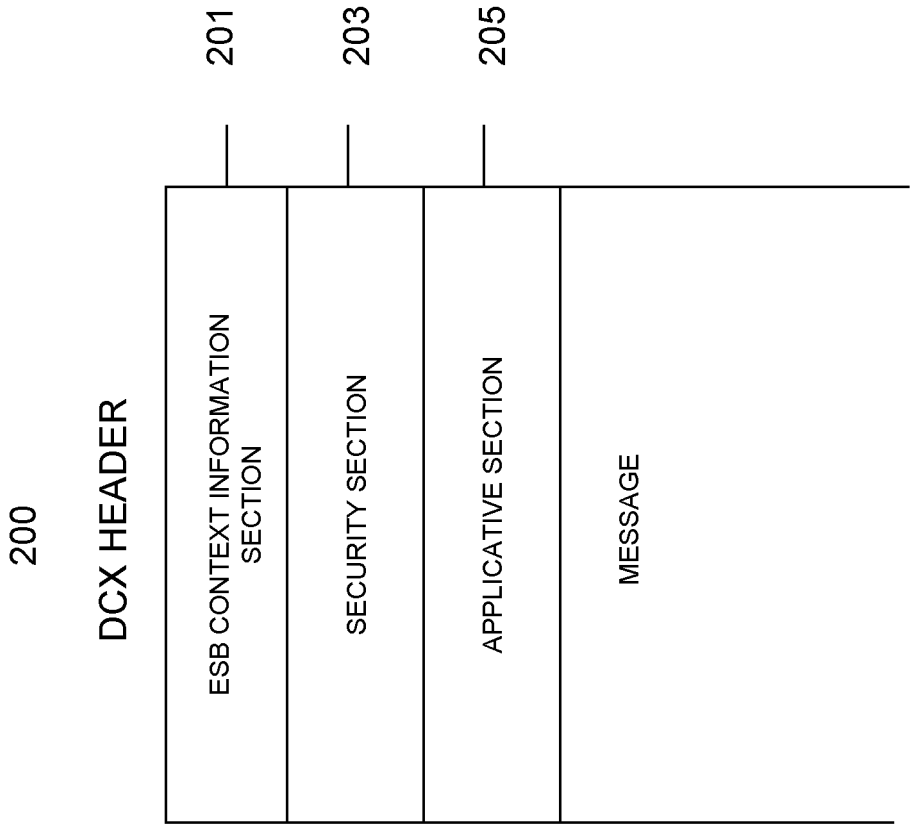
200
DCX HEADER
201
203
205
ESB CONTEXT INFORMATION SECTION
SECURITY SECTION
APPLICATIVE SECTION
MESSAGE

