

FIG. 1

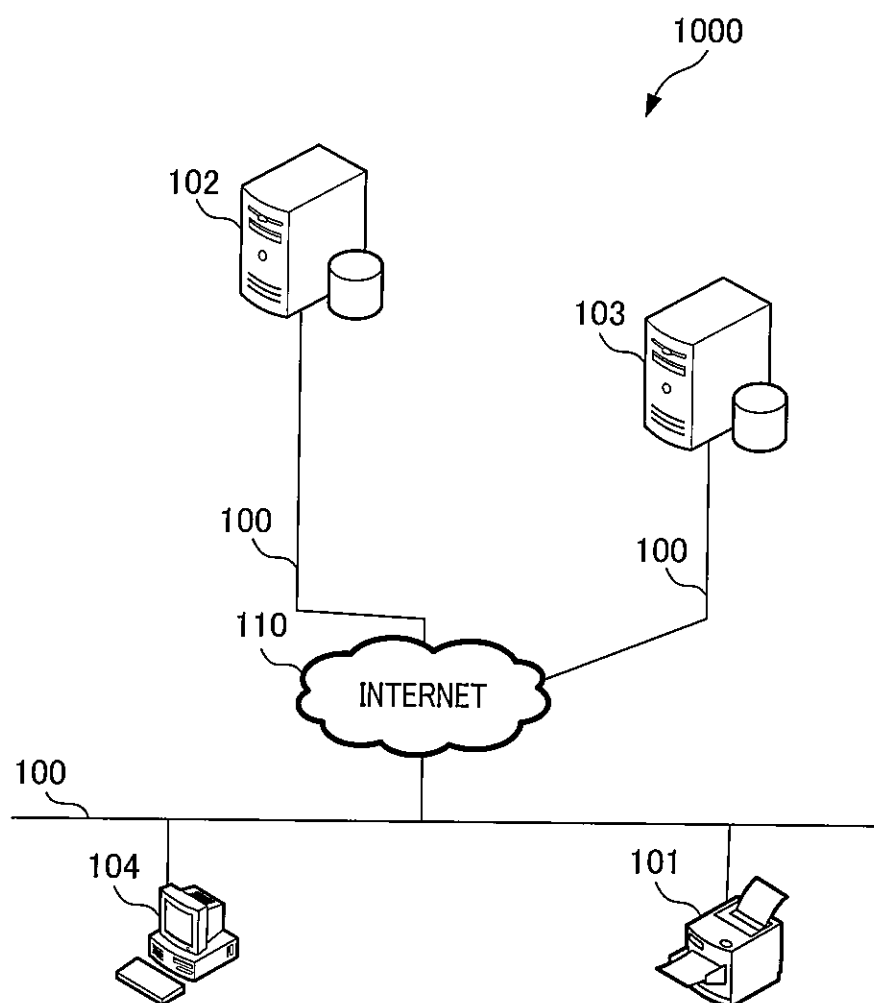


FIG. 2

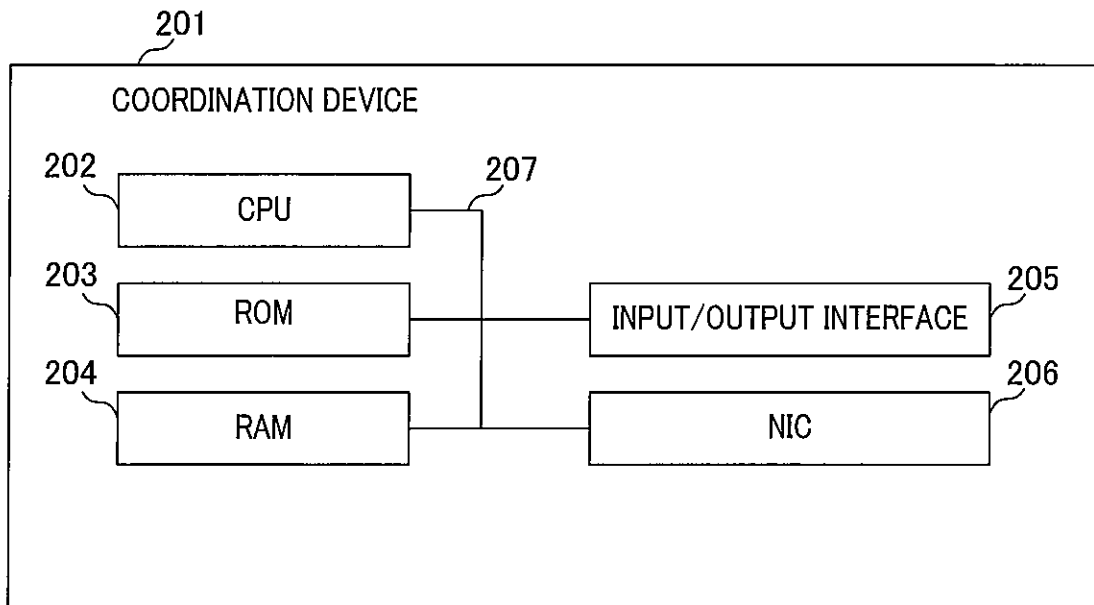


FIG. 3

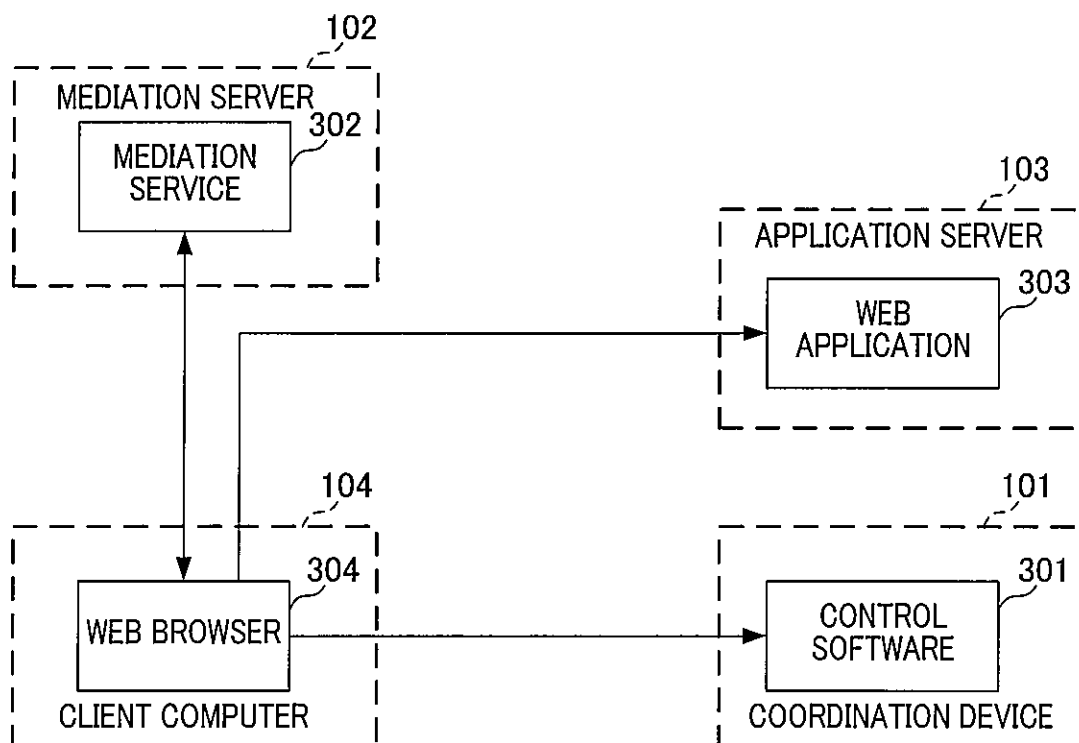


FIG. 4

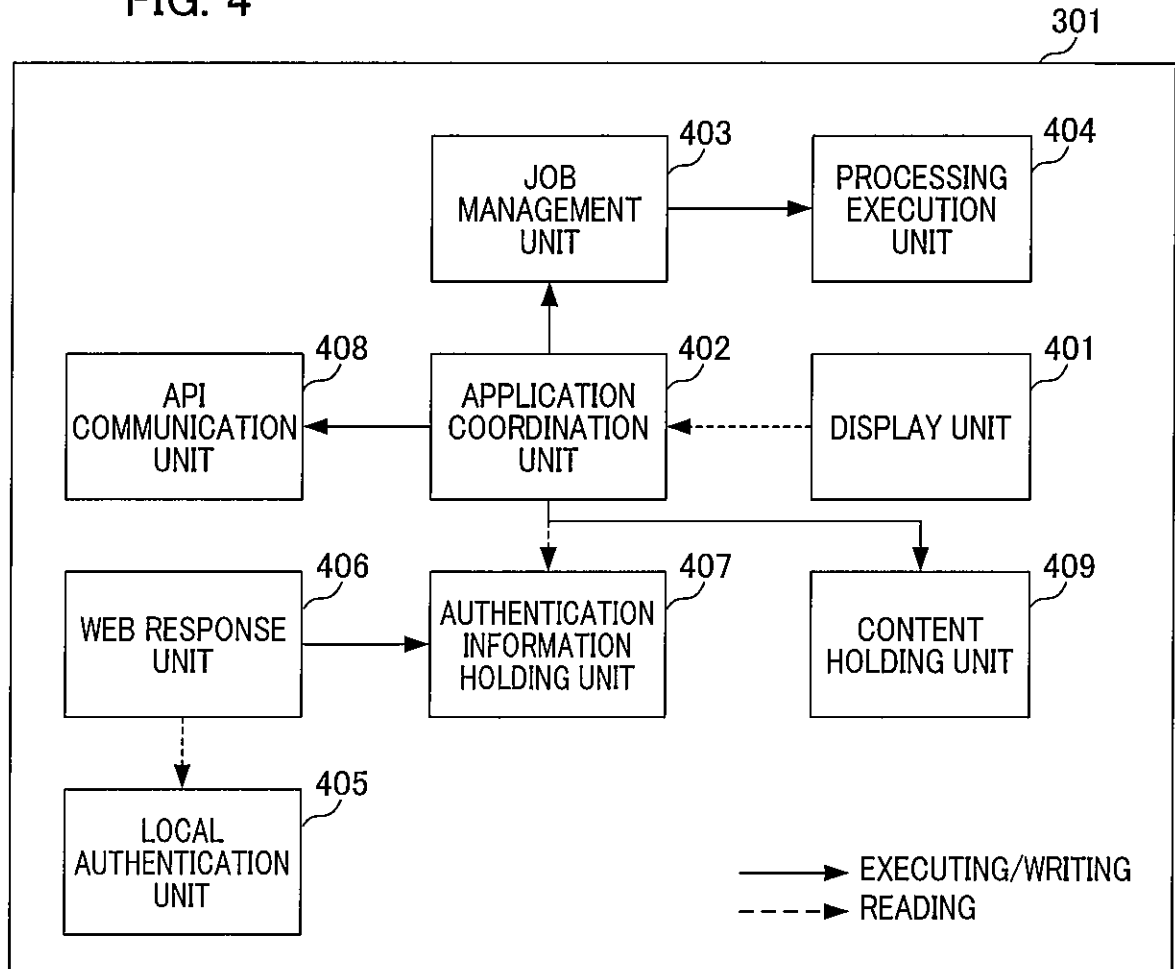


FIG. 5

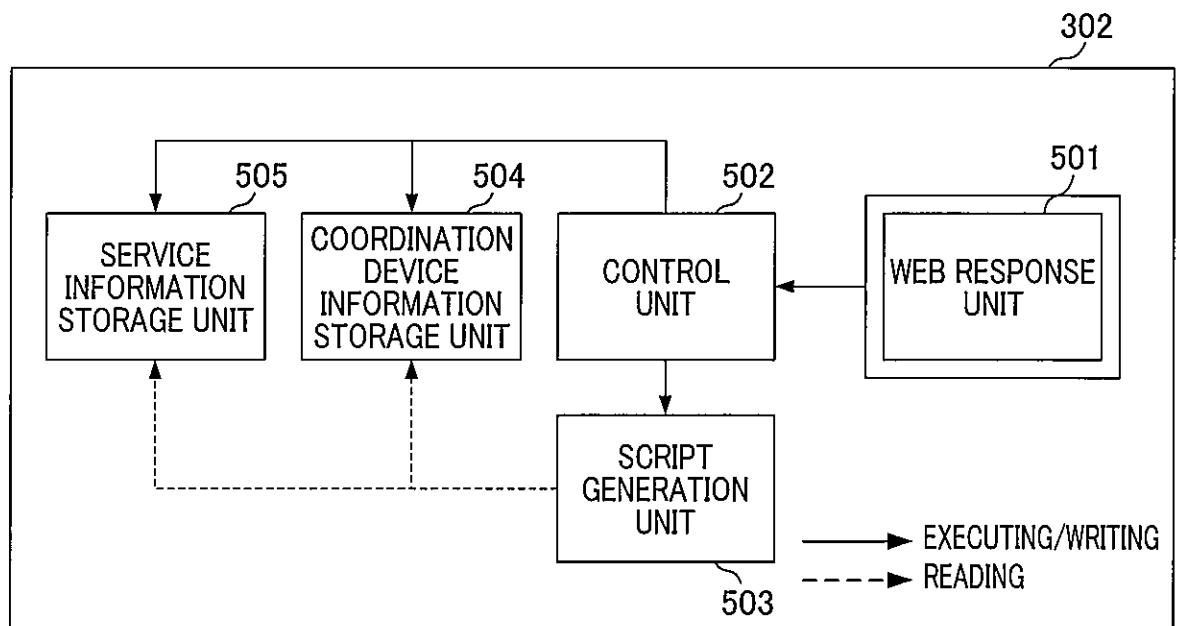


FIG. 6

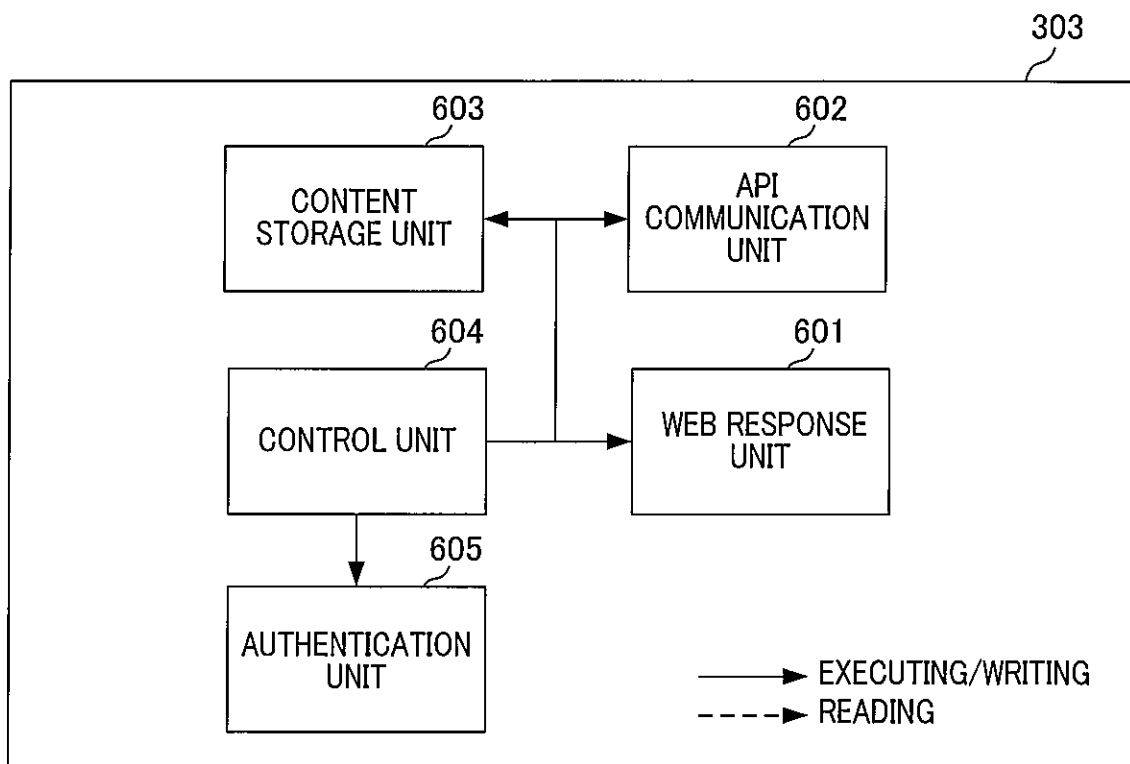


FIG. 7A

701

```
<script type="text/javascript">
<!--
location.href = "https://www.serviceA.com/accounts/OAuthGetAccessToken?
&callback_url=http://192.168.0.3/auth/
//-->
</script>
```

FIG. 7B

702

```
