



THE SCHOOL BOARD OF MIAMI-DADE COUNTY, FLORIDA
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BID/RFP ADDENDUM

Date: 03/10/2023

Addendum No. 2

BID/RFP No. RFP-22-007-TA BID/RFP TITLE: Cloud Disaster Recovery

This addendum modifies the conditions of the above-referenced BID/RFP as follows:

The attached documents provide answers to questions received pertaining to this RFP.

The deadline has been extended to Tuesday, March 28, 2023 at 1pm EST.

All other terms and conditions of the RFP will remain the same.

All information, specifications terms, and conditions for the above-referenced BID/RFP, are included on the document posted on the Procurement Management website at <http://procurement.dadeschools.net>

The attached pages containing clarifications, additional information and requirements constitute an integral part of the referenced bid. If your bid/proposal has not been submitted, substitute the pages marked REVISED and mail your entire bid/proposal package.

I acknowledge receipt of Addendum Number 2

PLEASE NOTE: If your firm has forwarded a copy of this bid/proposal to another vendor, it is your responsibility to forward him/her a copy of this addendum.

(PLEASE TYPE OR PRINT BELOW)

LEGAL NAME OF BIDDER: _____

MAILING ADDRESS: _____

CITY, STATE ZIP CODE: _____

TELEPHONE NUMBER: _____ E-MAIL _____ FAX# _____

BY: SIGNATURE (Manual): _____
 OF AUTHORIZED REPRESENTATIVE

NAME (Typed): _____ TITLE: _____
 OF AUTHORIZED REPRESENTATIVE



Request for Proposal RFP-22-007-TA

Cloud Disaster Recovery

Addendum NO. 1

QUESTIONS AND ANSWERS:

Q1: Can you share the DC location (City, County?)

A1: Miami, Florida

Q2: There is distance requirements between DC and CDR?

A2: No.

Q3: Expectation for CDR infrastructure (VM's, OS) management (Self-service or managed?)

A3: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q4: In case the expectation is full managed services, how will be the governance about the management for the VM's(OS)?

A4: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q5: Workloads in physical boxes (if exists) can be migrated to the cloud?

A5: There are no physical servers in the scope for this solicitation.

Q6: Assumption is the apps are they fully managed by MDCPS team?

A6: Yes.

Q7: Does this require special block requirements?

A7: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q8: Are physical servers that need to be virtualized? (X86, Power, other?).

A8: No.

Q9: How many and provide the configuration and OS.

A9: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q10: Encryption

Q10a: Size of Tiers/QoS

A10a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q10b: SAN (disks used? SSD, SAS, NL-SAS); (protocols used FC, iSCSI?).

A10b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q10c: NAS (disks SSD, SAS, NL-SAS NFS, CIFS)

A10c: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q10d: ObjectStorage SSD, SAS, NL-SAS, S3, BLOB, Gcloud storage

A10d: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q10e: Retentions in place?

A10e: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q11: Network

Q11a: Bandwidth installed/used

A11a: Details to be determined in the Discovery phase of the project.

Q11b: Peak consumption, average consumption?

A11b: Details to be determined in the Discovery phase of the project.

Q11c: Connectivity (BW) to hyperscalers if exist

A11c: Details to be determined in the Discovery phase of the project.

Q11d: Connectivity (BW) to CDR if exist

A11d: Details to be determined in the Discovery phase of the project.

Q11e: For the CDR is required to keep same IP addressing used in the production data center?

A11e: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q11f: In case is required to use the same IP's, are the IP's portable to a different ISP provider?

A11f: Public IP's are owned by the District.

Q11g: Are the applications IP independent (able to work using names instead IP's)?

A11g: Yes, the applications are IP independent.

Q11h: Is the licensing for the apps tied to a specific HW or IP?

A11h: No.

Q12: Security

Q12a: Technologies used (Cisco, Palo Alto, Fortinet, Checkpoint, Juniper, other)

A12a: Details to be determined in the Discovery phase of the project.

Q12b: Type implemented?

A12b: Details to be determined in the Discovery phase of the project.

Q12c: Security packet filtering firewall

A12c: Details to be determined in the Discovery phase of the project.

Q12d: Circuit-level gateway

A12d: Details to be determined in the Discovery phase of the project.