Fig. 2

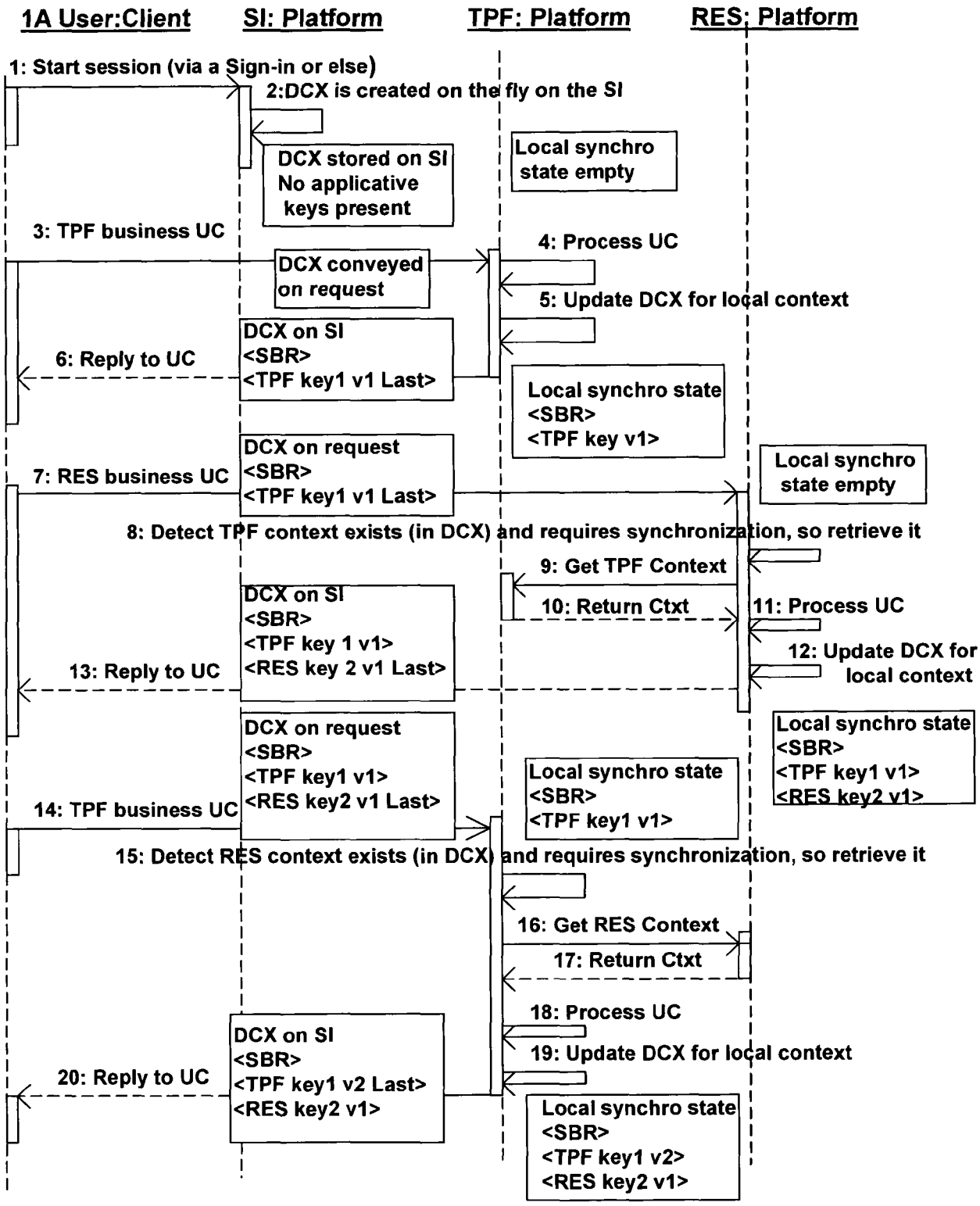
1A User:Client
SI: Platform
TPF: Platform
RES: Platform
1: Start session (via a Sign-in or else)
2:DCX is created on the fly on the SI
DCX stored on SI
No applicative keys present
Local synchro state empty
3: TPF business UC
DCX conveyed on request
4: Process UC
5: Update DCX for local context
DCX on SI
<SBR>
<TPF key1 v1 Last>
6: Reply to UC
Local synchro state
<SBR>
<TPF key v1>
DCX on request
<SBR>
<TPF key1 v1 Last>
7: RES business UC
Local synchro state empty
8: Detect TPF context exists (in DCX) and requires synchronization, so retrieve it
9: Get TPF Context
10: Return Ctxt
11: Process UC
DCX on SI
<SBR>
<TPF key 1 v1>