<script language="JavaScript">
<!--
var password;
var id;
function fnc_prompt1(){
    var msg;
    msg = window.prompt("Please enter user ID of service B","");
    id = msg;
}
function fnc_prompt2(){
    var msg;
    msg = window.prompt("Please enter password of service B","");
    password = msg;
}
fnc_prompt1()
fnc_prompt2()
locat
```

FIG. 8A

Coordinate cooperation device with web application

List of cooperation devices

Please press cooperation button for device to be coordinated with web application

| Cooperation device name | IP address  | Service A                                 | Service B                                 |
|-------------------------|-------------|-------------------------------------------|-------------------------------------------|
| Device A                | 192.168.0.2 | <input type="button" value="Cooperated"/> | <input type="button" value="Cooperated"/> |
| Device B                | 192.168.0.3 | <input type="button" value="Cooperate"/>  | <input type="button" value="Cooperate"/>  |
| Device C                | 192.168.0.4 | <input type="button" value="Cooperate"/>  | <input type="button" value="Cooperate"/>  |

<http://auth.service/deviceList/>

FIG. 8B

Authorization screen

Is it ok to authorize?

Do you authorize operation for content of print service of device B?

FIG. 8C

Authentication screen

Please input authentication information for web application.

Authentication information is saved only in device B.  
Mediation service does not save authentication information.

