FIG. 1

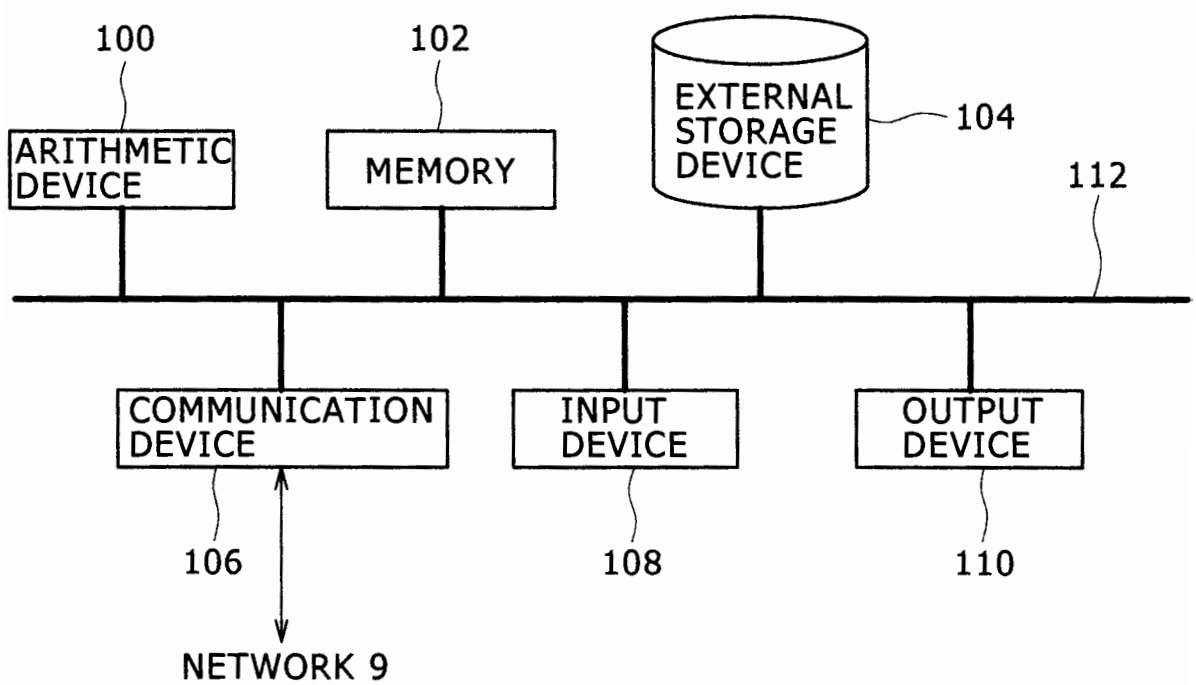

100
ARITHMETIC DEVICE
102
MEMORY
EXTERNAL STORAGE DEVICE
104
112
COMMUNICATION DEVICE
INPUT DEVICE
OUTPUT DEVICE
106
108
110
NETWORK 9