<RES key 2 v1 Last>
12: Update DCX for local context
13: Reply to UC
Local synchro state
<SBR>
<TPF key1 v1>
<RES key2 v1>
DCX on request
<SBR>
<TPF key1 v1>
<RES key2 v1 Last>
Local synchro state
<SBR>
<TPF key1 v1>
14: TPF business UC
15: Detect RES context exists (in DCX) and requires synchronization, so retrieve it
16: Get RES Context
17: Return Ctxt
18: Process UC
19: Update DCX for local context
DCX on SI
<SBR>
<TPF key1 v2 Last>
<RES key2 v1>
20: Reply to UC
Local synchro state
<SBR>
<TPF key1 v2>
<RES key2 v1>

Fig. 3

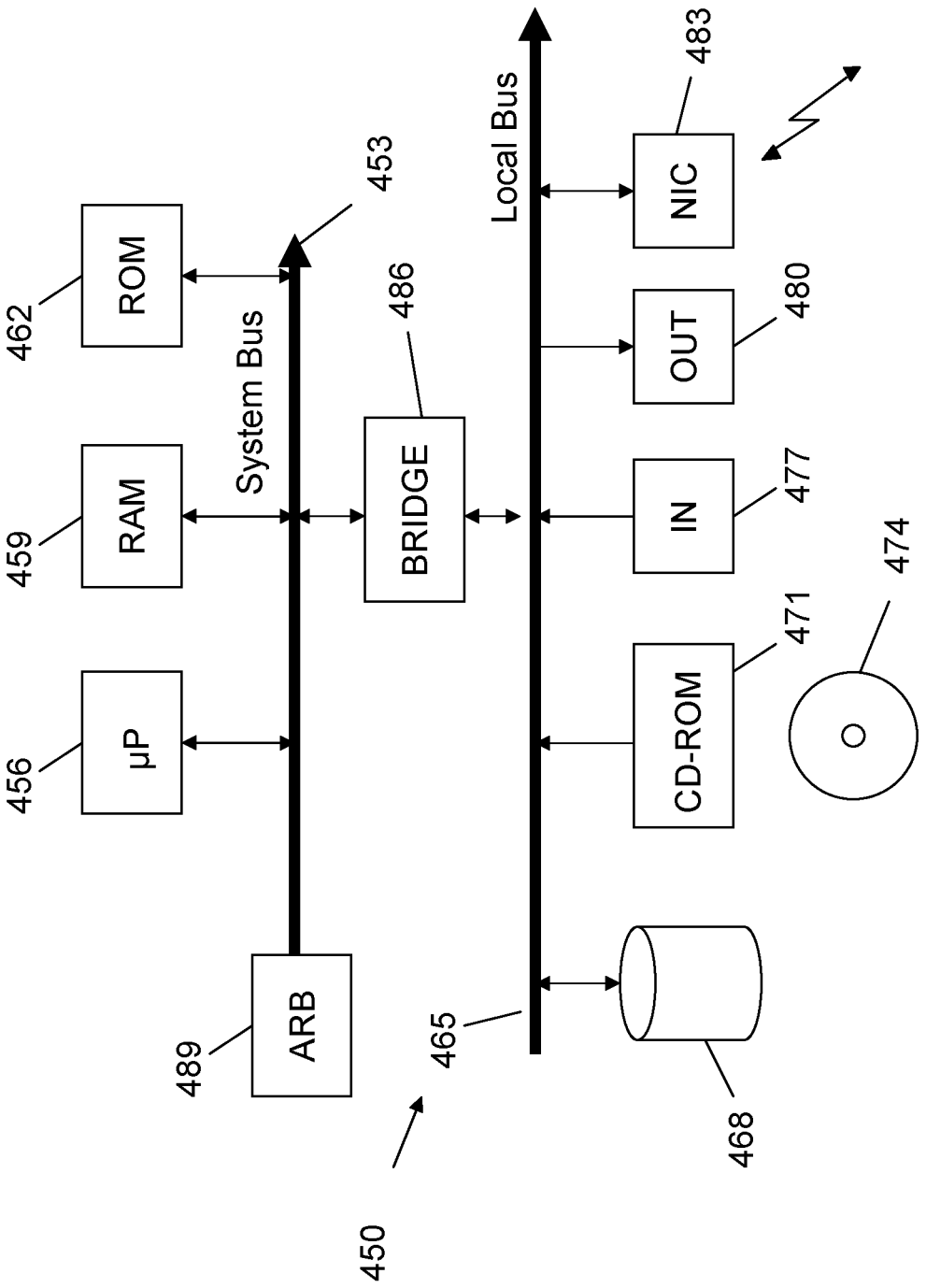
ROM
462
RAM
459
μP
456
System Bus
453
BRIDGE
486
Local Bus
NIC
483
OUT
480
IN
477
CD-ROM
471
474
ARB
489
465
468
450