ID

User 1

Password

\*\*\*\*\*

<Http://192.168.0.3/auth/>

FIG. 8D

Cooperate cooperation device with web application

List of cooperation devices

Please press cooperation button for device to be cooperated with web application

| Cooperation device name | IP address  | Service A                                  | Service B                                  |
|-------------------------|-------------|--------------------------------------------|--------------------------------------------|
| Device A                | 192.168.0.2 | <input type="button" value="Coordinated"/> | <input type="button" value="Coordinated"/> |
| Device B                | 192.168.0.3 | <input type="button" value="Coordinated"/> | <input type="button" value="Coordinated"/> |
| Device C                | 192.168.0.4 | <input type="button" value="Coordinate"/>  | <input type="button" value="Coordinate"/>  |

<http://auth.service/deviceList/>

FIG. 9A

|     |  |               |            |                |          |                      |
|-----|--|---------------|------------|----------------|----------|----------------------|
| 900 |  | 901           | 902        | 903            | 904      | 905                  |
|     |  | Local user ID | Service ID | User ID        | Password | Authentication token |
|     |  | Local User A  | ServiceA   |                |          | Id04otkbnrldohnn     |
|     |  | Local User A  | ServiceB   |                |          | -p4krif8rjk4iri8     |
|     |  | Local User A  | ServiceC   | Service User 1 | *****    |                      |
|     |  | Local User B  | ServiceA   |                |          | feaoenfinne          |
|     |  | Local User B  | ServiceB   |                |          | roltkgielleop        |
|     |  | Local User B  | ServiceC   | Service User 2 | *****    |                      |

FIG. 9B

|     |            |              |                       |
|-----|------------|--------------|-----------------------|
| 910 | 911        | 912          | 913                   |
|     | Service ID | Service name | Authentication method |
|     | ServiceA   | Service A    | OAuth                 |
|     | ServiceB   | Service B    | Basic                 |

FIG. 9C

|     |           |             |             |                 |                 |
|-----|-----------|-------------|-------------|-----------------|-----------------|
| 920 | 921       | 922         | 923         | 924             | 925             |
|     | Device ID | IP address  | Device name | Service A       | Service B       |
|     | dca       | 192.168.0.2 | Device A    | Coordinated     | Coordinated     |
|     | dcb       | 192.168.0.3 | Device B    | Not-coordinated | Coordinated     |
|     | dcc       | 192.168.0.4 | Device C    | Not-coordinated | Not-coordinated |

FIG. 9D

|     |                |                      |
|-----|----------------|----------------------|
| 930 | 931            | 932                  |
|     | Application ID | Authentication token |
|     | App A          | dpelttigkk           |
|     | App B          | //c:dpf,e            |
|     | App C          | Leofidkem,           |

FIG. 9E

|     |         |          |
|-----|---------|----------|
| 940 | 941     | 942      |
|     | User ID | Password |
|     | User A  | *****    |
|     | User B  | *****    |
|     | User C  | *****    |