FIG. 2

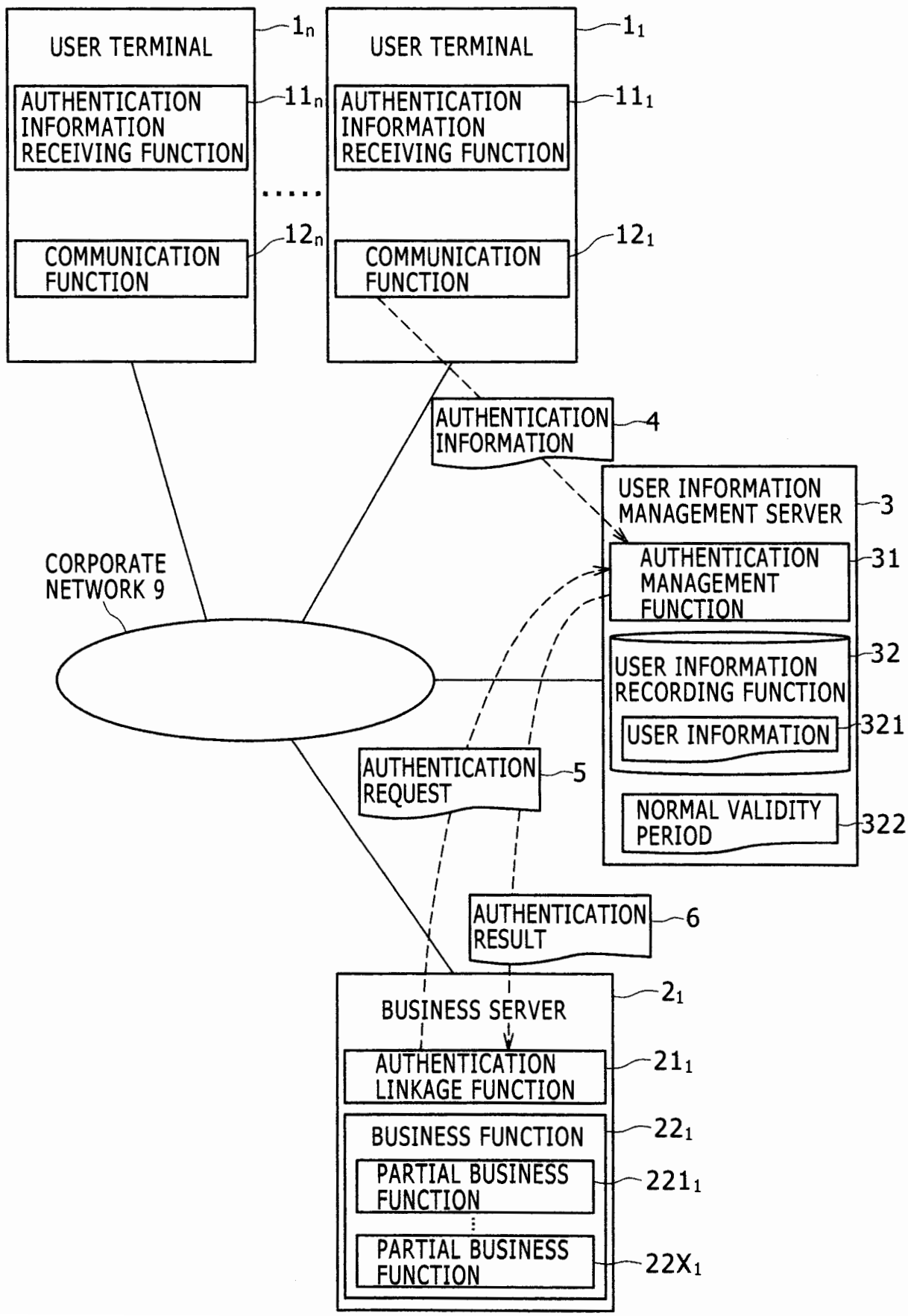

USER TERMINAL
1n
AUTHENTICATION INFORMATION RECEIVING FUNCTION
11n
COMMUNICATION FUNCTION
12n
USER TERMINAL
11
AUTHENTICATION INFORMATION RECEIVING FUNCTION
11
COMMUNICATION FUNCTION
12
AUTHENTICATION INFORMATION
4
USER INFORMATION MANAGEMENT SERVER
3
AUTHENTICATION MANAGEMENT FUNCTION
31
CORPORATE NETWORK 9
USER INFORMATION RECORDING FUNCTION
32
USER INFORMATION
321
AUTHENTICATION REQUEST
5
NORMAL VALIDITY PERIOD
322
AUTHENTICATION RESULT
6
BUSINESS SERVER
21
AUTHENTICATION LINKAGE FUNCTION
211
BUSINESS FUNCTION
221
PARTIAL BUSINESS FUNCTION
2211
PARTIAL BUSINESS FUNCTION
22X1

FIG. 3

USER ID	AUTHENTICATION INFORO1ATION	AUTHORITY INFORMATION 1	VALIDITY PERIOD OF AUTHORITY INFORMATION 1	AUTHORITY INFORMATION 2	VALIDITY PERIOD OF AUTHORITY INFORMATION 2
00001	PASSWORD 1234	PARTIAL BUSINESS FUNCTION 221_1	2007/4/1～ 2008/3/31	PARTIAL BUSINESS FUNCTION 221_1 PARTIAL BUSINESS FUNCTION 221_1	2008/4/1～ 2009/3/31
00002	VALUE OF BIOMETRIC INFORMATION tebastes・・・	PARTIAL BUSINESS FUNCTION 221_1	2007/4/1～ 2008/3/31	PARTIAL BUSINESS FUNCTION 221_1	2008/4/1～ 2009/3/31
00003	ELECTRONIC CERTIFICATE	PARTIAL BUSINESS FUNCTION 221_1	2007/4/1～ 2008/3/31	NA	NA