Fig. 4

EDIFACT structure

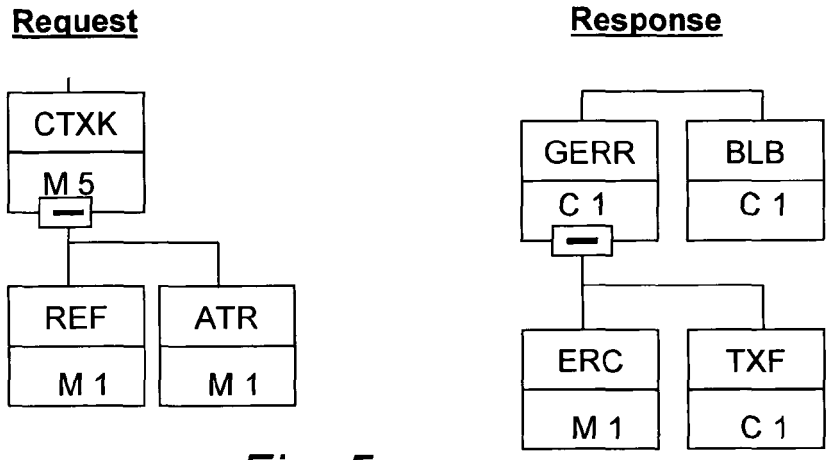

Fig. 5a

Scenario

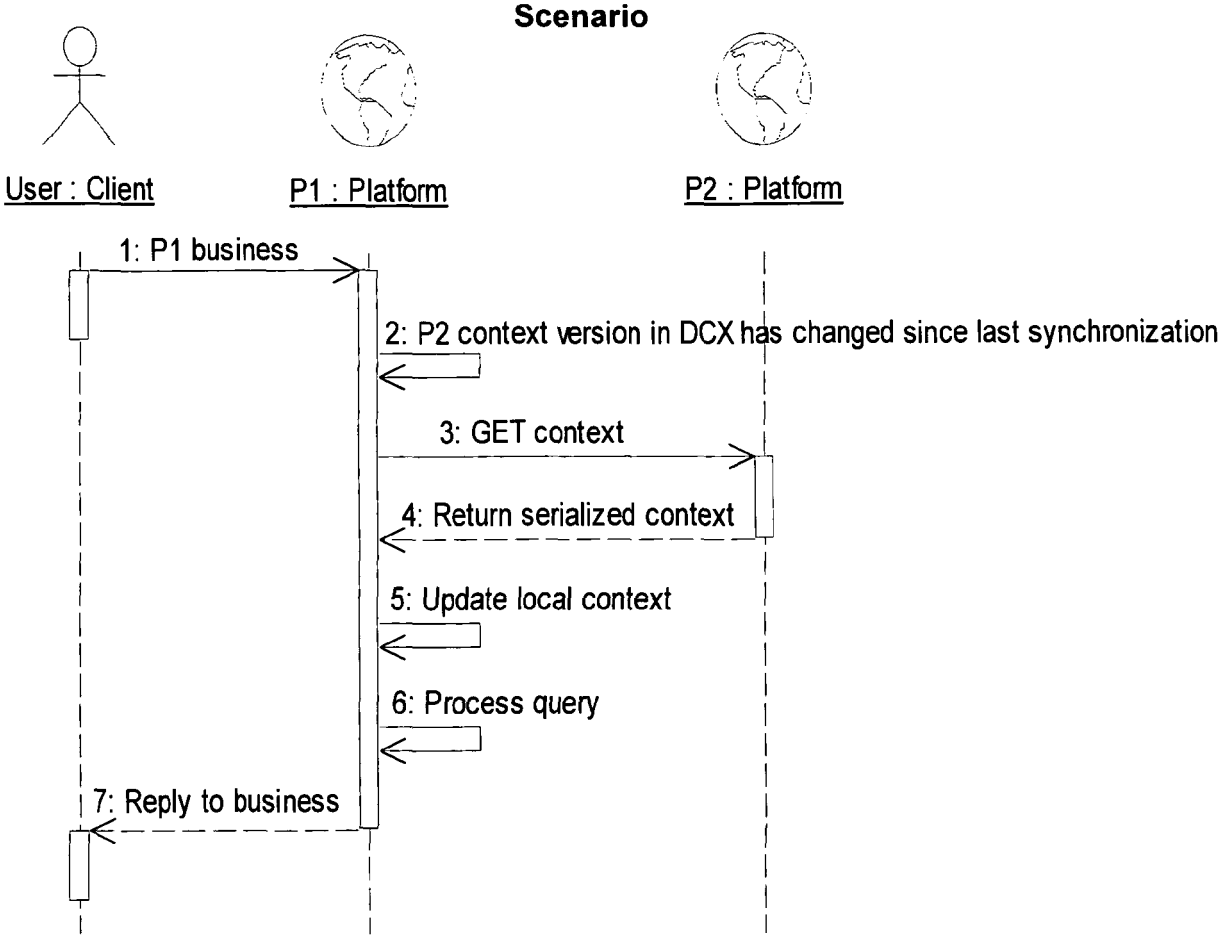

Fig. 5b

EDIFACT structure

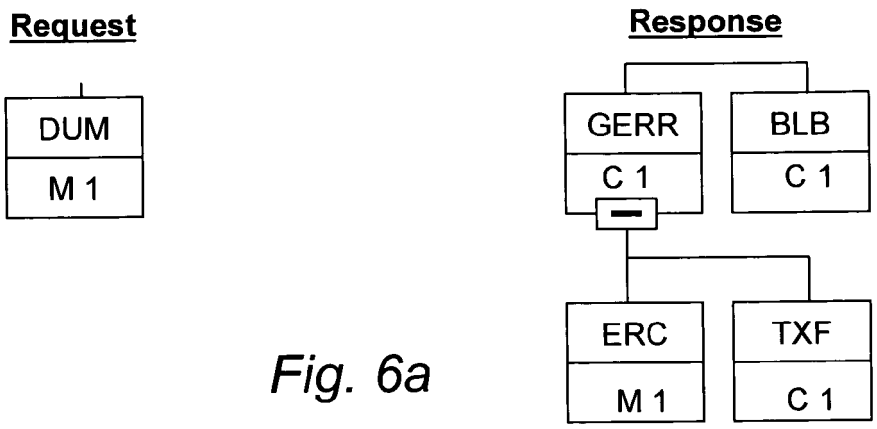