Q12e: Application-level gateway

A12e: Details to be determined in the Discovery phase of the project.

Q12f: Stateful inspection firewall

A12f: Details to be determined in the Discovery phase of the project.

Q12g: Next-generation firewall (NGFW)

A12g: Details to be determined in the Discovery phase of the project.

Q12h: Equipment brand, model, configuration, IPS, IDS modules?

A12h: Details to be determined in the Discovery phase of the project.

Q12i: VPN's?

A12i: Details to be determined in the Discovery phase of the project.

Q12j: Type?

A12j: Details to be determined in the Discovery phase of the project.

Q13: Backups

Q13a: Software used and version

A13a: All systems are currently backed up to tape, but this will not be part of the project scope.

Q13b: Using agents, agentless

A13b: All systems are currently backed up to tape, but this will not be part of the project scope.

Q13c: By server policies?

A13c: All systems are currently backed up to tape, but this will not be part of the project scope.

Q13d: By app policies?

A13d: All systems are currently backed up to tape, but this will not be part of the project scope.

Q13e: Policies used

A13a: All systems are currently backed up to tape, but this will not be part of the project scope.

Q14: Monitoring

Q14a: Name, brand and version current monitoring tool in production protocols used, API?

A14a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q14b: Items monitored (SNMP , instances, resources by VM, apps resources, workflows)

A14b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q15: Automation

Q15a: Golden Images? (type and number)

A15a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q15b: Templates (number)

A15b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q15c: Scripts (type and number)

A15c: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16: DR

Q16a: Current bandwidth between main DC and DR

A16a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16b: RTO - Level 1 - Critical Apps

A16b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16c: RTO - Level 2 - Essential Apps

A16c: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16d: RTO - Level 3 - No essential Apps

A16d: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16e: RPO - Level 1 - Critical Apps

A16e: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16f: RPO - Level 2 - Essential Apps

A16f: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16g: RPO - Level 3 - No essential Apps

A16g: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q16h: Describe recovery and business continuity strategy. Architectures and elements involved.

A16h: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q17: Questions related to the document:

Q17a: There are requirements to provide pricing for specific environments (SAP, We based apps, migration of all active directories, district presence).

A17a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q17b: Can you provide inventory of all the resources associated to each item?.

A17b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q17c: Three (3) client reference letters from organizations comparable in complexity and/or size to M-DCPS.

A17c: This is not a question. Please refer to Section 5 of the RFP for Minimum Qualification Requirements.

Q17d: Preferably. At least one reference must be from the education industry.

A17d: This is not a question. Please refer to Section 5 of the RFP for Minimum Qualification Requirements.

Q17e: Provide a list of K12 districts where the system is being used.

A17e: This is not a question. Please refer to Section 4 of the RFP for Scope of Services.

Q17f: Is possible to provide references for international educational institutions instead K-12 districts?

A17f: Yes

Q17g: How many and provide the configuration and OS.

A17g: Question is not understood.

Q18: Are physical servers that can't be virtualized and need to be replicated and be in the DR? (X86, Power, other?).

A18: No.

Q19: How many and provide the configuration and OS.

A19: Please refer to response to Q18.

Q20: Hypervisor used for the virtualized platform (VMWARE, Hyper-V, CITRIX, KVM, RHV-M, Other), version and patch level.

A20: VMWare, further detail to be determined during discovery.

Q21: Describe the biggest VM (RAM, vCPU and OS)?

A21: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q22: Describe the smallest VM (RAM, vCPU and OS)?

A22: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q23: Can you provide the VM's sizes combinations (CPU, RAM)? and the number of VM's using each combination?

A23: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q24: Do you have workloads in Cloud Hyperscaler (AWS, Azure, GCP, Other)

A24: Not in scope for this project.

Q25: number of VPC's, vNET's

A25: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q26: Number of OU's

A26: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q27: Do you have Containers, Kubernetes, serverless; provide the number and type.

A27: No.

Q28: Microservices? Number and type.

A28: No.

Q29: Provide the OS and the version (including patch levels) for the servers in production considered in this scope

A29: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q30: Windows (versions), Linux (Ubuntu, RH, debian, suse, other), other, number os servers/VM's by OS

A30: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q31: All OS are current? Supported?