FIG. 4

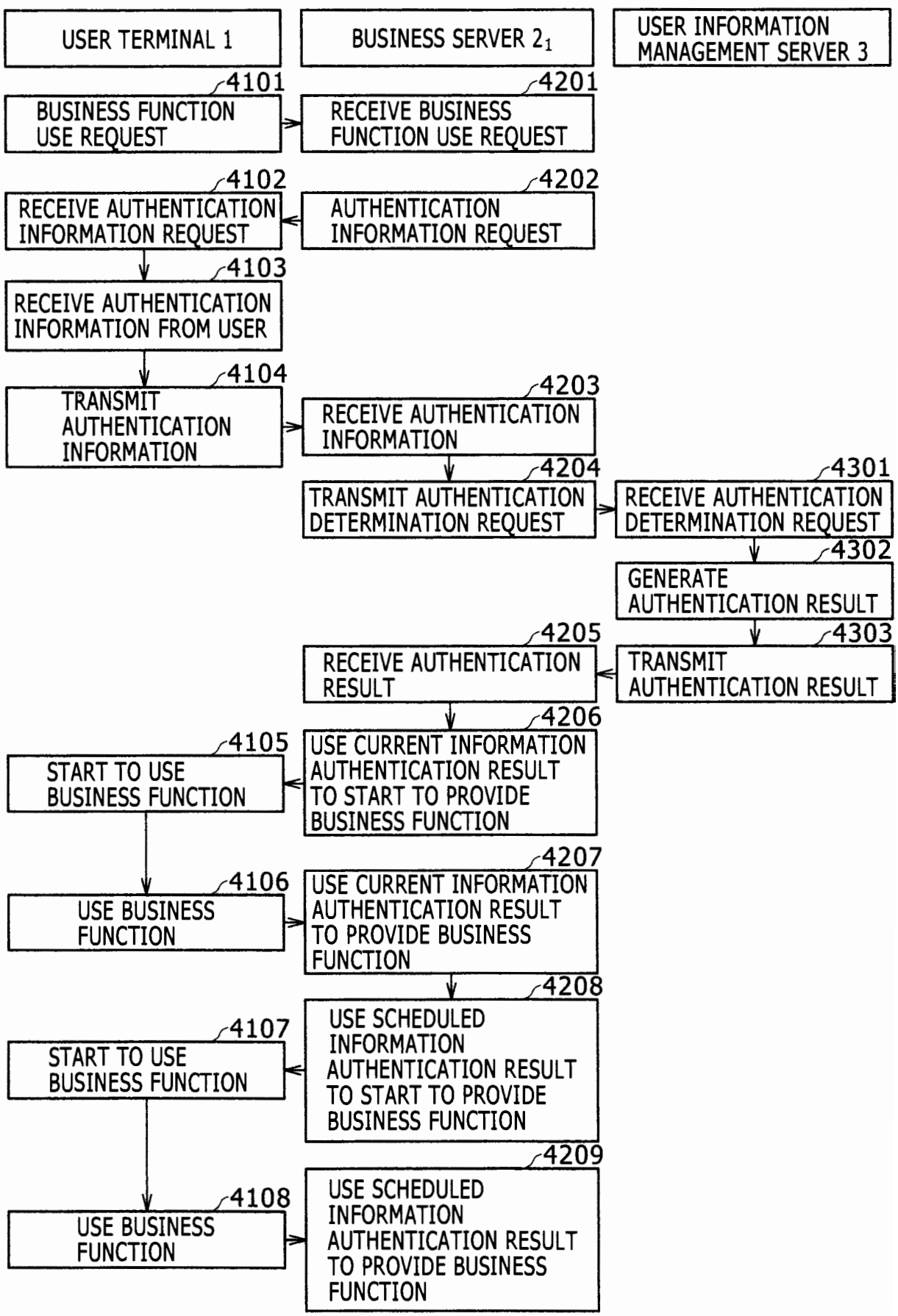

USER TERMINAL 1
BUSINESS SERVER 2₁
USER INFORMATION MANAGEMENT SERVER 3
4101
BUSINESS FUNCTION USE REQUEST
4201
RECEIVE BUSINESS FUNCTION USE REQUEST
4102
RECEIVE AUTHENTICATION INFORMATION REQUEST
4202
AUTHENTICATION INFORMATION REQUEST
4103
RECEIVE AUTHENTICATION INFORMATION FROM USER
4104
TRANSMIT AUTHENTICATION INFORMATION
4203
RECEIVE AUTHENTICATION INFORMATION
4204
TRANSMIT AUTHENTICATION DETERMINATION REQUEST
4301
RECEIVE AUTHENTICATION DETERMINATION REQUEST
4302
GENERATE AUTHENTICATION RESULT
4303
TRANSMIT AUTHENTICATION RESULT
4205
RECEIVE AUTHENTICATION RESULT
4206
USE CURRENT INFORMATION AUTHENTICATION RESULT TO START TO PROVIDE BUSINESS FUNCTION
4105
START TO USE BUSINESS FUNCTION
4207
USE CURRENT INFORMATION AUTHENTICATION RESULT TO PROVIDE BUSINESS FUNCTION
4106
USE BUSINESS FUNCTION
4208
USE SCHEDULED INFORMATION AUTHENTICATION RESULT TO START TO PROVIDE BUSINESS FUNCTION
4107
START TO USE BUSINESS FUNCTION
4209
USE SCHEDULED INFORMATION AUTHENTICATION RESULT TO PROVIDE BUSINESS FUNCTION
4108
USE BUSINESS FUNCTION

