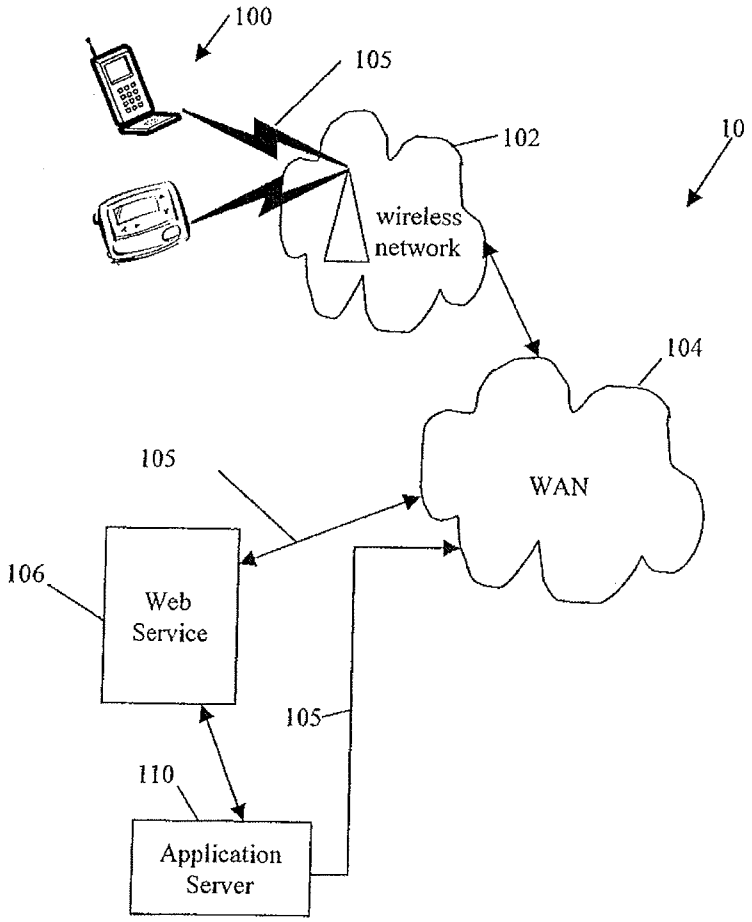

100
105
102
10
wireless
network
104
105
WAN
106
Web
Service
105
110
Application
Server

