



# ***STATUS OF WAP***

***Wireless Application Protocol Forum Ltd.***

***WAP Australia  
Sydney  
May 15, 2001***

***Presented By  
Scott Goldman  
CEO, WAP Forum  
sgoldman@wapforum.org***

- 600+ member companies worldwide
- Manufacturers **of 99% of the world's handsets**
- Carriers **with 300+ million subscribers**
- **Internet and wireless** infrastructure makers
- Software - **billing, customer care, call management**
- Developers - **content, applications, portals**

# Current Successes

- Over 18 million **WAP users** (Cahners-In-Stat / Gartner Dataquest / Strategis, eTforecasts)
- Close to 200 carriers **deployed or in final testing** (Mobile Lifestreams)
- 50 million **WAP-enabled handsets shipped worldwide** (International Data Corp.)
- Tens of thousands of **developers creating apps and content** (WAP Forum)
- 12,000 **WAP sites** from 100+ countries (Cellmania.com)
- 7.8 million **WAP-readable pages** (Pinpoint Networks)

- **DHL Worldwide Express**
  - Web: 36,000 web hits in first year
  - WAP: 250,000 hits in first year
  - Web: 9 months to deploy
  - WAP: 6 DAYS to deploy
  - Web: \$350,000 in 1995
  - WAP: \$18,000 in 1999
- **Genie - UK Portal**
  - September 2000: 10 million hits
  - January 2001: 88 million hits

