

# NetFront™ Widgets

A Comprehensive Mobile Widget Platform for NetFront Browser, the World's Browsing Standard



The NetFront™ Widgets brings the power of Internet widgets to "connected" devices, enabling the creation of a content provider, manufacturer, and service provider ecosystem, whereby, the service provider can more easily make available the latest Web 2.0 services for their devices, providing greater value for their customers.

NetFront Widgets exemplifies ACCESS' commitment to bring the Internet to mobile devices. It is for this reason and others, why the NetFront™ Browser is the most popular choice for manufacturers and operators. In fact, NetFront™ products, including the NetFront Browser as an embedded Internet browser, have shipped in over 590 million devices (as of May 31, 2008) throughout the world, including mobile phones, digital TVs, set-top boxes, mobile handhelds, game consoles, automobile navigation systems and many other types of products.

## 590 Million and Counting...

As a testimony to its popularity, NetFront products, including the NetFront Browser, have shipped in over 590 million devices (as of May 31, 2008) throughout the world, including mobile phones, digital TVs, set-top boxes, mobile handhelds, game consoles, automobile navigation systems and many other types of products. Chances are one or more products you use on a daily basis incorporates NetFront™ technology. This success exemplifies ACCESS' commitment to bring the Internet to beyond-PC devices and while its heritage began with mobile phones, ACCESS continues to advance NetFront products, and as more products with in the home become connected, ACCESS and "NetFront" will be there. NetFront Widgets extends ACCESS' leadership position for bringing the Internet to mobile devices.

## Personalization

A primary component of NetFront Widgets is the notion of immediate access to personalized and customized content. This empowers the end-user to customize their widgets to suit their personal preferences, thereby, allowing them to view updated information each time they use their widgets. The range of personalization spans the gamut of Internet content, from stocks and weather, to social networking and beyond. NetFront Widgets enables the creation of a platform for bringing today's Internet, and tomorrow's, to mobile devices.

## Device Interactivity with DirectConnect

DirectConnect, ACCESS' ECMAScript-driven interface, enables the creation of a entirely new class of applications which combine Web 2.0 services with device-resident capabilities. Such capabilities include location using GPS and other positioning methods, access to local content stored in the address book and calendar, sharing of music, pictures and movies made accessible by DLNA (Digital Living Network Alliance) technology, etc. The range of possibilities are endless.

## More Features

### Content

- W3C content format support: HTML, XHTML, CSS, JavaScript™, AJAX, etc.
- Support for widget content download through the integrated download descriptor
- Support several running instances of the same widget content and provide a mechanism for widget content service differentiation

### Specifications

- Developed as a subset of W3C Widgets 1.0 specification
- Proprietary signature method, also adaptable to W3C widget methods
- Proprietary widget DOM interface

### Functionality Extension

- Default extension for common device functionalities (location, power, wireless information, etc.)
- Provides a powerful mechanism to extend JavaScript functionality

### Security

- Advanced security implementation to protect against malicious code, targeted identity theft, terminal crashes, security bugs, hack exploitations, etc.
- Trust levels, protection modes, and server access control mechanisms



## Key Benefits | NetFront Widgets

### Network Operator

- Allows mobile network operators and service providers to add value to their services, maximize the hit rate of targeted customers, and increase access to their data services while also increasing subscriber volume
- Provides an opportunity to increase customer satisfaction as well as a new way to let end-users customize their service, enabling different user experiences on the same device

### Handset Vendor

- Creates brand differentiation and improves service value of handset devices
- Provides a ready solutions for handset vendors who do not develop own widget content, improving time-to-market
- Helps handset vendors to speed deployments while reducing content sourcing risks



### Service/Content Provider

- Provides an opportunity to expand the volume of value-added solutions or content that they can offer to customers
- Provides an opportunity to effectively use web programming skills and programmers
- Simplifies widget content development

### End-User

- Helps end-users to publish their own content while providing them wider access to a variety of widget content for their own use

