



Product Brief

# MCCI® Mobile Broadband Network Solution

## *Ubiquitous Mobile Broadband*

Mobile broadband technology, also called wireless wide area network (WWAN) technology, provides wireless high-speed Internet access for mobile devices, including mobile phones, mobile dongles, and data cards. With mobile broadband, end-users can connect to the Internet from any location where there is wireless broadband (WCDMA, EVDO, HSPA, LTE, WiMax) service.

## *Problems with Microsoft Windows Vista*

The lack of standard for mobile broadband drivers has made for an inconsistent user experience. With no standard programming interface, connection managers need to be re-written for each type of device. And with no standard mechanism for the device interface, some devices appear as network adaptors while others appear as modems.

## *The Windows 7 Solution*

In Windows 7, Microsoft defines the following Mobile Broadband standards and models:

- Network connectivity through packet switched Wireless WAN (3GPP/3GPP2) technologies
- A new logo program for Mobile Broadband devices
- A new API for application development
- A new driver model for Mobile Broadband devices

This new driver model

- Supports packet-switched data connectivity for Wireless WAN devices
- Is interconnect agnostic, meaning it works with USB, PCMCIA/PC Card, and other interconnect technologies
- Employs a new NDIS mechanism, NdisMediumWirelessWAN
- Is designed for slow response, AT-command based devices
- Is based on the NDIS6.20 miniport driver model

## *MCCI's Windows 7 MBN Driver*

The MCCI MBN driver is a complete USB-based, 3GPP/3GPP2 solution that supports all the basic MBN functionality, such as:

- Device management
- Radio state management
- Connectivity management
- Profile management
- Short Message Service (SMS)
- Personal Identification Number (PIN)
- Custom Activation
- Vendor specific operation

MCCI also supports the following optional functionality:

- Retargetable NDIS 6.2 Framework
- RMnet/QMI Support
- ECM, NCM, and ENCM Support
- PPP Support  
(for legacy platforms without network interface)
- Handover Driver Support  
(for products with multiple radios)
- Auto-install from Mass Storage
- Multi-Function Support
- InstallRight Pro

## *WHQL Logo Support*

If a laptop is sold by an OEM with an embedded broadband datacard, the laptop's Win7 system logo will be based on the logo certificate of the embedded module under the Windows 7 "mobile broadband" category, not the "unclassified" program that certifies cell phones. With the MCCI MBN driver in your product, WHQL certification is no show stopper.

## *MCCI Quality and Reliability*

MCCI technology has been delivered in over 600 million consumer products to date. Our customers place their USB needs for their high volume products confidently in the hands of MCCI. We have the world's largest USB software team, with a world-wide support presence that allows us to address customer support needs around the clock.

# Contents

- Ubiquitous Mobile Broadband
- Problems with Microsoft Windows Vista
- The Windows 7 Solution
- MCCI's Windows 7 MBN Drivers
- WHQL Logo Support
- MCCI Quality and Reliability
- MBN Driver Architecture
- MCCI Networked Solution for Mobile Broadband

