Top Ten Things You Need To Know About AdvancedTCA

Robert Pettigrew, Emerson Network Power
rob.pettigrew@emerson.com

AdvancedTCA Top Ten

- **ATCA has crossed the chasm and is the #1 choice for telecommunications core network platforms**
  - **All Tier 1 NEP's have adopted and are deploying ATCA products**
  - **80% of Tier 2's and Tier 3 NEP's are implementing ATCA (source VDC)**
  - **No other open industry platform is nearly as successful**
- **40G ATCA is here!**
  - **40G chassis have been shipping for three years**
  - **40G switches are shipping now**
  - **Early access 40G Packet Processing blades have shipped**
- **40G ATCA enables a true converged common platform**
  - **data plane and control plane applications can both be deployed on a common platform**

AdvancedTCA Top Ten

- **ATCA has demonstrated advantages over so-called carrier grade bladed systems from IT vendors**
  - **Demonstrated 6NINES reliability**
  - **No vendor lock – truly open, interoperable platform**
  - **Long lifecycle products**
  - **Telecom I/O with AMC expansion**
  - **Only platform which can combine off the shelf blades with technologies including IA CPU's, NPU's and DSP's**
  - **Suitable for a broad class of applications, not just server based transaction oriented applications**

AdvancedTCA Top Ten

- **ATCA for packet processing / DPI**
  - **Cavium, Netlogic/Broadcom, Freescale and Intel technologies**
  - **Look for Intel Architecture blades with architectures optimized for packet processing – unavailable on IT server class platforms. The dream of true workflow consolidation is coming!**
  - **Common software strategies from companies like 6Wind and WindRiver**
  - **High bandwidth 40G fabrics and I/O**

- **ATCA for the cloud**
  - **High performance IA Server blades**
  - **Large memory capacity – 128GB and up on a single blade**
  - **Virtualization**
  - **Integrated application delivery controller / load balancing**
  - **Shared storage**
  - **Integrated L3 switching and routing**