



Service Description: OpS Essentials

DXi9000 Series Remote Assessment

Model #: SDY90-SDCE-R100

This document describes the fixed price Quantum OpS Essentials one remote assessment service for One DXi9000 Series Backup Appliance.

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General Information

- This service review is described below and consists of an assessment of the Quantum DXi9000 Series Backup Appliance.
- Services described will be provided during normal business hours from 8:00AM to 5:00PM, Monday to Friday (excluding Quantum holidays). These services are provided remotely and require remote access to your DXi9000 Series Backup Appliance.
- Services are scheduled with a minimum of a 14-day lead-time. Shorter lead-times may be accommodated subject to resource availability.
- This service is to provide an efficient and comprehensive review of your DXi9000 Series Backup Appliance.

Scope of Service

Assessment service will require several business days to complete. This will include detailed analysis of DXi Backup Appliance, disk arrays, and system logs. Within 7-10 business days after completion of assessment, Quantum will deliver a formal report outlining the results, findings, and any recommended actions. Quantum will be available to consult with your representative to discuss any questions.

Customer's Responsibilities

- You will provide remote access to Quantum equipment covered by this service.
- You will provide access to the necessary logs requested by Quantum to remotely execute the work required.
- You will provide required support in deploying proactive fixes/recommendations.

Quantum Responsibilities

- Quantum will provide the appropriate technical resource to complete the Ops Essentials review.
- Quantum will adhere to customer's operational and security parameters.
- Quantum will perform the proactive assessment based on the table below, on the agreed time schedule.
- Quantum will be available for consultation to discuss any of the findings or recommendations.

Services to Be Provided by Quantum

OpS Essential DXi9000 Series Backup Appliance

1	Initial call with you to review the activity and schedule the work. This call will include: discussion on how to access the DXi backup appliance and logs required; the timeline for completion and tentative schedule for the final report; and review of any findings and recommendations. Keys areas of the assessment listed in sections 2-7, below.
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2 Configuration Assessment

- Remote connection to the system to review system configuration via the WebGUI.
- Retrieve system logs and support data to gather details on the system configuration and its integration within the customers ecosystem.
- Document and review the current SAN/LAN integration.
- Document and review the current Backup Application and other Software interacting with the system.

3 Software Assessment

- Check current software configurations and workloads and review firmware (FW) levels;
- If new FW required, work with you to schedule upgrade if appropriate.

4 Capacity Optimization

- Discuss and review your systems' backup performance to determine potential optimization opportunities. Frequency of backups and timeline targets required for backups.

5 Hardware Assessment

- Verify logs for any potential silent/impending hardware issues including SMART disks data.

6 Performance Evaluation

- Retrieve specific performance support data for analysis.
- Check all key performance indicators related to the DXi load:
 - Data Ingest and backup window.
 - Replication Queue.
 - Space Reclamation.
 - Blockpool health and status.
 - Data Integrity.

7 Reporting and Consultation

- Provide all findings and recommendations from this analysis to you in a formal report and
- Consult with you on action plans, as necessary.