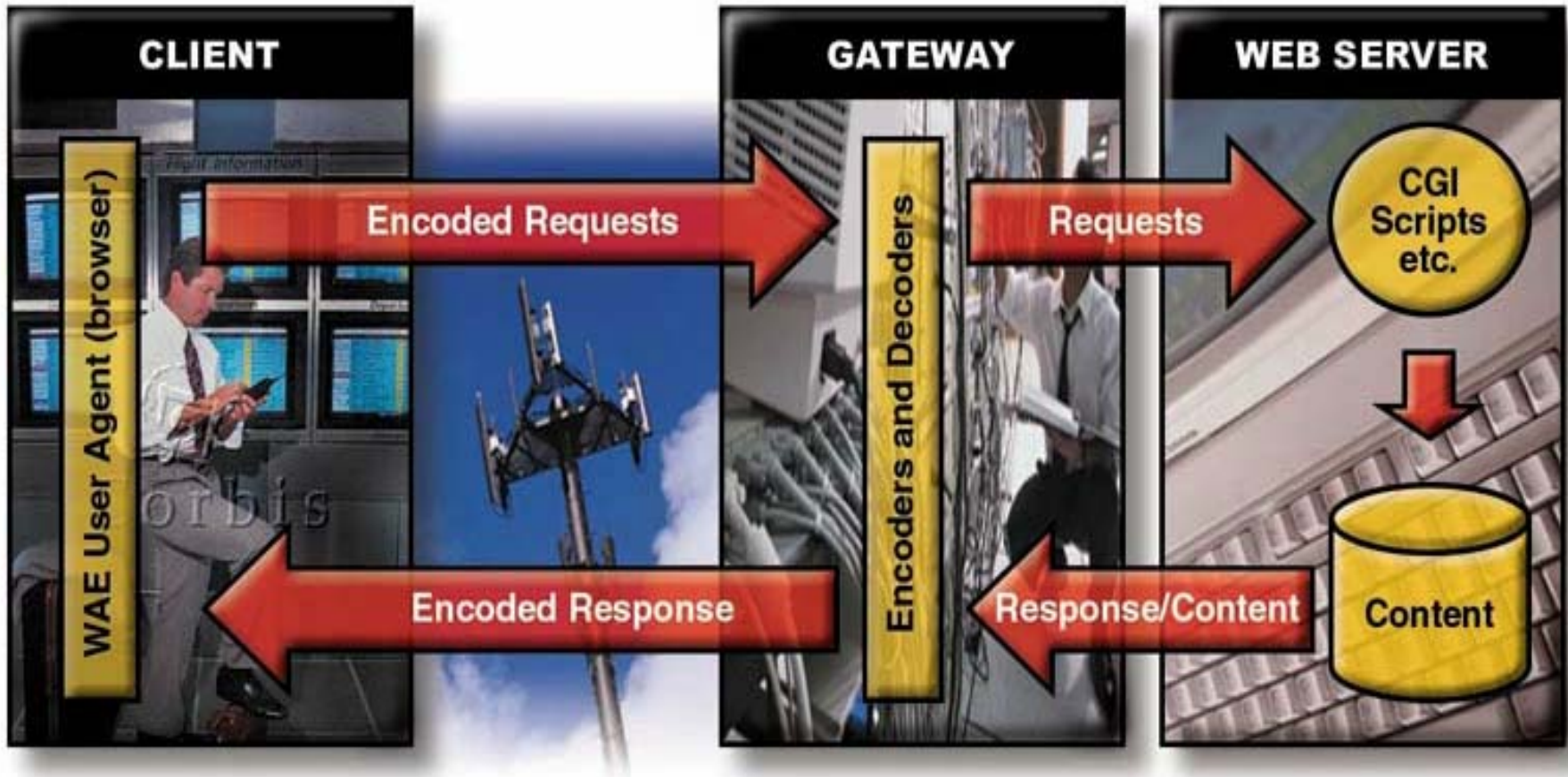
# Consumer Successes

- **Sprint** “wireless Web” users reached 1.3 M in 1Q01
- **Telesp Celular:** 323,000 out of 623,000 subscribers with WAP-enabled phone accessed WAP services (EYO2000)
- **Digital Bridges - 30 MILLION hits on WAP game site** from 1 Million games played in a six month period

# *The Survey FACTS*

- **Survey of 500+ users in Scandinavia:**
  - **61% of WAP users: satisfied** with their WAP experience (*Strand Consult*)
- **Survey of 250 users in UK (on all networks)**
  - **71% of WAP users: WAP is meeting or exceeding expectations** (*Teleconomy*)

# WAP Architecture



# WAP Roadmap 1999-2001

1999

2000

2001

## Network

2G Networks

2.5G Networks

3G Launches Start

## Device

Small scaled  
CPU, simple UI

Smart phones start to  
emerge, images, better UI

Media phones  
emerge

## WAP

Micro-browser:  
•WML, WMLScript, ...  
•Narrowband Protocols

### Security Enhancements:

- WIM
- Public Key infrastructure
- End-to-end Security

### Multimedia Enablement:

- Audio, video, graphics presentation formats
- Streaming protocols
- Synchronization framework

### Mobility Services:

- Messaging
- Location

### Enhanced Mobility Features:

- Push
- Protocol enhancements
- Markup enhancements

### Convergence w/ W3C, IETF

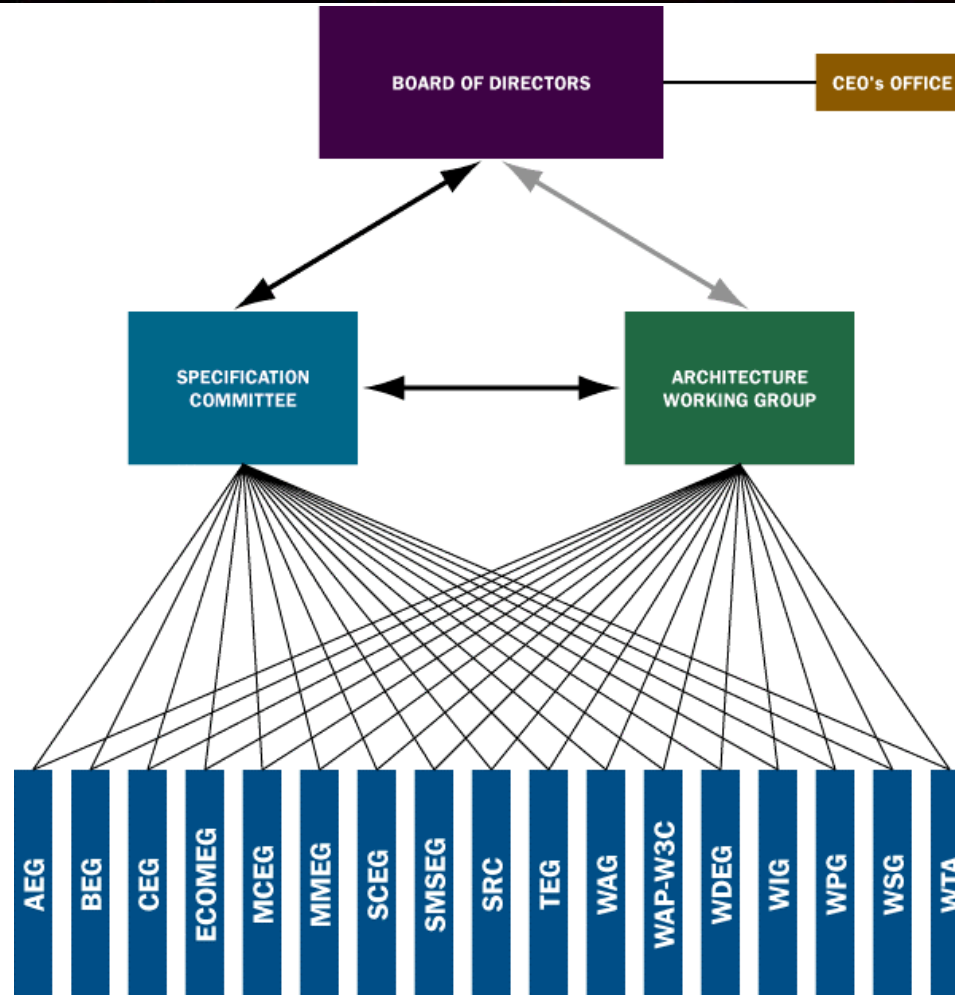
- Architecture
- Protocols and Security (TLS, HTTP, TCP)
- Base app infra (XHTML, ECMAScript, ...)