Figure 1

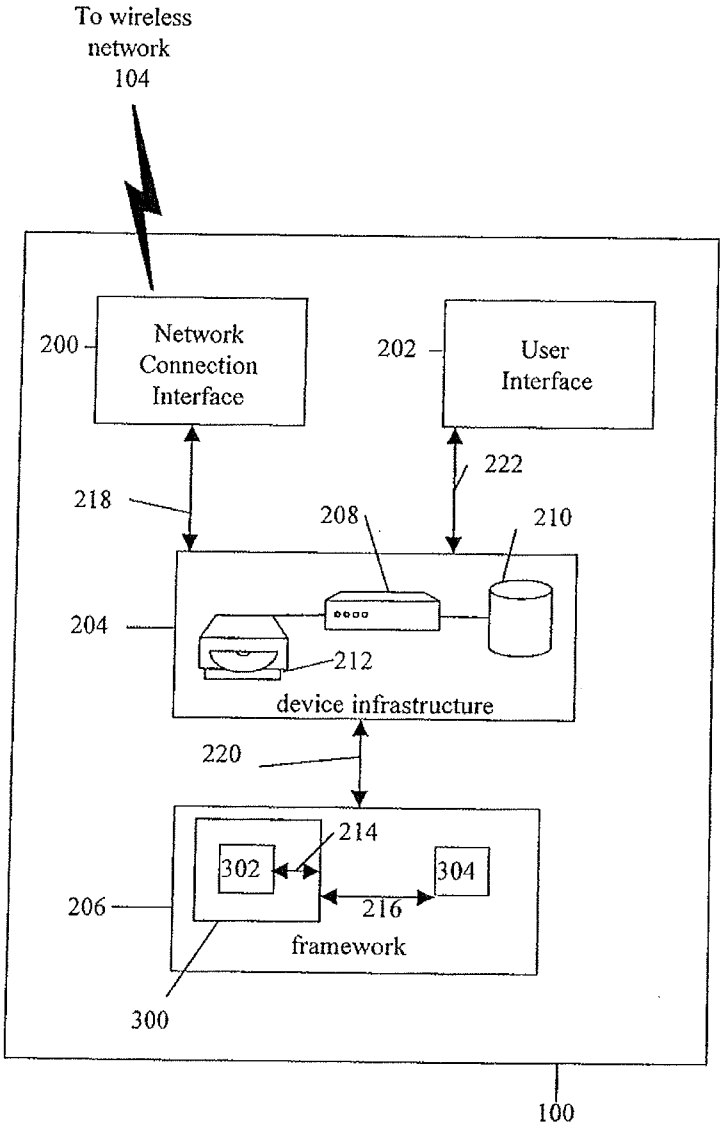

To wireless network 104
200
Network Connection Interface
202
User Interface
222
218
208
210
204
212
device infrastructure
220
214
302
304
216
206
framework
300
100

Figure 2

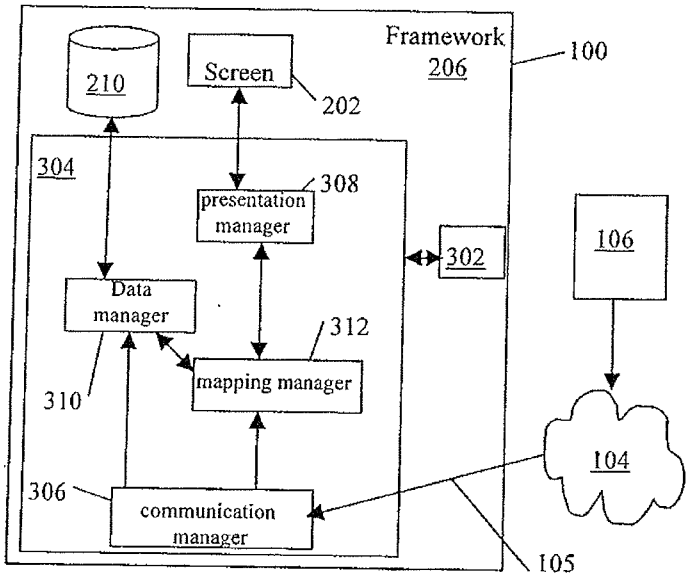

Framework
206
100
210
Screen
202
304
308
presentation
manager
302
106
Data
manager
312
310
mapping manager
104
306
communication
manager
105

