Datasheet

Mobile Monitoring & Testing

Mobile Web Perspective™

Monitor mobile websites on over 2,000 emulated smartphones and tablets with 12,000 device profiles to improve the end-user experience.

Keynote Mobile Web Perspective™ (MWP) lets you ensure a great end-user experience by providing an end-to-end solution for monitoring mobile websites on multiple devices, in multiple locations. Powered by a real WebKit browser, MWP supports advanced features enabled by HTML5. Receive instant alerts when website performance starts to degrade and quickly troubleshoot issues to reduce downtime.

Mobile Web Perspective™ Highlights:

Monitor response time and availability of mobile Web content on over 2,000 emulated devices and 12,000 device profiles.

Measure performance from 50 global locations and over 35 network operators.

Record scripts and provision measurements for self-service MWP monitoring.

Analyze results and receive instant alerts from a unified portal when website performance starts to degrade.

Troubleshoot and quickly fix issues by instantly testing on live networks using remote Keynote agents.

Conduct benchmarking across devices, locations, networks, and competing websites.

Keynote Mobile Web Perspective™ (MWP) is an end-to-end solution for monitoring and troubleshooting mobile websites on over 2,000 emulated devices and 12,000 device profiles. With MWP you can easily measure the performance of your mobile website from any location and on any mobile network worldwide. This global access helps you track issues quicker, troubleshoot them instantly, take corrective action sooner, and improve the overall quality of your mobile website by reducing downtime.

How It Works

Mobile Web Perspective monitors the performance of mobile websites by accurately emulating mobile devices – tablets, smartphones and feature phones. Each of the emulated devices downloads content on a real mobile WebKit browser by sending the same headers that a real mobile device sends. This enables MWP to download the same mobile Web content as a real device.

MWP scripts are recorded in Mobile Internet Testing Environment™ (MITE). MITE can record complex transactions that require conditional checks for success or that are enabled by the advanced features of HTML5. The scripts are deployed on the Keynote global test and measurement infrastructure, from where MWP monitoring can be performed. MWP monitoring can be performed from multiple locations, on multiple devices and over multiple network operators.

After MWP measurements are collected, the results can be analyzed in real time in MyKeynote, the Keynote portal. MyKeynote provides dashboards to view aggregate results, graphs to view drilldown results, and alarms to send instant alerts when website performance starts to degrade.

Technical Features:

WebKit browser allows accurate download and performance measurement of mobile websites.

HTML5 support enables monitoring advanced mobile websites built for tablets and smartphones.

Touch events allow monitoring complex transactions on gesture driven HTML5 mobile websites.

Geo-location API allows monitoring location specific content by simulating any location.

Local Storage allows MWP to download and save entire HTML5 websites that support offline browsing.

Mobile Web Perspective™ Features

WebKit Browser

MWP monitoring is done by downloading content in WebKit, a real mobile browser that powers iOS and Android devices. WebKit allows MWP to monitor advanced mobile websites that are built for tablets and smartphones. WebKit also enables MWP to monitor HTML5 mobile websites.

HTML5 Support

- Touch Events - MWP supports HTML5 touch events to monitor gesture driven mobile websites. MWP can monitor complex transactions by performing taps and swipes to navigate touch based HTML5 websites.

- Geo-location API – MWP can simulate any location by sending GPS coordinates in the browser. This enables MWP to monitor location specific content on HTML5 websites that support Geo-location API.
- Local Storage – MWP can download and store the entire HTML5 website that supports local storage. MWP can monitor such websites and ensure that there is no network activity so that users can browse the website even when there is no network connectivity.

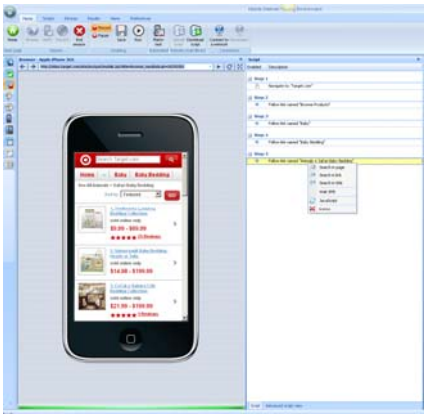
Extensive device database

Mobile Web Perspective™ measures the response time and availability of your website by emulating any mobile device from a list of over 2,000 emulated devices and 12,000 device profiles. The emulated device downloads the website to a WebKit browser, sending the same headers as a real device. In addition to sending the same headers, MWP also opens the same number of simultaneous HTTP connections as the selected device. The device database contains values for JavaScript object properties that are used during JavaScript execution. Based on this accurate emulation and download behavior, MWP can measure the response time of the entire Web page along with the response time for each individual object on a page.

