

What's Web-based Signage?

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Digital Signage

- Digital signage is a service for showing advertisements or information by using display technology with high-growth expectations.

Two types of Digital Signage

Playlist Type



Show content sequentially such as video programs or still images. Audiences can get information only by watching a digital signage screen.

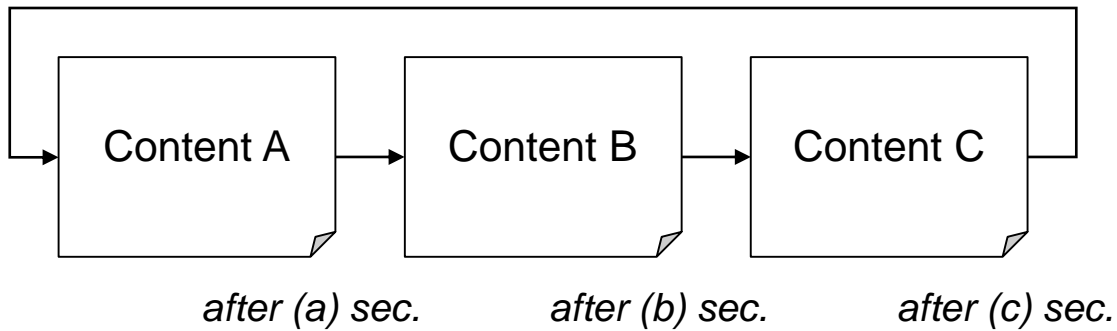
Interactive Type



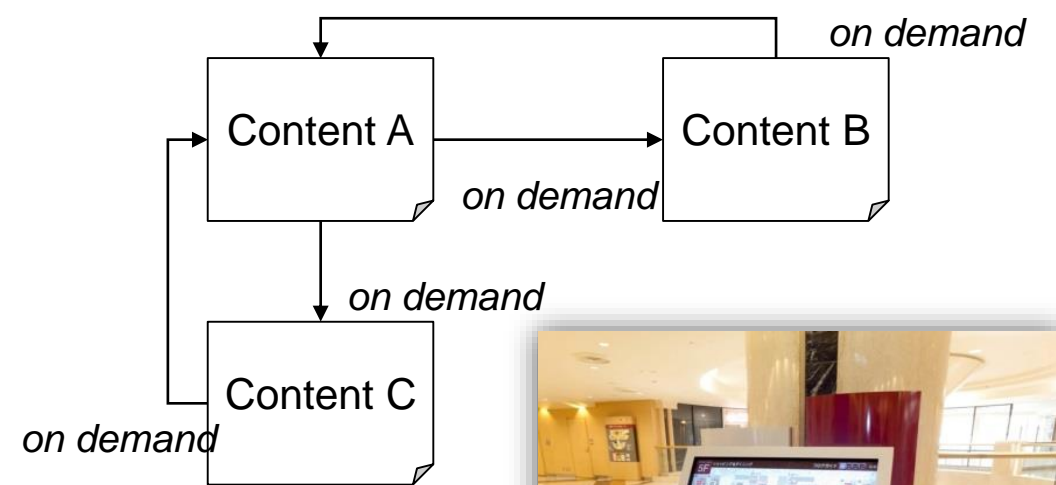
Show content in response to the audience's interaction, for example, by pushing a button indicated on the touch panel screen.

Content Presentation

Playlist Type



Interactive Type



Both types show a variety of content along the pre-defined hyperlinks.

Web has a high affinity for the Digital
Signage!

What is Web-based Signage?

- The digital signage which uses Web technologies.
- ✓ Definition in draft ITU-T HSTP.DS-WDS “Technical Paper of Web-based digital signage” (under the study)