FIG. 5

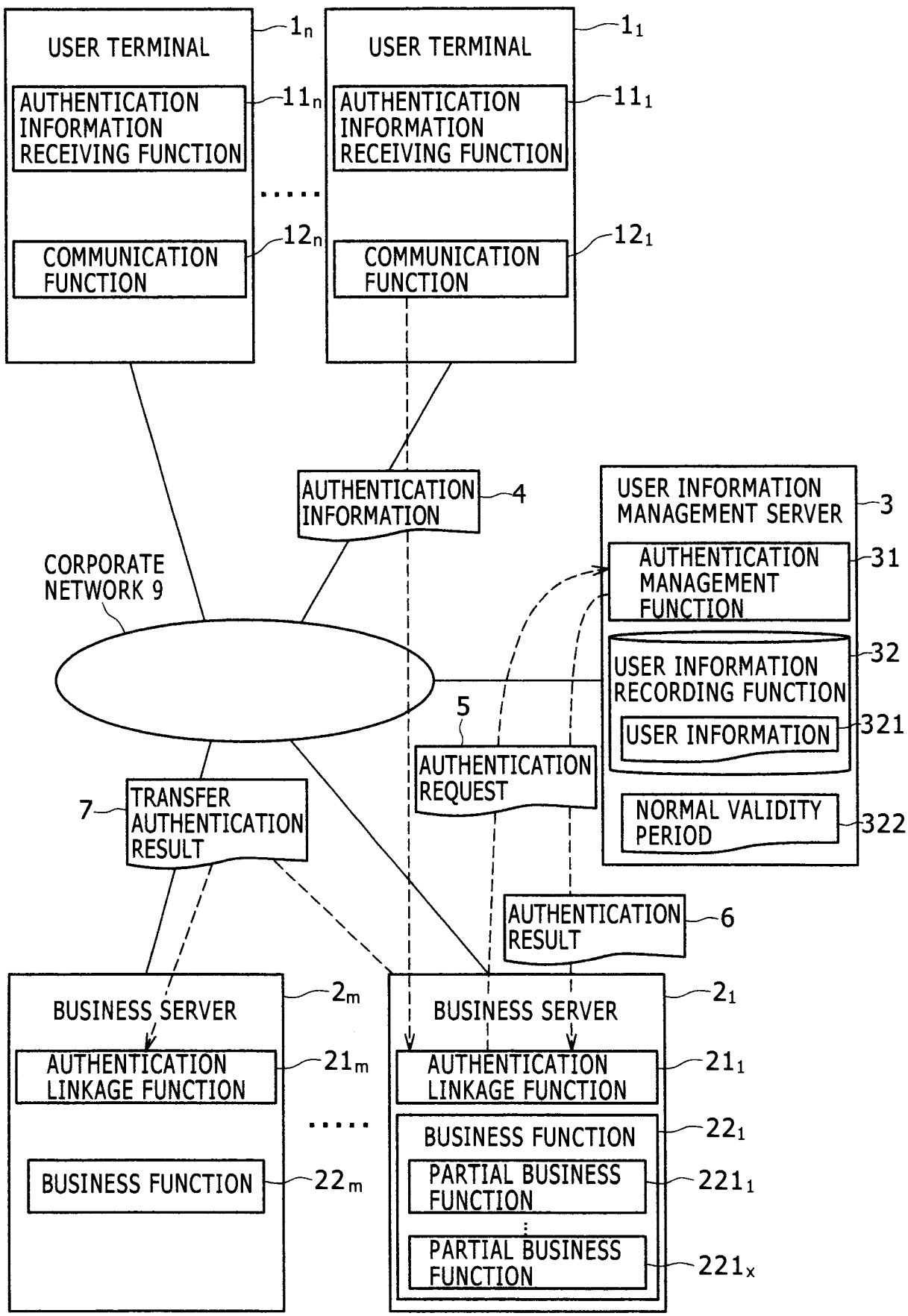

USER TERMINAL
1n
AUTHENTICATION INFORMATION RECEIVING FUNCTION
11n
COMMUNICATION FUNCTION
12n
USER TERMINAL
11
AUTHENTICATION INFORMATION RECEIVING FUNCTION
111
COMMUNICATION FUNCTION
121
AUTHENTICATION INFORMATION
4
USER INFORMATION MANAGEMENT SERVER
3
AUTHENTICATION MANAGEMENT FUNCTION
31
USER INFORMATION RECORDING FUNCTION
32
USER INFORMATION
321
NORMAL VALIDITY PERIOD
322
CORPORATE NETWORK 9
5
AUTHENTICATION REQUEST
7
TRANSFER AUTHENTICATION RESULT
AUTHENTICATION RESULT
6
BUSINESS SERVER
2m
AUTHENTICATION LINKAGE FUNCTION
21m
BUSINESS FUNCTION
22m
BUSINESS SERVER
21
AUTHENTICATION LINKAGE FUNCTION
211
BUSINESS FUNCTION
221
PARTIAL BUSINESS FUNCTION
2211
PARTIAL BUSINESS FUNCTION
221x

FIG. 6

USER ID	AUTHENTICATION INFORO1ATION	AUTHORITY INFORMATION 1	VALIDITY PERIOD OF AUTHORITY INFORMATION 1	AUTHORITY INFORMATION 2	VALIDITY PERIOD OF AUTHORITY INFORMATION 2
00001	PASSWORD 1234	PARTIAL BUSINESS FUNCTION 221_1	2007/4/1～ 2008/3/31	PARTIAL BUSINESS FUNCTION $22m_1$	2008/4/1～ 2009/3/31
00002	VALUE OF BIOMETRIC INFORMATION tebastes・・・	PARTIAL BUSINESS FUNCTION $22m_1$	2007/4/1～ 2008/3/31	PARTIAL BUSINESS FUNCTION $22m_2$	2008/4/1～ 2009/3/31
00003	ELECTRONIC CERTIFICATE	PARTIAL BUSINESS FUNCTION 221_1	2007/4/1～ 2008/3/31	NA	NA

