



OpenCon Systems, Inc.

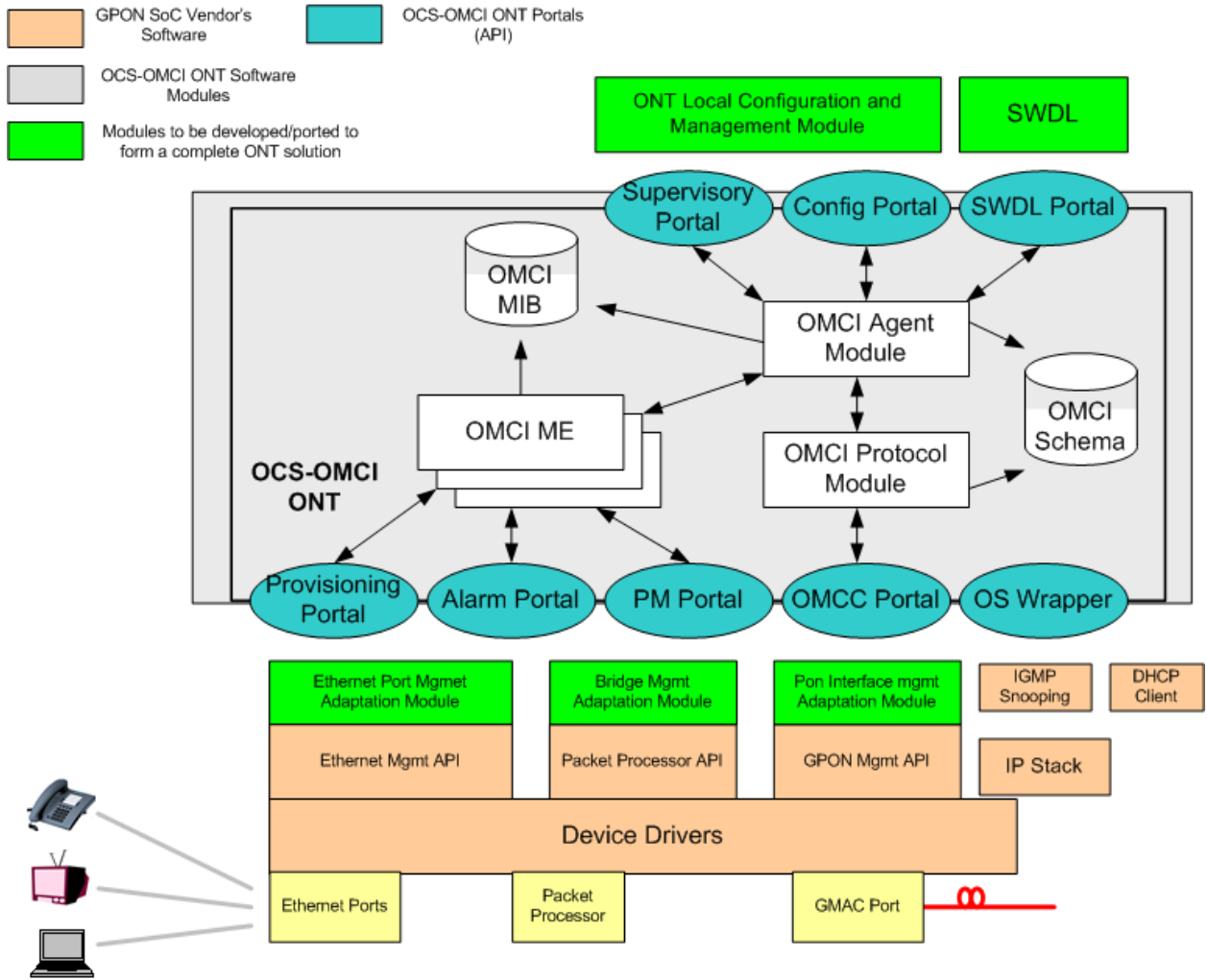
WORLDWIDE COMMUNICATION SOLUTIONS

OCS GPON ONT Solution

Bridging last mile gap in broadband access in a cost effective manner, has been a challenging problem for many years. ADSL and VDSL technologies have limited bandwidth and are not able to support full spectrum of streaming video applications. Of all the last mile technologies that are currently available, service providers seem to prefer FTTx (FTTH and FTTB) delivered through Gigabit-Capable Passive Optical Network (GPON) transport. GPON allows carriers to roll out a wide variety of revenue generating services without worrying about bandwidth limits of the underlying last mile transport.

ITU-T in conjunction with FSAN is trying to accelerate the GPON deployment via G98x standardization process and sponsor interoperability tests between various Central Office Optical Line Termination (OLT) and Customer Premises Equipment Optical Network Termination (ONT/ONU) equipment vendors. ITU-T G984.4 standard defines the ONT Management and Control Interface (OMCI) specification to facilitate OLT and ONT vendors to develop standards compliant interoperable equipment.

OCS GPON ONT solution is a software package that includes OMCI protocol module and all the necessary software components to enable the equipment vendors to quickly develop standards compliant ONT/ONU systems. OCS GPON ONT solution has been integrated with all the major GPON ONT SoCs and consists of ready-to-turn up software packages for various development boards from the SoC vendors. The following diagram illustrates the various software modules that are part of the OCS-GPON ONT software solution.



OCS GPON ONT Solution

Key Features

<p>Standards Compliance</p> <ul style="list-style-type: none"> • ITU-T G.984.4 (2008 version) • Broadband Forum TR-156 • FSAN OISG Implementer's Guide V2.0 	<p>Operating Environment</p> <ul style="list-style-type: none"> • Operating System support: Linux, and VxWorks • OS-Wrappers for portability to other operating systems • Text Messages: 500 to 5000 Messages/minute
<p>Services Supported</p> <ul style="list-style-type: none"> • Data Service • IPTV • VoIP • Circuit-Emulation, T1/E1 • Voice (POTS) 	<p>OMCI and MEs supported</p> <ul style="list-style-type: none"> • All OMCI protocol operations as defined in G984.4 • All MEs required for the services supported by the package • Alarm, PM and Threshold Crossing Alert support

<p>Portals</p> <ul style="list-style-type: none"> • OMCC portals to send/receive OMCI message • Provisioning Portals- Configure low level hardware resources • Alarm Portals • PM Portals – to collect PM data from hardware resources • Software Download Portal • Supervisory Portal – package configuration 	<p>SoC Vendors supported</p> <ul style="list-style-type: none"> • Broadlight • Cortina Systems • Freescale • Ikanos • Infineon • Transwitch
<p>Management and Off-line utilities</p> <ul style="list-style-type: none"> • Local Management API • Multiple log/trace levels • Debug shell interface • OMCI MIB Schema generator • OMCC Simulator using UDP 	<p>List of MEs supported</p> <ul style="list-style-type: none"> • (will be provided upon request)