


# NetFront™ Mobile Client Suite

Comprehensive Mobile Client Suite



NetFront™ Mobile Client Suite is a comprehensive, flexible modular, and extensible solution that takes the evolving phoneware category to powerful new levels of efficiency and functionality.

NetFront Mobile Client Suite offers mobile device manufacturers and mobile operators an integrated solution that includes a customizable UI, Browser, Messaging Client, Java™, Sync Client, Document Viewer, IMS Client, Media Player and more.

NetFront Mobile Client Suite leverages ACCESS' extensive mobile technology experience, providing an optimized mobile solution that dramatically reduces development time and expense while speeding time-to-market.

### [ Browser ] NetFront Browser

NetFront™ Browser is the most advanced, versatile, and powerful browser available in the beyond-PC market today. NetFront Browser has achieved deployments throughout the world in millions of Internet devices including mobile phones, digital TVs, set-top boxes, mobile handhelds, game consoles, automobile telematics systems and many other types of Internet devices. NetFront Browser was designed from the ground up to deliver high performance in environments with limited hardware resources. NetFront Browser supports the OMA 2.3 browsing specification as well as the latest Internet standards delivering a rich, full-Internet mobile browsing experience.

#### NetFront Browser Specifications

##### Supported Standards

- Compliant with the OMA Browsing 2.3 specification\*

##### Markup

- cHTML, HTML 4.01, XHTML 1.1, XHTML Mobile Profile 1.2, WML 1.3, SVG-T-1.2, SMIL 2.1, RSS feed (RSS 0.9/0.91/0.92/1.0/2.0, Atom 0.3/1.0)

##### Stylesheets

- CSS1, CSS2.1, CSS3\* (partial), CSS MP1.1

##### Advanced Scripting

- ECMAScript 262 3rd Edition (also supported JavaScript™1.7\*)
- ECMAScript Mobile Profile



PagePilot



Bookmark



Visual Bookmarks

- WMLScript
- DOM Level 1, Level 2
- Dynamic HTML
- Ajax (XML HTTP Request)

##### Protocols

- HTTP 1.0/1.1
- WAP

- IPv4/IPv6 Dual TCP/IP Security
- SSL3/TLS1.0
- Crypto modules

\*New Functions from NetFront Browser v3.5

### [ Messaging Client ]

These 3 Clients are proven, comprehensive messaging clients designed for resource-limited devices. As a key component of the NetFront Mobile Client Suite total mobile client solution, These Clients enable manufacturers and mobile operators to enhance offered features while dramatically reducing development time and cost.



### NetFront E-mail Client

NetFront™ E-mail Client supports the most prevailing Mail Transfer Protocol, SMTP/POP3. It also supports security features such as, POP before SMTP, SMTP-AUTH for reliable, end-to-end transfer of messages.

### NetFront MMS Client

NetFront™ MMS Client offers Multimedia Messaging Service (MMS) capability and meets the OMA standard requirement.

### NetFront M-IMAP Client

NetFront™ M-IMAP Client is an optimized mobile messaging solution based on the IMAP4/SMTP (RFC 2060) Internet messaging protocol.

### [ Document Viewer ] NetFront Document Viewer

NetFront™ Document Viewer is an advanced software solution that enables full viewing of Microsoft Office documents including Word, Excel, and PowerPoint, on mobile handsets.



Word File at 25%



Excel File at 25%



PowerPoint File at 25%



PDF File at 50%

### Adobe Reader LE

Adobe® Reader® LE includes features specially developed for mobile handsets. Mobile end-users can seamlessly access a Web site, send e-mail and dial a phone number directly from within a PDF document. Adobe Reader LE supports multi-level zooming, text search, and page rotation for easy navigation on small screen devices.

### [ Java Solution ] JV-Lite 2 Wireless Edition (MIDP, MSA Subset, DoJa)

JV-Lite™ 2 is a Sun Microsystems authorized Java™ execution environment for embedded applications. JV-Lite 2 class libraries are optimized for systems with limited memory and CPU power and provide the best balance of performance, footprint, and portability. As a component of NetFront Mobile Client Suite, JV-Lite 2 includes JAM, a Java Application Manager that is fully integrated with NetFront Browser. JV-Lite 2 Wireless Edition conforms to Java ME, MSA Subset (JSR248) which includes CLDC 1.1, MIDP 2.0, JSR 75, JSR 82, JSR 120, JSR 135, JSR 172, JSR 177, JSR 179, JSR 180, JSR 184, JSR 226, JSR 229, JSR 234. It also supports DoJa, the Java profile used by NTT DoCoMo for their i-mode® service, and other operator extensions. OMA DRM is supported as part of the standard feature-set.



