

THE OPERA PLATFORM



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THE WEB IS CALLING

With the Opera Platform Operators can seamlessly integrate online content with local applications. In addition, Operators have complete control of the look and feel of the handset Home Screen and can customize it with their own branding and content. The design can be stored on the Operator server and be dynamically updated at any time.



Customizable Home Screen – Powerful and Flexible

With the Opera Platform Operators have full flexibility in customizing the device Home Screen design. The screen can be compared to a blank drawing board. Browser technologies such as HTML, CSS, JavaScript and DOM are the pencils and markers available for the design.

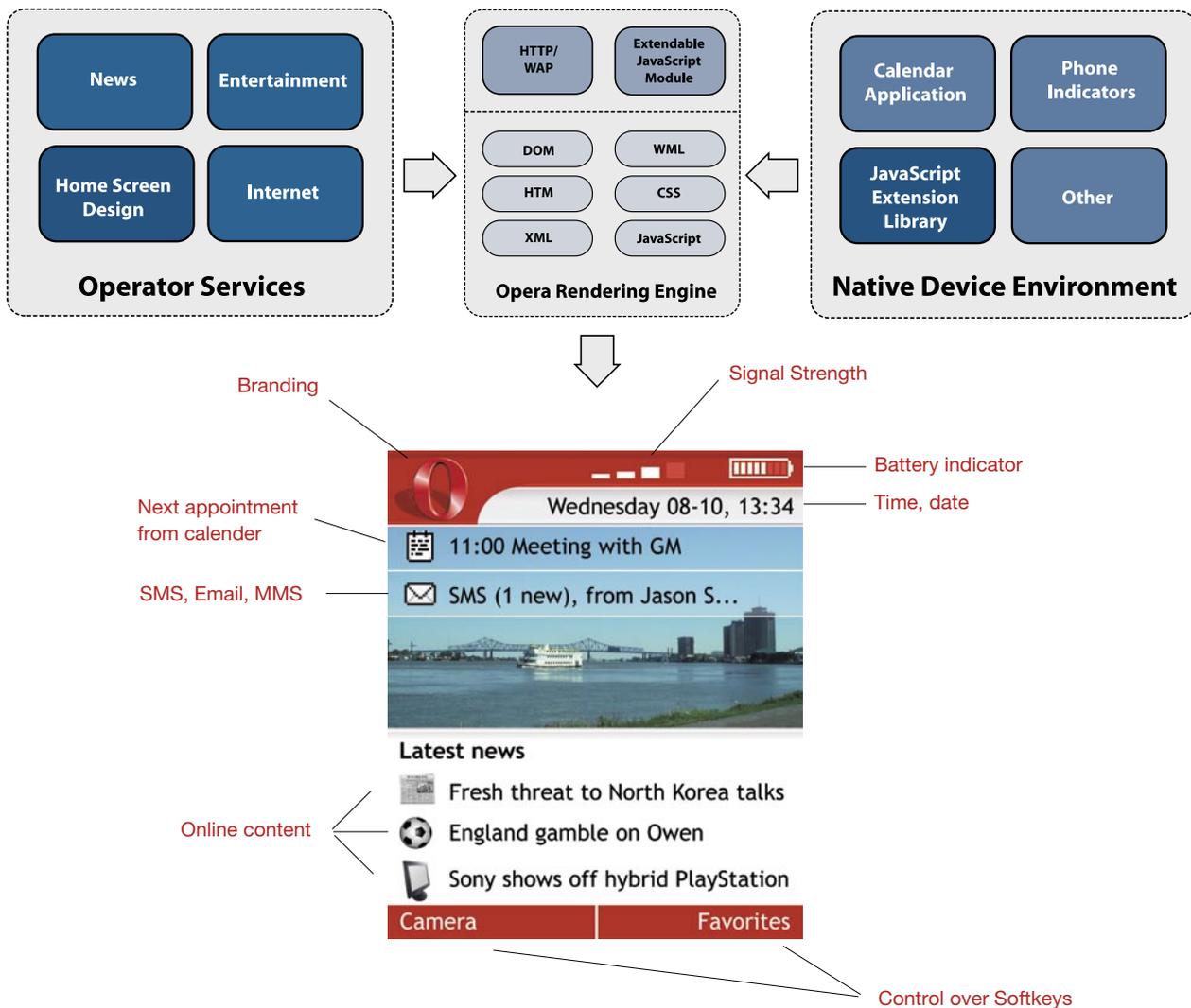
Together these provide a technology platform powerful enough to create a Home Screen which is appealing to the end user, has access to all essential functionality of the platform and has full Operator branding.

The Opera Platform is more flexible than any other solution on the market. The number of possible Home Screen designs are as limitless as all the different Web-page designs seen on the Internet today.

Integration of online content and local applications

The Opera Platform enables seamless integration of online content and services with local handset applications. The Home Screen can contain teasers such as news headlines, new ring tones, competitions, operator offers and more. By leveraging Opera's JavaScript extension capabilities, information from local applications such as Messaging and Calendar can be integrated into the same screen. The technical difference between the latest news headline and next calendar appointment is transparent to the user.

Online content has previously been mainly available from Operator portals. The essential difference is that with the Opera Platform, the teasers are displayed on the screen that is visible on the handset at all times when it is not being used for anything else. All mobile phone users repeatedly glance at their handset even if it is not in use. When checking time, battery status, signal strength, new messages, missed calls or any other phone functionality, users will now see updated information to online content and services, stimulating increased use of mobile data services



TECHNOLOGY

Integration

The key component of this solution is the Opera browser engine. It supports powerful W3C standards such as HTML, CSS, JavaScript and DOM. These technologies enable the many different Home Screen design options.

The browser JavaScript engine has been extended to allow the JavaScript environment to be extended with new classes and methods implemented in native code. This extension communicates with an operating system specific JavaScript extension library. The possible functionality of the JavaScript extensions is only limited by the API for the device platform itself.

Local applications can also be launched directly from the Home Screen. Icons or text can be defined to trigger action within the Home Screen or to bring the user to local applications such as Messaging, Contacts and Calendar. Operators can offer users a chance to customize the applications available directly from the Home Screen.

Dynamic

Using the JavaScript extensions and the Opera browser engine's support for DOM the Web page can be automatically updated when certain events occur (e.g. when a new SMS message is received). This means that the Home Screen can change its own appearance on user interaction or other events. The change can be as simple as an update in text or numbers, or more complex as showing a picture or message box. It is even possible to change the displayed Home Screen completely. By combining JavaScript extensions and DOM the possibilities for creating dynamic, interactive Home Screens that can present both local and remote services are endless.

Updateable over the air

The Home Screen design and JavaScript extensions are defined by an HTML-document located on the Operator's server. This can be updated at any time with minor changes such as the most recent news headlines, introducing new services to the user or complete redesigns of the Home Screen.

Design

Opera's browser technologies are based on open standards, already well-known by millions of Web developers. A wide range of powerful authoring tools are available. The JavaScript extensions follows common syntax and are easy to learn. Implementing new Home Screen designs with the Opera Platform is extraordinarily fast compared to what is possible with any proprietary technologies.

User experience

The Opera Platform is based on the integrated Opera browser engine. When the user selects a link to online content it will be displayed within the same application. Going from the Home Screen to an online service and back will be seamless.

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