

EMC Celerra Gateway QuickStart - CTL-EMC-BAS-NSGW

This Avnet Technology Solutions *Service Brief* details the *EMC Celerra® Gateway Quickstart*. The service focuses on installing, configuring, and integrating the Celerra NAS Gateway into an existing Storage Area Network (SAN) with available CLARiiON® storage. Avnet concentrates on designing and delivering a highly available NAS solution, using:

- A Celerra NS500GS/NS500G, NS600GS/NS600G, NS700GS/NS700GS, NS704G, NS40GS/NS40G, or NS80GS/NS80G.
- EMC NAS control software.

Project Scope

Experienced Avnet Professional Services personnel work with customer staff and perform this engagement. This planning and implementation service is limited to new installations only. It is delivered to a single location for ten consecutive standard business days, and includes the following configuration:

- One Celerra NAS Gateway (direct or fabric connected).

Note: A fabric implementation will use the NAS auto-config process to configure zoning.

- NAS storage configuration of:
 - One required 4+1 RAID5 RAID Group for the six NAS control LUNs

Note: Requires five independent disks dedicated to NAS use only.

- A maximum of six user LUNs (these may be configured in an additional RAID group configured as 4 + 1 or 8 + 1 RAID 5).
- NAS design based on the *Configuration Guide*.

- Maximum configuration of up to six Ethernet Network interfaces for the primary Data Mover, and one network interface per Control Station.

Note: A maximum of six additional physical Ethernet interfaces may be necessary for the standby Data Mover. The customer must provide the Ethernet cables.

- Configure up to six file systems using the Celerra Manager.
- Implement internal Usermapper (when configuring CIFS).
- Configure up to six NFS exports using the Celerra Manager, or six CIFS shares using Windows 2000/2003 or NT 4.0 Tools.
- Integrate into one Authentication protocol (NIS, AD, or NTLM [NT 4.0]).
- Configure one file access protocol (NFS or CIFS). Implement up to six Celerra CIFS servers validated within a single Windows Domain (Windows 2000/2003 or NT 4.0), if necessary.

Note: All servers must be newly created servers; we do not migrate data from existing servers.

- Configure the Name Resolution Protocol for the Data Mover and Control Station (DNS and/or WINS, as required).
- Configure the SnapSure™ checkpoints and Celerra Manager-base scheduling for a maximum of six file systems (if licensed).
- Enable Quotas for up to six file systems or six directory trees (NFS only).

Note: CIFS quotas are to be handled by the customer through the standard Microsoft Windows-based tools.

- Implement single backup solution (manual or network). The backup solution provides basic functionality for the backup and restore capabilities for one host on each platform in the storage infrastructure. The backup solution also encompasses the NAS backup and restore testing. The customer is responsible for administrating all host activities within their infrastructure. The customer must provide tape units or TLU, cabling, and licensed software, as the solution requires.
- Implement file system full notification.
- Install the customer-provided network cabling.
- Implement default HA configuration for Primary and Standby Data Movers (for NS500G/NS600G/NS700G/NS704G/NS40G/NS80G only; does not apply to NS500GS/NS600GS/NS700GS/NS40GS//NS80GS gateway models).
- Completed *Project Completion Form*.
- Basic implementation functional overview.

Note: The Functional Overview relates to the customer's NAS storage environment and is not a substitute for the formal EMC product customer Education courses available. Avnet strongly encourages attendance at EMC Customer Education classes to gain further insight into the product architecture and its integration.

Deliverables

The following EMC *Celerra Gateway QuickStart* deliverables are provided:

- *Configuration Guide* documenting the implementation.
- *Project Completion Form*.
- Product *Functional Overview* session.
- An operational Celerra NS500GS/NS500G, NS600GS, NS600G, NS700GS/NS700G, NS704G, NS40GS/NS40G, or NS80GS/NS80G NAS platform implemented within an existing CLARiiON storage environment.

Avnet Staffing

Avnet provides experienced Professional Services personnel to perform the tasks listed above.

Customer Responsibilities

- Provide at least one technical contact with system administration responsibilities and appropriate system/information access privileges to perform this service.
- Make appropriate system maintenance window(s) available for Avnet (or authorized agents) as needed to prepare equipment.
- Ensure all environment and operational requirements are met prior to implementation.
- Provide access to the customer's systems and networks as necessary to perform the services during normal business hours, or at mutually agreed timeframes.
- Provide support from technical support teams for all vendors and third parties as necessary.
- Assume all responsibility for network connectivity, performance, and configuration issues.
- Verify the equipment location (work site) is prepared to perform the engagement services.
- Provide basic configuration information for network and authentication requirements.
- Provide installed and tested power, network, and telephone connections.

Engagement Duration

- The anticipated engagement start date is within two (2) weeks or an agreed upon start date after receipt and approval by Avnet of the customer's purchase order for this engagement.
- Avnet expects to complete this engagement within 5 days after the actual start date (based on performance on consecutive days during Avnet's normal business hours). Unless otherwise specified or agreed by Avnet, service is performed on consecutive days.

Engagement Scope Exclusions/Changes

Any additions or changes to Engagement Scope must be stated in a separate Avnet *Statement of Work* detailing the changes, and the impact on pricing, and timeframes. Such changes include, but are not limited to:

- Any additional hardware configuration not listed in this document.
- Licenses for any additional required software.
- Modification of the customer's application software.
- Development of custom solutions including scripting.
- Multiple, Basic Installation Services requiring Project Management services.
- CAVA installation.
- Installation of any advanced networking features (FSN, trunking, LCAP).
- Application integration.

Fixed Bid Engagement Fee and Invoicing Schedule

- The engagement is delivered on consecutive days during normal business hours (9:00AM–5:30PM local time, M–F, excluding local holidays).
- Invoices are issued upon Avnet's receipt and approval of the customer's purchase order.
- Customer authorizes Avnet to invoice for and shall pay additional amounts related to performance outside normal business hours or consecutive days, and reimbursement of travel-related expenses.