Generic Device Properties	
Brand	Apple
Model	iPhone 3G
Software version	iPhone OS 3.1
Platforme versior	
Marketing name	
Release date	**06/09/2008**
Model version	3.1
Country	
Provider Name	AT&T
User Agent	Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_1 like Ma
Smartphone	True
Full Keyboard	Virtual only
Touchscreen	True
Picture Camera	True
Video Camera	False
GPS Enabled	True
SMS Enabled	True
MMS Enabled	True
J2ME Enabled	True
Screen	
Bearers	
Audio Supported	
Video Supported	
Streaming Enabled	
Streaming Enable	True
Browser	
Name	Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_1 like Ma
Landscape capat	Unknown
CSS Enabled	Unknown
DRM Enabled	Unknown
Multipart Enablec	Unknown
Flash Enabled	Unknown
Javascript Enable	Unknown
HTML4 Enabled	Unknown
HTML5 Enabled	Unknown
XHTML Enabled	True
IMODE Enabled	False
WML Enabled	False
Caching Images	Unknown
Caching Pages	Unknown
Caching Disabled	Unknown

Self-service scripting

MWP scripts can easily be recorded using Keynote's Mobile Internet Testing Environment (MITE). These scripts can involve navigating to the homepage of a webpage or performing a complex transaction such as making reservations on a travel website or purchasing an item on a commerce website. MWP scripts also record touch screen gestures such taps and swipes used to navigate on mobile website. MWP scripts can include advanced features such as validation steps to check for expected results during playback, completion events to detect end of page and XPath support for website navigation.



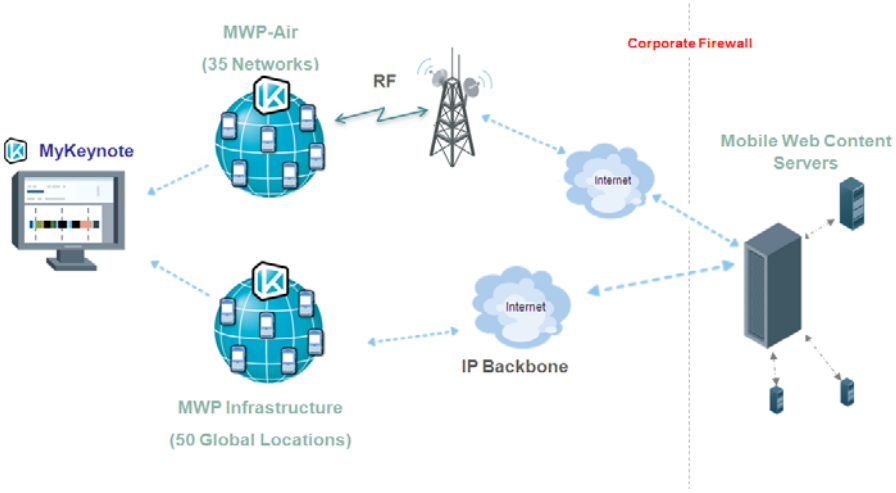
A single MWP script can be run on any mobile device. The same script can also be downloaded and run on MITE to troubleshoot performance issues on the website.

Global infrastructure and MWP monitoring

Keynote MWP allows you to monitor mobile websites by downloading them directly from the Internet backbone or over the air.

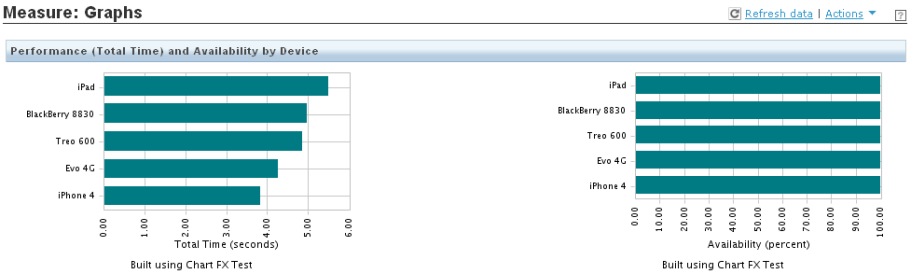
Mobile Web Perspective monitors the availability of the infrastructure, delivering a mobile website by downloading it directly over the Internet backbone. MWP bypasses the operator's network and provides accurate availability measurements without the impact of the operator network. MWP measurements can be taken from 50 global locations.