Fig. 6a

Scenario

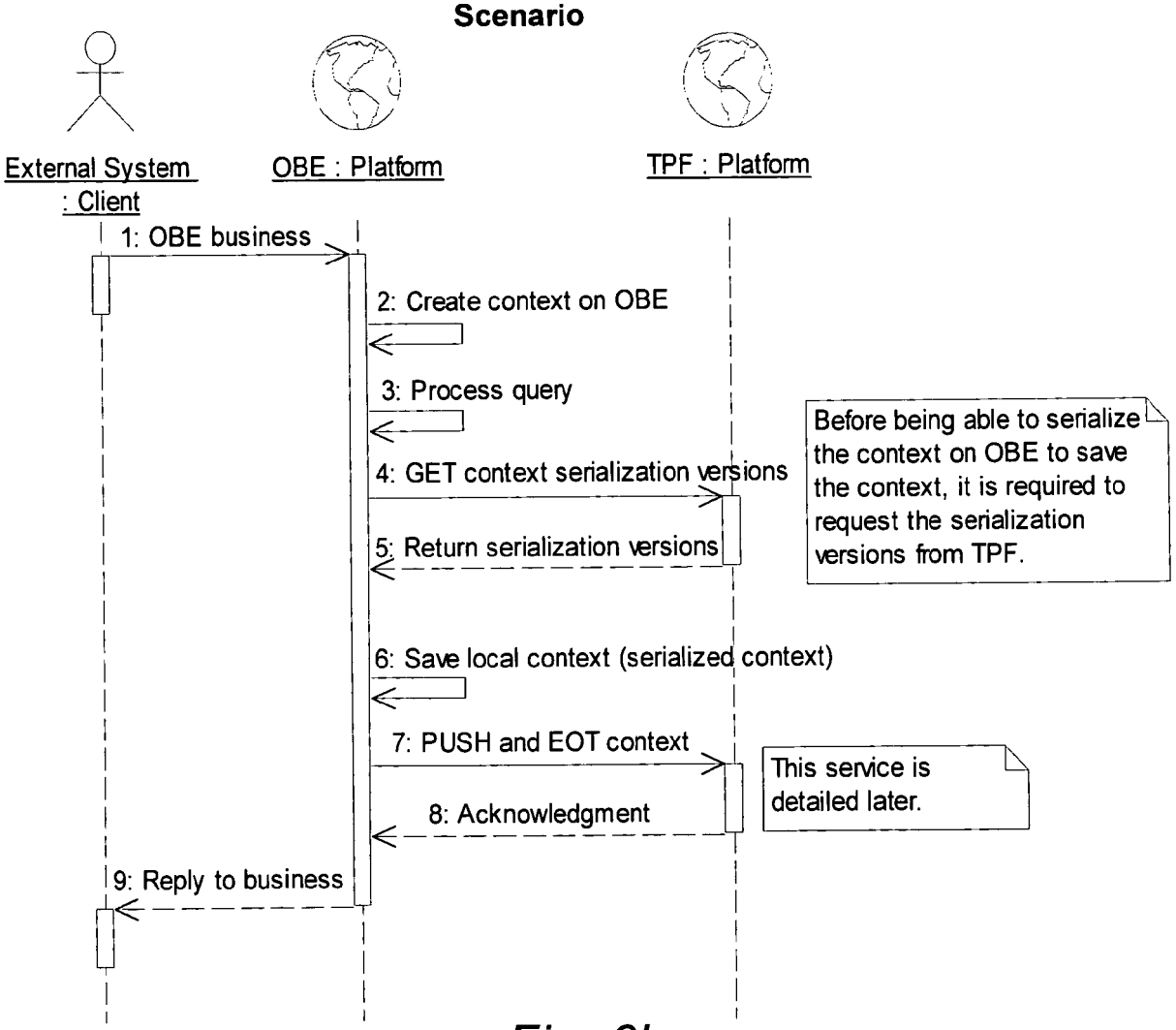

Fig. 6b

EDIFACT structure

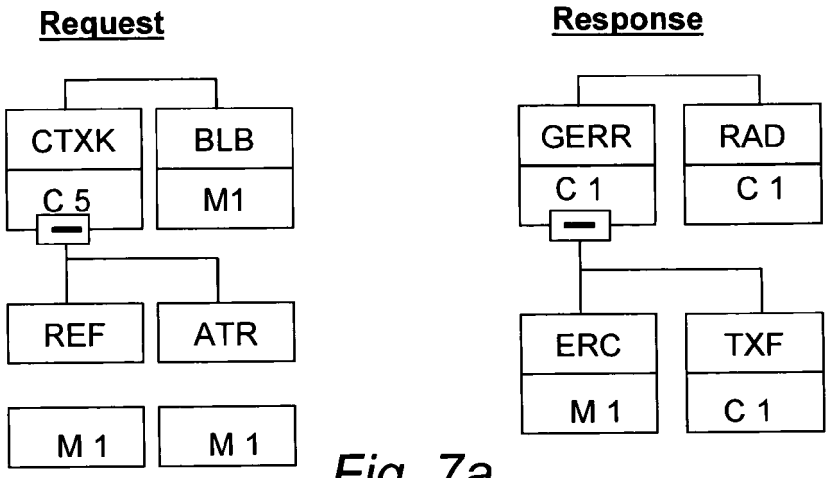

Fig. 7a

Scenario

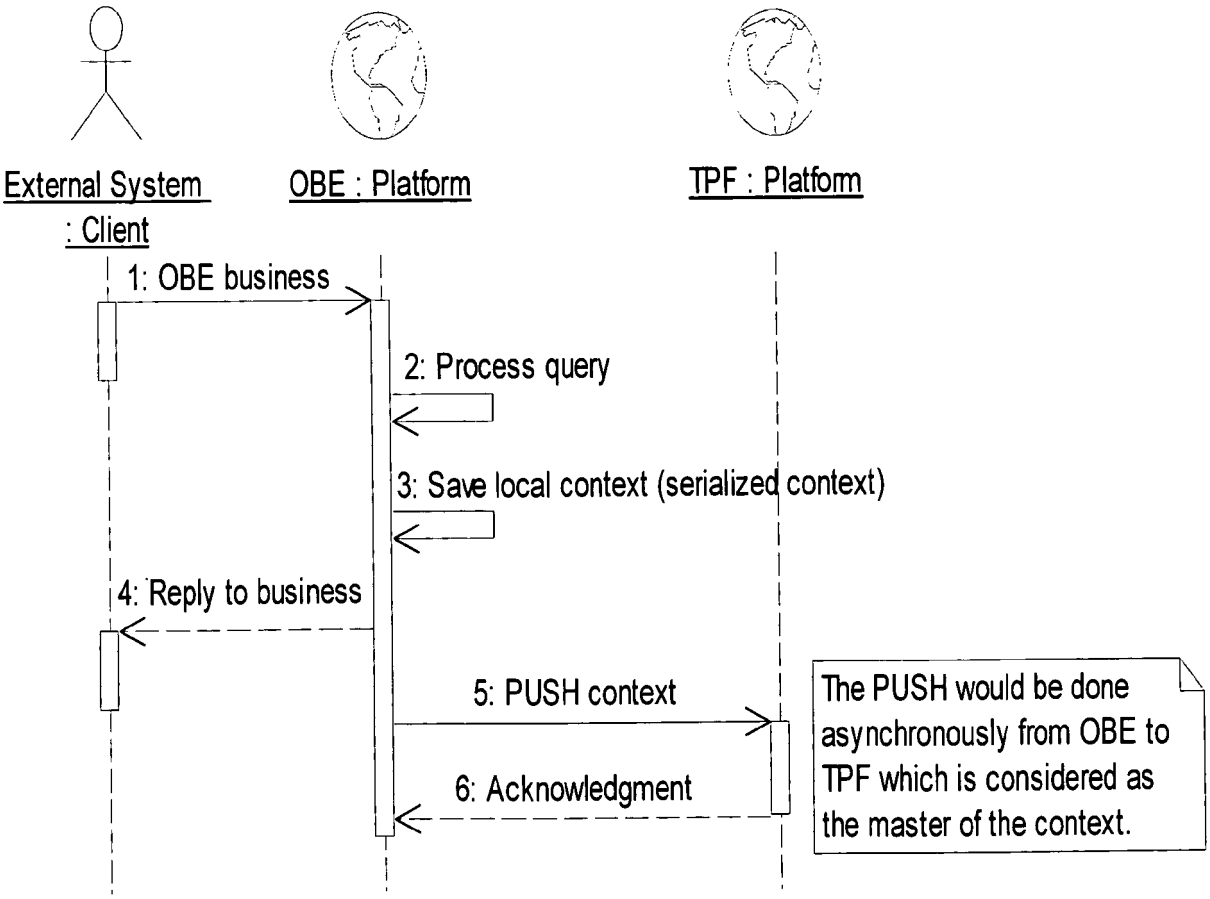

Fig. 7b