High  
Throughput  
Network  
Functionality

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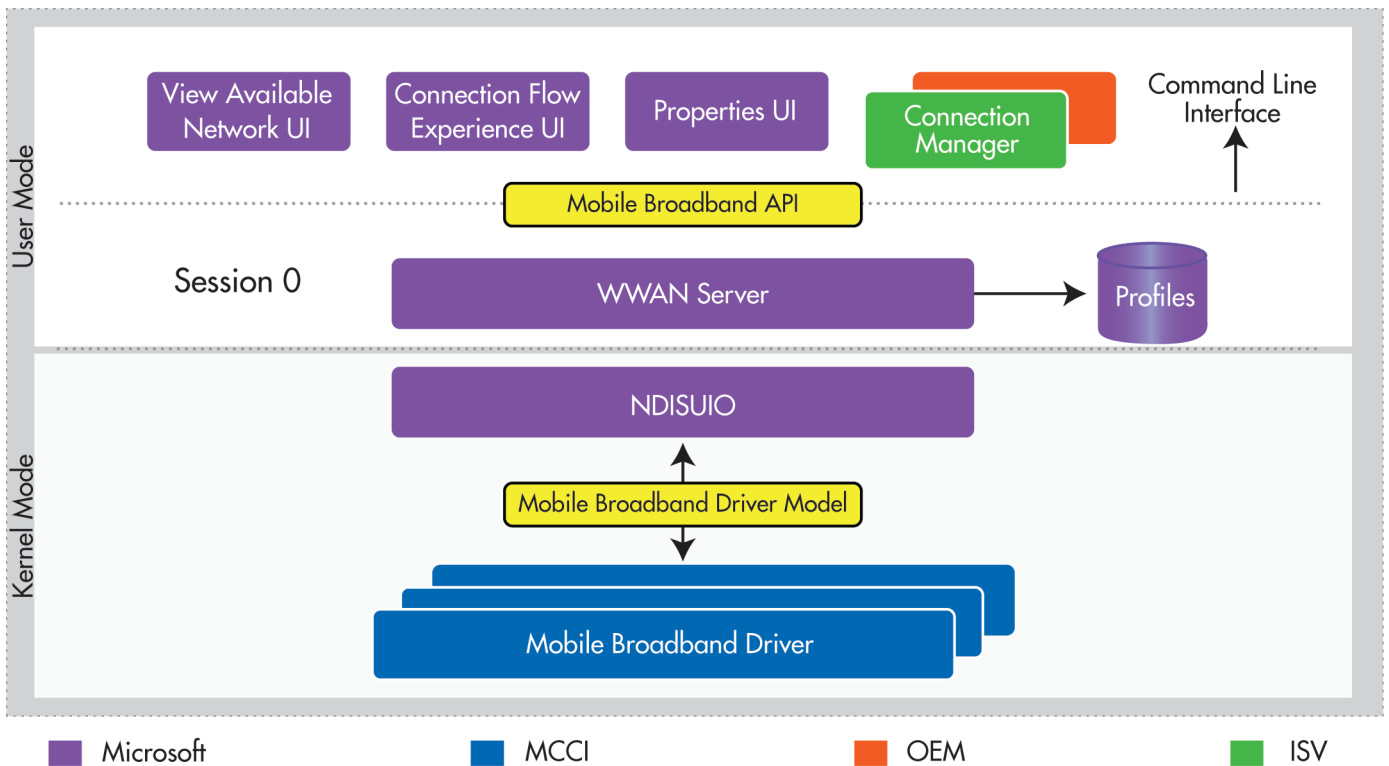
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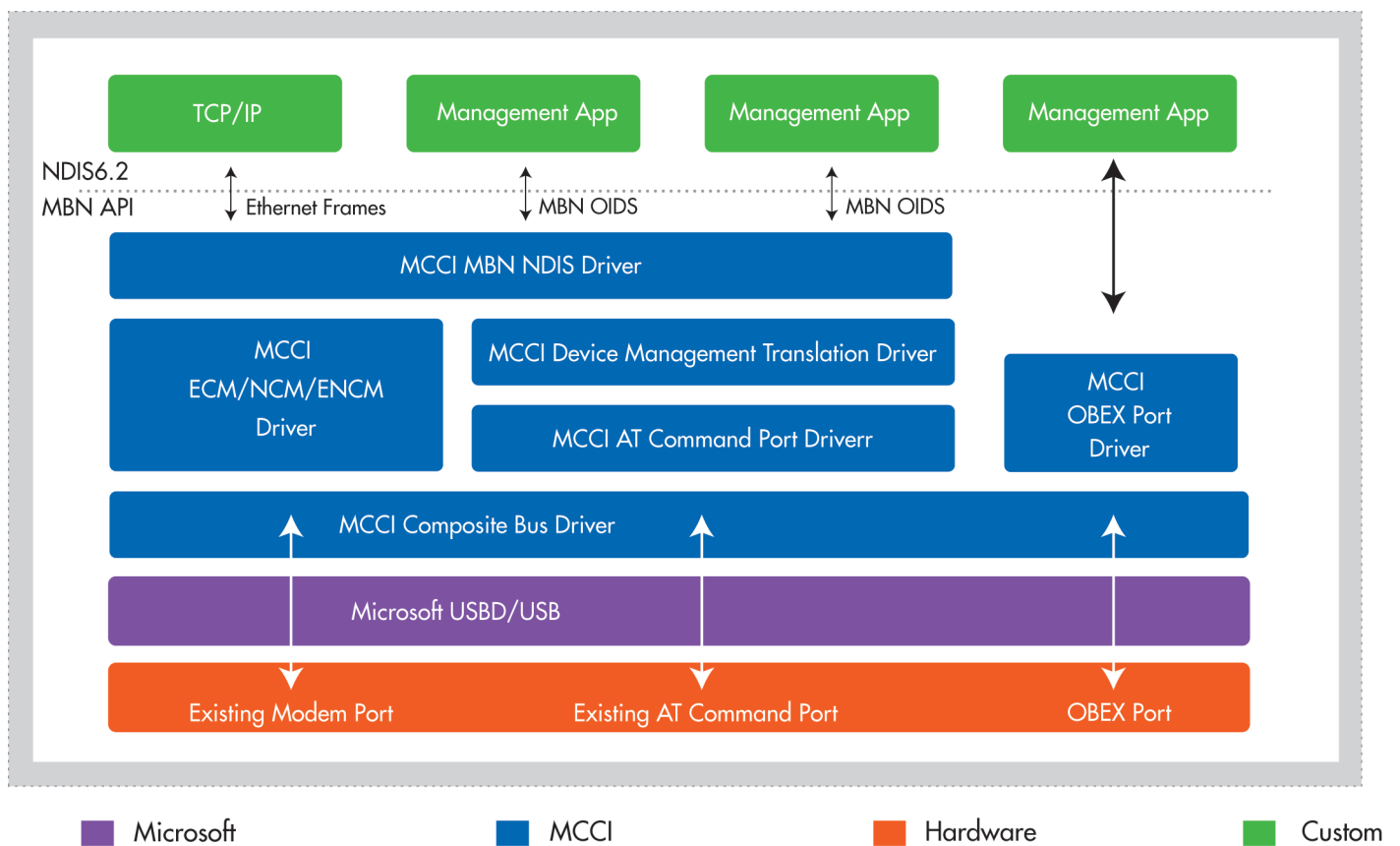
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## MBN Driver Architecture



## MCCI Networked Solution for Mobile Broadband



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