A31: All OS's in the DR plan will be supported.

Q32: Databases (type, brand, version, are replicated/clustered, replication method)

A32: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q33: where are the databases running (infrastructure)?

A33: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q34: Resources sizes assigned to instances/schemas.

A34: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q35: Clusters? Technologies and requirements

A35: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q36: Inventory if possible (To provide accurate pricing)

A36: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q37: Is VDI currently implemented in MDCPS? Which VDI solution is being used?

A37: No.

Q38: Number of virtual desktop required and the configuration associated.

A38: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q39: Storage Technologies

Q39a: Provide vendor, (Mode)

A39a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q39b: Type (QoS, Tiers)

A39b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q39c: Redundant (there is a secondary storage replicating?)

A39c: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q39d: Volumes sizes

A39d: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q39e: QLUN small sizes?

A39e: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q39f: W LUN biggest size?

A39f: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q40: What is the expected security posture during a disaster event as outlined in the proposed solution?

A40: District security policies and procedures must be upheld during a disaster event.

Q41: Can you provide a clear understanding of Miami-Dade County Public Schools intended approach for managing various security controls, such as VM Security Policy, Distributed Firewall, Load Balancer, WAF, IDS/IPS, East/West segmentation, and Zero Trust, as part of the proposed Cloud DR solution?

A41: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q42: How does the proposed Cloud DR solution ensure minimal latency and optimal network performance during a disaster recovery scenario, given the possibility of hair-pinning traffic back on-prem and stretching of Layer2 networks?

A42: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q43: If Ransomware is considered by the District a Disaster, can you describe the measures in place to ensure that a Point in Time Snapshot or Backup is not infected by Ransomware in the event of an attack, and how it would impact the overall Recovery Time Objective (RTO)?

A43: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q44: Can you provide a comprehensive list of application flows that details the dependencies among applications, including network flows, ports, encryption methods, authentication methods, database relationships, and application tiers?

A44: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q45: Should the Network Virtualization choice in the Cloud DR solution allow you to achieve the same consistent zero-trust security model as you have on-prem?

A45: The DR solution should align with District security policies. These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q46: Should the technologies that are leveraged be similar to the existing skillsets that your team already has?

A46: This is preferable, but not required.

Q47: Should the load balancer option be multi-cloud enabled (available anywhere - regardless of the type of environment), have a built-in Enterprise-Grade WAF, provide thorough analytics, provide enough telemetry to troubleshoot issues, manage multiple sites from a single pane of glass, agnostic to prevent vendor lock-in, and not tied to specific hardware?

A47: This is preferred, but not required.

Q48: Is there a value or benefit in providing secure overlay connectivity between your load balancing solution and your network virtualization solution for the purposes of the Cloud DR?

A48: Possibly. These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q49: Should the load balancing solution for the Cloud DR be able to seamlessly integrate as a container ingress controller in the event of supporting future modern application requirements?

A49: No containers are in use for the initial solution.

Q50: Regarding the “certified African American or Non-Minority Woman” business requirement, is there a way for us to know each subcontractor’s current certification expiration date?

A50: Office of Economic Opportunity (OEO) can provide this information. Please send an email to Jwright2@dadeschools.net.

Q51: Is there a certain involvement expectation for the subcontractors we enlist? Would they have to be directly involved with the project work or can it be indirect?

A51: Please refer to Section 3.4 page 12 “Proposals submitted by a proposer that is not a certified African American or Non-Minority Woman firm or proposals from non-certified firms that do not include participation by a M-DCPS certified African American or Non-Minority Woman subcontractor certified by M-DCPS or another qualifying governmental entity, including a minimum 3% commitment of work to be performed by such subcontractor, shall be deemed non-responsive.” The scope of work can be decided between Prime and sub-contractor and must be outlined. In addition, please complete Exhibit 18 if a certified subcontractor will be performing work under this contract.

Q52: Are we able to enlist multiple subcontractors and split the involvement percentage between them?

A52: Yes, Please ensure that you comply with all components in Section 3.4 of the RFP. In addition, please complete Exhibit 18 for each certified subcontractor.

Q53: Does the Notary listed in various Exhibits need to be registered in Florida?