## Specification | NetFront Widgets

### Modules

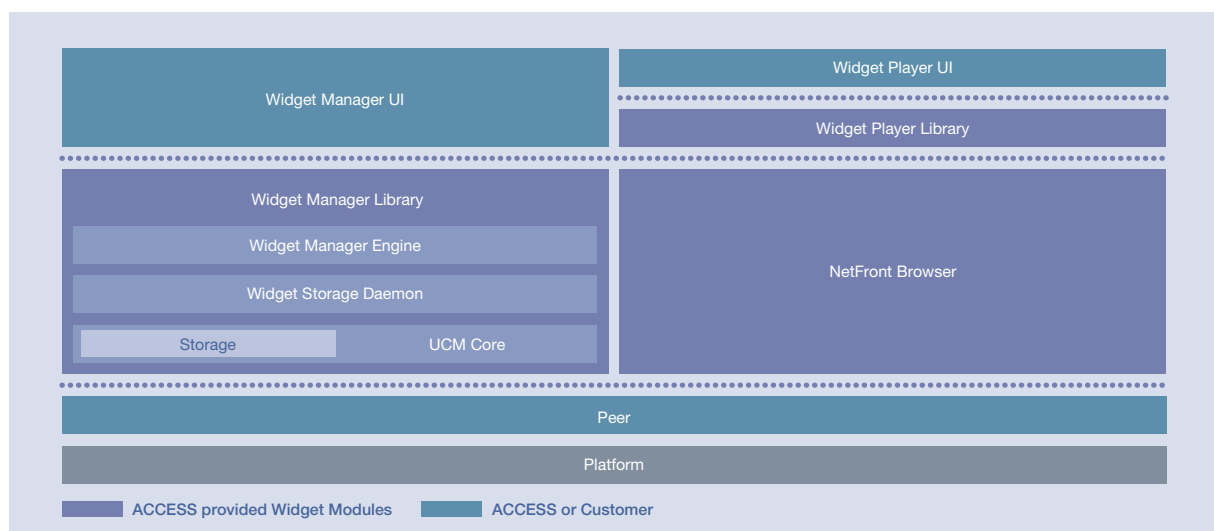
- Highly optimized, small footprint
- Portable to any operating system and hardware
- Widget Manager Library and APIs
- Widget Player Library and APIs
- Platform porting guides
- Sample widget content

### Widget Content Development Tools

- Widget content development guidelines
  - Notes and tutorials
  - Security guidelines
- PC-based authoring tool
- PC-based emulator
- Widget packaging tool

### Device Requirements

- ROM : Additional 1.2-1.5 MB
- RAM : 1MB and above (content dependent)



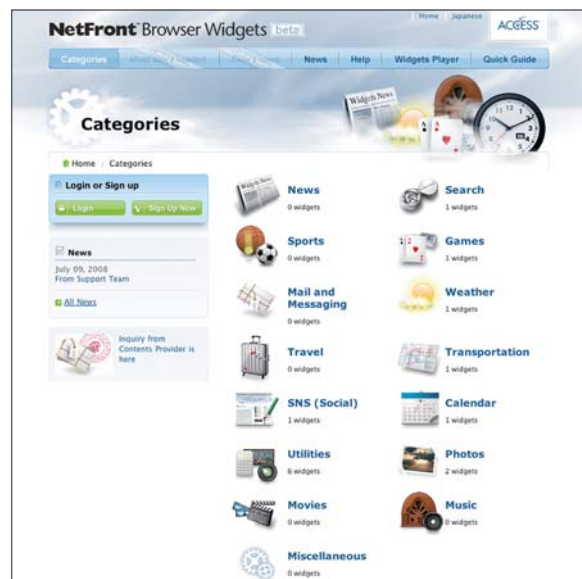
## NetFront Widgets Community Site

The NetFront Widgets Community Site is the central portal for all things related to NetFront Widgets, including the ability to download the latest release of the NetFront Browser Widget engine

Interested in giving NetFront Widgets a try, then visit the NetFront Widgets Community Site.

<http://www.access.co.jp/nfbwc/en/>

The community site has the latest information for NetFront Widgets, plus you can download a variety of widgets created by ACCESS and by community members. In addition, the community site contains documentation and useful tools for creating your own widgets. And you can upload your widget to the community site.



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