FIG. 7

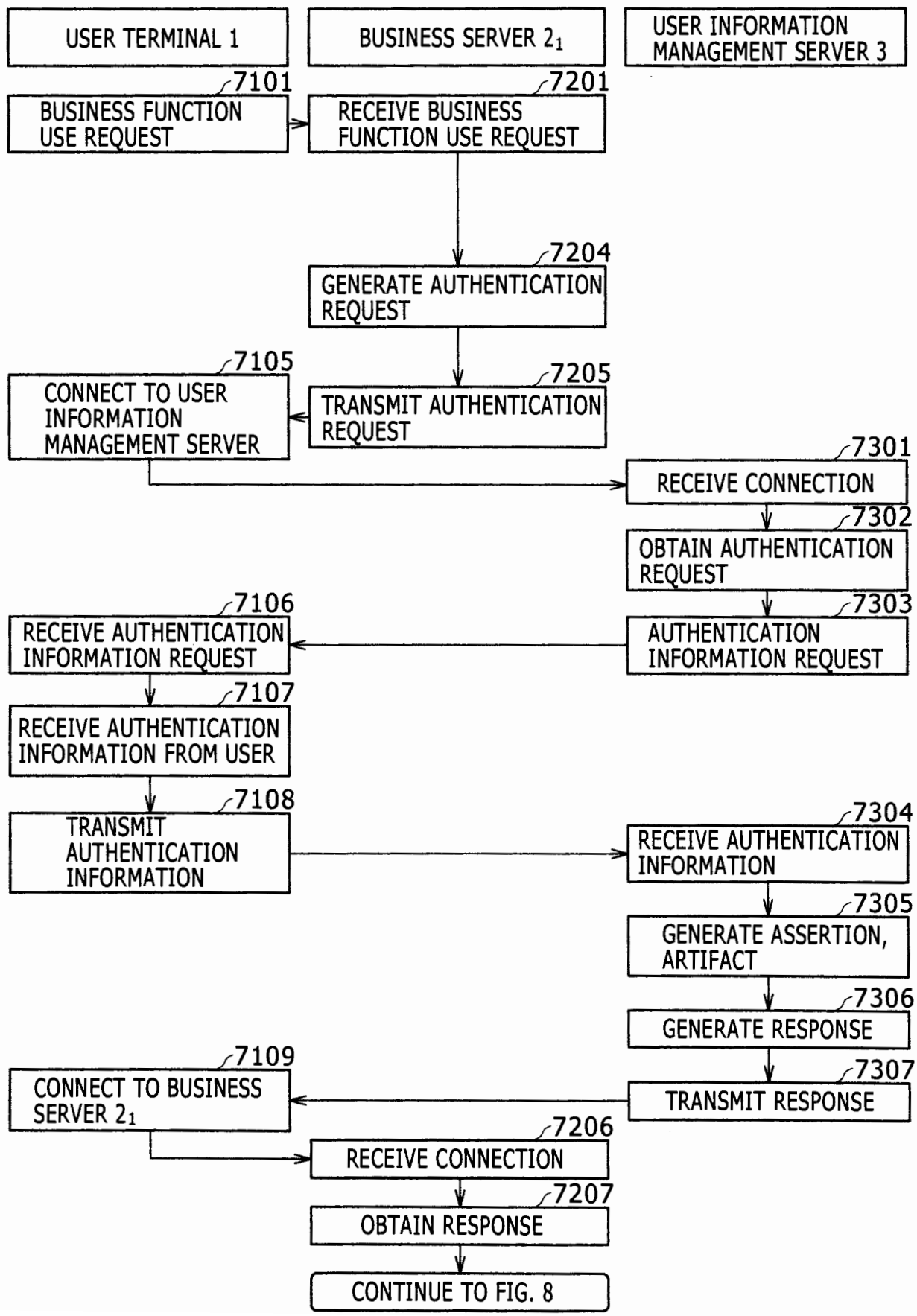

USER TERMINAL 1
BUSINESS SERVER 2₁
USER INFORMATION MANAGEMENT SERVER 3
7101
BUSINESS FUNCTION USE REQUEST
7201
RECEIVE BUSINESS FUNCTION USE REQUEST
7204
GENERATE AUTHENTICATION REQUEST
7105
CONNECT TO USER INFORMATION MANAGEMENT SERVER
7205
TRANSMIT AUTHENTICATION REQUEST
7301
RECEIVE CONNECTION
7302
OBTAIN AUTHENTICATION REQUEST
7106
RECEIVE AUTHENTICATION INFORMATION REQUEST
7303
AUTHENTICATION INFORMATION REQUEST
7107
RECEIVE AUTHENTICATION INFORMATION FROM USER
7108
TRANSMIT AUTHENTICATION INFORMATION
7304
RECEIVE AUTHENTICATION INFORMATION
7305
GENERATE ASSERTION, ARTIFACT
7306
GENERATE RESPONSE
7109
CONNECT TO BUSINESS SERVER 2₁
7307
TRANSMIT RESPONSE
7206
RECEIVE CONNECTION
7207
OBTAIN RESPONSE
CONTINUE TO FIG. 8