Digital Signage

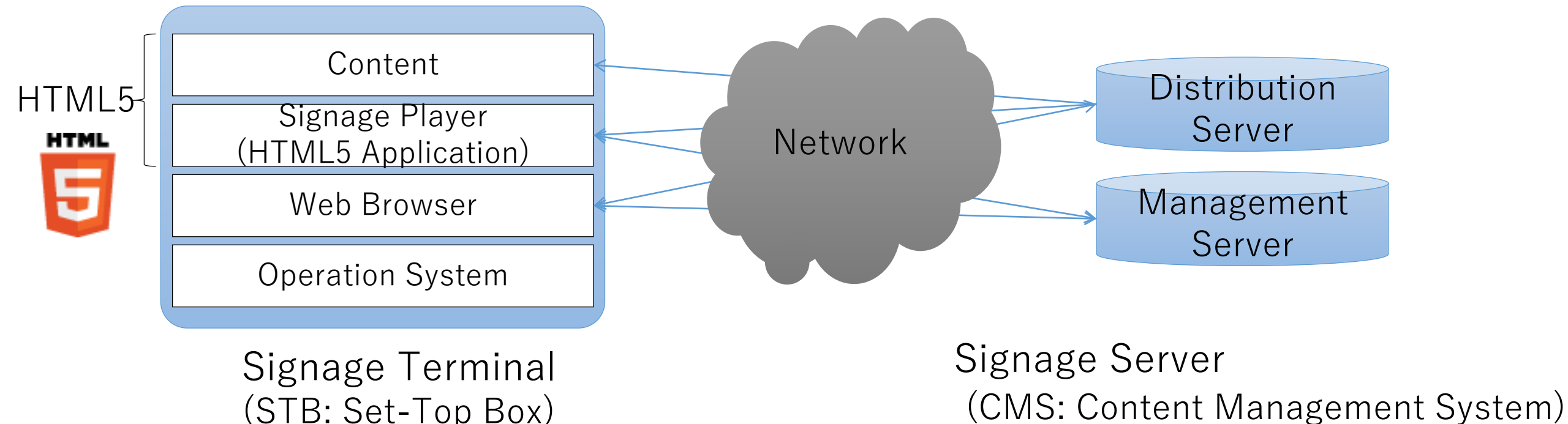
Web Technologies

- Hyperlink mechanism
- Web content
- Web application
- Web API
- ...



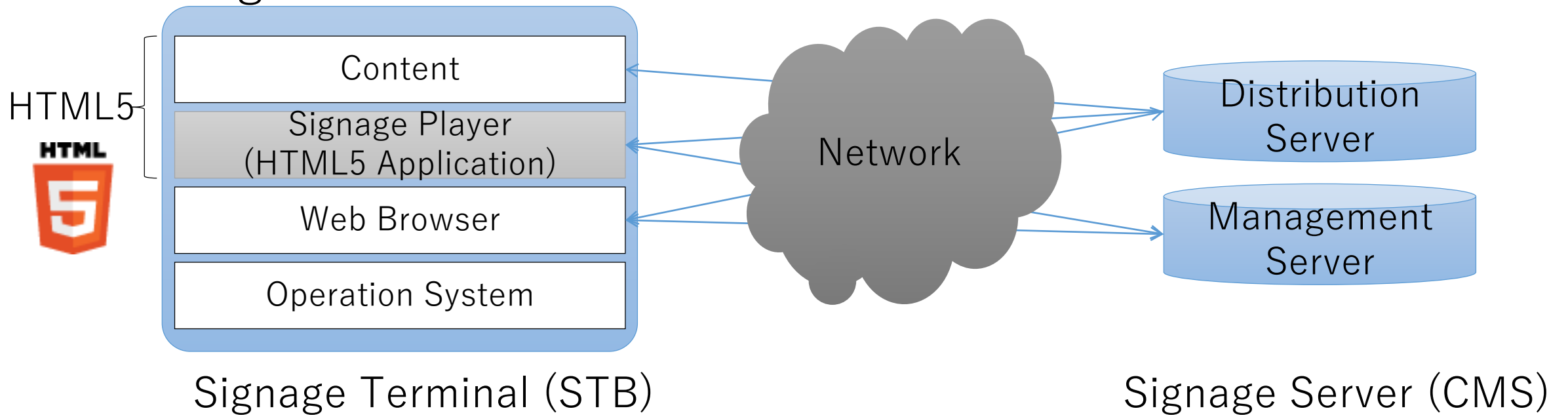
Web-based Signage Architecture

- The terminal software consists only of the Web browser and the signage player (HTML5 application).
- The browser fetches the signage player and contents from distribution server.



Signage Player

- HTML5 is now not only a layout description language, but is also used as middleware on a Web browser.
- The signage player provides the digital signage service with controlling the content presentation and the terminal management.



What's the Benefit of Web-based Signage?

Why is Web-based Signage Good? (1)

- Reason 1: Enable the general system configuration with the standard technologies and applications by using the Web browser

Reason 1: Web Browser Terminal

- The Web browser have been equipped in a variety of terminals (not only PCs but also tablets or TV sets).
- Many types of terminals can be used for Web-based signage.

Benefits for the Location Owner

- The location owner (the terminal manager) requests
 - Small space for STB (no space for the additional equipment)
 - Distribution to various terminal device
 - Immediate recovery with an alternative terminal device in case of accident
- Using browser-ready consumer devices (TVs) as signage terminals is the possible solution.

Why is Web-based Signage Good? (2)

- Reason 2: Enable the content creation, making the best use of a variety of digital assets on the cloud such as the Web APIs and the open data, because of HTML5

Reason 2: Content Creation

- HTML5 is widely used for content creation by many creators.
- HTML5 is efficient because if one source of HTML5 is provided, it can be used for the multiple terminals.

Benefits for Content Creator

- The content creator can use the mechanism of
 - Automated distribution of real-time information
 - Immediate display of information from various news sources
 - Reuse of the Web pages for the signage services
 - Distribution even to smart-devices
 - Using other service APIs such as the foreign language translation

Why is Web-based Signage Good? (3)

- Reason 3: Enable the content management functions implemented on the Web server. The operation methods via the Web browser may be conducted.

Reason3: Web-based Operation

- The signage server can be operated not only from a desktop PC, but also from a tablet or a smart-phone.
- The operation is enabled at anytime and from anywhere.

Benefits for the Signage Service Provider

- The signage service providers can operate servers
- Only with a browser (without any additional software)
- By multi-user and multi-location
- With easy operation even for the beginners