Figure 3

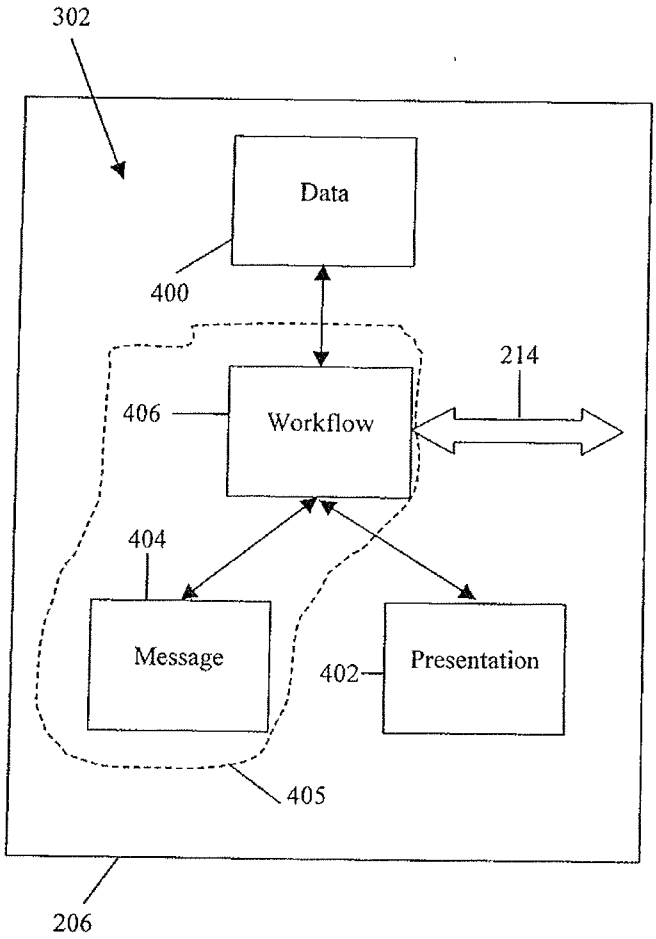

302
Data
400
214
406
Workflow
404
Message
402
Presentation
405
206

Figure 4

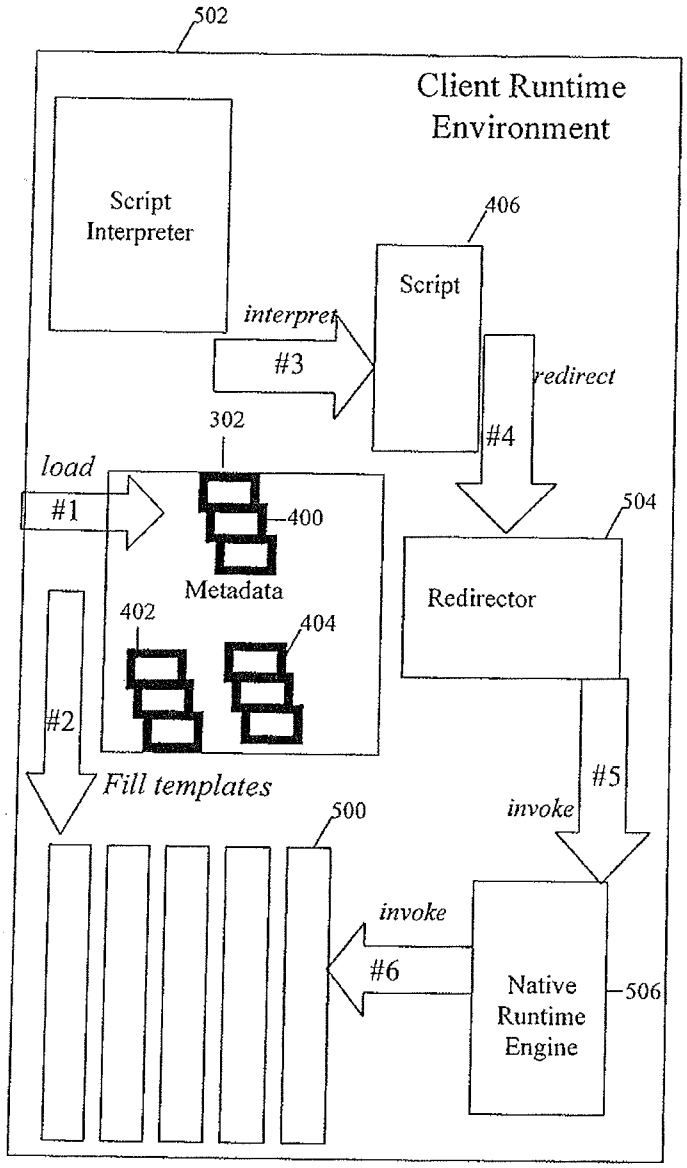

502
Client Runtime Environment
Script Interpreter
406
Script
interpret
#3
redirect
#4
302
load
#1
400
Metadata
504
Redirector
402
404
#2
Fill templates
#5
invoke
500
invoke
#6
Native Runtime Engine
506