FIG. 8

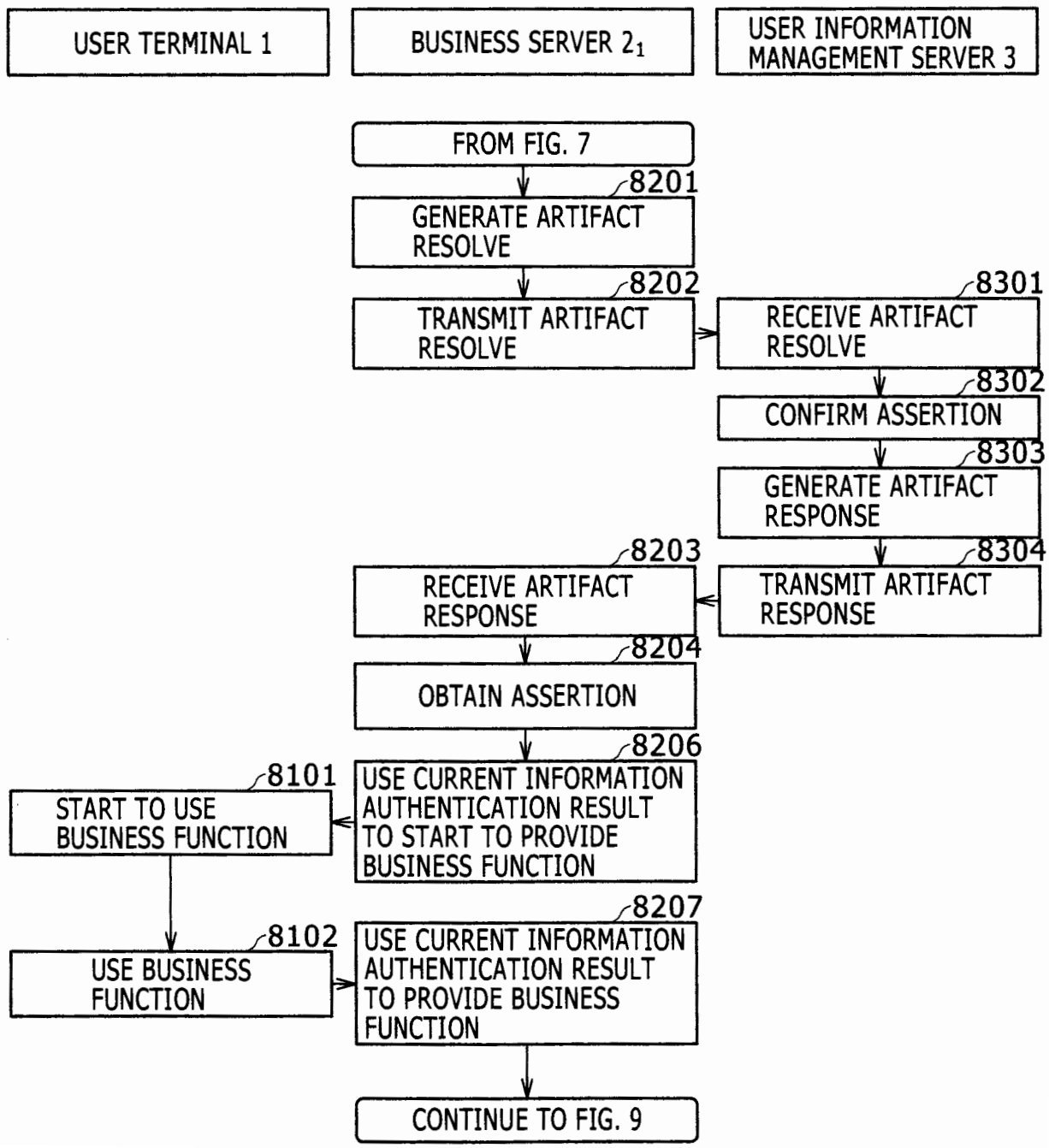

USER TERMINAL 1
BUSINESS SERVER 2_1
USER INFORMATION MANAGEMENT SERVER 3
FROM FIG. 7
8201
GENERATE ARTIFACT RESOLVE
8202
TRANSMIT ARTIFACT RESOLVE
8301
RECEIVE ARTIFACT RESOLVE
8302
CONFIRM ASSERTION
8303
GENERATE ARTIFACT RESPONSE
8304
TRANSMIT ARTIFACT RESPONSE
8203
RECEIVE ARTIFACT RESPONSE
8204
OBTAIN ASSERTION
8206
USE CURRENT INFORMATION AUTHENTICATION RESULT TO START TO PROVIDE BUSINESS FUNCTION
8101
START TO USE BUSINESS FUNCTION
8102
USE BUSINESS FUNCTION
8207
USE CURRENT INFORMATION AUTHENTICATION RESULT TO PROVIDE BUSINESS FUNCTION
CONTINUE TO FIG. 9