### Advanced App Interfaces

- Voice Browsing
- Multi-modal dialog models
- Styles and presentation enhancements

Interoperability

# How is WAP Developed?



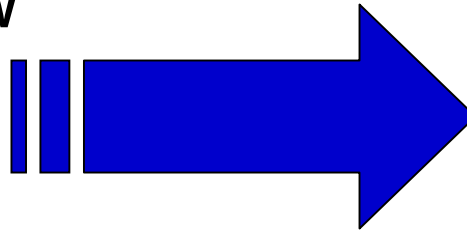
# *Where WAP is Going...*

## Driving

- Market Demand
- Interoperability
- Internet / WWW Evolution

## Enabling

- Handset evolution
- Standardization
- Wireless net evolution



## Doing

- Convergence
- Feature Innovation
- Conformance

# ***WAP 2.0 Launches July 31, 2001***

- **What the Developers See:**
  - **XHTML (fully backwards compatible)**
  - **TCP**
- **Supported User Features:**
  - **Color Graphics**
  - **Animation**
  - **Large File Downloading**
  - **Location-Smart Services**
  - **Pop-up/Context Sensitive Menus**
  - **Data Synchronization with Desktop PIM**

# Capitalizes On GPRS and 3G

## ■ WAP browsers are prerequisite, and optimized, for wireless':

- Unique ergonomics — One finger navigation
- Small screens — Any content must always be reformatted
- Location information — HTML not designed to handle this
- Telephony integration — Call a number that appears on-screen
- Transactions, not browsing
- Pushed info — It's not a buffet, it's room service
- Create a profile and let WAP do the work

**Standards and platforms will always be needed to deliver the CONTENT**

- **Security meets most extreme demands**
  - End-to-end encryption
  - Supports PKI (new in 2.0)
  - Secure proxies in handset AND gateway
  - Transactions are as secure as PC sites

- **Transactions demanding security already happening over WAP**
  - **Banking** (Citicorp, Deutsche, Allied Irish Bank, Schwab)
  - **Finance** (Abbey National and Halifax Bank mortgages online)
  - **M-Commerce** (Amazon.com, MySimon)
- **Basing their future mobile commerce plans on WAP:**



# ***Certification Process Insures Interoperability***

- **Interoperability starts with:**
  - **Clear specifications**
  - **Developer guidance and education**
  - **A reference pool of products**
- **Covers all components (compliance and interoperability)**
- **Objective and confidential certification launched in April 2000**
- **Logo use reflects certification**



# WAP Certified Products

- **30 Certified Devices:**
  - Alcatel One Touch 501 / 301
  - Ericsson R380 / R320
  - Motorola Timeport P7389
  - Nokia 7190 / 7110 / 6250 / 6210
  - Panasonic GD93
  - Philips Xenium 9@9 / Ozeo 8@8
  - Samsung SGH-N100/101
  - Siemens SL45
- **6 Certified Gateways:**
  - From CMG, Ericsson, Nokia, Openwave, WAPIT



# Portals And Directories

***Thousands of sites categorized,  
indexed and viewable through  
emulators***



# Consumer/Enterprise WAPplications

- **M-commerce** - shopping, ticket purchases, reservations, comparison shopping
- **Finance** - statements, funds transfer, shares trading
- **M-billing** - notification, presentation and payment of bills
- **Enterprise access** - inventory, shipment/sales updates, email access

- **M-care** - customer service, payment status, other backroom operations
- **Entertainment** - games, gambling, interactive multi-player events
- **Messaging** - communication and collaboration
- **Travel** - scheduling, advisories, reservations
- **Location-smart services** - traffic reports, parking information, store discounts, event recommendations

## ***In Summary, WAP...***

- **Is already successful today, built for tomorrow**
- **Has a huge, growing base of developers, content, phones and carriers**
- **Helps carriers optimize bandwidth**
- **Is highly secure**
- **Is based on Internet standards**
- **Rapidly developing advanced features**



***Wireless Application Protocol Forum Ltd.***

***Thank you!***