FIG. 10

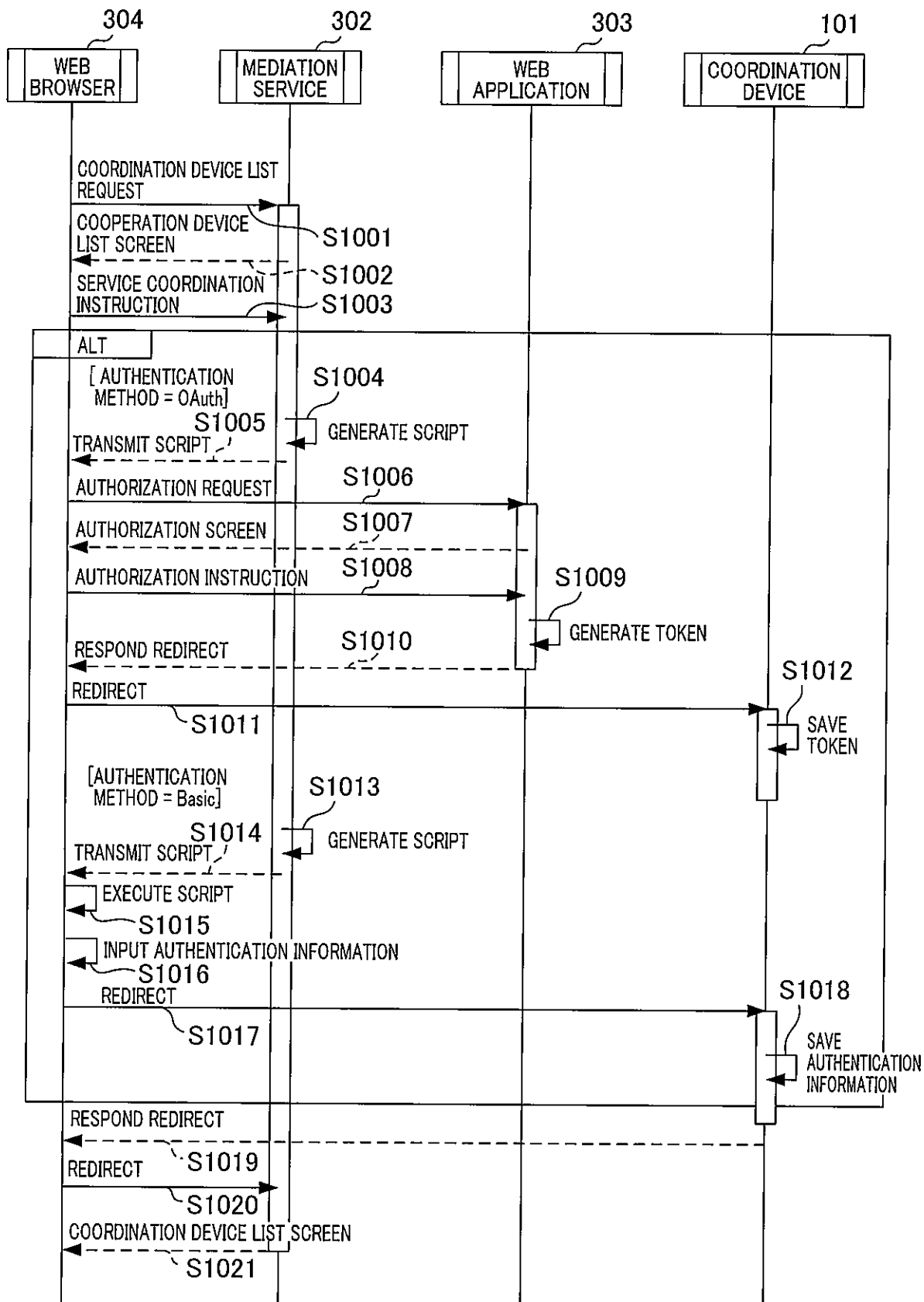


FIG. 11A

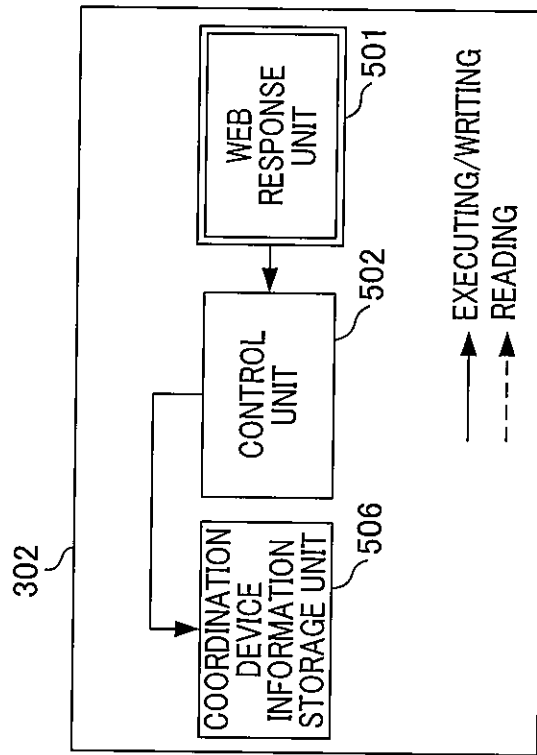


FIG. 11B

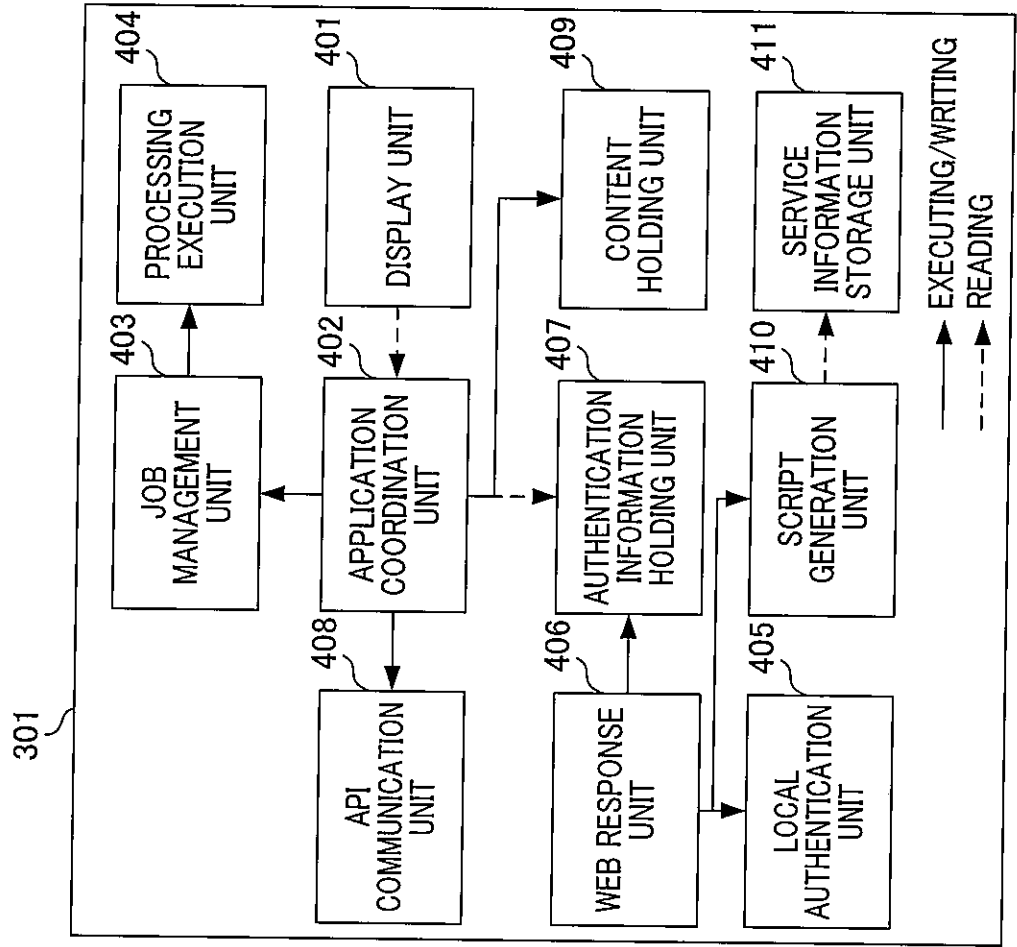


FIG. 12

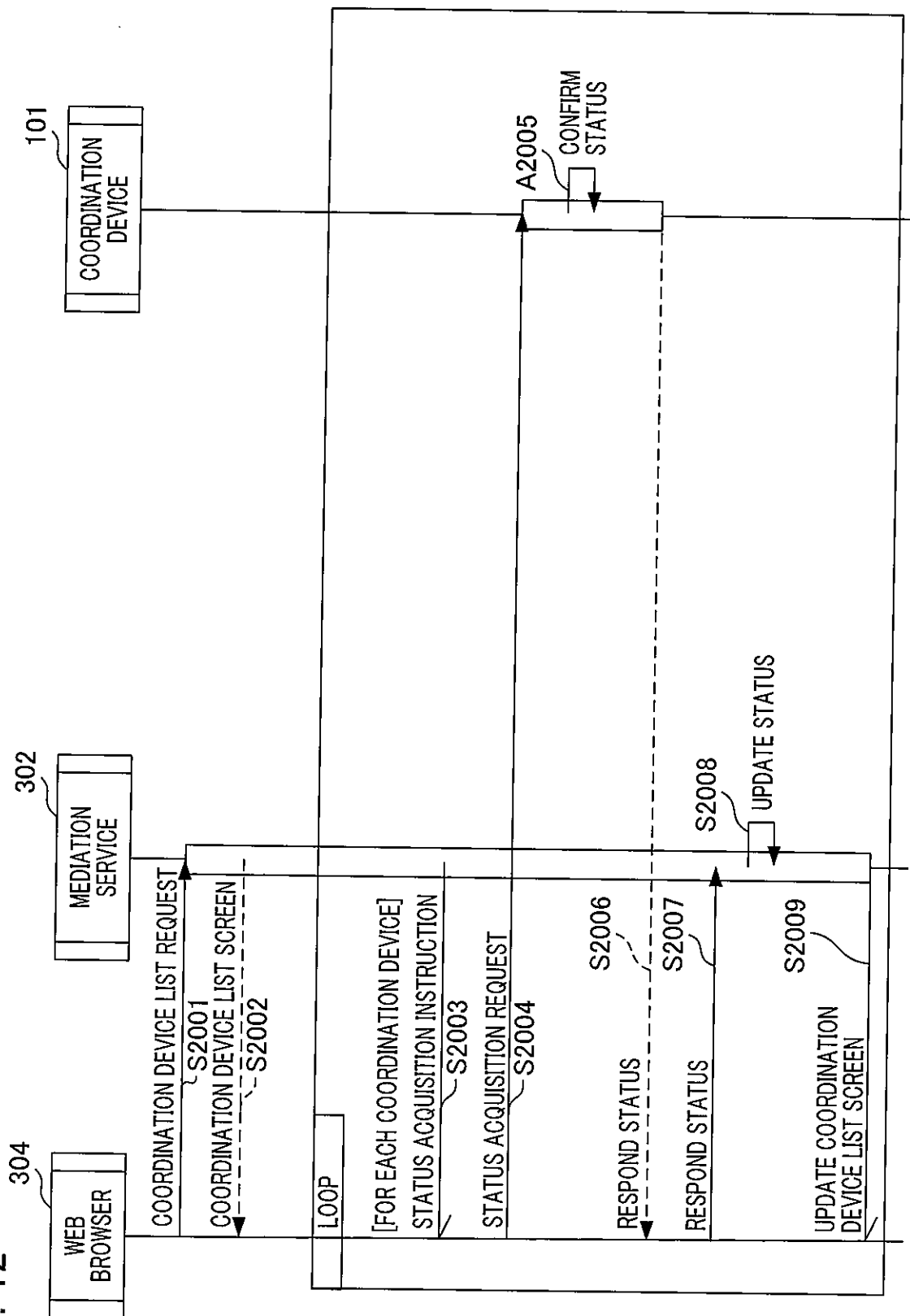