Figure 5

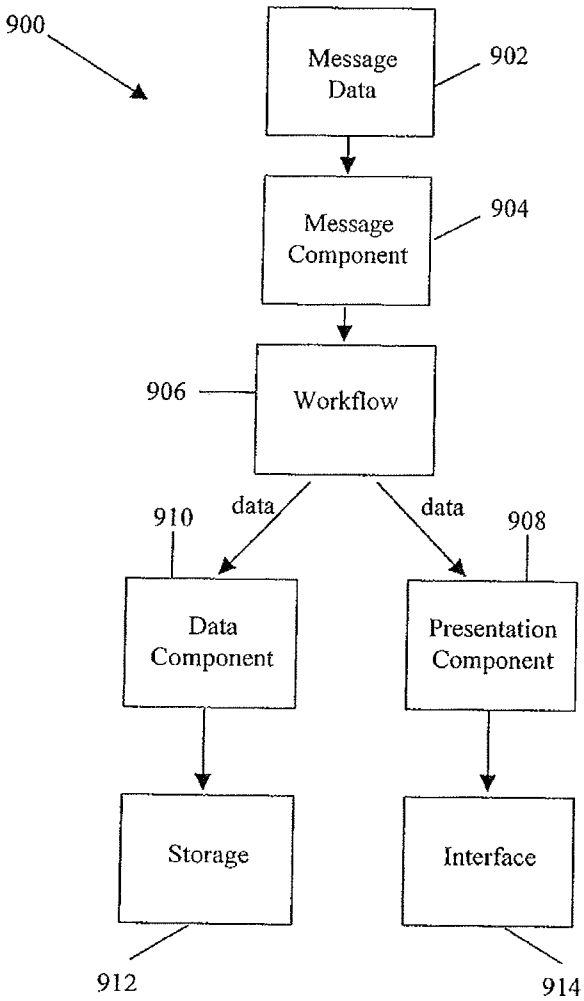

900
Message Data
902
Message Component
904
906
Workflow
910
data
data
908
Data Component
Presentation Component
Storage
Interface
912
914