FIG. 9

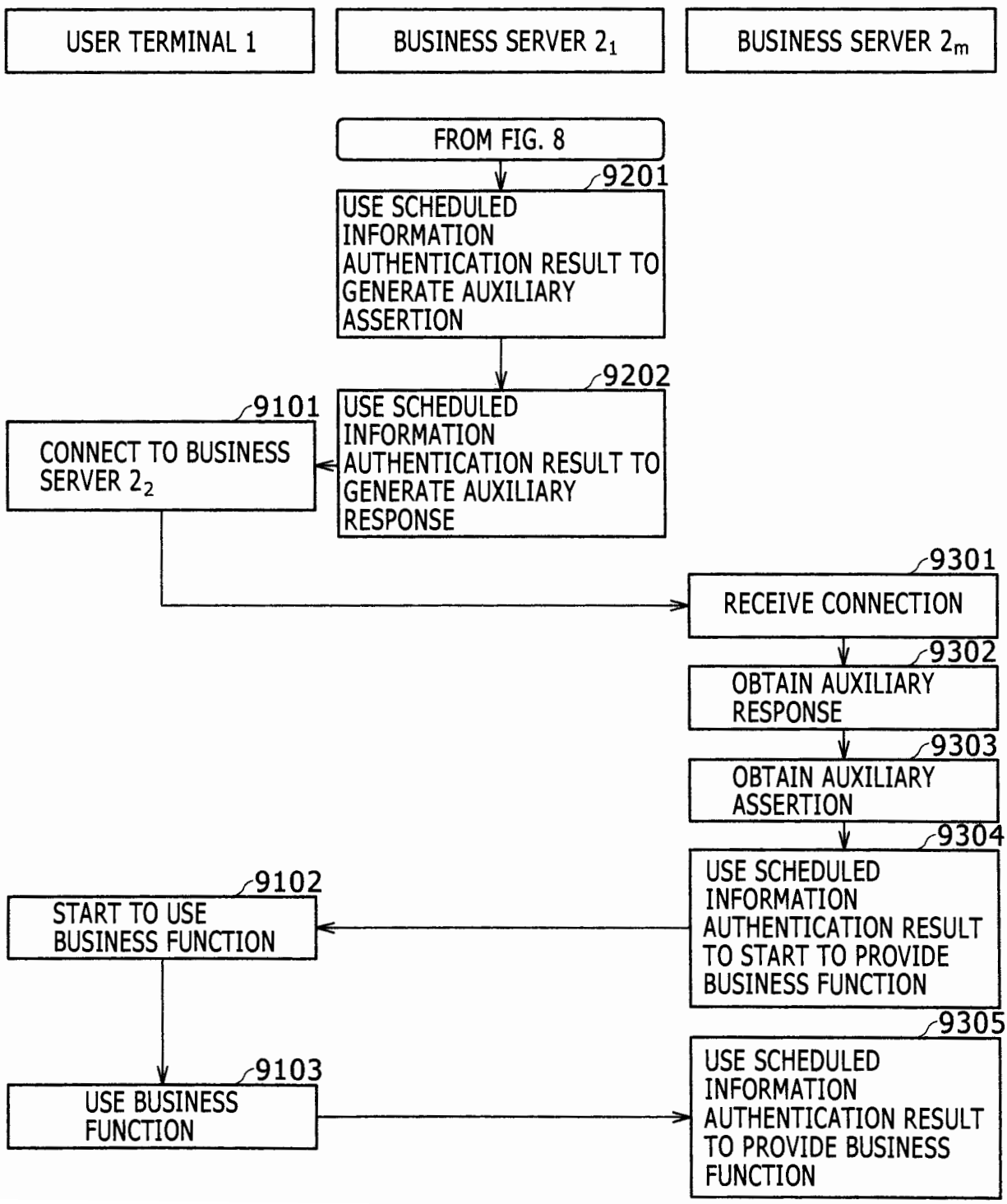
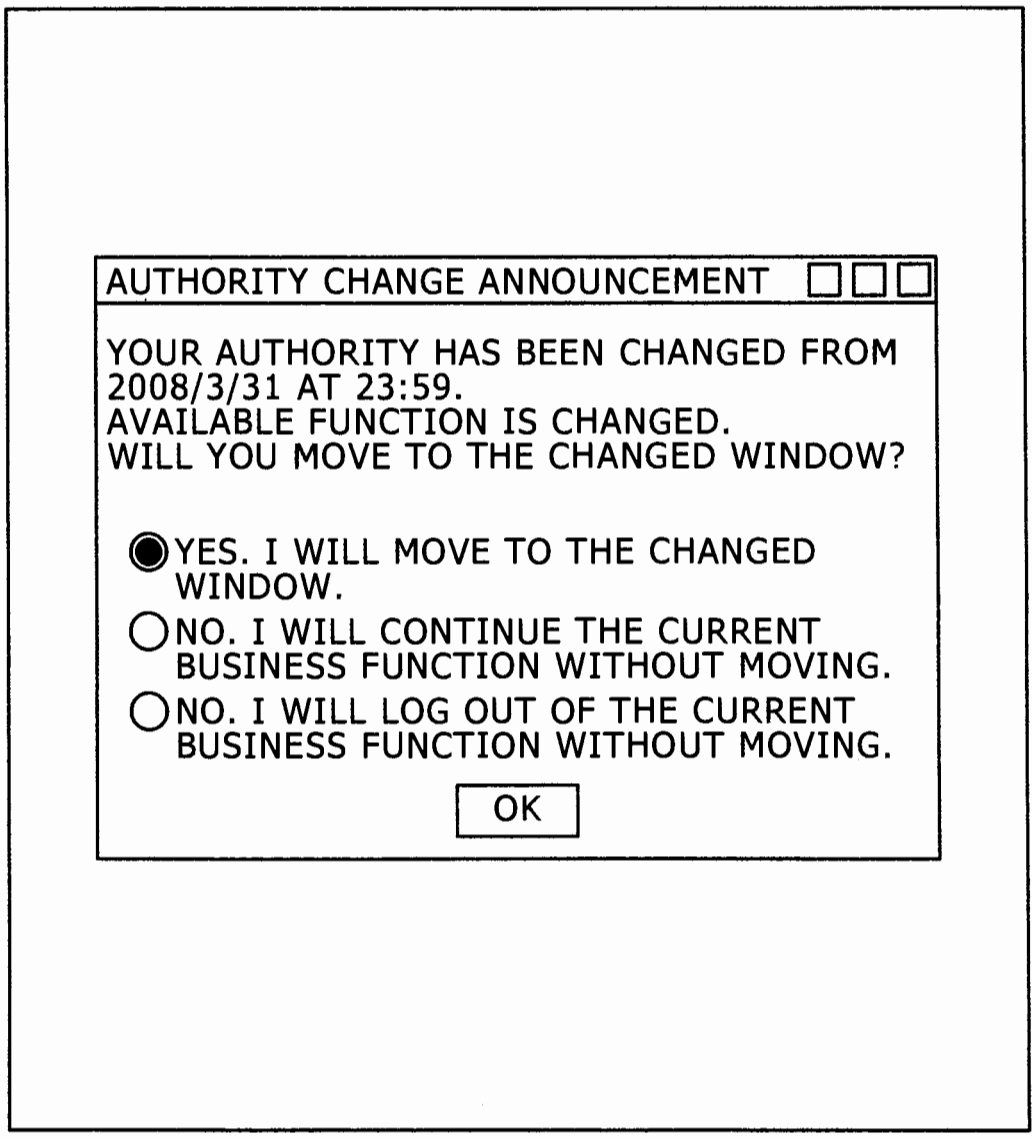