EDIFACT structure

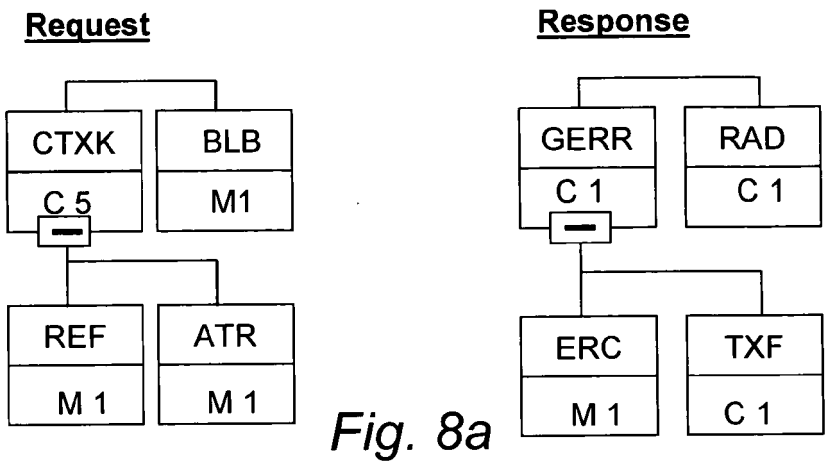

Fig. 8a

Scenario

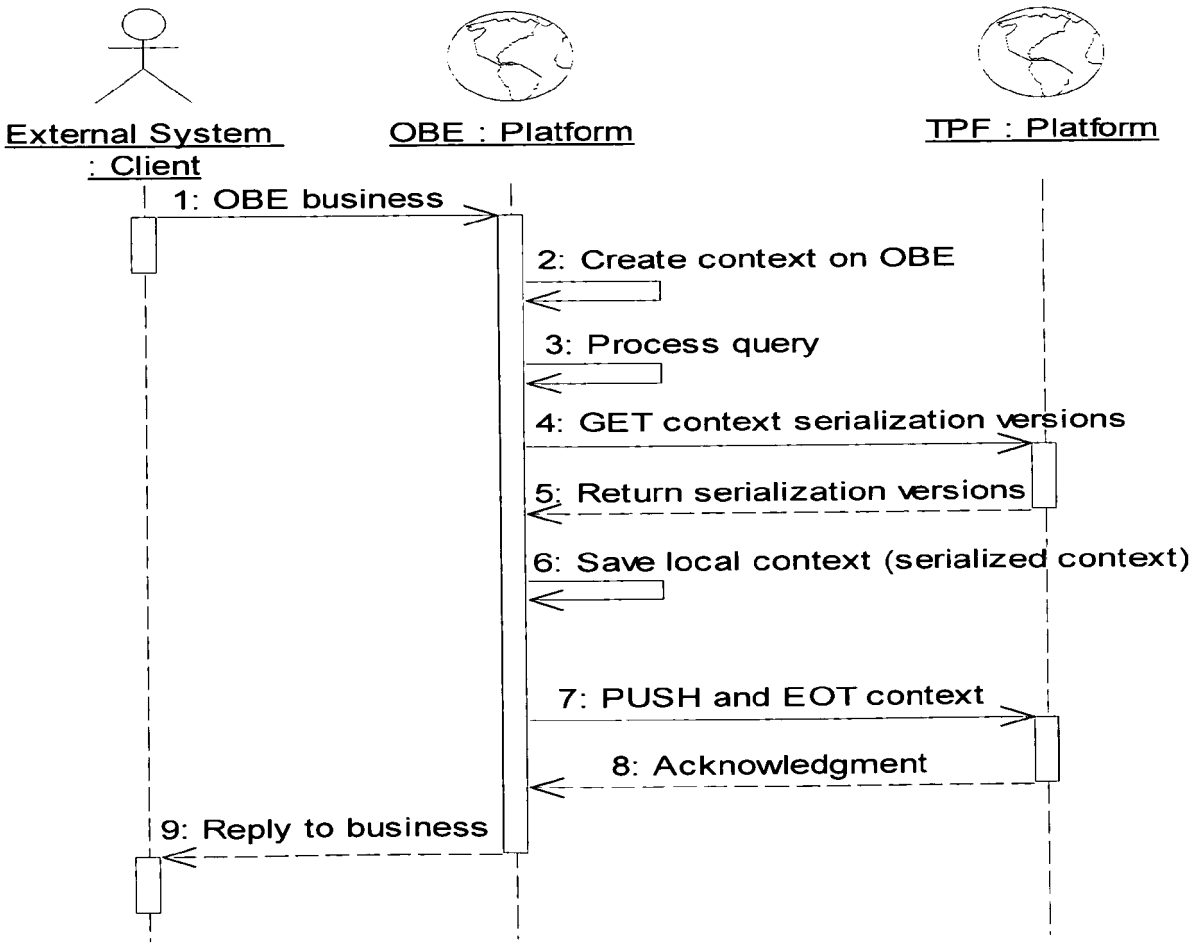

Fig. 8b

Scenario

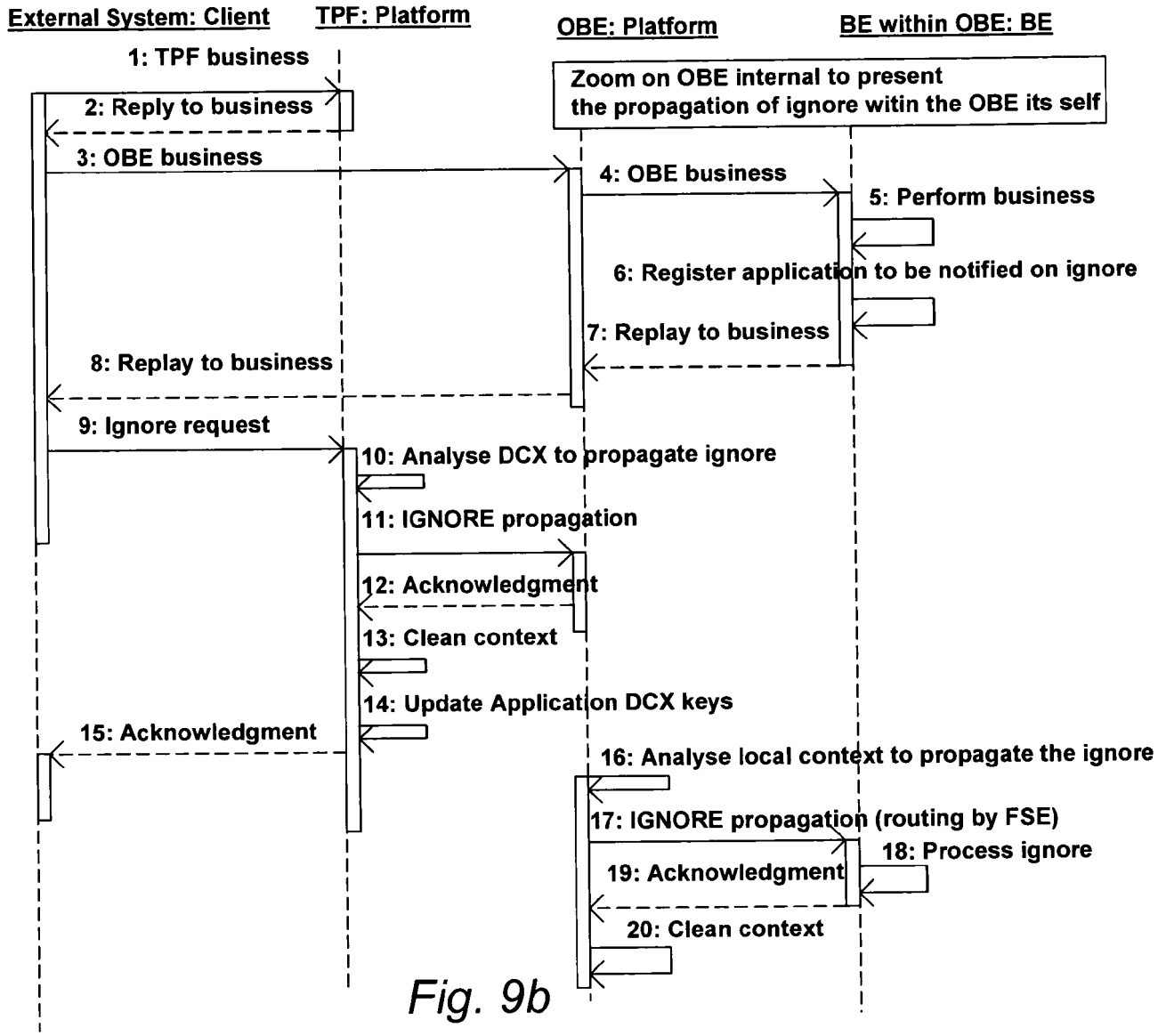

Fig. 9b