A53: If the document is being signed in Florida, yes.

Q54: Does the attorney listed in Exhibit 12, Section 1 for out of state proposers need to be registered in Florida?

A54: No, the attorney do not need to be registered in Florida.

Q55: [Section 4.2.1 & 4.2.2] Do you have the topology of the on-premise infrastructure (Number of VMs/servers, devices, networking, security)?

A55: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q56: What databases types, product (Oracle, Microsoft SQL Server, etc) and licenses are in use?

A56: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q57: Is there an existing cloud vendor in mind or are there existing agreements?

A57: No.

Q58: What specific SAP product (and other COTS systems) is in use? Does your maintenance package with that vendor provide a DR strategy? If so, could you provide details? Does the product allow for replication or hybrid cluster setup (on-premise with cloud native)?

A58: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q59: What are the Web-based applications, including student, employee, and community portal? Do you have the breakdown of each application, dependencies, infrastructure requirements and current backup strategy? What is the network traffic for each and what is the maximum allowable downtime and/or maintenance windows?

A59: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q60: What are the Web-based applications, including student, employee, and community portal? Do you have the breakdown of each application, dependencies, infrastructure requirements and current backup strategy? What is the network traffic for each and what is the maximum allowable downtime and/or maintenance windows?

A60: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q61: [Section 4.2.4] What are the expected timeline for Phases 1 to 3?

A61: Timelines for Phases 2 and 3 will be developed during Phase 1. Estimated time for Pework phase is requested.

Q62: [Section 4.3] Who and how many MD?

A62: Question is not understood.

Q63: Is there also a technical team to train?

A63: The solution will be developed and implemented with the District technical team.

Q64: Will the District consider extending the due date due to all the expected questions and data to be provided?

A64: Please refer to the revised due date issued through this addendum.

Q65: Can the solution be Co-location and/or DR secondary site?

A65: Both types of proposals can be evaluated.

Q66: Is the District interested in Managed Response or “as a Service” solution?

A66: Both types of proposals can be evaluated.

Q67: Can the District provide a list of “Qualified” African American or Non-Minority Women companies? None on the OEO website meet the experience nor qualifications.

A67: Office of Economic Opportunity (OEO) can provide this information. Please send an email to Jwright2@dadeschools.net.

Q68: Does the District have recovery time objectives that can be shared by application?

A68: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q69: Does the District have a Business Impact Analysis (BIA) that can be shared?

A69: This can be shared during Phase 1 of the project.

Q70: What does the District use for virtualization? VMWare or Microsoft Hyper-V?

A70: VMWare.

Q71: How many Servers and VM's (by Operating system Windows/Linux)?

A71: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q72: Is Mainframe Applications recovery part of this RFP?

A72: No.

Q73: What is the District's current backup software?

A73: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q74: Can the proposer submit a solution to replace the current backup software as part of the overall DR Solution?

A74: This is not in the scope for the current project.

Q75: Since no Cloud / DR solutions are the same, can the references be of similar DR Solutions?

A75: Yes, they can be similar.

Q76: Does the Firm and services need to reside in USA?

A76: Yes, the Firm needs to reside in the USA.

Q77: Can any of the data reside outside the USA?

A77: No.

Q78: Will all the updates be available through DemandStar? Or should we also need to access the Procurement?

A78: All addenda will be available through both the MDCPS Procurement and Demandstar websites.

Q79: Is there a minimum participation from African American Firm or Non-Minority Women Firm? 3% is unreasonable of the Total Bid since most of the cost will be related to products.

A79: Please refer to Section 3.4 and 7.2 for certified firm participation details. Proposals submitted by a non-certified firm must include a minimum 3% commitment of work to be performed by a M-DCPS certified African American or Non-Minority Woman subcontractor.

Q80: How does the District want for the respondent to include any pricing not on the spreadsheet? Or pricing clarification?

A80: Pursuant to Section 8 – Proposal Pricing, Proposer must complete this Section in its entirety and may supplement this section with additional pages as to provide the District with a more detailed breakdown, backup and/or options of related costs associated with the services being solicited in this RFP.

Q81: If we have clarifying questions after the Questions and Answers are posted, can we submit?