Figure 6

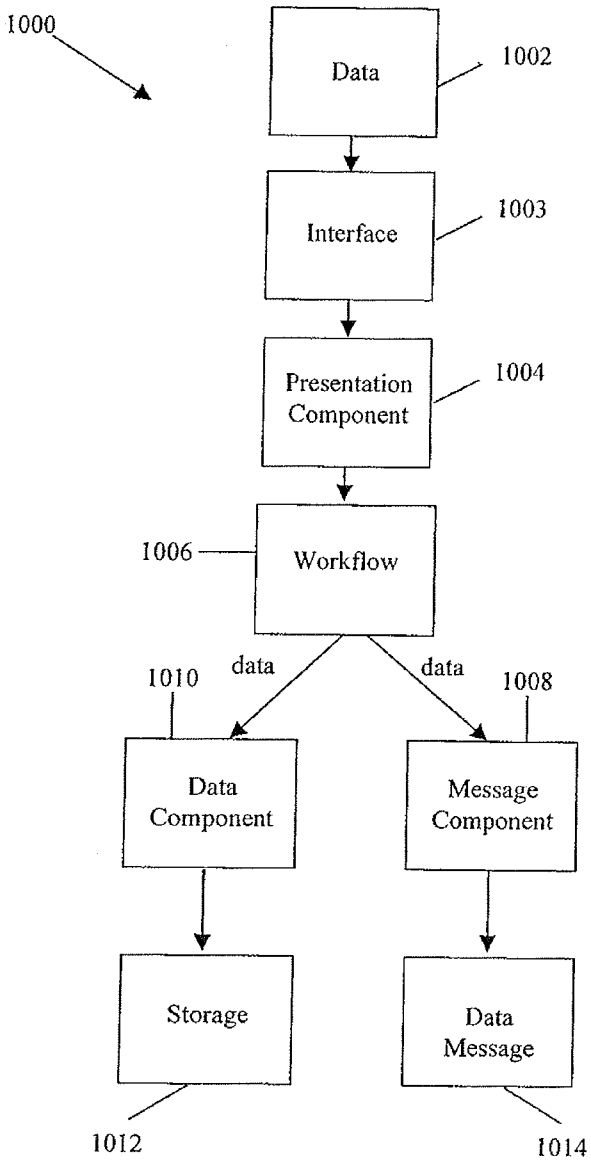

1000
Data
1002
Interface
1003
Presentation Component
1004
1006
Workflow
1010
data
data
1008
Data Component
Message Component
Storage
Data Message
1012
1014

Figure 7

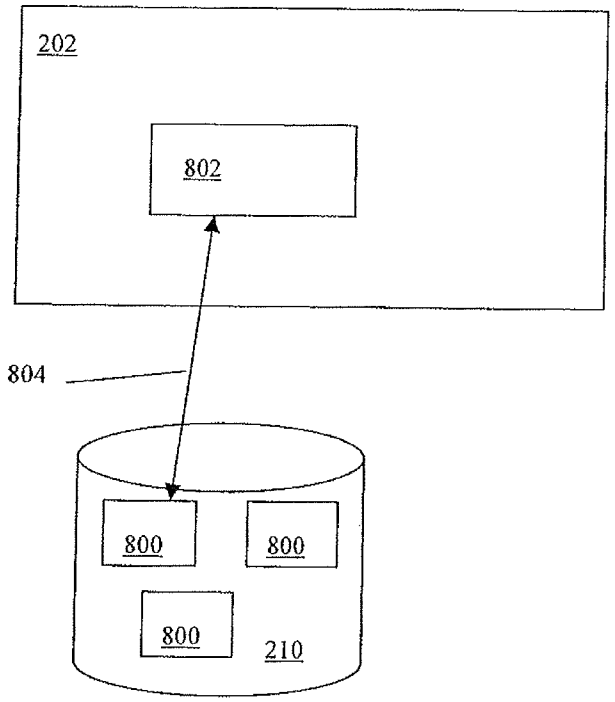


Figure 8

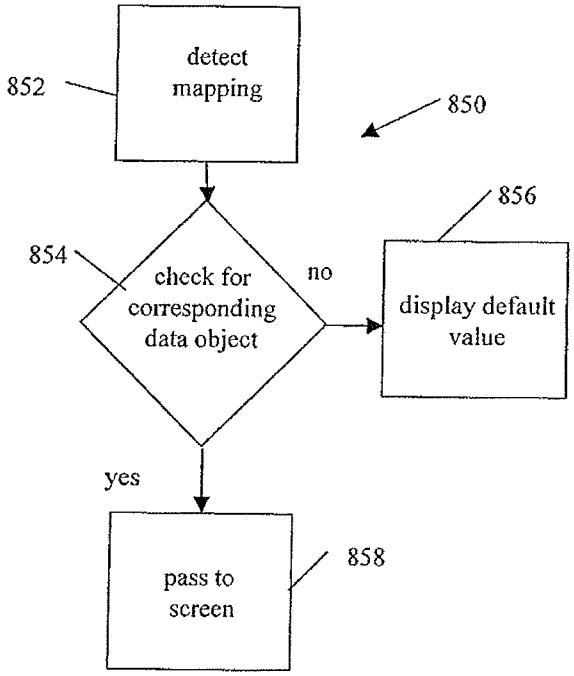

detect mapping
852
850
856
854
check for corresponding data object
no
display default value
yes
pass to screen
858

