

## An EMC Select Partner Overview

### ESSENTIALS

#### Partner products

- 4200
- 6500
- 5200

#### EMC products

- EMC SRDF®
- EMC Symmetrix® Family
- EMC VNX® Family
- EMC Ionix™ Family
- Data Domain
- EMC VPLEX Metro, VPLEX GEO

#### Solution highlights

- Reduces networking costs for storage replication
- Optimizes network performance for storage replication
- Enables dynamic management, allocation, and sharing of network bandwidth
- Ciena's dynamic networking with EMC VPLEX enables unique workload balancing between private and public cloud data centers

### HIGH-PERFORMANCE SOLUTIONS FOR DATA PROTECTION AND CLOUD NETWORKING

Ciena, a network specialist, collaborates with customers worldwide to unlock the strategic potential of their networks and fundamentally change the way they perform and compete. Ciena brings together the reliability and capacity of optical networking with the flexibility and economics of carrier-grade Ethernet to deliver the lowest total cost of ownership at the best performance. Ciena's networking solutions significantly reduce the network connectivity costs and complexity associated with data center interconnection. Ciena's detailed performance monitoring information enables end-to-end network management and integrates with EMC® Ionix™ for a unified network platform view that enables customers to:

- Implement successful remote data protection solutions with ease
- Optimize network connectivity and economically replicate more data across further distances without risk
- Easily scale tactical deployments to follow-on strategic networking to meet future data center and cloud applications

#### 4200

The 4200 is a flexible networking platform offering connectivity for both metro distances using optical fiber links and long distance wide area connectivity using IP/MPLS, Carrier Ethernet, and SONET/SDH. The 4200 efficiently aggregates inputs and transports SAN/LAN storage protocols over an ultra-low latency, high-capacity network between data centers. Use cases include remote disk replication, remote backup/recovery, and connectivity for EMC VPLEX™ Metro supporting workload mobility. Using the 4200 Dynamic Bandwidth Assignment and hardware compression enables customers to optimize leased network services, significantly reduce bandwidth requirements, and improve application performance. The 4200 can be configured in a range of platforms, including a two-slot appliance and five- and seventeen-slot systems.

#### 6500

The 6500 multiservice networking platform aggregates and transports, in native format, data center networking protocols across a single pair of fibers resulting in a cost-effective, ultra-low latency, high-capacity solution for the extension of SANs, remote disk mirroring/backup, connectivity for VPLEX Metro links, and lossless 10 GbE connectivity to support FCoE applications across metro and wide area networks. The ActivFlex 6500 platform supports multiple networking layers and is a leader in supporting adaptive and scalable optical packet-based infrastructures. The 6500 also provides significant value when highly scalable solutions are required.



## 5200

The 5200 platform aggregates data center networking protocols for transport across a single network solution. Using a single pair of optical fibers and WDM technology to connect data centers within a metro area, the 5200 supports protocols in their native format resulting in an ultra-low latency, high-capacity solution for the extension of SANs, remote disk mirroring, remote backup, and connectivity for VPLEX Metro links. The 5200 platform excels in the optical networking industry with integrated encryption solutions and buffered Fibre Channel transport. The 5200 is a Ciena recommended solution for mainframe GDPS applications.

## TRANSFORM YOUR NETWORK

Let Ciena help address prohibitive network costs, provide visibility into application performance, and transform the network with scalability and security. Ciena enables network optimization and more:

- Hardware data compression ensures maximum compression with full throughput performance
- Unique Dynamic Bandwidth Allocation (DBA) enables guaranteed bandwidth for ensured quality of service to each application, while dynamically combining multiple applications over the network link to reduce network costs
- Rapid fault isolation and reporting allows enterprises to minimize downtime and validate service-level agreements
- FlexiPort technology provides flexible, reconfigurable network connectivity delivered quickly to order, via a programmable service platform on a customer's premises

Transformation of the network means you will be able to easily scale and adapt to new requirements using the same platform deployed on day one.

- Layer-0/1/2 technology ensures network secure paths for mission-critical data
- Modular carrier-class architecture provides flexibility with reliability

## ABOUT CIENA

Ciena specializes in practical network transition, offering leading network infrastructure solutions, intelligent software, and a comprehensive services practice to help customers use their networks to fundamentally change the way they compete. With a global presence, Ciena leverages its heritage of practical innovation to deliver maximum performance and economic value in communications networks worldwide. For more information, visit [www.ciena.com](http://www.ciena.com).

## ABOUT EMC

EMC Corporation is the world's leading developer and provider of information infrastructure technology and solutions that enable organizations of all sizes to transform the way they compete and create value from their information. Learn more about EMC's products and services at [www.EMC.com](http://www.EMC.com).

### CONTACT US

For more information on how EMC and Ciena products work together to optimize your business transactions, contact your EMC or Ciena representative or visit the websites at [www.EMC.com](http://www.EMC.com) or [www.ciena.com](http://www.ciena.com).

EMC<sup>2</sup>, EMC, Ionix, MirrorView, SAN Copy, SRDF, VPLEX, and the EMC logo are registered trademarks or trademarks of EMC Corporation in the United States and other countries. All other trademarks used herein are the property of their respective owners. © Copyright 2010, 2012 EMC Corporation. All rights reserved. Published in the USA. 03/12 Solution Overview H7146.2