A81: Due to The Cone of Silence, only general questions not specifically related to the solicitation can be answered after the due date. All questions were to be submitted on February 13, 2023, by 5:00pm deadline.

Q82: Who will be part of the evaluation committee? Voting and Non-Voting? Will they all be IT employees?

A82: The evaluation committee has not yet been determined; however the composition will consist of individuals pursuant to School Board Policy 6320, Section III, D. Evaluation Committee Meetings for RFPs and ITNs Only. For further details please visit <https://go.boarddocs.com/fl/sbmd/Board.nsf/Public>.

Q83: Please provide the total number of servers.

A83: To be determined in the Discovery phase of the project.

Q84: Please provide the count of operating systems for Windows, Linux and other Operating System versions?

A84: To be determined in the Discovery phase of the project.

Q85: Please provide the list of all applications being considered for this RFP

A85: To be determined in the Discovery phase of the project.

Q86: Is there a preference to maintaining a current technology standard with respect to (i.e., network appliances, VMs etc.) persisted environment vs. a Cloud Native approach (e.g. native EC2, Network Firewalls, WAF)?

A86: Both approaches are open for evaluation.

Q87: Versions of SAP, App and Database layers?

A87: To be determined in the Discovery phase of the project.

Q88: Any portability requirements, vendor lock concerns?

A88: No vendor lock concerns anticipated.

Q89: Does the Dade County Schools currently have any existing cloud deployments on AWS, Azure, GCP? Or should we consider this net new environment?

A89: There are no cloud deployments in the scope for this disaster recovery project. This should be considered a new environment.

Q90: Does the Dade County Schools have Microsoft software assurance / license mobility for MS OS and MS SQL DBs if any?

A90: Yes.

Q91: Any VDI requirements beyond remote client VPN services as requested?

A91: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q92: Are all application servers and software in a supported state with all 3rd party ISV's? If so, do they support their software running on cloud constructs?

A92: All servers and software are in a supported state and should be able to run in the cloud.

Q93: Expectations to this initial full cycle DR test, how long of a production run cycle is expected in the DR target before falling back?

A93: To be determined in the Discovery phase of the project.

Q94: Delivery expectations with respects to project completion, timing?

A94: To be determined in the Discovery phase of the project.

Q95: Can you provide an inventory list with details?

A95: To be determined in the Discovery phase of the project.

Q96: Did you evaluate any solution? If so, which one?

A96: No remote disaster recovery solution has been evaluated.

Q97: Are you replacing a current solution? If so, who is the provider?

A97: There is no current remote disaster recovery solution.

Q98: After the RFP is awarded, will you provide details and points when requested?

A98: Yes, this request should be submitted as a Public Record Request (PRR) via email to pr@dad@schools.net to the District's Citizen Information Center.

Q99: Can you provide minority companies that have won any of your IT solutions?

A99: In order to obtain a list of awarded companies from prior bids, please submit a Public Records Request (PRR) using the email pr@dad@schools.net to the District's Citizen Information Center.

Q100: Base Implementation

Q100a: Install replication software

A100a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q100b: Establish connectivity

A100b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q100c: Configure replication server components at production site

A100c: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q100d: Configure, initiate, and achieve replication synchronization from production to disaster recovery site

A100d: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q101: Run Book Development

Q101a: Scripting

A101a: This is not a question.

Q101b: Automation development

A101b: This is not a question.

Q101c. Detailed training plan and user acceptance)

A101c: This is not a question.

Q101d. DR Exercise Planning, Execution and User Acceptance for both failover and failback Page

A101d: This is not a question.

Q101e: Lessons learned development

A101e: This is not a question.

Q101 f: Solution acceptance

A101f: This is not a question.

Q102: Annual Managed Services Aggregate storage - 300 TB

- Total Compute – 2,265 CPUs

- Total Memory – 8,831 GB

Snapshot pool compression 1.6:1 with retention twice daily

- o Monthly Change Rates

- § Databases at 4%

- § VM's at 2%

A102: This is not a question.

Q103: Technical Demonstration: Proposers in the shortlist will be given the opportunity to perform a technical proof of concept (POC). The POC will consist of a live demonstration in which the proposer will perform scenarios as specified by the provided script, followed by a Q&A session.