USER TERMINAL 1
BUSINESS SERVER 2_1
BUSINESS SERVER 2_m
FROM FIG. 8
9201
USE SCHEDULED INFORMATION AUTHENTICATION RESULT TO GENERATE AUXILIARY ASSERTION
9202
USE SCHEDULED INFORMATION AUTHENTICATION RESULT TO GENERATE AUXILIARY RESPONSE
9101
CONNECT TO BUSINESS SERVER 2_2
9301
RECEIVE CONNECTION
9302
OBTAIN AUXILIARY RESPONSE
9303
OBTAIN AUXILIARY ASSERTION
9304
USE SCHEDULED INFORMATION AUTHENTICATION RESULT TO START TO PROVIDE BUSINESS FUNCTION
9102
START TO USE BUSINESS FUNCTION
9305
USE SCHEDULED INFORMATION AUTHENTICATION RESULT TO PROVIDE BUSINESS FUNCTION
9103
USE BUSINESS FUNCTION

FIG.10

USER ID	AUTHENTICATION INFORMATION	AUTHORITY INFORMATION 1	VALIDITY PERIOD OF AUTHORITY INFORMATION 1	AUTHORITY INFORMATION 2	VALIDITY PERIOD OF AUTHORITY INFORMATION 2	AUTHORITY INFORMATION 3	VALIDITY PERIOD OF AUTHORITY INFORMATION 3
00001	PASSWORD 1234	PARTIAL BUSINESS FUNCTION 221_1	2007/4/1～ 2008/3/31	PARTIAL BUSINESS FUNCTION 221_2	2008/4/1～ 2009/3/31	PARTIAL BUSINESS FUNCTION 221_3	2008/4/1～ 2009/3/31
....							

FIG.11


AUTHORITY CHANGE ANNOUNCEMENT
YOUR AUTHORITY HAS BEEN CHANGED FROM 2008/3/31 AT 23:59.
AVAILABLE FUNCTION IS CHANGED.
WILL YOU MOVE TO THE CHANGED WINDOW?
YES. I WILL MOVE TO THE CHANGED WINDOW.
NO. I WILL CONTINUE THE CURRENT BUSINESS FUNCTION WITHOUT MOVING.
NO. I WILL LOG OUT OF THE CURRENT BUSINESS FUNCTION WITHOUT MOVING.
OK