Mobile Web Perspective over Air™ (MWP over Air) monitors true end-user performance by downloading the mobile website over the mobile operator network. MWP over Air downloads the mobile website over the same path taken by a real device, thus reflecting actual end-user performance. MWP over Air measurements can be taken on over 35 different mobile operator networks.



Real-time results and alerts

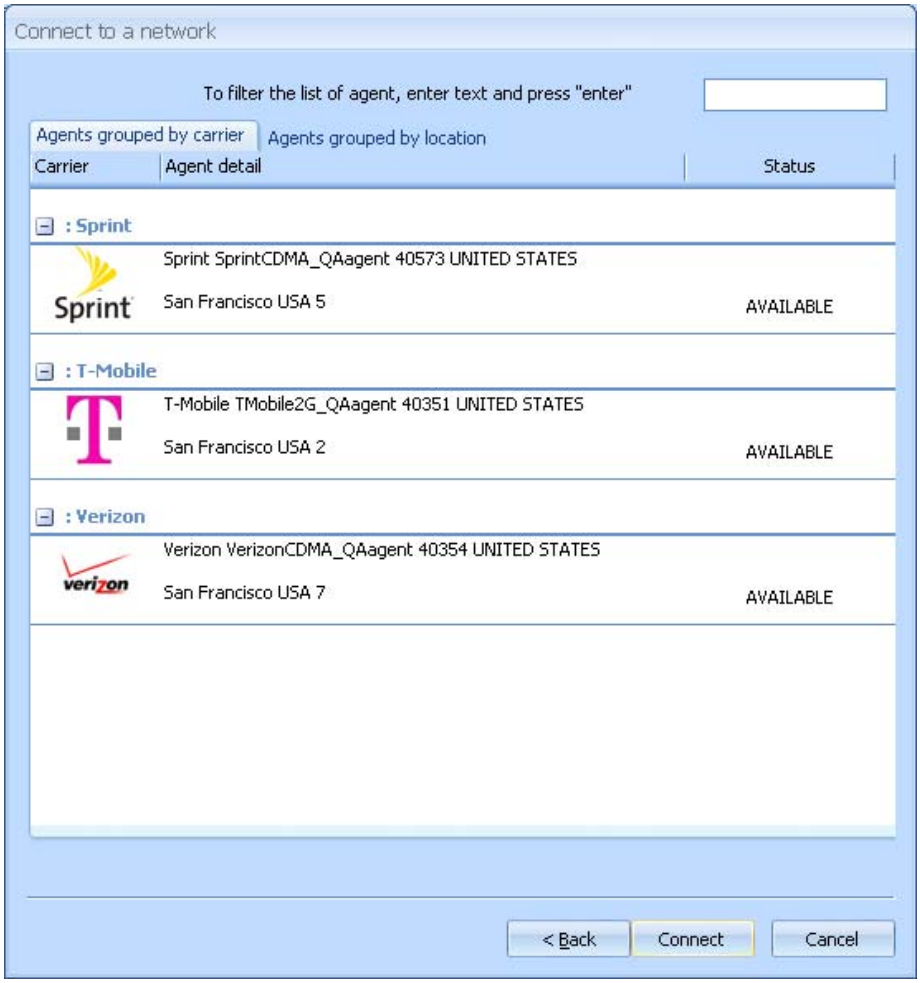
MWP measurements are viewed in the MyKeynote™ Web portal, providing a dashboard view of how all MWP measurements are performing. MyKeynote also provides different options, including device graphs that analyze website performance across different devices. The generated graphs offer drilldown capability into transaction performance and availability for up to an hour, or over a longer period of time, to facilitate trend analysis. MWP performance results can also be viewed as a waterfall graph that provides object-level details.



MyKeynote can be used to create alarms that trigger alerts when performance thresholds are exceeded. Alerts can be sent via e-mail, SMS, or SNMP when errors occur or defined thresholds are crossed.

Over-the-air troubleshooting

When MWP alerts come in, you can use MITE to troubleshoot them and get to the root cause of the issue that caused the alert. MITE can download the MWP script and run it either over the local Internet connection or over the air. MITE can also use remote Keynote agents that are connected to live operator networks. Using Keynote remote agents, troubleshooting can be performed in the same location and over the same network that reported the problem. This leads to rapid root-cause analysis and reduces downtime, thereby improving overall end-user experience.



About Keynote Perspective®

Keynote Perspective® provides on-demand performance monitoring for enterprise web and mobile sites including online portals, e-commerce sites and B2B sites. Over 2,000 customers rely on Keynote Perspective services to know precisely how their websites, content, and applications perform on actual browsers, networks, and mobile devices.

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