## New Components

## NetFront Mobile Client Suite

### NetFront IMS Client Package

NetFront™ IMS Client Package is a software library package that enables multimedia communication over IP on next-generation mobile phones. It provides SIP/Presence/PoC (Push-to-talk over Cellular)/IM (Instant Message) modules that are 3GPP and OMA (Open Mobile Alliance) standards compliant.



NetFront IMS Client (PoC)



NetFront IMS Client (Presence)

### NetFront Sync Client

NetFront™ Sync Client is a client library that complies with OMA SyncML DS v1.1.2, v1.2. SyncML DS for Data synchronization and SyncML DM are also supported. NetFront Sync Client supports various setups for device-side software from a server, as well as the installation of software patches or newer versions provided via PIM applications.

### NetFront Media Player

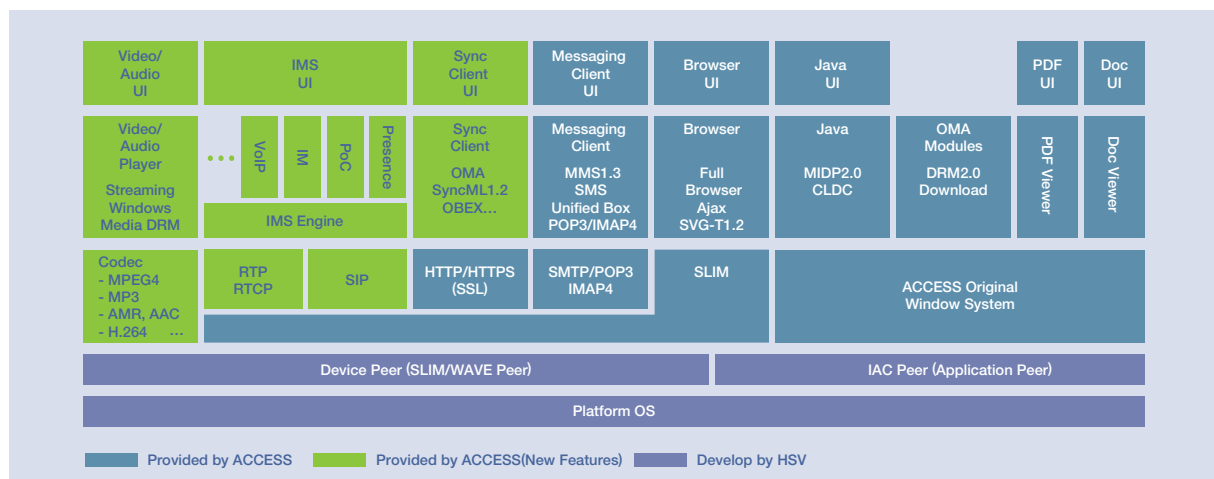
NetFront™ Media Player is a multi-function media player that supports 3GPP streaming, Windows Media Streaming, Windows Media DRM, and OMA DRM. A wide variety of software audio/video codecs can be integrated with NetFront Media Player including MPEG4, H264 and AAC.



NetFront Media Player

## Module Diagram

## NetFront Mobile Client Suite



## The Advantage

## NetFront Mobile Client Suite

- NetFront Mobile Client Suite (NMCS) is a proven solution that supports major mobile operator profiles and has been deployed by several device manufacturers
- NMCS dramatically enhances the delivery of advanced data services while reducing development time and cost
- NMCS components can share program resources such as communication and security libraries that allow you to reduce minimum ROM requirements. (The heap area can also be shared among suite components.)
- OS independent  
Can be used on various OS
- Specially designed for embedded environments and features excellent performance even in environments with limited memory and CPU power
- Multi-language support (English, Chinese, Japanese and more by changing resource file)
- Supports easy UI customization. Standard UI is kernel independent and does not affect the kernel
- Simple and easy porting is possible through Device Peer (SLIM/WAVE Peer) layer to any platform such as EMP, APOXI, LINUX®, BREW, Nucleus and others. Once Device Peer (SLIM/WAVE Peer) is ported on the target platform, all NMCS components can be run with flexible configurations according to customer preference



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