A103: This is not a question.

Q104: CDR will replicate the current on-premises solution and topology in a like-to-like rehosting strategy. So, for "DR on cloud" considerations, an assessment of Application (Custom & COTS) cloud readiness should be undertaken as part of this project's scope.

A104: Agreed, this will be determined in the discovery phase.

Q105: Another CDR function would be grouping servers based on "application/family of applications" with dependencies to invoke group level/individual DR. The inventory of applications, along with their business criticality, technology details and mapping to infrastructure, will be identified during the Phase I Pework (Discovery, Planning, and Design) with the awarded vendor.

A105: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q106: Implementation prework requirements: p19

Optional solutions to reduce total storage required like deduplication

Recommendations on backup retention in the cloud if this enhances the solution with the understanding that cloud backups will only be required when a failover scenario occurs

A106: Please expand on these enhancements in the proposal demonstration.

Q107: The vendor shall provide a single point of contact for all incidents, problems, and issues on a 7/24/365 basis.

A107: This is not a question.

Q108: Timeline estimation to complete each phase. Please provide a Gantt chart of the project phases (Pework, Base Implementation, and Run Book Development) as outlined, tasks, and resources (Proposer and MDCPS)

A108: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q109: How many VMs are in scope?

A109: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q110: What virtualization technologies are in use?

A110: VMWare.

Q111: What is the use case for VDI/WorkSpaces? (e.g., remote workforce enablement, high-security environment, BYOD simplification, etc.)

A111: There is no current use case for VDI.

Q112: Where are the users located?

A112: Users are located throughout the Miami-Dade County area.

Q113: What other resources are regularly access via VDI/WorkSpaces? (e.g., internal/intranet websites, databases, apps, file shares, ERP, CMS, LMS, etc.)

A113: There is no current use case for VDI.

Q114: What is the usage profile for VDI/WorkSpaces? (e.g., 24/7 always on, 5x8/9 weekdays, etc.)

A114: There is no current use case for VDI.

Q115: What is the directory technology? (E.g., Active Directory, LDAP, other?)

A115: Active Directory/Azure AD.

Q116: How is this managed? Is replication present?

A116: Managed by District staff.

Q117: How are users authorized to use VDI/WorkSpaces?

A117: There is no current use case for VDI.

Q118: What automation is present for managing users & VDI/WorkSpaces?

A118: There is no current use case for VDI.

Q119: What is the typical desktop profile?

A119: There is no current use case for VDI.

Q120: Windows or Linux?

A120: There is no current use case for VDI.

Q121: Number of VDI/WorkSpaces

A121: There is no current use case for VDI.

Q122: Number of total hours, monthly average, for VDI/WorkSpaces usage

A122: There is no current use case for VDI.

Q123: Total number of users with VDI/WorkSpaces access

A123: There is no current use case for VDI.

Q124: Average number of concurrent VDI/WorkSpaces in use and timeframe

A124: There is no current use case for VDI.

Q125: Peak number of concurrent VDI/WorkSpaces in use and approx. time peak typically occurs

A126: There is no current use case for VDI.

Q126: If Windows, BYOL or licensed by VDI/WorkSpaces provider?

A126: There is no current use case for VDI.

Q127: What resources are used by typical desktop (# vCPU & GiB RAM, disks & size of each)?

A127: There is no current use case for VDI.

Q128: What software is required on the desktop?

A128: There is no current use case for VDI.

Q129: How are desktop images maintained? (Automated updates, manual updates)

A129: There is no current use case for VDI.

Q130: How are desktops administered? (e.g., group policy, remove access, other)

A130: There is no current use case for VDI.

Q131: Do users have local administrator rights? If so, how is this controlled & audited? (e.g., "run elevated" tool, separate audited login, etc.)

A131: There is no current use case for VDI.

Q132: Can we get an rvtools or similar VM inventory output of the servers in scope?

A132: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q133: Describe the overall networking landscape.

A133: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q134: Describe any dedicated line technology present/preferred. (E.g., MegaPort, Direct Connect, etc.)

A134: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q135: Are any VPNs present? How are they used?

A135: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q136: How do users access VDI/WorkSpaces (internet or VPN)?

A136: There is no current use case for VDI.