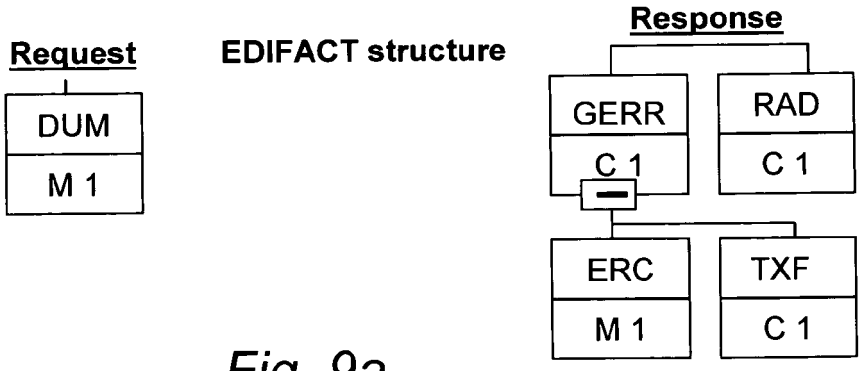

Fig. 9a

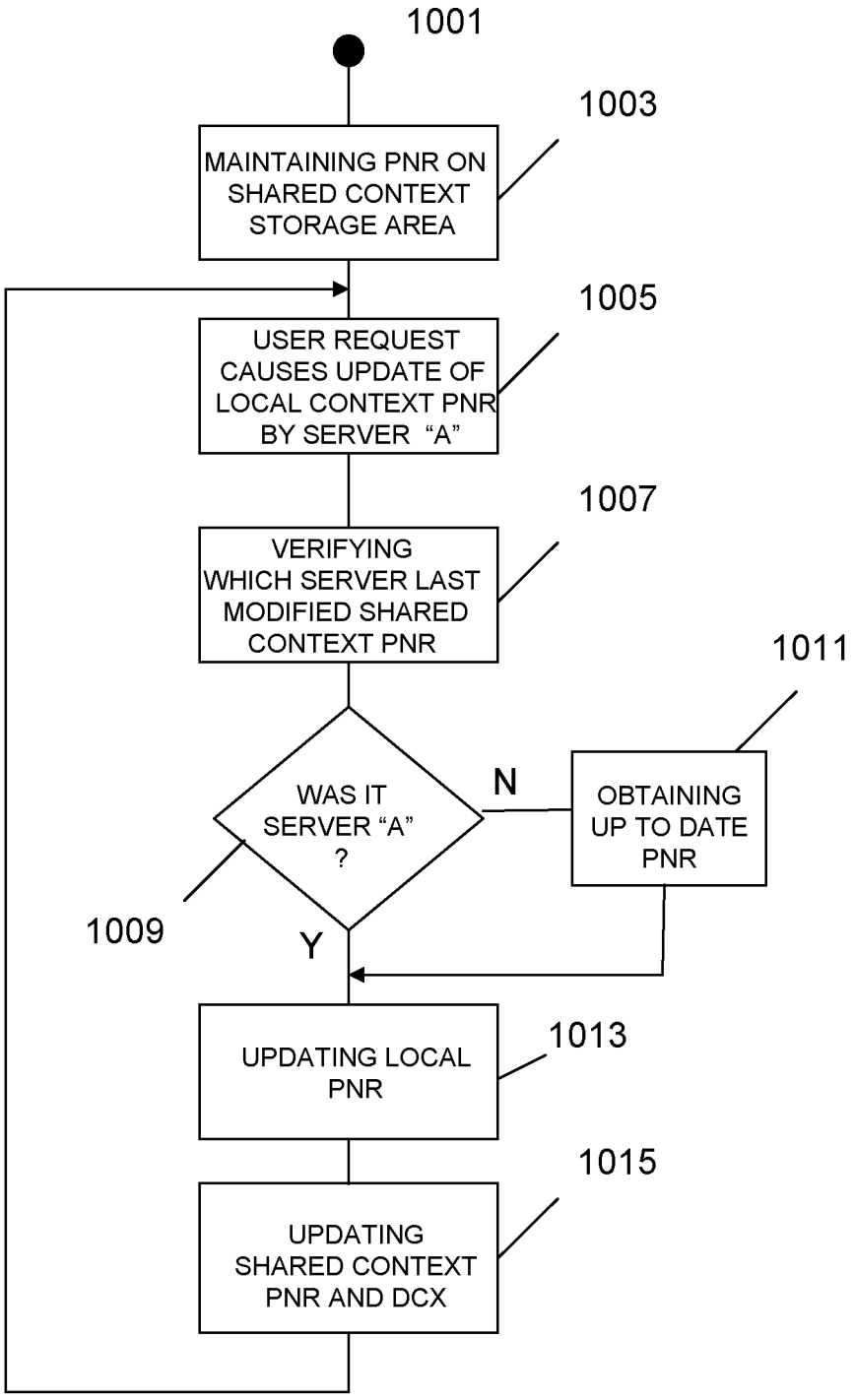
1001
1003
MAINTAINING PNR ON SHARED CONTEXT STORAGE AREA
1005
USER REQUEST CAUSES UPDATE OF LOCAL CONTEXT PNR BY SERVER "A"
1007
VERIFYING WHICH SERVER LAST MODIFIED SHARED CONTEXT PNR
1011
WAS IT SERVER "A" ?
N
OBTAINING UP TO DATE PNR
1009
Y
UPDATING LOCAL PNR
1013
1015
UPDATING SHARED CONTEXT PNR AND DCX

Fig. 10