Figure 9

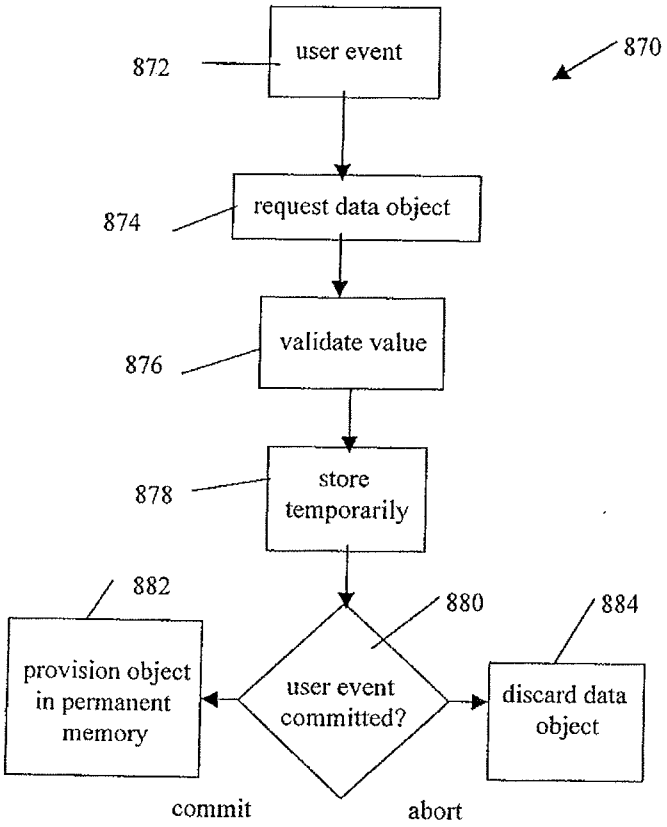

user event
870
872
request data object
874
validate value
876
store temporarily
878
882
880
884
provision object in permanent memory
user event committed?
discard data object
commit
abort

Figure 10

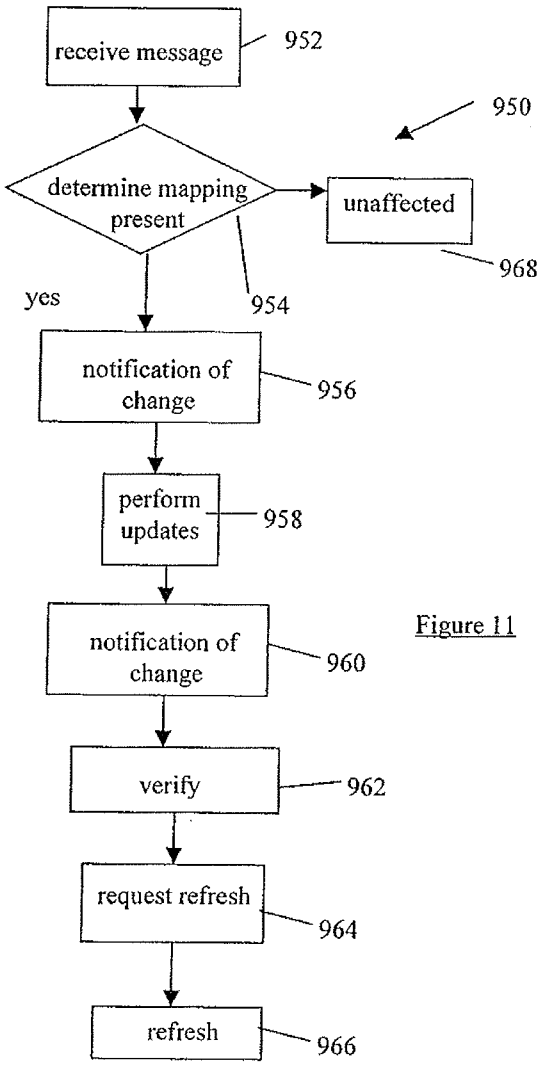

receive message
952
950
determine mapping present
unaffected
968
yes
954
notification of change
956
perform updates
958
notification of change
960
verify
962
request refresh
964
refresh
966

Figure 11