Q137: What protocol is used, PCoIP, WSP, etc.?

A137: There is no current use case for VDI.

Q138: Do VDI/WorkSpaces need internet access? If so, how is access facilitated? (Proxy, NAT, Firewall, etc.)

A138: There is no current use case for VDI.

Q139: What are the RTO/RPO requirements

A139: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q140: How many physical servers are in scope?

A140: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q141: How many servers are related to the SAP application?

A141: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q142: Can we have a break out of these servers?

A142: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q143: If we are unable to get a server breakdown, can you breakdown the compute and storage resources for the 4 application tier categories?

These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q143a: SAP (HR / Payroll / Time / Benefits / Employee Self Service)

A143a: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q143b: Web-based applications, including student, employee, and community portal

A143b: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q143c: Migration of all active directory data and processes iv. District's internet presence

A143c: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q144: Are all servers located at one site or multiple sites?

A144: One site.

Q145: What is the current bandwidth at the main site?

A145: 100 gbps to Internet.

Q146: Does MDCPS own their IPs? Do you have a /24 currently?

A146: Yes, /16.

Q147: How many public facing websites will need to fail over to a DR target site for access in a disaster event?

A147: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q148: How much of the environment (data center specifications provided) is considered mission critical and needs to have compute available immediately?

A148: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q149: What backup technology is currently deployed?

A149: Veritas NetBackup.

Q150: What storage vendor and models are deployed in production?

A150: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q151: What VDI technology is currently being used?

A151: No VDI is currently used

Q152: Is the compute and storage required for the desktop users included in the data center overview specs provided?

A152: No.

Q153: What applications/software is being accessed by users?

A153: These specifications will be determined in the Pework/Discovery phase of the awarded project.

Q154: Will MDCPS provide licensing for Windows, SQL, Linux, or is the expectation that the provider will provide?

A154: The District maintains its own licenses.

Q155: How many DR tests are required annually?

A155: The District is targeting 2 DR tests per year.

Q156: Are full failover or sandbox DR drills required?

A156: Initially this will be sandbox DR drills, with a goal of a full failover test.

Q157: How many endpoints are in scope for security purposes?

A157: To be determined in the Discovery phase of the project.

Q158: Proposer assumes that the DR target will need some level of integration with existing services. Given this assumption, please provide a description or drawing of the current WAN, along with associated cloud or 3rd party services which will require integration.

A158: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q159: Will the District wish to utilize existing circuits/connections for communication for replication to the selected DR target site(s)?

A159: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q160: What specific compliance requirements that MDCPS must adhere to?

A160: The District adheres to NIST CSF framework.

Q161: What type of network infrastructure does MDCPS use today? MPLS/SDWAN

A161: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q162: Which provider are you currently working with?

A162: There is no current Disaster Recovery provider.

Q163: Is the expectation that the provider will include all licensing?

A163: No.

Q164: With there only being 1 vendor on your vendor directory that fits the M/WBE requirement in the IT field, will there be any exceptions to allow qualified vendors in order to get more than 1 response?

A164: Office of Economic Opportunity (OEO) can provide this information. Please send an email to Jwright2@dadeschools.net.

Q165: Do you have a deadline for when you expect to respond to questions from vendors?

A165: Questions are addressed through this addendum.

Q166: In lieu of exceptions, will you accept if we bid using the Omnia contract?

A166: If respondent wishes to provide pricing equal to the Omnia contract that is acceptable, however an original response to this RFP including all the requested documentation is required for responsiveness.

Q167: Would you extend the question deadline so we have more time to ask additional questions if needed?

A167: Due to The Cone of Silence, only general questions not specifically related to the solicitation can be answered after the due date. All questions were to be submitted on February 13, 2023, by 5:00pm deadline.

Q168: Can Miami Dade provide a landscape diagram, or list of systems including Operating System, Database type, CPU, Memory, and Disk allocation to be considered in scope for the RFP?

A168: These specifications will be determined in the Prewrite/Discovery phase of the awarded project.

Q169: If any minutes are available, can you send them to me ?

A169: Minutes are not available. Proposers can request a copy of the pre-proposal recording by submitting a Public Records Request (PRR) using the email pr@dadeschools.net to the District's Citizen Information Center.