FIG. 13

11/13

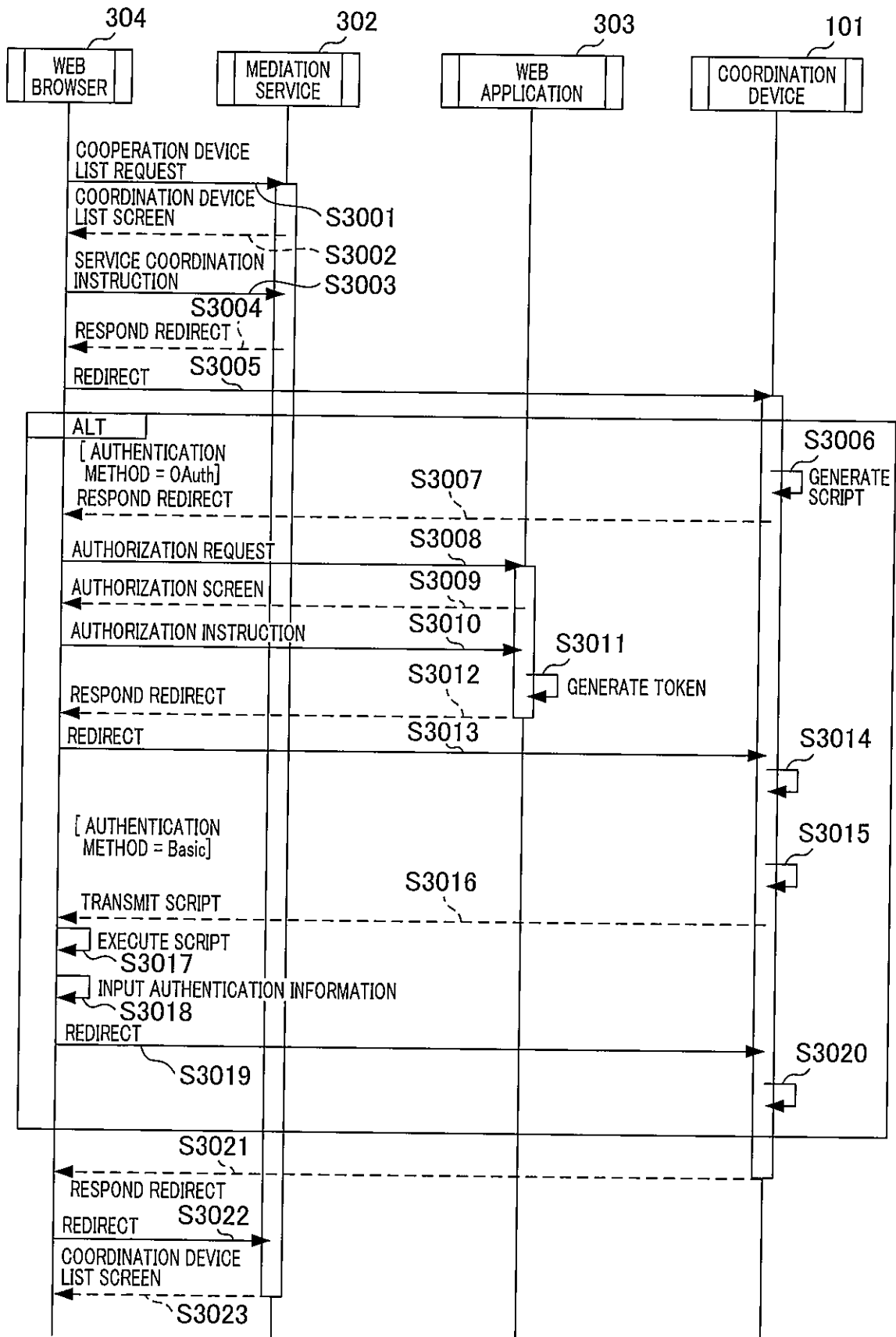


FIG. 14

1400

Coordinate with web application

List of web applications

Please press coordination button for web application to be coordinated

|             |             |
|-------------|-------------|
| Service A   | Service B   |
| Coordinated | Coordinated |

[Http://192.168.0.2/appList/](http://192.168.0.2/appList/)

FIG. 15

